



System Error Messages For Cisco SD-WAN, Cisco IOS XE Release 16.12.x (Cisco ISR 1000 Series and Cisco ISR 4000 Series Routers)

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CHAPTER 1

AAA through COMMON_FIB

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AAA through ADJ

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- ACE
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- ACL_ERRMSG
- ADJ

AAA**%AAA-3-BADMETHOD : Cannot process [chars] method [int]**

Explanation	A method list function encountered a method list that was unknown, or could not be handled.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-BADMETHODERROR : Cannot process [chars] method [chars]

Explanation	A method list function encountered a method type that was unknown, or could not be handled.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-BADSERVERTYPEERROR : Cannot process [chars] server type [chars]

Explanation	A method list function encountered a server type that was unknown, or could not be handled. This may be due to a server misconfiguration.
Recommended Action	Research the cause of the misconfiguration and attempt to correct it, otherwise take the following action. LOG_STD_ACTION

%AAA-2-FORKFAIL : Cannot fork process [chars]

Explanation	Attempted to fork a process and failed. The reason could be either hardware or software.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-2-AAAMULTILINKERROR : [chars]([hex]): Acct db for Id [hex] absent

Explanation	AAA internal error
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%AAA-2-AAAMULTILINKERROR : [chars]([hex]): Acct db for Id [hex] absent

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%AAA-3-SORTFAIL : [chars] :Peruser Could not sort the [chars] attributes

Explanation	Sorting of the attributes received from AAA server failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-INVALIDATTRLIST : aaa attribute list CLI is not valid when configuring in sub-mode.

Explanation	An internal error has occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-ISDNINTF : [chars] [chars]: Can not apply configuration to ISDN channel: [chars]

Explanation	Configuration can not be applied to individual ISDN channels.
Recommended Action	You need virtual-profiles and virtual-access interfaces to apply configuration to ISDN. Refer to the section on Configuring virtual profile by AAA Configuration in the Cisco IOS Dial Technologies Configuration Guide.

%AAA-3-AUTHORMLISTUNDEF : Authorization method list '[chars]' is not defined. Please define it.

Explanation	A given method list was listed in a command without defining it first. The method list should be defined before use.
Recommended Action	Define the method list before using it.

%AAA-3-PARSEERR : Error([dec]) parser is unable to parse [chars] per-user command

Explanation	All attempts to parse this per_user unconfigure command failed. The unconfigure command is called when an error occurs while configuring per-user commands, to revert back. The unconfiguration may fail due to parser or AAA error.
Recommended Action	The given unconfigure command was not executed. Switch on the debug peruser command and repeat the steps that caused the error. If you get the error, Report it to your technical support representative.

%AAA-6-ACCTSESSIDWRAP : Accounting-Session-ID [dec] exceeded max value allowed

Explanation	Accounting-Session-ID value exceeded max value allowed. Now it is wrapping.
Recommended Action	This is informational only, not an error.

%AAA-3-PASSWDRESTRICTERR : AAA password restriction failed.- [chars]

Explanation	The password/secret/key entered is not meeting the password restrictions configured
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-BADCURS0R : invalid cursor index [dec] max [dec] service [chars] protocol [chars]

Explanation	A AAA client has provided an invalid attribute cursor to AAA.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-MLIST_TOO_MANY_METHODS : method list '[chars]'

Explanation	This is an internal software error. An AAA client attempted to add too many methods to a method list.
Recommended Action	This is an internal software error. Check bug tool-kit on Cisco web-site for the issue. If you didn't find one, Collect the error message and report it to your technical support representative.

%AAA-3-SG_INTERNAL_ERROR : server group '[chars]': [chars]

Explanation	This is an internal software error in the AAA server group subsystem.
Recommended Action	This is an internal software error. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message, report it to your technical support representative.

%AAA-3-SG_DEADTIME_FORKFAIL : Failed to fork process for [chars].

Explanation	Quite likely, we ran out of memory. Other explanations are possible.
Recommended Action	If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.

%AAA-3-SG_TESTPROC_FORKFAIL : Failed to fork process for [chars].

Explanation	Quite likely, we ran out of memory. Other explanations are possible.
Recommended Action	If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, Collect all the information and error message and report it to your technical support representative.

%AAA-3-MLIST_INTERNAL_ERROR : method list '[chars]': [chars]

Explanation	This is an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-SERVER_INTERNAL_ERROR : Server '[chars]': [chars]

Explanation	This is an internal software error in the AAA server group subsystem.
Recommended Action	This is an internal software error. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, Collect all the information and error message and report it to your technical support representative.

%AAA-3-ATTRFORMATERR : Attribute with unknown format [dec]

Explanation	An attribute was found with an invalid format.
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%AAA-3-ATTRFORMATERR : Attribute with unknown format [dec]

Recommended Action Attribute with unknown format in definition. Enable AAA debug and try to replicate the steps to get the message. If the message appears again, Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter **Show tech-support** command, Collect all the information and error message and report it to your technical support representative.

%AAA-3-NULLCURSOR : Null cursor

Explanation A AAA client has provided a nonexistent attribute cursor to AAA.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-NOTABLE : AAA ID [int]

Explanation Resource failure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-BADLIST : invalid list AAA ID [int]

Explanation A AAA client has provided an invalid attribute list to AAA.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-6-BADHDL : invalid hdl AAA ID [int], hdl [hex], [chars]

Explanation A AAA client has provided an invalid attribute list handle to AAA.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-IPILLEGALMSG : Invalid use of ip_pid([int])

Explanation This error means a process sent an illegal message.

Recommended Action If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter **Show tech-support** command, Collect all the information and error message and report it to your technical support representative.

%AAA-3-INVALIDPARM : invalid parameter was used when accessing AAA function

Explanation A AAA client tried to use a AAA function with an invalid parameter.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-BADMAGIC : Data structure failed magic number sanity check

Explanation A corrupted data structure has been found which was stored internally.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-BUFFER_OVERFLOW : Radius I/O buffer has overflowed

Explanation An unusually large number of RADIUS attributes has caused AAA to overflow its RADIUS I/O buffer.

Recommended Action This is an internal software error. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter **Show tech-support** command, Collect all the information and error message and report it to your technical support representative.

%AAA-3-DROPACCTFAIL : Accounting record dropped, send to server failed: [chars]

Explanation An attempt to send an accounting record to a server failed. This happens when device exhaust all its retries and retransmission. The cause for this be the servers may not be operational or the NAS is not configured properly.

%AAA-3-DROPACCTFAIL : Accounting record dropped, send to server failed: [chars]

Recommended Action	Check the server , whether they are operational or not. Next check whether the device is configured properly. Refer to the server configuration section of the cisco IOS documentation. Finally, check that the NAS can communicate with the server. If the problem persist, Enter show running- config command, contact your cisco technical support representative and provide all the information gathered to the representative.
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%AAA-3-AUTH_LOW_IOMEM : RADIUS process is unable to handle the requests due to insufficient I/O memory

Explanation	RADIUS process unable to handle request due to insufficient IO memory. Hence returning failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-ACCT_LOW_PROC_MEM_TRASH : AAA unable to handle accounting requests due to insufficient processor memory and could be trashing the queued accounting records

Explanation	Dropping the accounting request as there is no enough processor memory. Hence all queued accounting requests shall be trashed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-ACCT_LOW_IO_MEM_TRASH : AAA unable to handle accounting requests due to insufficient I/O memory and could be trashing the queued accounting records

Explanation	Dropping the accounting request as there is no enough I/O memory. Hence all queued accounting requests shall be trashed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-ACCT_UNKNOWN_REASON_TRASH : AAA unable to handle accounting requests, reason unknown and could be trashing the queued accounting records

Explanation	Dropping the accounting request, reason unknown. Hence all queued accounting requests shall be trashed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-ACCT_LOW_MEM_UID_FAIL : AAA unable to create UID for incoming calls due to insufficient processor memory

Explanation	Stop creating the AAA UID, due to LOW processor memory
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-LOW_MEM : [chars] process is unable to handle the incoming packet due to low memory

Explanation	Please check the processor memory or IO memory. Most likely one is them has less available memory or worst case, both may have insufficient memory.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-ACCT_IOMEM_LOW : AAA ACCT process suspended : low I/O memory

Explanation	AAA ACCT process has been suspended due to insufficient IO memory.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-5-USER_LOCKED : User [chars] locked out on authentication failure

Explanation	User locked out since the number of authentication failures exceeded the configured threshold.
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%AAA-5-USER_LOCKED : User [chars] locked out on authentication failure

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%AAA-5-LOCAL_USER_BLOCKED : User [chars] blocked for login till [chars]

Explanation	User blocked since the number of authentication failures in the watch time exceeded the configured threshold.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-5-USER_UNLOCKED : User [chars] unlocked by [chars]

Explanation	User unlocked by the system administrator. User is enabled to login to the system.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-5-USER_RESET : User [chars] failed attempts reset by [chars]

Explanation	User's number of failed authentication attempts so far has been reset to zero
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-NULLVRF : Null vrf entry

Explanation	A NULL VRF entry found while comparing the AAA VRF attributes.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-6-INVALIDROUTE : Syntax error in route statement: [chars]

Explanation	Currently downloading route contains syntax error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-HA_INIT_FAILURE : High availability initialization failure: [chars]

Explanation	The AAA subsystem was unable to perform necessary high-availability related initialization. In the event of switchover to a standby device, sessions depending on high availability capabilities in the AAA subsystem will be forced to renegotiate.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-3-HA_INTERNAL_ERROR : High availability internal error for unique id [hex]: [chars]

Explanation	The AAA subsystem was suffered an internal error. In the event of switchover to a standby device, sessions depending on high availability capabilities in the AAA subsystem may be forced to renegotiate.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-6-USER_BLOCKED : Enable view requires to be authenticated by non-none methods, Please use the appropriate method with the login authentication

Explanation	None method authentication is not allowed in CLI
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAA-6-USER_FAIL_VIEW_AAA : User [chars] failed to enter view '[chars]'.

Explanation	You have provided wrong User ID or Password for the requested view
Recommended Action	This message is for information only. No action is required.

%AAA-6-SKIP_MOH_ATTRIBUTE : Warning: Hardware idb is NULL. No Modem. MoH attribute can not be applied and it is Skipped for authorization.

Explanation	To handle Modem-on-Hold attribute, we need connectivity with modems supporting V.92 modem standards. If there is no modem, there wouldn't be any tty, without which we cannot use MOH attributes.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

AAAA

%AAAA-3-BADSTR : Bad accounting data: [chars]

Explanation	During AAA accounting operations, the internal database of accounting information for a user was found to be corrupt. In all cases, this indicates an internal software error, and that accounting information for a particular user session has been lost.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%AAAA-3-ACCTDUMP : dump of accounting data:

Explanation	The data buffer overflowed while building the accounting packet as the total length of the attributes exceed the buffer size. Last 128 bytes of buffer data is dumped.
Recommended Action	LOG_STD_ACTIONCollect the logs with these debugs by using commands #debug aaa api,#debug aaa attr,#debug aaa accounting

%AAAA-3-ACCTATTR : last accounting attribute:

Explanation	The data buffer overflowed while building the accounting packet. The accounting attribute that was being written to the buffer while the buffer overflow occurred was logged.
Recommended Action	LOG_STD_ACTIONCollect the logs with these debugs by using commands #debug aaa api,#debug aaa attr,#debug aaa accounting

%AAAA-3-BDAUTHENSTR : Bad authentication data: [chars]

Explanation	The data buffer overflowed while building the authentication packet as the total length of the attributes exceeded the buffer size.
Recommended Action	LOG_STD_ACTIONCollect the logs with these debugs by using the commands #debug aaa api,#debug aaa attr,#debug aaa authentication

%AAAA-3-NULUSR : accounting for null user

Explanation	This message indicates an internal software error. During shutdown of a line or interface, the system tried to send accounting information via AAA, but could not find the user to which the accounting information belonged. The most likely reason for this error is trying to do accounting twice for the same event. This error message can occur without any loss of accounting information.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%AAAA-3-NULPORT : Could not establish port information

Explanation	This message indicates an internal software error. AAA could not determine a valid port string based on the information provided to it via a client.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%AAAA-3-RELOGIN : sanity check in re-login [chars] to [chars]

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%AAAA-3-DROPACCTSNDFAIL : Accounting record dropped, send to server failed: [chars]-[chars] [chars] [chars]

Explanation	An attempt to send an accounting record to a server failed.
Recommended Action	Check that the server (TACACS+ or RADIUS) is operational. Next, check the NAS is configured properly. Finally, check that the NAS can communicate with the server

%AAAA-3-DROPACCTLOWMEM : Accounting record dropped due to low memory: [chars]-[chars] [chars] [chars]

Explanation An accounting record dropped due to low memory.

Recommended Action Disable periodic accounting if it is on. Try to reduce the load on the router.

%AAAA-3-DROPACCTFULLQ : Accounting record dropped due to a full aaa accounting queue: [chars]-[chars] [chars] [chars]

Explanation An accounting record was dropped because there are too many accounting packets enqueued.

Recommended Action Disable periodic accounting if it is on. The accounting queue may have grown to be large, which is usually due to a non-responsive AAA server. Use 'show radius statistics' or 'show tacacs' to see if the number of timeouts is increasing or if the response delay is unusually high.

%AAAA-3-DROPACCTQUEUEEXCEEDED : accounting record dropped, output record queue full: [chars]-[chars] [chars] [chars]

Explanation An accounting record was dropped. The record could not be enqueued because the number of records in the output queue has exceeded the system limit.

Recommended Action Disable periodic accounting if it is on. `[no] aaa accounting update newinfo periodic <interval>`

%AAAA-3-MKTIMERFAIL : Failed to create periodic accounting timer for user [chars]. This user may not generate periodic accounting records.

Explanation Failed to malloc a timer struct for periodic accounting.

Recommended Action Free up some memory and have user re-authenticate.

%AAAA-3-MKTIMERINVALID : Invalid request to create periodic accounting timer for user [chars]. Timer already exists.

Explanation Invalid client usage of timer struct for periodic accounting.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%AAAA-3-PERIODICFORKFAIL : Failed to start periodic accounting process. Periodic accounting records may not be sent.

Explanation Failed to create the periodic accounting process.

Recommended Action Free up some memory.

%AAAA-3-ACCTFORKFAIL : Failed to start accounting process. Accounting records may not be sent.

Explanation Failed to create the accounting process.

Recommended Action Free up some memory.

%AAAA-3-AAAFORKFAIL : Failed to start AAA process. AAA requests may not be processed.

Explanation Failed to create the AAA process.

Recommended Action Free up some memory.

%AAAA-4-BADMETHNAME : Bad [chars] method-list name [chars] (this is only a warning)

Explanation A method-list name should not be the same as a method name. Please choose a different name for the method list.

Recommended Action Pick a different method-list name, that is not also a method-name.

%AAAA-3-ILLEGALNAME : Illegal [chars] [chars] name [chars] rejected

Explanation A method-list name should not be the same as a method name. Please choose a different name for the method list.

Recommended Action Pick a different method-list name, that is not also a method-name.

%AAAA-3-BADLIST : %% AAA: bad [chars] list [chars]

Explanation One of the AAA methods does not seem to have a list associated with it.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-4-UNSUPWAITSTART : %% AAA: Unsupported option wait-start mapped to start-stop.

Explanation wait-start accounting is not supported. It is being mapped to start-stop

Recommended Action wait-start accounting is not supported. It is being mapped to start-stop

%AAAA-3-INVALIDLIST : %% AAA: invalid [chars] list [dec].

Explanation One of the AAA methods lists has inconsistent settings

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-BADARG : %% AAA: bad argument (%0#4x)

Explanation We tried to NVGEN a non-existent AAA command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-BADSTATE : %% AAA: Bad state for [chars] list name ([dec])

Explanation A AAA method list is neither default nor named. This is bad.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-NOFREELISTS : %% AAA: No free [chars] lists for [chars]

Explanation You have reached the maximum number of possible authentication lists for this method.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-TIMERNOPER : AAA/ACCT/TIMER: No periodic update but timer set.

Explanation	We are trying to free a timer, but the update method is not PERIODIC, and so no timer should exist.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-PERNOTIMER : AAA/ACCT/TIMER: Periodic update but no timer.

Explanation	We are trying to free a timer, and the method is PERIODIC, but no timer seems to exist.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-OVERWRITE : Overwrote internal buffer space [chars]

Explanation	An internal software error.
Recommended Action	Report to tac@cisco.com .

%AAAA-3-DLRFORKFAIL : Failed to fork process for [chars].

Explanation	Quite likely, we ran out of memory. Other explanations are possible.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-STRCREATE : str_create overwrote its internal buffer.

Explanation	An internal buffer, used to assemble a string, was exceeded, thus possibly corrupting other memory.
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%AAAA-3-STRCREATE : str_create overwrote its internal buffer.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%AAAA-6-ACCTSTART : [chars]

Explanation	A AAA accounting start message.
Recommended Action	This information is for information only.

%AAAA-6-ACCTSTOP : [chars]

Explanation	A AAA accounting stop message.
Recommended Action	This information is for information only.

%AAAA-6-ACCTWATCH : [chars]

Explanation	A AAA accounting watchdog/update message.
Recommended Action	This information is for information only.

%AAAA-6-ACCTLOCAL : Username: [chars] Privilege level: [dec] Command: [chars]

Explanation	AAA local accounting log message
Recommended Action	This information is to store buffered logs locally and send to SYSLOG server

%AAAA-3-SUBTYPE : Bad Subtype [dec] for [chars] ([dec])

Explanation	An internal software error.
Recommended Action	Report to tac@cisco.com .

%AAAA-3-NOLIST : [chars]: no method list-name.

Explanation	An internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-INVSTATE : [chars] AUTHOR[chars]: Internal state is invalid: astruct 0x[int]struct [hex]

Explanation	One of the two mentioned data-structures is not set, but is needed here. This is an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-LISTCREATE : The list [dec] for [chars] is NULL. This should never be.

Explanation	One of the method-lists, created at startup, wasn't created. This may cause a reload
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-NOSERV : No name for servergroup in method [chars]

Explanation	An internal error has occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-4-SERVUNDEF : The server-group [chars] is not defined. Please define it.

Explanation	A given server-group was listed in a method-list without defining it first. Server-groups should be defined before use.
Recommended Action	Define the server-group before using it.

%AAAA-4-SERVNOTACPLUS : The server-group [chars] is not a tacacs+ server group. Please define [chars] as a tacacs+ server group.

Explanation	The protocol used by the server-group doesn't support the configured aaa action.
Recommended Action	Use a tacacs+ server-group.

%AAAA-4-SERVNORADIUS : The server-group [chars] is not a radius server group. Please define [chars] as a radius server group.

Explanation	The protocol used by the server-group doesn't support the configured aaa action.
Recommended Action	Use a radius server-group.

%AAAA-4-DNISGPUNDEF : Warning: DNIS group [chars] is not defined.

Explanation	The DNIS group was used without defining it first. It should be defined before use.
Recommended Action	Define the DNIS group before using it.

%AAAA-3-NOREG : [chars] method [dec] has no registry!

Explanation	An internal error has occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-BADREG : Illegal registry call.

Explanation	An internal software error has occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-BADCOMM : Trying config command but should not be.

Explanation	An internal error has occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-NOSG : No server-group passed through parser.

Explanation	An internal error has occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-6-SERVERMSG : [chars] [chars]: [chars]

Explanation	This message was passed to the NAS from the AAA server
Recommended Action	No action need be taken, but the message may contain usefull information regarding some event on the server

%AAAA-6-ADMINMSG : [chars] [chars]: [chars]

Explanation	This administrative message was passed to the NAS from the AAA server
Recommended Action	No action need be taken, but the message may contain usefull information regarding some event on the server

%AAAA-3-ILLSGNAME : Illegal server-group name [chars] (type [chars]).

Explanation	The given server-group name is a name that could conflict with internally chosen lists.
Recommended Action	Please pick a different server-group name.

%AAAA-4-NOSERVER : Warning: Server [chars] is not defined.

Explanation	The given server is not on the master-list, and should be defined, or unexpected things might happen.
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%AAAA-4-NOSERVER : Warning: Server [chars] is not defined.

Recommended Action Please define the server on the appropriate master-list as soon as possible.

%AAAA-4-BADSGNAME : Bad server-group name [chars] (type [chars]).

Explanation The given server-group name either doesn't exist or the given type does not match the defined server-group.

Recommended Action Verify that the group exists and has the same type.

%AAAA-4-BADSGTYPE : Server-group [chars] is not of type [chars].

Explanation The given server-group name does not match the specified type

Recommended Action Verify that the group exists and has the same type.

%AAAA-4-SERVNOGRP : Warning: Server [IP_address]:[dec],[dec] is not part of server group [chars].

Explanation The server does not belong to the specified server group

Recommended Action Please check that the specified server belongs to the server group

%AAAA-3-NOADMINPROC : [chars]

Explanation Administrative process has been enabled but somehow could not run

Recommended Action

%AAAA-3-INTERNAL_ERROR : [chars]

Explanation This is an internal software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-3-SGDUPFREE : Duplicate free of server group [hex]

Explanation	This is an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-4-NOCACHEPROC : The aaa cache process is not created. Please configure aaa cache profile first

Explanation	Cache was listed in a method-list without defining it first. Cache profile should be defined before use.
Recommended Action	Define the cache profile before using it.

%AAAA-3-INVALIDATTRLIST : aaa attribute list CLI is not valid when configuring in sub-mode.

Explanation	An internal error has occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AAAA-4-CLI_DEPRECATED : [chars]

Explanation	CLI deprecated. New CLI to be used
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

AC**%AC-3-AC_WS_REGISTER : L2VPN WS registration failed for [chars]**

Explanation	An error was encountered when attempting to register the specified Attachment Circuit type with the Layer 2 Virtual Private Network Wire Service facility.
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%AC-3-AC_WS_REGISTER : L2VPN WS registration failed for [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%AC-3-AC_SANITY : [chars]

Explanation	A unexpected sanity check failed during Attachment Circuit processing.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AC-3-L2SS_NULL_CONTEXT : Encountered a NULL context in [chars]

Explanation	Encountered a NULL context in L2SS Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AC-3-L2SS_WRONG_KEYS : Wrong set of keys in [chars] message

Explanation	SIP sends a wrong set of keys to L2SS Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AC-3-L2SS_UNEXPECTED : Received unexpected [chars] message

Explanation	L2SS received unexpected message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AC-3-L2SS_BAD_HANDLE : Corrupted L2SS handle [[hex]].

Explanation	An internal L2SS Manager occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AC-3-ACMGR_XDM_CREATE : Failed to create XDM - rc [int]

Explanation	Attachment Circuit Manager was unable to create a Dispatch Manager instance for event handling.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AC-3-ACMGR_INVALID_MSG : Received [chars]

Explanation	Attachment Circuit Manager receives invalid message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AC-3-ACMGR_MISSED_CIRCUIT : Circuit info missing in [chars] message.

Explanation	AC Manager received message with missing circuit info
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AC-3-ACMGR_INVALID_HDL : Received invalid [chars] handle

Explanation	Attachment Circuit Manager receives invalid handle.
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%AC-3-ACMGR_INVALID_HDL : Received invalid [chars] handle

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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ACCESS_IE

%ACCESS_IE-3-INVALID_HANDLE : Caller passed in invalid handle - traceback to follow.

Explanation	An invalid handle was encountered in the Access IE library.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

ACCESS_SESSION

%ACCESS_SESSION-3-TRACE_INIT_FAIL : Initialization failed with code: [dec]

Explanation	Failed to initialize access-session trace.
Recommended Action	No action is required.

%ACCESS_SESSION-3-TRACE_REG_FAIL : Component [chars] registration failed. Error code: [dec]

Explanation	Component failed to register with access-session trace
Recommended Action	No action is required.

ACCESS_SESSION_TRACE

%ACCESS_SESSION_TRACE-3-TRACE_INIT_FAIL :

Explanation	Failed to initialize access-session trace.
Recommended Action	Review smd logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.

%ACCESS_SESSION_TRACE-3-TRACE_REG_FAIL :

Explanation	Component failed to register with access-session trace
Recommended Action	Review smd logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.

ACE**%ACE-3-INITFAIL : [chars]: initialization failed ([chars])**

Explanation	ACE initialization sequence failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-3-TRANSERR : [chars]: [chars] trans [hex]; opcode [hex]; param [hex]; error [hex]; retry cnt [dec]

Explanation	An error occurred in the indicated control transaction.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-6-SWITCHOVER : VPN-SM switchover: [dec]/[dec] has been [chars] [dec]/[dec]

Explanation	A blade to blade switchover has occurred. System performance is not affected.
Recommended Action	System performance is not affected. No customer action is necessary.

%ACE-3-TRANSERR_RL : [chars]: [chars] trans [hex]; opcode [hex]; param [hex]; error [hex]; retry cnt [dec]

Explanation	An error occurred in the indicated control transaction.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-3-TRANSTO : [chars]: [chars] trans [hex]; opcode [hex]; param [hex]; too many retries

Explanation	An error occurred in the indicated control transaction.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-3-TRANSNAK : [chars]: [chars] NAK trans [hex]; opcode [hex]; param [hex]

Explanation	An negative acknowledge occured in the indicated control transaction.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-3-NOMORETID : [chars]: out of [chars] transactions

Explanation	Transaction pool for the indicated transaction type was exhausted.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-3-INTVID : [chars]: [chars] of invalid [chars] trans id [dec]

Explanation	An invalid transaction ID of for the indicated transaction type was encountered
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-3-HAPITRUNC : [chars]: Received truncated HAPI message (tlen=[dec], actual=[dec])

Explanation	The received ACE control packet was smaller than the size field indicated
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-6-UNEXP_OUTBOUND_IPSEC : [chars]: received unexpected IPsec packet: src IP: [IP_address]; dst IP: [IP_address]; firsthop/lasthop = [chars]/[chars] (count=[dec])

Explanation	An IPsec packet was unexpectedly forwarded to the RP
Recommended Action	If this message was seen in the context of the router booting, enabling the hardware crypto accelerator, or with an invalid peer IP address then this message is normal and can be safely ignored. Otherwise, please copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-6-UNEXP_INBOUND_IPSEC : [chars]: received unexpected IPsec packet: src IP: [IP_address]; dst IP: [IP_address]; (count=[dec])

Explanation	An IPsec packet was unexpectedly forwarded to the RP
Recommended Action	If this message was seen in the context of the router booting, enabling the hardware crypto accelerator, then this message is normal and can be safely ignored. Otherwise, please copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-3-CRASHDUMPSTART : [chars]: crashdump retrieval initiated to file [chars]

Explanation The ACE crashed and was rebooted. Upon reboot, a crashdump file was detected and uploaded to the sup-bootflash filesystem.

Recommended Action Report the crash and transfer the crashdump file to your technical support representative.

%ACE-6-CRASHDUMPEND : [chars]: crashdump retrieval complete

Explanation The ACE crashed and was rebooted. Upon reboot, a crashdump file was detected and uploaded to the sup-bootflash filesystem.

Recommended Action Report the crash and transfer the crashdump file to your technical support representative.

%ACE-3-CRASHDUMPERR : [chars]: crashdump retrieval error: [chars] [chars]

Explanation An error occurred during crashdump file retrieval from ACE.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-6-BOOTMSGINFO : [chars]: boot info: [chars]

Explanation The ACE completed booting, but with a non-zero informational status code. This does not indicate an error and ACE will run normally.

Recommended Action No action is necessary.

%ACE-3-BOOTMSGERR : [chars]: boot error: [chars]

Explanation The ACE completed booting, but with an error status code. ACE will not operate and it will not register with the crypto subsystem.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-3-OUTOFRES : Too many [chars] in the system. Cannot allocate a new one

Explanation All VPN-accelerator resources of a particular are in used and thus this allocation request fails.

%ACE-3-OUTOFRES : Too many [chars] in the system. Cannot allocate a new one

Recommended Action Remove the cryptomap set from the interface. Reduce the number of that resource in the system. For ACL, reduce the number of ACL permit ACE in the system. For cryptomap, reduce the number of cryptomaps in the system. For SPD and SPD map, reduce the number of interface with cryptomap set attached.

%ACE-2-INTTABOPERR : Internal [chars] table error: [chars]

Explanation Internal table operation fails. This means the state of the module is mostly like inconsistent.

Recommended Action Contact your technical support representative

%ACE-2-CRYPTOENGERR : Crypto engine error: [chars] ([dec])

Explanation A crypto engine operation did not complete. This error condition can indicate that the crypto engine cannot bind or unbind an interface to a crypto engine. It can also indicate that the crypto engine cannot query an interface ID.

Recommended Action Remove the cryptomap set from the interface by issuing **no crypto map** command. Then reattach the cryptomap set to the interface using **crypto map** command. Although removing and reattaching the crypto map might fix the cryptographic engine operation failure, report the failure to your technical support representative along with the sequence of commands that lead to the failure.

%ACE-6-INFO : [chars]: [chars]

Explanation This is informational message from ACE

Recommended Action This is informational message from ACE. This occurs in normal operation.

%ACE-3-OUTOFID_RL : Too many [chars] IDs in the system. Cannot allocate a new one

Explanation All the IDs of the specified type are in use

Recommended Action Reduce the traffic load, number of IPSec tunnels and/or frequency of re-key. If this message was seen under light loading conditions, then copy the error message exactly as it appears, and report it to your technical support representative.

%ACE-3-NOENGINESLOT : Interface [chars] has no crypto engine slot

Explanation An IKE SA was requested for a given interface, but no crypto engine slot was assigned to that interface

%ACE-3-NOENGINESLOT : Interface [chars] has no crypto engine slot

Recommended Action Configure the interface in question with the `crypto engine [sub]slot` command

%ACE-3-CEAL_REGISTRATION : ACE [chars] failed to register.

Explanation The ACE failed to register with CEAL

Recommended Action Reset the hw module

%ACE-4-BV_IDMGR_DESTROY : ACE failed to destroy [chars] ID manager. Leaking memory.

Explanation The ACE failed to destroy memory space for ID management.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

ACL

%ACL-3-UNEXPECTED_STATE : type [dec], int [chars] [chars]put, w0: [hex], w1: [hex]

Explanation An error has occurred in the setup of ACL hardware.

Recommended Action LOG_STD_ACTION

%ACL-3-UNEXPECTED_PKT_TYPE : type [dec], int [dec] [chars]put

Explanation ACL logging has encountered unexpected pkt type.

Recommended Action LOG_STD_ACTION

ACL_ERRMSG

%ACL_ERRMSG-4-UNLOADED : [chars] [chars] [chars] ACL on interface [chars] could not be programmed in hardware and traffic will be dropped.

Explanation The configuration is too large dropped will be dropped on this interface.

Recommended Action Allocate more space to the relevant section of the TCAM and reboot, or else use a simpler configuration. If possible, use the same ACLs on multiple interfaces.

%ACL_ERRMSG-4-HASH_FULL : [chars] [chars] [chars] ACL on cell [chars] could not be programmed in hardware, SGACL table is full.

Explanation The configuration is too large.

Recommended Action You have exceeded the system limit of SGACL cells, use a simpler configuration which uses less SGACL cells.

%ACL_ERRMSG-4-HASH_ERROR : [chars] [chars] [chars] ACL on cell [chars] could not be found.

Explanation The configuration is unknown.

Recommended Action There is no SGACL Cell with this configuration found.

%ACL_ERRMSG-4-PROGRAM_FAILED : [chars] [chars] [chars] ACL on [chars] programming failed in hardware.

Explanation The configuration is too large.

Recommended Action You have exceeded the system limit of entries, use a simpler configuration which uses less entries.

%ACL_ERRMSG-6-RELOADED : [chars] [chars] [chars] ACL on interface [chars] has now been loaded into the hardware.

Explanation The configuration that previously was unable to fit into the hardware will now fit and has been programmed for this interface.

Recommended Action No action required, informational only.

%ACL_ERRMSG-6-REMOVED : The [chars] [chars] [chars] ACL configuration that was previously unloaded has been removed from interface [chars].

Explanation The configuration that was previously unloaded, because of lack of space, has been removed.

Recommended Action No action required, informational only.

%ACL_ERRMSG-3-ERROR : [chars] [chars] [chars] ACL [chars] configuration could not be applied on [chars].

Explanation The given ACL configuration could not be applied to hardware.

Recommended Action Find out more about the error by using the show platform software trace messages fed command.

%ACL_ERRMSG-3-CHANGE_ERROR : [chars] [chars] [chars] ACL [chars] change configuration could not be updated on all installed interfaces.

Explanation	The given ACL change configuration could not be applied to all installed policies in hardware.
Recommended Action	Find out more about the error by using the show platform software trace messages fed command.

%ACL_ERRMSG-6-PACL_INFO : Logging is not supported for PAACL.

Explanation	The ACL logging is not supported on port interface.
Recommended Action	No action is needed.

%ACL_ERRMSG-6-GACL_INFO : Logging is not supported for GACL.

Explanation	The ACL logging is not supported for client/group ACL.
Recommended Action	No action is needed.

%ACL_ERRMSG-3-SGACL_ERROR : SGACL configuration could not be changed on [chars].

Explanation	An error occurred during SGACL configuration change, all SGACLs have been removed from cell.
Recommended Action	User needs to manually remove the cell configuration and attempt to re-apply when resources have been freed.

ADJ

%ADJ-3-BADMACALIGN : adjacency mac string end [hex] not [chars] aligned

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-BADMAGIC : adjacency [chars] is followed by bad magic

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ALLOCATEONDOWN : Allocating adj when adj subsystem down

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ALLOCATEFAIL : Failed to allocate an adjacency

Explanation	An internal software error occurred. This is probably because not enough memory was available.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-BOARDENCAP : Generation of encapsulation string for [chars] failed

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ILLEGALARGS : Illegal arguments - [chars]

Explanation	An internal software error occurred.
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%ADJ-3-ILLEGALARGS : Illegal arguments - [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%ADJ-3-STATETRANSITION : Unexpected state transition from [chars] to [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-NOFIBIDB : CEF Interface not found - [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-LCXDRCLIENT : Adjacency distribution client: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-RPXDRCLIENT : Adjacency distribution client: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-BROKERINITFAIL : Failed to initialise adjacency RP broker facility

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-SBINITFAIL : Failed to initialise adjacency subblock facility

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ILINITFAIL : Failed to initialise adjacency interest list facility

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-BUNDLES : Adj bundles: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ILALLOCATEFAIL : Failed to allocate an adjacency interest list subblock

Explanation	An internal software error occurred. This is probably because not enough memory was available.
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%ADJ-3-ILALLOCATEFAIL : Failed to allocate an adjacency interest list subblock

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%ADJ-3-ILDEALLOCATEFAIL : Failed to deallocate an adjacency interest list subblock

Explanation	An internal software error occurred. This is probably because not enough memory was available.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-DBGFILTERALLOCATEFAIL : Failed to allocate an adjacency debug filter block

Explanation	An internal software error occurred. This is probably because not enough memory was available.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ADJMGRALLOCATEFAIL : Failed to allocate an adjacency summary event block

Explanation	An internal software error occurred. This is probably because not enough memory was available.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ADJGENALLOCATEFAIL : Failed to allocate memory [chars]

Explanation	An internal software error occurred. This is probably because not enough memory was available.
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%ADJ-3-ADJGENALLOCATEFAIL : Failed to allocate memory [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%ADJ-3-ADJGENDEALLOCATEFAIL : Failed to deallocate memory [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ADJMGRREFRESHFAIL : Failed to dispatch a refresh adjacency summary event

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ADJMGRDISPATCHFAIL : Failed to enqueue an adjacency summary event block

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-5-PARENT : Midchain parent maintenance for [chars] - [chars]

Explanation	A midchain adjacency failed to stack onto output chain because a loop was detected. Traffic through the adjacency will be dropped until the adj is restacked. This condition is typically transient and is rectified by the control plane driving stacking. E.g. if an ip tunnel destination resolves through the tunnel transiently this message would appear. The situation would be rectified either by learning the tunnel destination through an interface other than the tunnel itself or by bringing the tunnel down. Monitor 'show adjacency internal' to determine if the problem has been resolved.
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%ADJ-5-PARENT : Midchain parent maintenance for [chars] - [chars]

Recommended Action No action is required.

%ADJ-3-ADJSTACK2 : Adj stack2 error [chars]: [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-5-ADJISSUINCOMPATIBLE : All or part of adjacency message for [chars] not sent to incompatible CEF instance for [chars]

Explanation The adjacency is not distributed in whole to the remote CEF instance. This may impact traffic forwarding on remote CEF instance

Recommended Action No action is required.

%ADJ-3-BADADDRTYPE : Using an unsupported address type [dec] when trying to add/delete/modify/find an adjacency

Explanation An internal software error occurred. An attempt to reference an adjacency with an unsupported address type has been made.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-BADADDRLEN : Zero address length detected distributing adj [chars]

Explanation An internal software error occurred. An attempt to reference an adjacency with an unsupported address type has been made.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-BADLINKTYPE : Using an unsupported linktype [chars] when trying to add/delete/modify/find an adjacency

Explanation	An internal software error occurred. An attempt to reference an adjacency with an unsupported address type has been made.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-BADMACALIGN2 : Adjacency mac string for [chars] not byte aligned, offset [hex], length [hex]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-MACOVERFLOW : Adjacency mac address for [chars] overflowed by [dec] bytes

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-5-RESOLVE_REQ_FAIL : Adj resolve request failed for [chars] on [chars]

Explanation	The source (e.g. ARP or ND) could not resolve the address.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-MACSTRING_PD_ERROR : Platform request for header type [chars] from adjacency [chars] [chars][chars]

Explanation	An internal software error occurred.
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%ADJ-3-MACSTRING_PD_ERROR : Platform request for header type [chars] from adjacency [chars] [chars][chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ISSU_REG : ISSU client [chars] ([dec]), entity [dec], failed ISSU registration: [chars]

Explanation ISSU negotiation failed for this XDR client.

Recommended Action This error indicates a coding problem. It is an error that will occur every time this image is run, and requires a code change to fix it.

%ADJ-3-CONNID_POOL_EXHAUSTED : Pool of connection ids is fully utilized. It may not be possible to encode new sets of extended keys.

Explanation Either there are too many unique sets of extended keys in the system, or ids have been leaking.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-CONNID_INVALID_KEY : Unexpected connection-id parameter: Expecting [chars] when encoding [chars]

Explanation An application has provided an invalid key for computing a connection-id.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-CONNID_TREE_OP_FAIL : Tree [chars] failed for [chars] for id [int] (connid [int])

Explanation A tree operation failed for the connection-id manager. An inability to correctly construct a tree will have negative consequences for the system.

%ADJ-3-CONNID_TREE_OP_FAIL : Tree [chars] failed for [chars] for id [int] (connid [int])

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%ADJ-3-CONNID_INVALID : Connection id [int] not recognized ([chars])

Explanation	A supplied connection id did not exist in the managed id database.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-CONNID_INCOMPATIBLE_ID : Connection id [int] could not be transformed: [chars]

Explanation	A connection id could not be transformed from a lower revision.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-CONNID_TREE_MISMATCH : Supplied connid [int] and extended keys ([chars]) do not match database: [int] ([chars])

Explanation	An adjacency has a connection id and extended keys mapping that doesn't match what's in the managed connection id database. This will likely result in a rejected adjacency update or sync.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ADJ-3-ADJ_XKEYS : Adj extended keys error [chars]: [chars]

Explanation	An initialization error occurred for extended keys.
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%ADJ-3-ADJ_XKEYS : Adj extended keys error [chars]: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%ADJ-3-XKEYS_XDR_LEN : Expected [int] bytes of extended adjacency keys: decoded [int] bytes

Explanation	The XDR message was incorrectly formatted and may contain bad xkey data.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

AGGMGR through APM

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AGGMGR

%AGGMGR-0-NO_SPACE : No space left for creator [chars] to add data item to agg list (items [dec] max [dec] remaining [dec])

Explanation	An attempt was made to add an item to an aggregation list that had just been successfully created but for some reason the add failed. This situation should never occur. If it does occur, then it is the result of a program error which would be found during development and considered an internal error. There is no work around.
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%AGGMGR-0-NO_SPACE : No space left for creator [chars] to add data item to agg list (items [dec] max [dec] remaining [dec])

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

ALARM

%ALARM-3-NOMEM : OUT of Memory: [chars]

Explanation

Recommended Action

%ALARM-3-CLEAR : [chars] [chars] [chars] [chars] [chars]

Explanation

Recommended Action

%ALARM-6-ENTITY_INFO : [chars] [chars] [chars] [chars] [chars]

Explanation Entity alarm assertion or deassertion information.

Recommended Action No action is required.

ALG_COM

%ALG_COM-3-ALG_COND_DEBUG_REG_FAILED : [chars]

Explanation

Recommended Action

%ALG_COM-3-CHUNK_CREATE_FAIL : [chars]

Explanation A request to create a chunk failed

Recommended Action LOG_STD_ACTION

%ALG_COM-3-CHUNK_EXTEND_FAIL : [chars]

Explanation A request to create a chunk failed**Recommended Action** LOG_STD_ACTION

%ALG_COM-3-IPC_INIT_FAILED : [dec]

Explanation IPC handler initialization failed.**Recommended Action** LOG_STD_ACTION

%ALG_COM-3-ALG_REGISTER_FAILED : [dec]

Explanation ALG registration failed.**Recommended Action** LOG_STD_ACTION

ALG_PROXY

%ALG_PROXY-3-PROXY_MEM_REQ_FAILED : ALG IPC subtype: [dec]

Explanation Requesting more memory failed.**Recommended Action** LOG_STD_ACTION

%ALG_PROXY-3-PROXY_MEM_EXTEND_FAILED : ALG IPC subtype: [dec]

Explanation Extending memory failed.**Recommended Action** LOG_STD_ACTION

%ALG_PROXY-4-PROXY_IPC_INVALID_MSG_LEN : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Invalid IPC message length.**Recommended Action** LOG_STD_ACTION

%ALG_PROXY-4-PROXY_IPC_INVALID_MSG : [dec]

Explanation Invalid IPC message subtype.**Recommended Action** LOG_STD_ACTION

%ALG_PROXY-3-PROXY_IPC_FAIL : rc= [dec], MSGDEF_LIMIT_MEDIUM

Explanation The ALG proxy has experienced a failure when trying to send an IPC**Recommended Action** LOG_STD_ACTION

ALIGN

%ALIGN-3-CORRECT : Alignment correction made at [hex] [chars]ing [hex]

Explanation A software component within the router needs memory optimization.**Recommended Action** Copy the error message exactly as it appears, and report it to your technical support representative.

%ALIGN-3-FULL : Alignment log is full - no new entries will be recorded

Explanation The router identified more software components in need of memory optimization than it can record.**Recommended Action** Copy the error message exactly as it appears, and report it to your technical support representative.

%ALIGN-3-SPURIOUS : Spurious memory access made at [hex] reading [hex]

Explanation An attempted but illegal access to a low memory address within a software component in the router has been temporarily blocked.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show alignment** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show alignment** output, call your Cisco technical support representative and provide the representative with the gathered information.

%ALIGN-3-TRACE : -Traceback= [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation A trace that shows where the previous ALIGN error occurred.

%ALIGN-3-TRACE : -Traceback= [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%ALIGN-3-TRACEX : [chars]

Explanation	A trace that shows where the previous ALIGN error occurred.
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%ALIGN-3-READEXCEPTION : Warning : read access failed at [chars], still continuing

Explanation	In ls1010 read access failures do not make the box reload. They can be caused by either a bad register value in the asp ver 3.3 or earlier or a real problem in the hardware
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Recommended Action	If the ASP version is 3.3 or more, report it to your technical support representative.
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%ALIGN-3-CORRECT : Alignment correction made at [chars] [chars]ing [hex]

Explanation	A software component within the router needs memory optimization.
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%ALIGN-3-CORRECT_SO : Alignment correction made at [chars] [chars]ing [chars]

Explanation	A software component within the router needs memory optimization.
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%ALIGN-3-SPURIOUS : Spurious memory access made at [chars] reading [hex]

Explanation	An attempted but illegal access to a low memory address within a software component in the router has been temporarily blocked.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show alignment command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the show alignment output, call your Cisco technical support representative and provide the representative with the gathered information.
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%ALIGN-3-SPURIOUS_SO : Spurious memory access made at [chars] reading [chars]

Explanation An attempted but illegal access to a low memory address within a software component in the router has been temporarily blocked.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show alignment** command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show alignment** output, call your Cisco technical support representative and provide the representative with the gathered information.

%ALIGN-3-TRACE : -Traceback= [chars]

Explanation A trace that shows where the previous ALIGN error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%ALIGN-3-TRACE_SO : -Traceback= [chars]

Explanation A trace that shows where the previous ALIGN error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

ALPS

%ALPS-3-ALPSFAIL : ALPS: Assertion failed: [chars]

Explanation An internal software error has occurred.

Recommended Action LOG_STD_ACTION

%ALPS-5-PEER_CONN_ID_CHANGE : Peer ([IP_address], [chars]) ID modified to ([IP_address], [chars]).

Explanation An ALPS peer connection identifier has changed.

Recommended Action LOG_STD_NO_ACTION

%ALPS-5-PEER_OPEN : Peer ([IP_address], [chars]) changed state to open.

Explanation An ALPS peer connection is now open.

Recommended Action LOG_STD_NO_ACTION

%ALPS-5-PEER_CLOSED : Peer ([IP_address], [chars]) changed state to closed.

Explanation An ALPS peer connection is now closed.**Recommended Action** LOG_STD_NO_ACTION

%ALPS-5-PEER_CLOSED_DYNAMIC_INACTIVITY : Peer ([IP_address], [chars]) closed due to inactivity.

Explanation An ALPS peer connection is now closed due to inactivity.**Recommended Action** LOG_STD_NO_ACTION

%ALPS-6-PEER_OPEN_FAIL : Peer ([IP_address], [chars]) open failed, rsn = [chars]

Explanation An ALPS peer connection attempted to open, but failed to open.**Recommended Action** LOG_STD_NO_ACTION

%ALPS-6-PEER_BUSY_START : Peer ([IP_address], [chars]) has entered a congested state.

Explanation An ALPS peer connection is experiencing congestion.**Recommended Action** LOG_STD_NO_ACTION

%ALPS-6-PEER_BUSY_END : Peer ([IP_address], [chars]) has exited a congested state.

Explanation An ALPS peer connection is no longer experiencing congestion.**Recommended Action** LOG_STD_NO_ACTION

%ALPS-7-PEER_DROPS_MAX_SIZE_EXCEEDED : Threshold exceeded for maximum size exceeded drops for peer ([IP_address], [chars]).

Explanation The number of ALPS peer drops due to maximum size exceeded exceeds the ALPS peer threshold value.**Recommended Action** LOG_STD_NO_ACTION

%ALPS-7-PEER_DROPS_VERSION_MISMATCH : Threshold exceeded for version mismatch peer drops for peer ([IP_address], [chars]).

Explanation The number of ALPS peer drops due to version mismatch exceeds the ALPS peer threshold value.

Recommended Action LOG_STD_NO_ACTION

%ALPS-7-PEER_DROPS_QUEUE_OVERFLOW : Threshold exceeded for TCP Queue overflow peer drops for peer ([IP_address], [chars]).

Explanation The number of ALPS peer drops due to queue overflow exceeds the ALPS peer threshold value.

Recommended Action LOG_STD_NO_ACTION

%ALPS-7-PEER_DROPS_PEER_UNREACHABLE : Threshold exceeded for peer unreachable peer drops for peer ([IP_address], [chars]).

Explanation The number of ALPS peer drops due to a peer unreachable condition exceeds the ALPS peer threshold value.

Recommended Action LOG_STD_NO_ACTION

%ALPS-5-CIRCUIT_OPEN : Circuit [chars] changed state to open.

Explanation An ALPS circuit has transitioned from closed to open.

Recommended Action LOG_STD_NO_ACTION

%ALPS-5-CIRCUIT_CLOSED : Circuit [chars] changed state to closed, rsn = [chars].

Explanation An ALPS circuit has transitioned from open to closed

Recommended Action LOG_STD_NO_ACTION

%ALPS-6-CIRCUIT_OPEN_FAILED : Circuit [chars] received a Circuit Open Failed message, rsn = [chars].

Explanation An ALPS circuit sent a Circuit Open Request message and received a Circuit Open Failed message as a reply.

%ALPS-6-CIRCUIT_OPEN_FAILED : Circuit [chars] received a Circuit Open Failed message, rsn = [chars].

Recommended Action LOG_STD_NO_ACTION

%ALPS-6-CIRCUIT_ASCU_REJECT : Circuit [chars] received a Circuit Open Confirm with a list of rejected ascus

Explanation An ALPS circuit sent a Circuit Open Request message and received a Circuit Open Confirm with a list of rejected ascus.

Recommended Action LOG_STD_NO_ACTION

%ALPS-6-CIRCUIT_UPDATE_FAILED : Circuit [chars] received a Circuit Open Failed message, rsn = [chars].

Explanation An ALPS circuit sent a Circuit Update message and received a Circuit Open Failed message as a reply.

Recommended Action LOG_STD_NO_ACTION

%ALPS-6-CIRCUIT_BUSY_START : Circuit [chars] has entered a congested state.

Explanation An ALPS circuit is experiencing congestion.

Recommended Action LOG_STD_NO_ACTION

%ALPS-7-CIRCUIT_BUSY_END : Circuit [chars] has exited a congested state.

Explanation An ALPS circuit is no longer experiencing congestion.

Recommended Action LOG_STD_NO_ACTION

%ALPS-7-CIRCUIT_DROPS_QUEUE_OVERFLOW : Threshold exceeded for queue overflow drops for circuit [chars]

Explanation The number of ALPS circuit drops due to queue overflow exceeds the ALPS circuit threshold value.

Recommended Action LOG_STD_NO_ACTION

%ALPS-7-CIRCUIT_DROPS_CKT_DISABLED : Threshold exceeded for circuit disabled drops for circuit [chars]

Explanation The number of ALPS circuit drops due to circuit disabled exceeds the ALPS circuit threshold value.

Recommended Action LOG_STD_NO_ACTION

%ALPS-7-CIRCUIT_DROPS_LIFETIME_EXPIRED : Threshold exceeded for lifetime timer expiration drops for circuit [chars]

Explanation The number of ALPS circuit drops due to lifetime timer expiration exceeds the ALPS circuit threshold value.

Recommended Action LOG_STD_NO_ACTION

%ALPS-7-CIRCUIT_DROPS_INVALID_ASCU : Threshold exceeded for invalid ASCU drops for circuit [chars]

Explanation The number of ALPS circuit drops due to invalid ASCU identifier exceeds the ALPS circuit threshold value.

Recommended Action LOG_STD_NO_ACTION

%ALPS-7-CIRCUIT_DROPS_VC_RESET : Threshold exceeded for X.25 VC Reset drops for circuit [chars]

Explanation The number of ALPS circuit drops due to X.25 VC Reset exceeds the ALPS circuit threshold value.

Recommended Action LOG_STD_NO_ACTION

%ALPS-6-CIRCUIT_X25_VC_STUCK : Host unresponsive on X.25 VC for circuit [chars]

Explanation The X.25 or EMTX host is not advancing the transmit window for extended periods of time. This may be indicative of a temporary problem with the host application. An X.25 Reset is sent to reset the transmit and receive windows to allow communication to proceed.

Recommended Action None

%ALPS-5-ASCU_UP : ASCU [hex] on interface [chars] is up.

Explanation An ALPS ASCU has transitioned from down to up.

%ALPS-5-ASCU_UP : ASCU [hex] on interface [chars] is up.

Recommended Action LOG_STD_NO_ACTION

%ALPS-5-ASCU_DOWN : ASCU [hex] on interface [chars] is down.

Explanation An ALPS ASCU has transitioned from up to down.
Recommended Action LOG_STD_NO_ACTION

%ALPS-3-ASCU_FSM_ERR : ASCU [hex] on interface [chars] has an internal FSM error.

Explanation Internal error.
Recommended Action Turn debug flags on, capture traces & contact Cisco technical support

%ALPS-3-ASCU_IF_STUCK : Polling for ASCU [hex] on interface [chars] is stalled.

Explanation The polling mechanism for an ALPS interface has become stuck.
Recommended Action LOG_STD_NO_ACTION

%ALPS-5-ASCU_DISABLED_ASCU_STUCK : ASCU [hex] on interface [chars] has been disabled since 4 consecutive messages were received from same SID.

Explanation An ALPS ASCU has been automatically disabled.
Recommended Action LOG_STD_NO_ACTION

AMT

%AMT-2-GATEWAY_INIT : Error initializing AMT Gateway

Explanation Insufficient memory is available to initialize Gateway
Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AMT-2-RELAY_INIT : Error initializing AMT Relay

Explanation	Insufficient memory is available to initialize Relay
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AMT-2-MSGTYPE_ERR : [chars] AMT message with invalid type [dec]

Explanation	AMT type is not 1-7
Recommended Action	No action is required.

%AMT-2-PROCESS_ERR : Error initializing AMT process

Explanation	Can't start the AMT process
Recommended Action	No action is required.

%AMT-2-ADD_GATEWAY : Error adding new Gateway

Explanation	Can't get memory for a new Gateway %s, port %d
Recommended Action	No action is required.

%AMT-2-RPT_WAVLINIT : Error initializing IGMP Unsolicited Report handler

Explanation	Insufficient memory is available to initialize the IGMP Unsolicited Report handler.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

AN

%AN-4-DEVICE_NOT_IN_WHITELIST : Device with UDI ([chars]) connected to Proxy (Addr [chars]) on interface [chars] is not in whitelist and will not be allowed by autonomic registrar in its domain [chars]

Explanation The autonomic network registration authority will not allow this device to join as it is not in whitelist

Recommended Action No action is required.

%AN-4-DEVICE_ALREADY_REGISTERED_BY_ANR : Device with UDI ([chars]) connected to Proxy (Addr [chars]) on interface [chars] is already registered by autonomic registrar in its domain [chars] with a different public key

Explanation The autonomic network registration authority will not allow this device to join as it already registered with a different public key

Recommended Action No action is required.

%AN-6-DEVICE_ALLOWED_BY_ANR : Device with udi [chars] is allowed by autonomic registrar in its Domain ID [chars] with addr [chars] and Device ID [chars]

Explanation The autonomic network registration authority has authorised this device to enter its network

Recommended Action No action is required.

%AN-6-DEVICE_ENROLLED : Device with UDI ([chars]) connected to Proxy (Addr [chars]) on the interface [chars] is allowed by Autonomic registrar (Addr [chars]) in its domain [chars] and has been assigned IP Addr ([chars]) and Device ID ([chars])

Explanation The autonomic network registration authority has enrolled this device

Recommended Action No action is required.

%AN-5-DEVICE_BOOTSTRAPPED_BY_ANR : Device with UDI ([chars]) and (Addr [chars]) has been bootstrapped by autonomic registrar, in autonomic domain [chars]

Explanation The autonomic network registration authority has bootstrapped this device

Recommended Action No action is required.

%AN-5-ANR_UP : A New Autonomic Registrar has been configured in domain ([chars]) and it has been assigned IP Addr ([chars]) and Device ID as ([chars])

Explanation The autonomic network registration authority has been configured and is locally up

Recommended Action No action is required.

%AN-5-ANR_DOWN : Disabled autonomic registrar with Addr ([chars])

Explanation The autonomic network registration authority functionality is disabled

Recommended Action No action is required.

%AN-4-MASA_AUTH_FAIL : Device with udi [chars] is not authorized by MASA

Explanation The MASA - manufacturer authorised signing authority has not authorised this device in its network

Recommended Action No action is required.

%AN-4-MASA_AUDIT_LOG_FAIL : Device with udi [chars] is not in the audit log of MASA

Explanation The manufacturer authorised signing authority audit log doesn't contain this device in its database

Recommended Action No action is required.

%AN-6-MASA_NOT_CONFIG : Autonomic registrar with udi [chars] has no reachability to MASA -not configured, Cant verify device udi [chars]

Explanation The manufacturer authorised signing authority has not been configured, cannot do the verification of device

Recommended Action No action is required.

%AN-6-ANR_WHITELIST_CONFIG : Autonomic registrar with (Addr [chars]) Domain id [chars] has whitelist-will allow only these devices in autonomic network

Explanation The autonomic registration authority has been configured with white list and will allow only these devices to enter its network

%AN-6-ANR_WHITELIST_CONFIG : Autonomic registrar with (Addr [chars]) Domain id [chars] has whitelist- will allow only these devices in autonomic network

Recommended Action No action is required.

%AN-6-ANR_WHITELIST_NOT_CONFIG : Autonomic registrar with (Addr [chars]) has no whitelist- will allow all devices

Explanation The autonomic registration authority has not been configured with white list and will allow all devices to enter its network

Recommended Action No action is required.

%AN-3-ANR_WHITELIST_FILE_ERROR : Autonomic Registrar with (Addr [chars]) encountered error in reading from whitelist file [chars]

Explanation The autonomic registration authority encountered file error when reading from whitelist file, check the file name and its contents

Recommended Action No action is required.

%AN-3-IDP_INTENT_FILE_ERROR : Device (Addr [chars]) encountered error ([chars]) when reading from intent file

Explanation The Intent Distribution Protocol Module, encountered file error when reading from intent file, check the file name and its contents

Recommended Action No action is required.

%AN-5-IDP_INTENT_VER_UPDATED : Device (Addr [chars]) updated to a new Intent version [dec]

Explanation The device received a new intent file by Intent Distribution Protocol

Recommended Action No action is required.

%AN-5-IDP_INTENT_VER_OLD_DISCARD : Device (Addr [chars]) discarded the older intent version [dec]

Explanation The device received an old intent file by Intent Distribution Protocol and is discarding it

Recommended Action No action is required.

%AN-5-SERVICE_LEARNT : Device with (Addr [chars]) learnt Autonomic service with Service Type ([dec]) Service IP Addr ([chars])

Explanation The device received a new autonomic service by Service Discovery Protocol

Recommended Action No action is required.

%AN-6-UDI_AVAILABLE : UDI - [chars]

Explanation Unique device identification number is available on the device

Recommended Action No action is required.

%AN-6-AN_ABORTED_BY_CONSOLE_INPUT : Autonomic disabled due to User intervention on console. configure 'autonomic' to enable it.

Explanation User entered into configuration mode So AN is disabled, An process is stopped

Recommended Action No action is required.

%AN-6-AN_ABORTED_BY_NO_AUTONOMIC : Autonomic disabled due to 'no autonomic' command.

Explanation 'No autonomic' command is entered So AN is disabled, An process is stopped

Recommended Action No action is required.

%AN-6-AN_ABORTED_BY_MANUAL_CONFIG_DETECTED : Autonomic disabled due to detection of new configuration.

Explanation Some other process configures something. So AN is disabled, An process is stopped

Recommended Action No action is required.

%AN-6-CONFIG_SAVE : Issuing 'write memory' to save config

Explanation Saving configurations to startup-config by AN process

Recommended Action No action is required.

%AN-6-SUDI_AVAILABLE : secure UDI - [chars]

Explanation	Secure unique device identification number is available on the device
Recommended Action	No action is required.

%AN-5-NBR_IN_DOMAIN : Neighbor with (Addr [chars]) connected via interface [chars] to device (Addr [chars]) is brought inside my domain [chars]

Explanation	The device has been admitted into the autonomic domain
Recommended Action	No action is required.

%AN-5-NBR_OUT_DOMAIN : Neighbor with (Addr [chars]) connected via interface [chars] to device (Addr [chars]) is now outside the autonomic domain

Explanation	The device is removed from the autonomic domain ,it can happen if the domain certificate is NULL or if the domain certificate is invalid
Recommended Action	No action is required.

%AN-5-NBR_ADDED : Device with UDI ([chars]) is added as a Neighbor to Device with (Addr [chars]) on the interface [chars]

Explanation	A hello message is received and the device is added in the neighbor table
Recommended Action	No action is required.

%AN-5-NBR_LOST : Device with ACP (Addr [chars]) lost connectivity to its Neighbor (Addr [chars]) on interface [chars]

Explanation	Lost connectivity to the neighboring device & it is no longer part of autonomic domain
Recommended Action	No action is required.

%AN-6-NBR_DOMAIN_CERT_VALID : Domain certificate of Neighbor with (Addr [chars]) connected on interface [chars] is valid

Explanation	The domain certificate of the neighbor device is validated successfully
Recommended Action	No action is required.

%AN-3-NBR_DOMAIN_CERT_INVALID : Domain certificate of Neighbor with (Addr [chars]) connected on interface [chars] is invalid

Explanation The domain certificate of the neighbor device is invalid

Recommended No action is required.

Action

%AN-3-NBR_DOMAIN_CERT_REVOKED : Domain certificate of Neighbor with (Addr [chars]) connected on interface [chars] is revoked

Explanation The domain certificate of the neighbor device has been revoked

Recommended No action is required.

Action

%AN-3-NBR_DOMAIN_CERT_EXPIRED : Domain certificate of Neighbor with (Addr [chars]) connected on interface [chars] has expired

Explanation The domain certificate of the neighbor device has expired

Recommended No action is required.

Action

%AN-6-MY_DOMAIN_CERT_RENEWED : Domain certificate of device (Addr [chars]) has been renewed

Explanation The domain certificate of this device is renewed

Recommended No action is required.

Action

%AN-6-MY_DOMAIN_CERT_EXPIRED : Domain certificate of this device (Addr [chars]) has expired

Explanation The domain certificate of this device has expired

Recommended No action is required.

Action

%AN-3-DOMAIN_KEY_GEN_FAIL : The bootstrapping device with key label ([chars]) failed to generate key pair for enrollment at Autonomic registrar

Explanation The key pair generation failed at the device for triggering BS request message to Autonomic registrar. Can be due to failure in RSA key pair generation in the crypto library

%AN-3-DOMAIN_KEY_GEN_FAIL : The bootstrapping device with key label ([chars]) failed to generate key pair for enrollment at Autonomic registrar

Recommended Action No action is required.

%AN-4-ANR_SIGN_VERIFY_FAIL : Device UDI ([chars]) signature verification of Autonomic registrar by new device has failed due to error ([chars])

Explanation The new device joining the network verified the signature of autonomic registrar as a part of mutual authentication and the verification failed

Recommended Action No action is required.

%AN-4-MASA_AUTH_TOKEN_PARSE_ERROR : Error while parsing authentication token from MASA server for device udi-[chars]

Explanation Encountered error while parsing the authentication token response string from MASA server

Recommended Action No action is required.

%AN-3-TLV_PARSE_ALIGN_ERROR : TLV parsed Len [dec], Next TLV could be misaligned

Explanation Parsed TLV message is not a multiple of 4 and the next TLV message can be misaligned

Recommended Action No action is required.

%AN-3-TLV_PARSE_LEN_INCORRECT : TLV parsed len [dec] > original message length [dec]

Explanation Parsed TLV message length is greater than original message length

Recommended Action No action is required.

%AN-3-MSG_INVALID_HEADER : Invalid message header type [dec] received

Explanation The message packet header got corrupted and invalid header received

Recommended Action No action is required.

%AN-6-ACP_ROUTING_GLOBAL_ENABLED : Enabled global OSPFv3 pid [dec],rid [IP_address],area [dec]

Explanation OSPF routing has been enabled globally

Recommended Action No action is required.

%AN-6-ACP_ROUTING_INTERFACE_ENABLED : OSPF routing enabled on interface: [chars], (pid [dec],rid [IP_address], area [dec])

Explanation OSPF routing has been enabled on all physical interface

Recommended Action No action is required.

%AN-6-ACP_ROUTING_GLOBAL_DISABLE : Removed OSPFv3 routing globally, pid [dec]

Explanation OSPF routing has been disabled globally

Recommended Action No action is required.

%AN-6-ACP_VRF_GLOBAL_CREATE_SUCCESS : Device UDI ([chars]) Autonomic VRF created globally vrf name [chars], vrf id [dec]

Explanation Autonomic network VRF has been created globally

Recommended Action No action is required.

%AN-3-ACP_VRF_GLOBAL_CREATE_FAIL : Device UDI ([chars]) failed to create Autonomic VRF globally, vrf name [chars], vrf id [dec]

Explanation Autonomic network VRF has not been created globally

Recommended Action No action is required.

%AN-6-ACP_VRF_GLOBAL_REMOVE : Device UDI ([chars]) Autonomic VRF removed globally vrf name [chars], vrf id [dec]

Explanation Autonomic network VRF has been removed globally

Recommended Action No action is required.

%AN-6-ACP_VRF_INTERFACE_CREATE_SUCCESS : Device UDI ([chars]) Autonomic VRF created successfully on interface [chars], vrf name [chars], vrf id [dec]

Explanation Autonomic network VRF has been created on the interface

Recommended No action is required.

Action

%AN-3-ACP_VRF_INTERFACE_CREATE_FAIL : Device UDI ([chars]) failed to create Autonomic VRF on interface [chars], vrf name [chars], vrf id [dec]

Explanation Autonomic network VRF has not been created on the interface

Recommended No action is required.

Action

%AN-6-ACP_CHANNEL_TO_NBR_CREATED : Established ACP [chars] from Device (Addr [chars]) to Neighbor (Addr [chars]) connected on interface [chars]

Explanation Autonomic Network Control plane Channel has been created to the neighbor

Recommended No action is required.

Action

%AN-3-ACP_CHANNEL_TO_NBR_FAILED : Failed to create ACP [chars] from Device (Addr [chars]) to Neighbor (Addr [chars]) connected on interface [chars]

Explanation Autonomic Network Control Plane Channel has not been created to the neighbor

Recommended No action is required.

Action

%AN-6-ACP_CHANNEL_TO_NBR_REMOVED : Removed ACP [chars] from Device (Addr [chars]) to Neighbor (Addr [chars]) connected on interface [chars]

Explanation Autonomic Network Control Plane Channel to neighbor is removed

Recommended No action is required.

Action

%AN-6-ACP_IPSEC_TO_NBR_CREATED : Established IPSEC on ACP from Device (Addr [chars]) to Neighbor (Addr [chars]) connected on interface [chars]

Explanation Autonomic Network Control plane - IPSEC tunnel established to neighbor

Recommended No action is required.

Action

%AN-3-ACP_IPSEC_TO_NBR_FAILED : Failed to create IPSEC on ACP from device (Addr [chars]) to Neighbor (Addr [chars]) on interface [chars]

Explanation Autonomic Network Control plane - Failed to create IPSEC tunnel to neighbor

Recommended Action No action is required.

%AN-6-ACP_IPSEC_TO_NBR_REMOVED : Removed IPSEC on ACP from Device (Addr [chars]) to Neighbor (Addr [chars]) connected on interface [chars]

Explanation Autonomic Network Control plane - IPSEC tunnel to neighbor is removed

Recommended Action No action is required.

%AN-6-ACP_DIKE_TO_NBR_CREATED : Established DIKE on ACP [chars] from Device (Addr [chars]) to Neighbor (Addr [chars]) connected on interface [chars]

Explanation Autonomic Network Control plane - DIKE tunnel established to neighbor

Recommended Action No action is required.

%AN-3-ACP_DIKE_TO_NBR_FAILED : Failed to create DIKE on ACP [chars] from Device (Addr [chars]) to Neighbor (Addr [chars]) connected on interface [chars]

Explanation Autonomic Network Control plane - Failed to create DIKE tunnel to neighbor

Recommended Action No action is required.

%AN-6-ACP_DIKE_TO_NBR_REMOVED : Removed DIKE on ACP [chars] from Device (Addr [chars]) to Neighbor (Addr [chars]) connected on interface [chars]

Explanation Autonomic Network Control plane - DIKE tunnel to neighbor is removed

Recommended Action No action is required.

%AN-6-CONFIG_DOWNLOAD_SUCCESS : Config download at the Device (Addr [chars]) is Successful

Explanation Download of the config file to the Running config is Successful

Recommended Action No action is required.

%AN-6-CONFIG_DOWNLOAD_FAILED : Config download on the Device (Addr [chars]) has FAILED

Explanation Failed to download the config file to the Running config

Recommended Action No action is required.

%AN-6-CONFIG_DOWNLOAD_STARTED : Config download started on the Device (Addr [chars])

Explanation Config download is triggered

Recommended Action No action is required.

%AN-5-CD_STATE_CHANGED : [chars] Channel ([dec]) [chars] - Our Intf ([chars]), Nbr UDI ([chars]), Nbr Intf ([chars])

Explanation CD L2 or Reuse Channel Created/Removed/Expired

Recommended Action No action is required.

ANALOG_SM**%ANALOG_SM-6-STAGGER_RINGING : INFO only: REN resources have been exhausted. Unable to ring FXS voice port on slot [dec]. Stagger ringing algorithm has been triggered to compensate.**

Explanation Too many FXS voice ports are being rung at the same time on this module. Stagger ringing is triggered to prevent overload the HW module

Recommended Action Make sure ren configuration of all analog FXS voice ports on this module is correctly configured and matching up the actually required REN LOG_STD_RECUR_ACTION

APM**%APM-3-INIT : [chars]**

Explanation Easy Perf Mon Initialization failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%APM-3-LIST : [chars] [chars]

Explanation	List operation error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%APM-3-MEM : Memory [chars] failed - [chars]

Explanation	Memory operation failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

APMGR_TRACE_MESSAGE through AT

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APMGR_TRACE_MESSAGE

%APMGR_TRACE_MESSAGE-3-EWLC_EXEC_MSG : Error in [chars]AP Join/Disjoin Error: [chars]Error in [chars]%% Error: [chars]

Explanation	General Wireless LAN Controller Error Message.AP Join/Disjoin Wireless LAN Controller Error Message.AP packet capture Error Message.Improper arguments or config
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%APMGR_TRACE_MESSAGE-3-EWLC_EXEC_MSG : Error in [chars]AP Join/Disjoin Error: [chars]Error in [chars]%% Error: [chars]

Recommended Action Arguments to be changed

%APMGR_TRACE_MESSAGE-3-EWLC_AP_LOG_MSG : AP Remote Log: [chars]

Explanation AP Remote logging

Recommended Action No action required

%APMGR_TRACE_MESSAGE-3-EWLC_WLAN_ETA_MSG : et-analytics config validation Error: [chars]

Explanation Global and Wireless et-analytics config dependency error

Recommended Action No action required

%APMGR_TRACE_MESSAGE-3-EWLC_WLAN_MPSK_PSK_MSG : MPSK config validation Error: [chars]

Explanation MPSK and PSK dependency error

Recommended Action No action required

%APMGR_TRACE_MESSAGE-3-EWLC_WLAN_MPSK_MSG : MPSK config validation Error: [chars]

Explanation MPSK and Central auth dependency error

Recommended Action No action required

%APMGR_TRACE_MESSAGE-3-EWLC_RRM_QUERY_ERR : Warning, [chars]Error in [chars]Error in [chars]

Explanation General Wireless LAN Controller warning messageGeneral Wireless LAN Controller Error Message.Trying to query information related to AP with invalid slot ID.

Recommended Action Please report the error to technical support representative.

%APMGR_TRACE_MESSAGE-3-EWLC_APMGR_UNSUPPORTED_COUNTRY : AP: [chars] reported channel 0 on slot [dec]Regulatory domain error while setting country code for AP MAC:[chars], country code [chars] is not configured on WLC

Explanation AP has reported Channel 0 on one of the radio slots. This generally happens when the configurations on the AP are set to factory default. WLC recovers this by rebooting the AP. Unless the message repeatedly appears, it does not require any action. Specified country code is not present in the configured country code list

Recommended Action Validate the country code configuration on the Controller and add the country code to the configured country code list if it is not already present. Please refer to the configuration guide to configure country code. If you still require contact your Cisco technical support representative and provide the information you have gathered.

%APMGR_TRACE_MESSAGE-3-EWLC_APMGR_AP_REG_DOMAIN_MISMATCH : Error: Cannot set country code [chars] for AP MAC:[chars],Regulatory domain check failed

Explanation Regulatory domain of all radio slots of the AP does not match with the country code

Recommended Action In most cases, the problem can be corrected by checking regulatory domain supported by Access Point (AP). Radios within APs are assigned to a specific regulatory domain as a part of factory setting. Configuring a country code ensures that each radio's broadcast frequency bands, channels and transmit power levels are compliant with country-specific regulations. Please ensure that user configured country code is compliant with country code setting in AP.

%APMGR_TRACE_MESSAGE-5-EWLC_AP_PUBLIC_CLOUD_ERR : Unsupported AP mode. [chars]

Explanation Public cloud WLCs do not support Local Mode in AP. This error will be logged whenever an AP tries to join in Local Mode in a Public Cloud WLC.

Recommended Action Fix the configuration to allow AP to join in Flexconnect Mode.

%APMGR_TRACE_MESSAGE-3-EWLC_APMGR_ANTENNA_SET_ERROR : Antenna set error: [chars]

Explanation Antenna id enable/disable operation has resulted in error. please follow error message for details

Recommended Action Please follow error message string and take corrective action

APPFW

%APPFW-4-HTTP_STRICT_PROTOCOL : Sig:[dec] HTTP protocol violation detected - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the strict-http application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_CONT_LENGTH : content-length

Explanation The HTTP message has been detected to violate the content-length application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_CONT_TYPE_VERIFY : Sig:[dec] Content type does not match the specified type - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the content-type-verification application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_MATCH_REQ_RESP : Sig:[dec] Content type: [chars] does not match the Accept-Type from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the content-type-verification application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_CONT_TYPE_MATCH : Sig:[dec] Content type not found - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the content-type-verification application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_CONT_TYPE_SIZE : Sig:[dec] Content size [int] out of range - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the content-type-verification application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_MAX_HDR_LEN : Sig:[dec] HTTP Header length exceeded. Received [int] byte of header - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the max-hdr-len application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_MAX_URI_LEN : Sig:[dec] HTTP URI length exceeded. Received [int] byte of URL - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the max-uri-len application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_REQ_METHOD_RFC : Sig:[dec] HTTP RFC method illegal - [chars] '[chars]' from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the request-method application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_REQ_METHOD_EXT : Sig:[dec] HTTP Extension method illegal - [chars] '[chars]' from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the request-method application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_PORT_MISUSE_IM : Sig:[dec] HTTP Instant Messenger detected - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the port misuse application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_PORT_MISUSE_P2P : Sig:[dec] HTTP Peer-to-Peer detected - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the port misuse application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_PORT_MISUSE_TUNNEL : Sig:[dec] HTTP Tunnel detected - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the port misuse application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_TRANSFER_ENCODE : Sig:[dec] HTTP Transfer encoding violation detected - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the transfer encoding application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-4-HTTP_DEOBFUSCATE : Sig:[dec] Deobfuscation signature detected - [chars] [chars] from [IP_address]:[dec] to [IP_address]:[dec]

Explanation The HTTP message has been detected to violate the deobfuscate application firewall inspection rule.

Recommended Action This message is for informational purposed only, but may indicate a security problem.

%APPFW-3-HTTP_MAX_REQ_EXCEED : Maximum of [dec] unanswered HTTP requests exceeded from [IP_address]:[dec] to [IP_address]:[dec]

Explanation	The HTTP message has been detected to violate the transfer encoding application firewall inspection rule.
Recommended Action	This message is for informational purposed only, but may indicate a security problem.

%APPFW-6-HTTP_SESSION_AUDIT_TRAIL : HTTP session initiator [IP_address]:[dec] sends [dec] bytes - responder [IP_address]:[dec] sends [dec] bytes

Explanation	The HTTP message has been detected to violate the transfer encoding application firewall inspection rule.
Recommended Action	This message is for informational purposed only, but may indicate a security problem.

%APPFW-3-HTTP_APPFW_CONF_ERROR : Application Firewall configuration error -- [chars]

Explanation	An error has occurred during Application Firewall configuration.
Recommended Action	This message indicates an error during firewall configuration and may be a potential security problem.

%APPFW-6-IM_YAHOO_SESSION : im-yahoo [chars] service session initiator [IP_address]:[dec] [chars] [dec] bytes [chars] responder [IP_address]:[dec]

Explanation	The YMSGGR well known service message has been detected.
Recommended Action	This message is for informational purposed only.

%APPFW-6-IM_YAHOO_P2P_CHAT : im-yahoo text-chat service session: [IP_address]:[dec] establishing a direct chat with [dec].[dec].[dec].[dec]

Explanation	A specific service yyyy has been detected to establish a direct connection with another peer in a Yahoo! Instant Messenger application and the application firewall inspection policy has been configured to send an alarm for this event. Typical services are ñ text-chat, voice-chat, file-transfer etc.
Recommended Action	This message is for informational purposed only.

%APPFW-6-IM_AOL_SESSION : im-aol [chars] service session initiator [IP_address]:[dec] [chars] [dec] bytes [chars] responder [IP_address]:[dec]

Explanation The AIM well known service message has been detected.

Recommended Action This message is for informational purposed only.

%APPFW-6-IM_MSN_SESSION : im-msn [chars] service session initiator [IP_address]:[dec] [chars] [dec] bytes [chars] responder [IP_address]:[dec]

Explanation The MSNMSGGR well known service message has been detected.

Recommended Action This message is for informational purposed only.

%APPFW-6-IM_YAHOO_CLIENT_VERSION : im-yahoo [IP_address]:[dec] attempting to establish connection with yahoo server [IP_address]:[dec] using an unsupported version of the client

Explanation The YAHOO client version is not supported

Recommended Action This message is for informational purposed only.

%APPFW-6-IM_MSN_CLIENT_VERSION : im-msn [IP_address]:[dec] attempting to establish connection with msn server [IP_address]:[dec] using an unsupported version of the client

Explanation The MSN client version is not supported

Recommended Action This message is for informational purposed only.

%APPFW-6-IM_AOL_CLIENT_VERSION : im-aol [IP_address]:[dec] attempting to establish connection with aol server [IP_address]:[dec] using an unsupported version of the client

Explanation The AOL client version is not supported

Recommended Action This message is for informational purposed only.

APPNAV_CLIENT

%APPNAV_CLIENT-3-CFT_INIT_FAILED : AppNav failed initialize flow table - [int].

Explanation Flow table is a critical component of AppNav. The failure is likely due to lack of memory (DRAM) on the ESP. The previous configuration needs to be removed and re-applied.

%APPNAV_CLIENT-3-CFT_INIT_FAILED : AppNav failed initialize flow table - [int].

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

APPNAV_CONTROLLER

%APPNAV_CONTROLLER-2-SC_SN_UNREACHABLE : APPNAV-CONTROLLER: Alarm #29007, Severity: Major. SN: [chars] is unreachable

Explanation Service context has entered Operational state and there is at least one configured node that is not part of the SN view.

Recommended Action Check status of configured SNs.

%APPNAV_CONTROLLER-4-SC_SN_REACHABLE : APPNAV-CONTROLLER: Alarm #29007 cleared. SN: [chars] is reachable

Explanation Service Node is available

Recommended Action None. All is well

%APPNAV_CONTROLLER-5-SC_MIXED_FARM : APPNAV-CONTROLLER: Alarm #29003, Severity: Minor

Explanation When an appnav controller detects upon that there are other appnav-controllers/SNs in the cluster with different ICIMP/DMP minor version number.

Recommended Action Check versions of SNs in network.

%APPNAV_CONTROLLER-5-SC_MIXED_FARM_CLEAR : APPNAV-CONTROLLER: Alarm #29003 cleared

Explanation There are no appnav-controllers/SNs with different ICIMP/DMP minor version number

Recommended Action None. All is well

%APPNAV_CONTROLLER-2-SNG_UNAVAILABLE : APPNAV-CONTROLLER: Alarm #30001, Severity: Major. SNG: [chars] unavailable

Explanation No SN in appnav node group is available for optimization.

Recommended Action Check status of configured nodes.

%APPNAV_CONTROLLER-4-SNG_AVAILABLE : APPNAV-CONTROLLER: Alarm #30001 Cleared, SNG: [chars] available

Explanation SN's in appnav node group is available for optimization.

Recommended Action None. All is well

%APPNAV_CONTROLLER-2-SNG_AO_UNAVAILABLE : APPNAV-CONTROLLER: Alarm #30000,Severity: Major. In SNG: [chars] AO: [dec] is unavailable

Explanation No node in service node group is available for optimization and traffic is getting optimized by a secondary SNG.

Recommended Action Check status of configured SNs.

%APPNAV_CONTROLLER-4-SNG_AO_AVAILABLE : APPNAV-CONTROLLER: Alarm #30000 cleared. In SNG: [chars] AO: [dec] is available

Explanation Service node group is available for optimization

Recommended Action None. All is well

%APPNAV_CONTROLLER-2-SC_CONVERGENCE_FAILED : APPNAV-CONTROLLER: Alarm #29001, Severity: Major

Explanation CMM is not coming out of convergence state

Recommended Action Check connectivity between SN's and AC's

%APPNAV_CONTROLLER-4-SC_CONVERGENCE_SUCCESS : APPNAV-CONTROLLER: Alarm #29001 cleared

Explanation CMM convergence completed

Recommended Action None. All is well

%APPNAV_CONTROLLER-2-SC_DEGRADED_CLUSTER : APPNAV-CONTROLLER: Alarm #29002, Severity: Critical. AC: [chars] is Degraded

Explanation Mismatch of stable AC views between AC's

%APPNAV_CONTROLLER-2-SC_DEGRADED_CLUSTER : APPNAV-CONTROLLER: Alarm #29002, Severity: Critical. AC: [chars] is Degraded

Recommended Action Check connectivity between AC's

%APPNAV_CONTROLLER-4-SC_CLUSTER_STABLE : APPNAV-CONTROLLER: Alarm #29002 cleared. AC: [chars] is Stable

Explanation Mismatch of stable AC views between AC's

Recommended Action None. All is well

%APPNAV_CONTROLLER-2-SC_SC_UNREACHABLE : APPNAV-CONTROLLER: Alarm #29006, Severity: Major. AC: [chars] unreachable

Explanation Connectivity with AC's under ACG is lost

Recommended Action Make sure AC's configured under ACG are up and reachable

%APPNAV_CONTROLLER-4-SC_SC_REACHABLE : APPNAV-CONTROLLER: Alarm #29006 cleared. AC: [chars] reachable

Explanation Connectivity with AC's under ACG is regained

Recommended Action None. All is well

%APPNAV_CONTROLLER-2-SC_SN_EXCLUDED : APPNAV-CONTROLLER: Alarm #29008, Severity: Major. SN: [chars] excluded

Explanation Stable SN views across AC's are different. Those SN's that are not reachable by other AC's are excluded

Recommended Action Make sure excluded SN's are reachable from all AC's

%APPNAV_CONTROLLER-4-SC_SN_INCLUDED : APPNAV-CONTROLLER: Alarm #29008 cleared. SN: [chars] included

Explanation SN is reachable again

Recommended Action None. All is well

**%APPNAV_CONTROLLER-2-ACG_IP_CHANGED : APPNAV-CONTROLLER: Alarm #10000, Severity: Major
Appnav controller group IP address changed! All relevant service contexts will be disabled**

Explanation Appnav controller group IP address changed! All relevant service contexts will be disabled

Recommended Action Change AppNav Controller's IP

%APPNAV_CONTROLLER-6-CM_REGISTER_SUCCESS : AppNav registered with Central Manager successfully

Explanation Received a registration success message from the Central Manager

Recommended Action None. All is well

%APPNAV_CONTROLLER-3-CM_REGISTER_FAILED : AppNav registration with Central Manager failed for the following reason: [chars]

Explanation Received a registration failure message from the AppNav Central Manager. AppNav has not registered with the Central Manager

Recommended Action Issue the **debug waas management errors** command, and the **debug waas management events** , Contact your Cisco technical support representative , and provide the representative with the gathered information.

**%APPNAV_CONTROLLER-4-SERVICE_CTX_DISABLE : SERVICE-CONTROLLER: Alarm 10001, Severity: Major
Disabling service context [chars]**

Explanation Disabling service context

Recommended Action

ARAP

%ARAP-5-PAKINVALID : TTY [dec]: ARAP invalid packet received

Explanation A corrupted packet reached the ARA protocol code.

Recommended Action Check for excessive CPU usage or excessive line noise.

%ARAP-6-ADDRUSED : TTY [dec]: ARAP started for user [chars]; address [dec].[dec]

Explanation This message appears only when ARA protocol logging is configured. The message notes that an ARA protocol user has logged in.

Recommended Action No action is required.

%ARAP-6-ADDRFREE : TTY [dec]: ARAP ended for user [chars]; address %A; [dec] seconds connected

Explanation This message appears only when ARA protocol logging is configured. The message notes that an ARA protocol user has logged out.

Recommended Action No action is required.

%ARAP-5-INITCONFUSED : TTY [dec]: ARAP unexpected initialization packet [chars]

Explanation The startup negotiation between a client and the ARA protocol server fell out of order. If this message is received sporadically, it indicates line noise.

Recommended Action If this message recurs, reinstall the ARA client software.

%ARAP-4-CONFAILED : TTY [dec]: ARAP connection failed: [chars]

Explanation The ARA protocol client was denied access, probably due to a configuration problem on the server. The error message should indicate the problem. This message does not indicate access denials due to bad passwords.

Recommended Action Investigate the problem reported in the error message.

%ARAP-3-BADCONFIG : TTY [dec]: unhandled configuration command

Explanation A configuration command was not recognized.

Recommended Action Check the configuration file on the server for any invalid configuration commands.

%ARAP-3-BADPAK : TTY [dec]: Bad packet type in arap_send_msg

Explanation Internal data structures are corrupted.

Recommended Action Check for abnormally high CPU usage.

%ARAP-6-BADEXIT : TTY [dec]: exited user [chars]: [chars]

Explanation A user was disconnected from ARA protocol at an unexpected time. The disconnection may be due to modems dropping, server error, client problems, or any number of other difficulties.

Recommended Action To determine the cause of the disconnection, correlate the receipt of this message with the user problem reports.

%ARAP-6-XTICKLE : TTY [dec]: exited user [chars]: Other side stopped answering ARAP tickles (mnp4 pak resent [dec] mnp4 pak sent [dec] last [dec] now [dec])

Explanation The router disconnected as the remote Macintosh client stopped sending ARAP tickle or data packets.

Recommended Action To determine the cause of the disconnection, correlate the receipt of this message with the user problem reports.

%ARAP-6-MAXRESENDS : TTY [dec]

Explanation The router resent MNP4 packets maximum number of times without receiving an acknowledgement.

Recommended Action To determine the cause of the disconnection, correlate the receipt of this message with the user problem reports.

%ARAP-0-NULLRESEND : TTY [dec]

Explanation An internal software error occurred.

Recommended Action Report this error to you technical support representative.

%ARAP-0-NOTNULLRESEND : TTY [dec]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARAP-6-LRPHASERROR : TTY [dec]: Received LT in CONNECTION PHASE

Explanation	The router received an invalid packet during ARA connection setup phase.
Recommended Action	Check for excessive line noise. Check the ARAP client software configuration for possible problems.

%ARAP-6-RCVNOPAK : TTY [dec]: Receive getbuffer failure. dropping frame

Explanation	No buffer exists for an incoming packet.
Recommended Action	Examine buffer usage statistics. Possibly more memory is required.

%ARAP-6-RCVGIANT : TTY [dec]: Rcv giant. dropping frame

Explanation	The router received an oversized MNP4 frame.
Recommended Action	Check for excessive line noise. Check the ARAP client software configuration for possible problems.

%ARAP-0-DEFAULT : TTY [dec]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARAP-0-WAITBADMSG : TTY [dec]: arg msg bad [hex]

Explanation	The router received an invalid packet during ARAP MNP4 connection setup phase.
Recommended Action	Check for excessive line noise. Check the ARAP client software configuration for possible problems.

%ARAP-0-VSERROR : TTY [dec]: VS queued error

Explanation	An internal software error occurred.
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%ARAP-0-VSERROR : TTY [dec]: VS queued error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARAP-6-MNP4T401 : TTY [dec]: T401 [dec] baud rate [dec]

Explanation This message indicates that the router received MNP4 connection request. MNP4 acknowledgement timer value is also indicated.

Recommended Action No action is required.

%ARAP-6-RESENDSLOW : TTY [dec]

Explanation The router repeated resending of MNP4 packets as the Macintosh client failed to acknowledge previously resent packets.

Recommended Action If this error message persists for several ARAP connections report it to your technical support representative.

%ARAP-2-NOLOG : TTY [dec]: Could not malloc log

Explanation Memory not available for internal MNP4 logging.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARAP-6-MNP4RCVDISC : TTY [dec]: MNP4 input disconnect

Explanation This indicates that the router received disconnect request from the remote Macintosh client.

Recommended Action No action is required.

%ARAP-3-REMOTERROR : TTY [dec]: arap input error

Explanation	ARAP connection was terminated without a known cause.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARAP-6-TIMERERROR : TTY [dec]: MNP4 timeout error

Explanation	The router is dropping the connection after doing maximum resends.
Recommended Action	To determine the cause of the disconnection, correlate the receipt of this message with the user problem reports.

%ARAP-4-NOEXTTACACS : TTY [dec]: arap TACACS is configured but extended TACACS is not.

Explanation	Terminal Access Controller Access Control System (TACACS) authentication failed because extended TACACS is not configured.
Recommended Action	Configure extended TACACS.

%ARAP-3-ABORTED : TTY [dec]: arap callback aborted

Explanation	An unexpected message was received during the Microcom Networking Protocol version 4 (MNP4) link setup.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARAP-3-TIMEOUT : TTY [dec]: arap expected message timeout

Explanation	The software timed out during the MNP4 link setup.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) or contact your Cisco technical support representative and provide the representative with the gathered information.

ARCHIVE_CONFIG

%ARCHIVE_CONFIG-4-ARCHIVE_SKIPPED : Archive of router configuration was skipped due to a previous initiation.

Explanation	Only one archive can be created at a time. Two or more simultaneous archives in progress is not allowed. This could occur for example if two users attempt to create an archive simultaneously.
Recommended Action	Retry the archive creation later, when the previous archive has finished being written.

%ARCHIVE_CONFIG-4-ARCHIVE_DELETE_FAILED : Delete of a previously saved archive of the router configuration could not be completed.

Explanation	The router could not delete a file that was previously written. The file that was being deleted file contains an archive of the router configuration. This could occur for example if the file was manually deleted.
Recommended Action	None

%ARCHIVE_CONFIG-6-ARCHIVE_CREATE_FAILED_STANDBY : Could not create an archive of the router configuration on the standby RP.

Explanation	The router could not create an archive file on the standby RP. The file that was being created contains an archive of the router configuration. This could occur for example if the active RP cannot communicate with the standby RP.
Recommended Action	None

%ARCHIVE_CONFIG-6-ARCHIVE_DELETE_FAILED_STANDBY : Delete of a previously saved archive of the router configuration could not be completed on the standby RP.

Explanation	The router could not delete a file that was previously written on the standby RP. The file that was being deleted file contains an archive of the router configuration. This could occur for example if the file was manually deleted. Alternatively, the file could not be deleted when the active RP cannot communicate with the standby RP.
Recommended Action	None

ARCHIVE_ISSU**%ARCHIVE_ISSU-2-INIT : Archive ISSU client initialization failed to [chars]. Error: [dec] ([chars])**

Explanation The Archive ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARCHIVE_ISSU-3-TRANSFORM_FAIL : Archive ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation The Archive ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the Archive state between the active device and the standby device is not identical.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%ARCHIVE_ISSU-3-MSG_NOT_OK : Archive ISSU client 'Message Type [dec]' is not compatible

Explanation The Archive ISSU client received an incompatible message from the peer device. The message cannot be processed.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%ARCHIVE_ISSU-3-MSG_SIZE : Archive ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation The Archive ISSU client failed to calculate the MTU for the specified message. The Archive ISSU client is not able to send the message to the standby device.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%ARCHIVE_ISSU-3-INVALID_SESSION : Archive ISSU client does not have a valid registered session.

Explanation The Archive ISSU client does not have a valid registered session.

%ARCHIVE_ISSU-3-INVALID_SESSION : Archive ISSU client does not have a valid registered session.

Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)
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%ARCHIVE_ISSU-2-SESSION_REGISTRY : Archive ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The Archive ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.
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Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)
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%ARCHIVE_ISSU-3-SESSION_UNREGISTRY : Archive ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The Archive ISSU client failed to unregister session information.
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Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)
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%ARCHIVE_ISSU-2-SESSION_NEGO_FAIL_START : Failed to start Archive ISSU session negotiation. Error: [dec] ([chars])

Explanation	The Archive ISSU client failed to start session negotiation. If a problem occurs with the ISSU session start, the standby device cannot be brought up properly.
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Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id>)
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%ARCHIVE_ISSU-2-SEND_NEGO_FAILED : Archive ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation	The Archive ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
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Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)
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%ARCHIVE_ISSU-2-GET_BUFFER : Archive ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation	The Archive ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
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%ARCHIVE_ISSU-2-GET_BUFFER : Archive ISSU client failed to get buffer for message. Error: [dec] ([chars])

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

ARP

%ARP-4-ENTRYTHRESHOLD : Cannot insert more than [int] dynamic ARP entries on [chars]

Explanation This message indicates that the number of dynamically learned ARP entries, complete or incomplete, has exceeded a preconfigured limit, indicating a possible misconfiguration or DOS attack.

Recommended Action First, inspect the ARP entries on the affected interface. If they are valid entries, either increase the configured ARP entry limit or reconfigure the network to reduce ARP peers. If they are invalid entries, there is a possible DOS attack on the system.

%ARP-4-TRAPENTRY : [int] dynamic ARP entries on [chars] installed in the ARP table

Explanation This message indicates that the number of dynamically learned ARP entries, complete or incomplete, has exceeded a preconfigured threshold, indicating a possible misconfiguration or DOS attack.

Recommended Action First, inspect the ARP entries on the affected interface. If they are valid entries, either increase the configured log threshold or reconfigure the network to reduce ARP peers. If they are invalid entries, there is a possible DOS attack on the system.

%ARP-4-ARPLEARNTHRES : Learned ARP entries have reached to threshold level [int]

Explanation This message indicates that the number of learned ARP entries, which are not configured, has reached a preconfigured threshold, indicating a possible misconfiguration or DOS attack.

Recommended Action First, inspect the ARP entries on the interface. reconfigure the network to reduce ARP peers.

%ARP-4-ARPLEARNCROSS : [int] Learned ARP entries are installed in the ARP table and reached the max limit

Explanation This message indicates that the number of dynamically learned ARP entries has reached a preconfigured max. limit in ARP Table.

Recommended Action First, inspect the ARP entries on the interface. If they are valid entries, either increase the configured max limit or reconfigure the network to reduce ARP peers.

%ARP-6-ARPLEARNRESUME : Resuming Learn ARP entries to install in ARP table.

Explanation	This message indicates that the number of dynamically learned ARP entries is in range of permit threshold value. System is allowing new Learned ARP entries to install in ARP table.
Recommended Action	No action is required.

%ARP-3-STCKYARPOVR : Attempt to overwrite Sticky ARP entry: [IP_address], hw: [enet] by hw: [enet]

Explanation	Multiple stations configured with same IP in Private VLAN. Possible case of IP address stealing.
Recommended Action	Change the IP address of one of the two systems.

%ARP-3-TABLEERR : Internal software error during ARP table operation for ARP entry

Explanation	An internal software error has occurred during an ARP table operation.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARP-4-ARPADJ : Received CEF Adjacency updation request on different interfaces: [IP_address] on [chars]

Explanation	A request to update CEF adjacency came on two different interfaces.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARP-3-ARPINIT : Internal software error during ARP subsystem initialization

Explanation	An internal software error has occurred during ARP subsystem initialization.
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%ARP-3-ARPINIT : Internal software error during ARP subsystem initialization

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARP-3-ARPHAMSGFMT : Malformed ARP HA checkpointing message (size = [int], entry count = [int])

Explanation A malformed ARP HA checkpointing message has been received.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARP-4-NULL_SRC_MAC : NULL MAC address from [IP_address] on [chars]

Explanation Application or peer tried to insert entry with NULL SRC MAC

Recommended Action If this message recurs, call your technical support representative for assistance.

%ARP-3-ARPINT : ARP table accessed at interrupt level [dec]

Explanation ARP table is accessed at interrupt level which is forbidden.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARP-3-ARPINVALIDEENTRY : ARP system internal error. Returns NULL arp entry on node [IPV6 address]

Explanation An internal software error has occurred in ARP subsystem, an NULL arp entry is got.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) or contact your Cisco technical support representative and provide the representative with the gathered information.

%ARP-3-NULL_IF_INPUT : ARP packet with NULL if_Input

Explanation ARP received a packet with NULL input interface**Recommended Action** If this message recurs, call your technical support representative for assistance.

ASPP

%ASPP-3-NOTTY : [chars]: Unable to set Rx/Tx tty async service hooks.

Explanation This message occurs only when ASP is configured. It indicates the serial interface using ASP is configured incorrectly or does not support asynchronous mode.**Recommended Action** Verify the correct hardware interface type is being used.

AT

%AT-3-NOTRUNNING : AppleTalk not running

Explanation You tried to show or change the AppleTalk configuration when AppleTalk routing was not turned on.**Recommended Action** Issue the appletalk routing command before issuing any other AppleTalk configuration or display command.

%AT-5-ADDRINUSE : [chars]: AppleTalk node warning; address %A already in use

Explanation The initial hint address was in use. A search will be made for a valid address.**Recommended Action** No action is required.

%AT-5-ADDRINVALID : [chars]: AppleTalk node warning; address %A is invalid

Explanation The hint address specified for the interface was not valid for the current configuration.**Recommended Action** The hint address is ignored and a random valid hint address is automatically computed.
LOG_STD_NO_ACTION

%AT-3-DISCOFF : [chars]: AppleTalk node warning; discovery mode disabled

Explanation A hardware or software error occurred.

%AT-3-DISCOFF : [chars]: AppleTalk node warning; discovery mode disabled

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) or contact your Cisco technical support representative and provide the representative with the gathered information.
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%AT-3-NOADDRSAVAIL : [chars]: AppleTalk node down; no addresses available

Explanation	No free node could be found on the interface.
Recommended Action	If your AppleTalk network has less than 250 nodes, issue the debug appletalk errors command and then call your technical support representative. If your AppleTalk network has more than 250 nodes, split it into smaller networks by creating new segments and moving some nodes into the new segments.

%AT-3-NOSRCADDR : [chars]: AppleTalk packet error; no source address available

Explanation	The router could not generate an AppleTalk packet because no valid AppleTalk source address was available to identify this router in the packet.
Recommended Action	Configure an interface to have an address or cable range. Use the show appletalk command to verify that the interface is operational.

%AT-6-ADDRUSED : [chars]: AppleTalk node up; using address %A

Explanation	No hint address or a bad hint address was specified. This message indicates which AppleTalk address will be used for the interface.
Recommended Action	No action is required.

%AT-4-NETINVALID : [chars]: AppleTalk node down; conflicts with active internet

Explanation	The configuration specified for the interface conflicts with the active AppleTalk internetwork. For example, a cable range might be configured that overlaps an existing route but does not match the entry exactly.
Recommended Action	Use the appletalk cable-range command to reconfigure the interface so that there are no conflicts with the existing AppleTalk rnetwork, or take any other actions necessary to resolve the conflict. AppleTalk will periodically attempt to restart the interface.

%AT-3-NETDISAGREES : [chars]: AppleTalk interface disabled; network incompatible with %a

Explanation	The interface was disabled because the configured AppleTalk address or cable range for the interface conflicts with that of another router on the attached network.
Recommended Action	Reconfigure the affected routers so that there are no conflicting addresses or cable ranges on the attached network.

%AT-3-DEFZONEERR : [chars]: AppleTalk interface warning; default zone differs from %a

Explanation	During the verification startup process, there was a disagreement between the default zone (the first zone defined after the appletalk cable-range command) and the router that confirmed the configuration. When an AppleTalk end node is first connected to a network, it joins the default zone until it is overridden.
Recommended Action	Use the appletalk zone command to correct the configuration so that all routers are advertising the same default zone. Note that several router implementations are known to mismanage the default zone.

%AT-3-ZONEDISAGREES : [chars]: AppleTalk interface disabled; zone list incompatible with %a

Explanation	The zone list of the configured interface is inconsistent with the zone list of other routers.
Recommended Action	Reconfigure the zone list on the router so that it does not conflict with that the zone lists on other routers.

%AT-6-CONFIGOK : [chars]: AppleTalk interface enabled; verified by %a

Explanation	The AppleTalk configuration was verified by consulting the indicated router.
Recommended Action	No action is required.

%AT-6-ONLYROUTER : [chars]: AppleTalk interface enabled; no neighbors found

Explanation	No other AppleTalk routers were found on the network attached to the interface.
Recommended Action	No action is required.

%AT-3-MCMISMATCH : [chars]: AppleTalk interface warning; zone multicast [enet] differs from our multicast [enet]

Explanation	A computed multicast address disagrees with that provided by another AppleTalk router. The other AppleTalk router might be misconfigured or faulty.
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%AT-3-MCMISMATCH : [chars]: AppleTalk interface warning; zone multicast [enet] differs from our multicast [enet]

Recommended Action Correct the problem at the other router.

%AT-5-INTDOWN : [chars]: AppleTalk node down; line protocol down

Explanation An AppleTalk hardware interface was disabled because of a bad serial line, a configuration command, or a bad interface.

Recommended Action If the interface was not intentionally disabled, this message indicates a hardware problem. In this case, repair or replace the applicable hardware.

%AT-5-INTRESTART : [chars]: AppleTalk interface restarting; protocol restarted

Explanation The hardware interface was reset because of a configuration change. After the reset, AppleTalk automatically reinitialized the interface.

Recommended Action No action is required.

%AT-6-INTUP : [chars]: AppleTalk interface restarting; line protocol came up

Explanation An AppleTalk interface that was previously shut down was restarted.

Recommended Action No action is required.

%AT-6-BADROUTE : Route to %#A has gone bad

Explanation The system did not detect a route within the required timeout period. Therefore, the route is marked as bad. A network might have become unreachable for some reason, perhaps because of a broken connection. This message does not necessarily indicate an error condition.

Recommended Action No action is required.

%AT-5-PATHCHANGE : Route to %#A is now using path of type [chars] on [chars] via %#a

Explanation The path to a network changed because either the old path went down or the new path was better.

Recommended Action No action is required.

%AT-5-RTMPSTATE : [chars]: RTMP path to %A via %a now in [chars] state (metric [dec], [dec] hops)

Explanation The state of a path changed.

Recommended Action No action is required.

%AT-6-PATHNOTIFY : [chars]: AppleTalk [chars] path to %A down; reported bad by %a

Explanation A router went down somewhere on the AppleTalk network. The indicated peer notified this router of the change.

Recommended Action No action is required.

%AT-6-PATHADD : [chars]: AppleTalk [chars] path to network %A added; via %a (metric [dec])

Explanation A new AppleTalk path has been learned. The message indicates the source of the path, its distance in hops, its metric, and the type of path.

Recommended Action No action is required.

%AT-6-PATHDEL : [chars]: AppleTalk [chars] path to %A via %a has been deleted

Explanation A path on the AppleTalk network aged out.

Recommended Action No action is required.

%AT-6-ROUTEOK : [chars]: AppleTalk network up; %A via %a ([dec] hop [chars])

Explanation A routing update was received for a previously suspect route.

Recommended Action No action is required.

%AT-6-ROUTENOTIFY : [chars]: AppleTalk network down; %A reported bad by %a

Explanation A router went down somewhere on the AppleTalk network. The indicated peer notified this router of the change.

Recommended Action No action is required.

%AT-6-ROUTEDOWN : [chars]: AppleTalk network down; interface to %A disabled

Explanation A connected route is being advertised as down (also known as notify neighbor) because the configured interface is no longer operational.

Recommended Action No action is required.

%AT-6-NEWROUTE : [chars]: AppleTalk network added; %A via %a ([dec] hop [chars])

Explanation A new AppleTalk route was learned. The message indicates the source of the route and its distance in hops.

Recommended Action No action is required.

%AT-6-DELROUTE : AppleTalk network deleted; %A removed from routing table

Explanation A route on the AppleTalk network aged out.

Recommended Action No action is required.

%AT-6-NEWZONE : AppleTalk zone added; zone %*s defined

Explanation A new AppleTalk zone was created.

Recommended Action No action is required.

%AT-6-ZONEGC : AppleTalk zone deleted; zone [chars] released

Explanation The router removed an unused zone from the zone table.

Recommended Action No action is required.

%AT-6-NODEWRONG : [chars]: AppleTalk node %a misconfigured; reply has been broadcast

Explanation An AppleTalk node sent a GetNet Info request to this router specifying an invalid network number for the source of the GetNet Info request. This situation occurs when an AppleTalk end node is moved to another network and is therefore misconfigured for the current network.

Recommended Action No action is required.

%AT-7-BUGREPORT : AppleTalk bug: [chars]

Explanation The software detected an unexpected condition. The router takes corrective action and continues.

Recommended Action Copy the message exactly as it appears, note any AppleTalk problems you experience, and call your technical support representative.

%AT-2-ASSERTFAILED : AppleTalk assertion failed: [chars]

Explanation The software detected an inconsistency. Although this error is serious, the router attempts to continue. AppleTalk processing might be impaired.

Recommended Action Copy the message exactly as it appears, note any AppleTalk problems you experience, and call your technical support representative.

%AT-7-DEBUGMSG : AppleTalk debug: [chars]

Explanation This message is generated by a debug command and provides additional information about an AppleTalk condition.

Recommended Action Copy the message exactly as it appears, note any AppleTalk problems you experience, and call your technical support representative.

%AT-5-COMPATERR1 : [chars]: AppleTalk internet compatibility mode required by %#a

Explanation A neighboring router supports only extended AppleTalk networks with a cable range of 1 and with one assigned zone, for example, 25-25.

Recommended Action Upgrade the routers that support only the original AppleTalk specification. In the meantime, observe the compatibility rules for AppleTalk Phase 1 and Phase 2 routers.

%AT-5-COMPATERR2 : AppleTalk neighbor incompatibility; %#A has multiple zones

Explanation Although this router has neighbors that require your internetwork to observe compatibility rules, AppleTalk has learned of a route with multiple zone names defined. This condition can cause node inconsistencies on your AppleTalk network.

Recommended Action Upgrade the routers that support only the original AppleTalk specification. In the meantime, observe the compatibility rules for AppleTalk Phase 1 and Phase 2 routers.

%AT-5-COMPATERR3 : AppleTalk neighbor incompatibility; %#A has wide cable range

Explanation	Although this router has neighbors that require your internetwork to observe compatibility rules, AppleTalk has learned of a route that has a cable range greater than 1. This condition can cause node inconsistencies on your AppleTalk network.
Recommended Action	Upgrade the routers that support only the original AppleTalk specification. In the meantime, observe the compatibility rules for AppleTalk Phase 1 and Phase 2 routers.

%AT-5-FDDICOMPAT : AppleTalk FDDI neighbor %#a using obsolete FDDI addressing

Explanation	Another AppleTalk router on the FDDI ring is running a release of the router software earlier than 9.0(2). Routers running these early software releases use an encapsulation for AppleTalk on FDDI rings that is not compatible with the Apple FDDITalk implementation.
Recommended Action	Upgrade the routers running the software releases that use the pre-FDDITalk encapsulation for AppleTalk on FDDI rings.

%AT-5-LOSTNEIGHBOR : [chars]: AppleTalk neighbor down; lost contact with %#a

Explanation	A peer router is unreachable.
Recommended Action	No action is required.

%AT-6-NEWNEIGHBOR : [chars]: AppleTalk neighbor added; %#a is operational

Explanation	The router discovered a new AppleTalk router on the network.
Recommended Action	No action is required.

%AT-6-NEIGHBORUP : [chars]: AppleTalk neighbor up; %#a has restarted

Explanation	A neighboring router to which this router previously lost connectivity reappeared on the network.
Recommended Action	No action is required.

%AT-5-BADNEIGHBOR : [chars]: AppleTalk neighbor ignored; %#a is misconfigured

Explanation	A neighboring router's AppleTalk configuration does not agree with this router's AppleTalk configuration. This condition can result from a mismatch between the neighbor's network range and this router's network range.
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%AT-5-BADNEIGHBOR : [chars]: AppleTalk neighbor ignored; %#a is misconfigured

Recommended Action	Modify either this router's or the neighboring router's configuration so that the network ranges agree.
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%AT-6-ACQUIREMODE : [chars]: AppleTalk interface initializing; acquiring [chars]

Explanation	The interface is determining the correct configuration. This message is displayed when discovery mode is enabled and no other router is detected.
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Recommended Action	No action is required.
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%AT-6-ZONEPROXY : AppleTalk proxy defined; zone [chars] using network %#A

Explanation	This message reports the zone name and network number that are being advertised to support the appletalk nbp-proxy command.
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Recommended Action	When proxy service is initiated, this message is generated each time the appletalk nbp-proxy command is issued. LOG_STD_NO_ACTION
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%AT-6-NOPROXY : AppleTalk proxy deleted; zone [chars] freed network %#A

Explanation	A previously configured Name Binding Protocol (NBP) proxy was deleted. The router can no longer convert NBP requests to a format understood by routers that support only the original AppleTalk specification.
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Recommended Action	No action is required.
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%AT-5-NOTSUPPORTED : [chars]: AppleTalk node down; line protocol not supported

Explanation	An encapsulation method on the specified interface does not support AppleTalk.
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Recommended Action	No action is required.
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%AT-5-DUPADDR : [chars]: AppleTalk interface restarting; node address taken by [enet]

Explanation	Another AppleTalk node on a common network interface claimed the same AppleTalk address that this router was using. This error indicates a serious, unexpected problem. If it recurs, a physical network problem in which the nodes cannot communicate with each other might exist.
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Recommended Action	The interface on this router restarts AppleTalk processing on the common network interface to resolve the address conflict. LOG_STD_NO_ACTION
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%AT-5-INTCLEARED : [chars]: AppleTalk interface restarting; interface cleared

Explanation A clear interface command was issued on an interface that is currently routing AppleTalk.

Recommended Action No action is required.

%AT-5-OLDMCI : [chars]: AppleTalk route cache disabled; firmware is obsolete

Explanation The firmware on the MCI controller card does not support AppleTalk fast switching.

Recommended Action No corrective action is required. Normal AppleTalk operation continues, but the fast switching cache is disabled for the interface associated with the MCI card. If this message is unexpected, verify that the MCI firmware for the interface specified in the error message is at level 1.7 or higher.

%AT-3-IFCONFLICT : [chars]: AppleTalk interface disabled; conflicts with interface [chars]

Explanation An attempt was made to configure an interface to have the same or a conflicting AppleTalk address or cable range as another interface on the same router.

Recommended Action Verify that you are not specifying an AppleTalk address or cable range used previously on this router, and reconfigure the interface.

%AT-3-SUBROUTINE_ERROR : AppleTalk error: [chars]

Explanation An internal error occurred. Specifically, a programming assertion in the AppleTalk networking code was violated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) or contact your Cisco technical support representative and provide the representative with the gathered information.

%AT-6-MACIPUP : [chars]: MacIP server operational, [IP_address]

Explanation If the appletalk event-logging command is configured, this message appears on the console when a MacIP server is fully initialized and is ready to accept client requests. The AppleTalk zone served by the MacIP server replaces the zone specified in the appletalk zone command. The IP address configured on the MacIP server replaces the IP address configured by the ip address command.

Recommended Action No action is required.

%AT-6-MACIPDOWN : [chars]: MacIP server shutting down, [IP_address]

Explanation If the appletalk event-logging command is configured, this message appears on the console when a MacIP server is no longer operational for any reason. MacIP servers shut down in response to MacIP configuration changes or errors, or a change in the condition or configuration of an AppleTalk or IP interface for which the MacIP server is providing service. The AppleTalk zone served by the MacIP server replaces the zone specified in the appletalk zone command. The IP address configured on the MacIP server replaces the IP address configured by the ip address command.

Recommended Action No action is required.

%AT-4-MACIPBADCONF : [chars]: MacIP inoperable configuration, [IP_address]

Explanation If the appletalk event-logging command is configured, this message appears on the console when a MacIP server cannot begin or recover operations because of an invalid IP address configuration. This condition only occurs when the configured MacIP server's IP address is not valid on the same cable of any operable IP interface. The AppleTalk zone served by the MacIP server replaces the zone specified in the appletalk zone command. The IP address configured on the MacIP server replaces the IP address configured by the ip address command. When this error occurs, the MacIP configuration is considered invalid and is deleted.

Recommended Action No action is required.

%AT-4-MACIPNOCABLE : [chars]: MacIP inoperable IP interface, [IP_address]

Explanation If the appletalk event-logging command is configured, this message appears on the console when a MacIP server can no longer operate due to a change in the condition of the IP interface it serves. This condition can occur if IP routing is shut down on the interface, or the IP address of the interface is changed so that the MacIP server's IP address is no longer valid on the same cable. The AppleTalk zone served by the MacIP server replaces the zone specified in the appletalk zone command. The IP address configured on the MacIP server replaces the IP address configured by the ip address command.

Recommended Action No action is required.

%AT-5-NOSUCHROUTE : No such route [dec]

Explanation You specified a nonexistent route in a show appletalk route or clear appletalk route command.

Recommended Action Specify a valid route, that is, one that appears in the output of the show appletalk route command.

%AT-3-NOSUCHNBR : No such neighbor, %#a

Explanation You specified a nonexistent neighbor address in a show appletalk neighbor or clear appletalk neighbor.

Recommended Action Specify a valid neighbor address, that is, one that appears in the output of the show appletalk neighbor command.

%AT-6-NBRDELETED : Neighbor entry for %#a deleted

Explanation The clear appletalk neighbor command displays this command when it completes successfully.

Recommended Action No action is required.

%AT-6-REGPENDING : NBP registration of [chars] at [[chars]] pending

Explanation A name registration call is being performed.

Recommended Action No action is required.

%AT-1-NOMEM : Could not allocate memory for [chars] at line [dec] in [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) or contact your Cisco technical support representative and provide the representative with the gathered information.

%AT-3-NOBESTPATH : Could not compute best path for network %#A

Explanation A path to the specified network could not be found.

Recommended Action Use the show appletalk route command to verify that a path to the specified network exists. If it does, copy the error message exactly as it appears, and report it along with the output of the show appletalk route command to your technical support representative.

%AT-3-NOROUTE : No route to destination %a

Explanation	The router could not deliver a packet to a destination because it did not know where to send it.
Recommended Action	Use the show appletalk route command to verify that a path to the destination exists. If it does, copy the error message exactly as it appears, and report it with the output of the show appletalk route command to your technical support representative.

%AT-3-CANTDEL : Cannot delete [chars] route [dec] by clearing; remove it by reconfiguring

Explanation	You attempted to remove a route from the routing table by issuing the clear appletalk route command. The command failed because the route was on a directly connected interface, that is, it was created when you configured the router.
Recommended Action	Remove the route by reconfiguring the directly connected interface with which it is associated.

%AT-3-INVNBPCMD : Invalid NBPtest command [chars]

Explanation	An unrecognized command was specified in the Name Binding Protocol (NBP) test facility.
Recommended Action	Enter a valid command.

%AT-3-OUTOFSYNC : [chars]: AURP connection out of sync...terminating

Explanation	AURP detected packets that were out of sequence. This might be caused by a lost connection.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%AT-4-PATHREJECTED : AURP path %#A rejected; conflict detected

Explanation	The router detected a conflicting cable range. A router is configured with a cable range that overlaps with an existing range but does not match the entry exactly.
Recommended Action	Use the show appletalk command to identify the overlapped cable range, and then reconfigure the misconfigured router.

%AT-3-DOMOVERFLOW : Remap range overflow for [chars] domain [dec]

Explanation	The remap range overflowed. If a network (range) cannot fit inside the remapping range, the network or cable range being advertised by a neighboring router is not accepted. When an overflow occurs, all interfaces in the domain are disabled.
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%AT-3-DOMOVERFLOW : Remap range overflow for [chars] domain [dec]

Recommended Action	Use the appletalk domain remap-range command to increase the remapping range. Then restart the interfaces.
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%AT-3-DOMLOOP : Loop detected on domain [dec] [[chars]]

Explanation	The domain router detected a routing loop. Routing loops are not allowed. The domain router runs a background loop detection process. The domain router starts this process when it receives a new zone list from a domain that is identical to the list in the main routing table and whose network range length matches that in this list. The loop detection process sends several AppleTalk NBP loopback packets. When one of these packets is received on an interface that does not belong to the original domain, the domain router first shuts off all the domains involved in the loop, and then shuts off all the interfaces in these domains. The loop detection does not catch all types of loops. It is your responsibility to make sure that no loop exists.
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Recommended Action	Disable the cause of the routing loop. Then use the clear appletalk command to restart the interfaces involved.
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%AT-3-NOVIRTUAL : [chars]: client tried to connect, but no virtual network is declared

Explanation	A hardware or software error occurred.
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%AT-3-NOSOCKET : [chars]: client tried to open socket, but failed

Explanation	open socket failed;Possible out of memory situation
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Recommended Action	
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ATA through BCRDU

- [ATA](#)
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- [AUTO_UPGRADE](#)
- [AUTO_UPGRADE_MODULAR](#)
- [BCRDU](#)

ATA

%ATA-6-ATA_STATUS_TIMEOUT : Timeout occurred while querying the status of ATA device. Status returned :[hex], event: [dec]

Explanation	A timeout occurred while querying the status of ATA device.
Recommended Action	Replace the new ATA device and retry the operation. If the problem persists, (1) Run 'show tech' command. (2) Enable file system operation logs using the following commands: (a) 'debug ifs file' (b) 'debug ifs fs' (c) 'debug ifs verbose' (3) Contact the TAC or engineering team with the output of the commands.

%ATA-3-ATA_STATUS_ERROR : Error occurred while querying the status of ATA device. Return: [dec], stat_reg: [hex]

Explanation	An error occurred while querying the status of ATA device. Device not responding
Recommended Action	Replace the new ATA device and retry the operation. If the problem persists, (1) Run 'show tech' command. (2) Enable file system operation logs using the following commands: (a) 'debug ifs file' (b) 'debug ifs fs' (c) 'debug ifs verbose' (3) Contact the TAC or engineering team with the output of the commands.

ATMSIG

%ATMSIG-3-FAILASSERT : Assertion failed: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-NOSVC : no SVC, [chars]

Explanation	An internal software error occurred.
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%ATMSIG-3-NOSVC : no SVC, [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-NOCALLREF : Cannot find a Callref value to allocate: [chars]

Explanation This indicates an internal software error, probably including memory exhaustion.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-ATMSIG_SVC_INSERT_FAILED : ATMSIG([chars] [dec],[dec] - %04d/%02d) SVC wavl ins failed:svc [hex]

Explanation A software error occurred during creation of an SVC. Other error messages appearing immediately prior to this one may be related.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-ATMSIG_SVC_DELETE_FAILED : ATMSIG([chars] [dec],[dec] - %04d/%02d) SVC wavl del failed:svc [hex]

Explanation A software error occurred during closure of an SVC. Other error messages appearing immediately prior to this one may be related.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-ATMSIG_PRTY_INSERT_FAILED : ATMSIG([chars][dec],[dec] - %04d/%02d) avl prty ins failed:svc [hex] party [hex]

Explanation A software error occurred during addition of a party to a point-to-multipoint call. Other error messages appearing immediately prior to this one may be related.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-ATMSIG_PRTY_DELETE_FAILED : ATMSIG([chars][dec],[dec] - %04d/%02d) avl prty del failed:svc [hex] party [hex]

Explanation A software error occurred during removal of a party from a point-to-multipoint call. Other error messages appearing immediately prior to this one may be related.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-ATMSIG_CUG_INSERT_FAILED : ATMSIG([chars])

Explanation A software error occurred during addition of a member to a closed user group. Other error messages appearing immediately prior to this one may be related.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-ATMSIG_CUG_DELETE_FAILED : ATMSIG([chars])

Explanation A software error occurred during removal of a member from a closed user group. Other error messages appearing immediately prior to this one may be related.

%ATMSIG-3-ATMSIG_CUG_DELETE_FAILED : ATMSIG([chars])

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-FAILHALFLEGREM : halfLeg removal failed, [chars]

Explanation An internal software error occurred. This message should only be displayed when verbose debugging is enabled for an SVC.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-FAILXCONN : Xconnect failed, [chars]

Explanation An internal software error occurred during installation of an SVC cross-connect.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-INVPNNIMSG : Invalid msg from routing/pnni : [chars]

Explanation This message indicates an error in the PNNI routing subsystem. It could be caused by an internal software error or by bad control information received from peer equipment. The message will contain additional information that can help locate the cause. Any message with 'NULL' probably indicates a problem with this system, others probably point at the peer equipment.

Recommended Action Check this system and the peer equipment for any obvious errors.
LOG_STD_RECUR_ACTION

%ATMSIG-4-CONFIG_ERROR : Configuration Error: [chars] [chars]

Explanation This message indicates a configuration error in the ATM Signaling subsystem. The message will display more specific information about the problem location.

Recommended Action Change the configuration to correct the error.

%ATMSIG-3-FAIL1STHALFLEG : 1st halfLeg failed, [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-FAIL2NDHALFLEG : 2nd halfLeg failed, [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-ENQFAIL : process_enqueue failed, [chars]

Explanation An internal software error occurred while handling a user request.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-DBINITFAIL : Signalling control block initialization failure, [chars]

Explanation An internal software or resource error occurred

%ATMSIG-3-DBINITFAIL : Signalling control block initialization failure, [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%ATMSIG-3-ATMSIG_LISTEN_FAILED_DUP : Duplicate LISTEN by [chars] for existing NSAP [chars] owned by [chars]

Explanation	An application attempted to either LISTEN on an NSAP owned by another application or to LISTEN for the same NSAP twice
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ATMSIG-3-PNNI_TRACE_INTERNAL : [chars]

Explanation	An internal software error or unexpected condition occurred during PNNI (Connection/Path) Trace related processing
Recommended Action	LOG_STD_SH_CMD_ACTION(show atm pnni trace information) Also gather information about where/how trace was initiated, and for what type of VC.

ATMSSCOP**%ATMSSCOP-4-UNMATCHUNIVERSION : ([chars]): [chars]. Please verify peer UNI version**

Explanation	The ATM peer equipment appears to be running an old version of ATM UNI. Communication with it is not possible.
Recommended Action	The ATM peer equipment may need attention. Please verify its UNI version is at least 3.1, and upgrade if necessary.

%ATMSSCOP-3-SSCOPERR : INIT SSCOP -Intf : [chars], Event : [chars], State : [chars].

Explanation	A software error occurred in the ATM SSCOP subsystem.
Recommended Action	LOG_STD_SH_CMD_ACTION

%ATMSSCOP-5-SSCOPINIT : - Intf : [chars], Event : [chars], State : [chars].

Explanation This message indicates a routine step of the ATM SSCOP initialization sequence.**Recommended Action** LOG_STD_NO_ACTION

ATTN

%ATTN-2-MBOX_REG_FAIL : return code [dec]

Explanation Registration of handler function for mailbox event failed mailbox event failed.**Recommended Action** LOG_STD_ACTION

%ATTN-2-PROXY_INIT_FAIL_IPC_REG : return code [dec]

Explanation Initialization of attention proxy failed due to error registering IPC handler function.**Recommended Action** LOG_STD_ACTION

%ATTN-3-PROXY_UNHANDLED_MSG : subtype [dec]

Explanation Attention proxy received a message with an unknown subtype.**Recommended Action** LOG_STD_ACTION

%ATTN-3-PROXY_IPC_ALLOC_FAILED : [chars]

Explanation Allocation of an IPC packet buffer by the attention proxy failed.**Recommended Action** LOG_STD_ACTION

%ATTN-3-PROXY_IPC_SEND_FAILED : [chars]

Explanation Transmission of an IPC message by the attention proxy failed.**Recommended Action** LOG_STD_ACTION

%ATTN-3-SYNC_TIMEOUT : msec since last timeout [int], missing packets [dec]

Explanation Attention sync command timed out.

Recommended Action LOG_STD_ACTION

AUTHMGR

%AUTHMGR-5-START : Starting '[chars]' for client ([enet]) on Interface [chars] AuditSessionID [chars]

Explanation Starting an authentication method

Recommended Action No action is required.

%AUTHMGR-5-SUCCESS : Authorization succeeded for client ([enet]) on Interface [chars] AuditSessionID [chars]

Explanation Authorization was successful.

Recommended Action No action is required.

%AUTHMGR-5-FAIL : Authorization failed or unapplied for client ([enet]) on Interface [chars] AuditSessionID [chars]

Explanation Authorization was unsuccessful.

Recommended Action No action is required.

%AUTHMGR-5-VLANASSIGN : VLAN [dec] assigned to Interface [chars] AuditSessionID [chars]

Explanation VLAN assignment

Recommended Action No action is required.

%AUTHMGR-5-SECURITY_VIOLATION : Security violation on the interface [chars], new MAC address ([enet]) is seen. AuditSessionID [chars]

Explanation A host on the specified interface is attempting to gain access into the network or is trying to authenticate in a host mode that does not support the number of hosts attached. This is treated as a security violation and the port has been error-disabled.

%AUTHMGR-5-SECURITY_VIOLATION : Security violation on the interface [chars], new MAC address ([enet]) is seen. AuditSessionID [chars]

Recommended Action Ensure that the port is configured to support the number of hosts attached. Enter the **shutdown** command followed by **no shutdown** command to restart the port.

%AUTHMGR-7-FAILOVER : Failing over from '[chars]' for client ([chars]) on Interface [chars] AuditSessionID [chars]

Explanation Failing over from the current authentication method

Recommended Action No action is required.

%AUTHMGR-7-STOPPING : Stopping '[chars]' for client [enet] on Interface [chars] AuditSessionID [chars]

Explanation Stopping the current authentication method

Recommended Action No action is required.

%AUTHMGR-7-NOMOREMETHODS : Exhausted all authentication methods for client ([chars]) on Interface [chars] AuditSessionID [chars]

Explanation All available authentication methods have been tried

Recommended Action No action is required.

%AUTHMGR-5-MACMOVE : MAC address ([enet]) moved from Interface [chars] to Interface [chars] AuditSessionID [chars]

Explanation Client has moved to a new interface without logging off on the previous one.

Recommended Action No action is required.

%AUTHMGR-5-MACREPLACE : MAC address ([enet]) on Interface [chars] is replaced by MAC ([enet]) AuditSessionID [chars]

Explanation A new client has triggered a violation causing an existing client to be replaced

Recommended Action No action is required.

%AUTHMGR-4-UNAUTH_MOVE : [chars] MAC address ([enet]) from [chars] to [chars]

Explanation Move while not authenticated on old IDB**Recommended Action** No action is required.

%AUTHMGR-4-ILLEGAL_TRACE_REQ : Component ID [dec] not registered.

Explanation Attempt to log a message with unregistered ID.**Recommended Action** No action is required.

%AUTHMGR-0-CONFIG_CORRUPT : Checksummed interface configuration corruption detected.

Explanation Interface configuration field was modified unexpectedly.**Recommended Action** No action is required.

AUTOSEC

%AUTOSEC-3-CONFSAVE_FAIL : Applying AutoSecure config to running-conf failed with error [dec]

Explanation Configuration of the AutoSecure session could not be applied to the running configuration**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%AUTOSEC-5-ENABLED : AutoSecure is configured on the device

Explanation Security configuration of the device is done using AutoSecure.**Recommended Action** Notification message only. No action required.

AUTO_FPD

%AUTO_FPD-5-FRU_HWPRG_UPG_START : [chars] in slot [chars] are upgrading, \ please don't reload or power-cycle this card.

Explanation The hw-programmable firmware is upgrading

%AUTO_FPD-5-FRU_HWPRG_UPG_START : [chars] in slot [chars] are upgrading, \ please don't reload or power-cycle this card.

Recommended Action No action is required. This is informational message

%AUTO_FPD-5-FRU_HWPRG_UPG_SUCCESS : [chars] in slot [chars] are successfully programmed.

Explanation The hw-programmable was upgraded successfully

Recommended Action No action is required. This is informational message

%AUTO_FPD-3-FRU_HWPRG_UPG_FAILED : [chars] in slot [chars] failed to program. error: [chars]

Explanation The hw-programmable was upgraded failed

Recommended Action Retry upgrade

%AUTO_FPD-3-FRU_HWPRG_UPG_ERR : Error reason:[chars]

Explanation Some error occurred during auto upgrade

Recommended Action Retry upgrade

AUTO_UPGRADE

%AUTO_UPGRADE-5-AUTO_ADVISE_SW_CONV : [chars] [dec] running bundled software has been added to the stack that is running installed software.\The 'install autoupgrade' command can be used to convert [chars] [dec] to the installed running mode by \installing its running software.

Explanation No explanation required.

Recommended Action No specific action required.

%AUTO_UPGRADE-5-AUTO_ADVISE_SW_BUNDLED : switch [dec] running installed software has been added to the stack.\Switch [dec] must be running bundled software in order to join the stack.

Explanation No explanation required.

Recommended Action Boot the member with compatible software.

%AUTO_UPGRADE-3-AUTO_ADVISE_SW_COM_BUNDLED : Switch [dec] running incompatible bundled software has been added to the stack. \Switch [dec] must be running compatible bundled software in order to join the stack.

Explanation No explanation required.

Recommended Action Boot the member with compatible software.

%AUTO_UPGRADE-3-AUTO_UPGRADE_MODE_UNKNOWN : Switch [dec] has been added to the stack. Failed to initiate auto upgrade \for switch [dec] because switch [dec] is not running installed or bundled software

Explanation No explanation required.

Recommended Action Boot the member with compatible software.

%AUTO_UPGRADE-3-AUTO_ADVISE_SW_MODE_UNKNOWN : Switch [dec] has been added to the stack. Failed to initiate auto advise \for switch [dec] because switch [dec] is not running installed or bundled software

Explanation No explanation required.

Recommended Action Boot the member with compatible software.

%AUTO_UPGRADE-3-AUTO_UPGRADE_INTERNAL_ERROR : Local chassis/RP number did not publish yet

Explanation Somehow the chassis/FRU number is missing.

Recommended Action Try to do it again.

%AUTO_UPGRADE-3-AUTO_UPGRADE_NOT_SUPPORTED : The system is not running installed software. Auto upgrade for [chars] [dec] cannot be initiated

Explanation A system with incompatible software has been detected in the stack. The auto upgrade functionality cannot be \initiated because the stack/HA system is not running installed software. The user must manually upgrade the incompatible switch/FRU.

Recommended Action Perform the one shot cli to convert system is install mode. Boot the system from the boot directory (bootflash/harddisk) using 'boot bootflash:packages.conf'

%AUTO_UPGRADE-5-AUTO_UPGRADE_CONV : Converting [chars] [dec] to installed mode by installing its running software.

Explanation This needs to be converted as part of the auto upgrade.

Recommended Action No action is required.

%AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_DISK : [chars] [dec] doesn't have enough free disk space to perform auto upgrade. A minimum of [dec] KB of free disk space is required \ninitiating the auto-delete of the old images on joining member/FRU. (Default is oldest image in configuration mode)

Explanation There might be older files because of which there is not enough memory.

Recommended Action Clean up disk space in the remote switch.

%AUTO_UPGRADE-3-SMU_UPGRADE_FAILED_DISK : Switch [dec] doesn't have enough free disk space to sync SMU. A minimum of [dec] KB of free disk space is required. Auto upgrade will pass with out syncing SMUs on this switch

Explanation There might be older files because of which there is not enough memory.

Recommended Action Clean up disk space in the remote switch.

%AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_MEM : [chars] [dec] doesn't have enough free memory to perform auto upgrade. A minimum of [dec] KB of free memory is required

Explanation There might be older files because of which there is not enough memory.

Recommended Action Clean up disk space in the remote switch.

%AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_EXPAND : Failed to install the running software on switch [dec]

Explanation TODO: add an explanation.

Recommended Action No action required.

%AUTO_UPGRADE-3-SMU_SYNC_FAILED : SMU upgrade failed on switch [dec]. Auto upgrade of image will pass with out syncing SMUs on this switch. SMUs will be synced at boot time of the switch [dec]

Explanation SMU sync failed because of some reason.

%AUTO_UPGRADE-3-SMU_SYNC_FAILED : SMU upgrade failed on switch [dec]. Auto upgrade of image will pass with out syncing SMUs on this switch. SMUs will be synced at boot time of the switch [dec]

Recommended Action No action required, SMU sync will be tried in next reload.

%AUTO_UPGRADE-5-SMU_RB_SYNC_FAILED : SMU rollback sync failed on [chars]. Rollback operations may be affected

Explanation SMU rollback sync failed on some reason. Most probable causes are SMUs are not present on the media or the media is full.

Recommended Action Bring back the SMUs deleted and check whether there is enough space in remote member/SMUs

%AUTO_UPGRADE-3-AUTO_UPGRADE_ROMMON_NOT_UPDATED : Unable to confirm boot config on [chars] [dec], assuming it is set as [chars].

Explanation TODO: add an explanation.

Recommended Action NO action is required.

%AUTO_UPGRADE-5-AUTO_UPGRADE_RELOAD : Reloading [chars] [dec] to complete the auto upgrade.

Explanation Part of autoupgrade

Recommended Action Just wait until the reload completes.

%AUTO_UPGRADE-5-AUTO_UPGRADE_START_CHECK : Auto upgrade start checking for incompatible switches.

Explanation Part of autoupgrade

Recommended Action NO action is required.

%AUTO_UPGRADE-5-AUTO_ADVISE_SW_SEARCH : Searching stack for software to upgrade [chars] [dec].

Explanation Just an init message.

Recommended Action No action is required.

%AUTO_UPGRADE-5-AUTO_UPGRADE_SEARCH : Searching stack for software to upgrade [chars] [dec].

Explanation Just an init message.**Recommended Action** No action is required.

%AUTO_UPGRADE-5-AUTO_ADVISE_SW_FOUND : Found donor switch [dec] to auto upgrade switch [dec].

Explanation Just an init message.**Recommended Action** No action is required.

%AUTO_UPGRADE-5-AUTO_UPGRADE_FOUND : Found donor [chars] [dec] to auto upgrade [chars] [dec].

Explanation Just an init message.**Recommended Action** No action is required.

%AUTO_UPGRADE-5-AUTO_ADVISE_SW_START : Upgrading [chars] [dec] with software from [chars] [dec].

Explanation Just an init message.**Recommended Action** No action is required.

%AUTO_UPGRADE-5-AUTO_UPGRADE_START : Upgrading [chars] [dec] with software from [chars] [dec].

Explanation Just an init message.**Recommended Action** No action is required.

%AUTO_UPGRADE-5-AUTO_ADVISE_SW_INITIATED : Auto advise initiated for [chars] [dec].

Explanation A system with incompatible software has been detected in the stack. The stack will now determine whether or not \software is available to be copied to the incompatible system, and if so, advise the user how to copy it. \Otherwise, the system will merely let the user know that the software on the stack needs to be updated.**Recommended Action** No action is required.

%AUTO_UPGRADE-5-AUTO_UPGRADE_INITIATED : Auto upgrade initiated for [chars] [dec].

Explanation A system with incompatible software has been detected in the stack. The stack will first attempt to download \software from a previously-configured location, and install it to make the system compatible. If this is not successful, the stack will then determine whether \running software on another stack member is available to be copied to the incompatible system, and \whether or not it is appropriate to copy the software automatically

Recommended Action No action is required.

%AUTO_UPGRADE-3-AUTO_UPGRADE_PLATMISMATCH : No software was found to upgrade [chars] [dec]

Explanation Happens because of incompatible switches. For example, ngwc and non-ngwc ones are incompatible

Recommended Action Plugin compatible switches for autoupgrade to run.

%AUTO_UPGRADE-3-AUTO_CONF_EXEC : Auto upgrade is enabled by config. Please disable auto upgrade configuration to execute auto upgrade manually using exec CLI.

Explanation TODO: add an explanation.

Recommended Action TODO: add an action

%AUTO_UPGRADE-5-AUTO_ADVISE_SW_MSG : [chars] [dec] with incompatible software has been added to the system/stack. \all system/stack members were scanned and it has been determined that the \ 'install autoupgrade' command can be used to install compatible software on [chars] [dec].

Explanation TODO: add an explanation.

Recommended Action TODO: add an action

%AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_COPY : Failed to copy upgrade packages from [chars] [dec] to [chars] [dec].

Explanation TODO: add an explanation.

Recommended Action TODO: add an action

%AUTO_UPGRADE-5-AUTO_UPGRADE_RELOAD_INSTALLED : Reloading [chars] [dec] to boot in installed mode.

Explanation TODO: add an explanation.

Recommended Action TODO: add an action

%AUTO_UPGRADE-5-AUTO_UPGRADE_INSTALLED : Finished installing the running software on [chars] [dec].

Explanation TODO: add an explanation.

Recommended Action TODO: add an action

%AUTO_UPGRADE-5-AUTO_UPGRADE_FINISH : Finished installing software on [chars] [dec].

Explanation TODO: add an explanation.

Recommended Action TODO: add an action

%AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_PLATFORM : Failed to determine platform hardware type of [chars] [dec]

Explanation Somehow the platform type could not determined.

Recommended Action Add an action

%AUTO_UPGRADE-3-AUTO_UPGRADE_FAILED_STATE : A previous provisioning action is pending reboot. Please reboot the [chars] [dec].

Explanation The user has run an operation that requires a reboot to take action.

Recommended Action Reload the switch

%AUTO_UPGRADE-3-AUTO_ADVISE_SW_FAILED_PLATFORM : Failed to determine platform hardware type of switch [dec]

Explanation Somehow the platform type could not determined.

Recommended Action Add an action

%AUTO_UPGRADE-3-AUTO_UPGRADE_NOTHING_TO_UPGRADE : No incompatible standby/member is found, nothing to auto-upgrade.

Explanation Exec autoupgrade scenario when there is no incompatible member in stack.

Recommended Action No action is required from the user

%AUTO_UPGRADE-3-AUTO_UPGRADE_NOTHING_TO_CLEAN : Couldn't find enough old install images on incompatible standby/member for deletion.\ Please manually free up [dec] MB space on incompatible standby/member and try again using 'install autoupgrade'.

Explanation If there is no old images are found on joining standby/member's boot directory

Recommended Action User will have to manually delete old files using IOS delete command

AUTO_UPGRADE_MODULAR

%AUTO_UPGRADE_MODULAR-5-SMU_AUTO_UPGRADE_INITIATING : Initiating SMU autoupgrade for [chars] [dec]

Explanation No explanation required.

Recommended Action Boot the member with same software.

%AUTO_UPGRADE_MODULAR-5-AUTO_ADVISE_SW_MISSMATCH : Active and standby are running differnt versions, SMUs will not be synced.

Explanation No explanation required.

Recommended Action Boot the member with same software.

%AUTO_UPGRADE_MODULAR-5-AUTO_NOTICE_STBY_RELOAD : Installing SMUs on standby. Standby will reload

Explanation No explanation required.

Recommended Action No action required.

%AUTO_UPGRADE_MODULAR-5-AUTO_NOTICE_RUN_MISMATCH_STBY_RELOAD : Mismatch between running version of SMUs. Trying to recover. Standby will reload

Explanation There is a mismatch on the running version. This will happen when the standby reloads after activate/deactivate and before commit. The machine will try to correct it. One reload is required for correcting the changes.

Recommended Action No action required.

%AUTO_UPGRADE_MODULAR-3-AUTO_NOTICE_RUN_CORRECTION_FAILED : Failed to correct the SMU mismatch between the running version on active and standby. Pls abort the smu installation using 'install abort'

Explanation The system tried to recover from the mismatch, but failed. Engineer intervention is required

Recommended Action Get the 'show install log' and the btrace logs from active and standby

%AUTO_UPGRADE_MODULAR-3-AUTO_ERR_SMU_SYNC_FAILED : Failed to sync SMUs to standby. Make sure that SMU files are present on active and there is space enough to copy SMUs on standby.

Explanation SMU sync failed. Most probable cause are the smu files may have been removed from the active switch using IOS/linux commands. Another reason is there is no space enough to copy the files to the standby

Recommended Action If the files are removed from the active bring it back to same location. Make sure there is enough space to copy the files on the standby

BCRDU

%BCRDU-3-PATCH_ACTIVATE_FAIL_MESSAGE : Failed to activate patch. The patch name is [chars] and the reason is: [chars]

Explanation During system reload, all committed patches will be automatically activated. For some reason, a patch activation fails.

Recommended Action Check [bcrdu] ERR entries in the log files for message reporting problems.

BFD_HA through BRI

- [BFD_HA](#)
- [BFD_ISSU](#)

- [BFD_OFFLOAD](#)
- [BFD_PROXY](#)
- [BINOS_LOGIN](#)
- [BIPC](#)
- [BIPCMGR](#)
- [BOOST_PERFORMANCE](#)
- [BOOT](#)
- [BRI](#)

BFD_HA

%BFD_HA-2-RESOURCE : [chars]

Explanation	System resource error occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_HA-2-CF : [chars][dec]

Explanation	CF related error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_HA-2-ET : [chars][dec]

Explanation	Enhanced-timer error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

BFD_ISSU**%BFD_ISSU-2-INIT : BFD ISSU client initialization failed to [chars]. Error: [dec] ([chars])**

Explanation The BFD ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_ISSU-3-TRANSFORM_FAIL : bfd ISSU client [chars] transform failed for message [dec]'. Error: [dec] ([chars])

Explanation The BFD ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the BFD state between the active device and the standby device is not identical.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%BFD_ISSU-2-GET_BUFFER : BFD ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation The BFD ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%BFD_ISSU-2-SEND_NEGO_FAILED : BFD ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation The BFD ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%BFD_ISSU-2-SESSION_NEGO : BFD ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	An ISSU-compliant client transitions through a series of internal states. The BFD ISSU client encountered a 'client negotiation done' state that was unexpected. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%BFD_ISSU-2-SESSION_REGISTRY : BFD ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The BFD ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%BFD_ISSU-3-SESSION_UNREGISTRY : BFD ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The BFD ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%BFD_ISSU-3-MSG_SIZE : BFD ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation	The BFD ISSU client failed to calculate the MTU for the specified message. The BFD ISSU client is not able to send the message to the standby device.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%BFD_ISSU-3-INVALID_SESSION : BFD ISSU client does not have a valid registered session.

Explanation	The BFD ISSU client does not have a valid registered session.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

BFD_OFFLOAD**%BFD_OFFLOAD-3-INIT_FAILED : Initialization of the BFD Offload feature in QFP failed**

Explanation	Initialization of the BFD Offload feature in the QFP failed. This indicates a software failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_OFFLOAD-3-ALLOC_FAILED : Allocation of [chars] memory failed for BFD Offload feature in QFP

Explanation	Allocation of memory by the QFP BFD Offload feature microcode failed. The name of the memory chunk is specified in the message. This indicates a software failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_OFFLOAD-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for BFD Offload feature in QFP

Explanation	BFD Offload initialization of packet replication registration failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_OFFLOAD-3-HA_INVALID_STATE : state [dec], MSGDEF_LIMIT_MEDIUM

Explanation	An invalid HA state was received from the HA infrastructure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_OFFLOAD-3-HA_BULK_SYNC_FAIL : rg [dec], MSGDEF_LIMIT_MEDIUM

Explanation	There was a failure such that BFD Offload domain bulk sync did not occur
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%BFD_OFFLOAD-3-HA_BULK_SYNC_FAIL : rg [dec], MSGDEF_LIMIT_MEDIUM

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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BFD_PROXY

%BFD_PROXY-3-BFD_MEM_REQ_FAILED : BFD IPC subtype: [dec]

Explanation	Requesting more memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_PROXY-3-BFD_MEM_EXTEND_FAILED : BFD IPC subtype: [dec]

Explanation	Extending memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_PROXY-4-PROXY_INVALID_MSG_LEN : QFP BFD Proxy IPC invalid length, [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation	Cisco internal software error. QFP BFD Proxy received invalid IPC message length from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_PROXY-4-PROXY_INVALID_MSG : QFP BFD Proxy received invalid message type [dec]

Explanation	Cisco internal software error. QFP BFD Proxy received an invalid message from control plane. This message will be ignored.
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%BFD_PROXY-4-PROXY_INVALID_MSG : QFP BFD Proxy received invalid message type [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%BFD_PROXY-2-PROXY_IPC_INIT_FAILED : QFP BFD Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP BFD Proxy initialization detected that the IPC interface initialization failed. QFP BFD proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_PROXY-3-PROXY_BAD_MSG : QFP BFD Proxy received bad length message type [dec]

Explanation	Cisco internal software error. QFP BFD Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_PROXY-3-PROXY_IPC_ALLOC_FAILED : QFP BFD Proxy [chars] message lost due to message buffer allocation failure.

Explanation	Cisco internal software error. QFP BFD Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BFD_PROXY-3-PROXY_IPC_SEND_FAILED : QFP BFD Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation Cisco internal software error. QFP BFD Proxy message processing detected a message sent failure. The message is lost as the result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

BINOS_LOGIN

%BINOS_LOGIN-3-AUTHERR : The authentication process failed, [chars]

Explanation This error occurs when there is an error in the system that prevents the user from being successfully authenticated

Recommended Action No action is required.

%BINOS_LOGIN-3-PWNOENT : No entry for user [chars] in passwd file

Explanation The username/password authenticated correctly, but the user's environment could not be established because the user's environment data is missing.

Recommended Action No action is required.

%BINOS_LOGIN-3-PAMERR : PAM error [chars] encountered.

Explanation The system encountered a PAM error.

Recommended Action No action is required.

%BINOS_LOGIN-6-PAMAUTHDENY : User was not authenticated

Explanation User was not authenticated

Recommended Action No action is required.

%BINOS_LOGIN-6-PAMMAXTRIES : Maximum number of retries exceeded.

Explanation The user tried and failed too many times to login.

%BINOS_LOGIN-6-PAMMAXTRIES : Maximum number of retries exceeded.

Recommended Action No action is required.

%BINOS_LOGIN-3-NOTROOT : login attempted to run without proper credentials.

Explanation login can not be run without proper credentials.

Recommended Action No action is required.

%BINOS_LOGIN-3-NOTTY : login attempted but stdin is not a tty

Explanation login can not be run without stdin set to tty

Recommended Action No action is required.

BIPC

%BIPC-3-BIPC_PERFORMANCE : buffer size request [int] failed

Explanation An internal buffer allocation has failed.

Recommended Action No action is required. If the problem persists, or router performance is noticeably degraded, contact Cisco technical support. Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

BIPCMGR

%BIPCMGR-3-INVALID_TDL_ERROR_ON_MARSHAL : TDL epoch error on marshal [dec] unexpected: [chars]

Explanation The bipc manager has attempt to marshal a message to be sent. The tdl library has generated an error on marshal that is unexpected. The message was not sent.

Recommended Action This is unexpected. Report this to Cisco TAC

BOOST_PERFORMANCE

%BOOST_PERFORMANCE-2-CONFIG_REMOVED : Boost capability removed. Throughput will be defaulted on next reload. Reason: [chars]

Explanation Device no longer support boost throughput level

Recommended Action

BOOT

%BOOT-0-DRV_INITFAIL : [chars] driver failed to initialize properly

Explanation A kernel driver that is critical to the functioning of the system failed to initialize properly.

Recommended Action Note the time of the error message and check the kernel error logs for additional information on the problem. If you are unable to resolve this problem, copy the error message and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.

%BOOT-0-DRV_LOADFAIL : Failed to load driver [chars] ([chars])

Explanation A kernel driver that was critical to the functioning of the system failed to load.

Recommended Action Note the time of the error message and check the kernel error logs for additional information on the problem. If you are unable to resolve this problem, copy the error message and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.

%BOOT-6-DRV_LOAD : Loaded driver [chars]

Explanation A kernel driver that was critical to the functioning of the system was successfully loaded.

Recommended Action No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only.

%BOOT-3-APP_STARTFAIL : Failed to launch process [chars]

Explanation A process that does not affect the forwarding of network traffic failed to start.

Recommended Action If the failed process is not something that needs to be corrected, do not address this message. If the failed process needs to be addressed, install new software and reload the router.

%BOOT-0-APP_STARTFAILCRIT : Failed to launch a critical process [chars]

Explanation	A process important to the chassis has failed.
Recommended Action	Note the time of the message and investigate the error message logs to learn more about the problem. If the problem persists or cannot be resolved, copy the error message and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.

%BOOT-6-APP_START : The process [chars] has started

Explanation	The process has successful launched and begun executing.
Recommended Action	No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only.

%BOOT-3-DUAL_BOOT_MEMORY : Dual IOS boot indicated in ROMMON ([chars]), unavailable on [chars] RP

Explanation	Running two IOS instances on the same RP is unavailable on route-processors with insufficient memory
Recommended Action	Unset the specified ROMMON variable or increase the memory on the route-processor.

%BOOT-3-PARTIAL_CORE_CLEANUP_FAILURE : Partial core clean up failed for [chars]: [chars]

Explanation	During RP boot, a failure occurred cleaning up incomplete core files.
Recommended Action	Please check the router file systems.

%BOOT-6-PARTIAL_CORE_REMOVED : Removed incomplete core file: [chars]

Explanation	On boot of the RP, an incomplete core file was found and removed. Incomplete core files can happen for a variety of reasons, including the coincident failure of the active RP while a core file is being generated.
Recommended Action	No action required. This is not an error, it is an indication that the system is cleaning up a previous error.

%BOOT-3-EXT_ISSU_CHK_FAILED : Detected booting up of standby RP with image beyond the ISSU domain of active RP by the [chars] process. The standby RP is forced to reset.

Explanation	If standby RP is booted up with an image which is beyond the ISSU software domain of the active RP's image, the functionality of active RP may be unpredictable. Hence the standby is being reset.
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%BOOT-3-EXT_ISSU_CHK_FAILED : Detected booting up of standby RP with image beyond the ISSU domain of active RP by the [chars] process. The standby RP is forced to reset.

Recommended Action Remove the standby RP FRU from the chassis or boot it up with an image whose version is compatible with current running active RP.

%BOOT-3-COMP_SW_TREE_DIR_CREATION : COMP_SW_TREE directory is being generated

Explanation If chasfs/issu directory is missing on active, this message is displayed and the directory and its contents are being regenerated

Recommended Action No user action is necessary. This is an informative message.

%BOOT-3-FLASH_READ_FAIL : failed to get [chars] from flash

Explanation Property not populated.

Recommended Action No user action is necessary. This is informative message.

%BOOT-3-BOOTTIME_INCOMPATIBLE_SW_DETECTED : Incompatible software detected. Details: [chars]

Explanation Incompatible software is detected on target fru/chassis.

Recommended Action Upgrade manually or check auto-upgrade configuration.

%BOOT-3-BOOTTIME_MISMATCH_RESTRICTED_STACK_SETUP_DETECTED : Mismatch detected. Details: [chars]

Explanation Incompatible stacked setup detected on target fru/chassis.

Recommended Action Switch with mismatch require to be reloaded

%BOOT-5-BOOTTIME_SMU_MISMATCH_DETECTED : SMU mismatch from active detected. SMUs will be copied and switch [chars] will be reloaded

Explanation SMU mismatch found on newly joined switch.

Recommended Action Switch with mismatch will be reloaded

%BOOT-5-BOOTTIME_SMU_RUN_MISMATCH_DETECTED : Running SMU mismatch from active detected. System will try to correct it, switch [chars] will be reloaded

Explanation Running version of SMU mismatch found on newly joined switch.

Recommended Action Stack will try to correct itself.

%BOOT-3-BOOTTIME_SMU_SYNC_FAILED : Failed to copy the SMUs to switch [chars]. Reload cancelled and switch will be declared incompatible

Explanation SMU sync failed on newly joined switch.

Recommended Action Switch with mismatch will be declared incompatible. Check the space on the remote switch. Check whether the file is present on active.

%BOOT-5-BOOTTIME_RB_SYNC_FAILED : Failed to sync the SMUs to switch [chars]. Install rollback operation may get affected.

Explanation Rollback point sync failed on newly joined switch.

Recommended Action Switch will not have the rollback points. Check the space on the remote switch.

%BOOT-3-BOOTTIME_SMU_RUN_CORRECTION_FAILED : Failed to correct the SMU mismatch between the running version on active and [chars]. Pls abort the smu installation using 'install abort'

Explanation The system tried to recover from the mismatch, but failed. Engineer intervention is required

Recommended Action Get the 'show install log' and the btrace logs from active and standby

%BOOT-3-BOOTTIME_SMU_MISSING_DETECTED : SMU file [chars] missing and system impact will be unknown

Explanation SMU file not found during bootup.

Recommended Action System will be running without the fix from the SMU

%BOOT-5-BOOTTIME_SMU_TEMP_ACTIVE_DETECTED : SMU file [chars] active temporary... SMU commit is pending

Explanation SMU file is active temporary and 'install commit' needs to be run to make it permanent. Else reload without commit will deactivate this SMU.

%BOOT-5-BOOTTIME_SMU_TEMP_ACTIVE_DETECTED : SMU file [chars] active temporary... SMU commit is pending

Recommended Action Execute 'install commit' before reload to make activate permanent.

%BOOT-5-BOOTTIME_SMU_TEMP_DEACTIVE_DETECTED : SMU file [chars] deactive temporary... SMU commit is pending

Explanation SMU file is deactive temporary and 'install commit' needs to be run to make it permanent. Else reload without commit will activate this SMU again.

Recommended Action Execute 'install commit' before reload to make deactivate permanent.

%BOOT-0-BOOT_COMPLETE_FAIL : Critical boot tasks failed: [chars]

Explanation The system has encountered a critical failure preventing successful boot.

Recommended Action Note the time of the error message and system logs for additional information on the problem. If you are unable to resolve this problem, copy the error message and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.

%BOOT-3-SYSD_STARTFAIL : Failed to launch boot task [chars] ([chars])

Explanation A boot task failed to start.

Recommended Action If the failed boot task is not something that needs to be corrected, do not address this message. If the failed boot task needs to be addressed, install new software and reload the router.

%BOOT-4-BOOT_CORRUPT : Boot Partition corrupted.

Explanation Boot Partition on the router is corrupted. Router booting from bootflash.

Recommended Action Contact Cisco technical support.

%BOOT-3-BOOT_SRC : No space on boot [chars] for packages, using bootflash!

Explanation Failed to boot system from boot partition. Image cannot be booted from the boot partition due to image size constraints. Therefore using bootflash1 partition to boot the system. This is just for informational purpose to the customer and there is no action needed from the user to fix this issue.

%BOOT-3-BOOT_SRC : No space on boot [chars] for packages, using bootflash!

Recommended Action No user action is necessary. This is informative message.

%BOOT-0-BOOT_NOSPACE : WARNING: No space on bootflash [chars] for packages, using system memory! Delete files from bootflash to free memory and reload the system otherwise, system behavior will be unpredictable due to high

Explanation Failed to boot system from bootflash. Image is booting from system memory! Delete files from bootflash to free memory and reload the system otherwise, system behavior will be unpredictable due to high

Recommended Action Delete files from bootflash to free memory and reload the system.

BRI**%BRI-1-NOMEMORY : msgtxt_nomemory**

Explanation The requested operation could not be accomplished because of a low memory condition.

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%BRI-1-INITFAIL : msgtxt_initfail

Explanation The hardware failed to initialize correctly.

Recommended Action Repair or replace the controller.

%BRI-4-NOSWITCH : msgtxt_initfail

Explanation ISDN leased line requires an ISDN switch type configure.

Recommended Action Choose and configure a BRI switch type; if unsure, choose any switch.

%BRI-4-OVERSIZE_D_MTU : Failed to set MTU of [dec] on [chars]. Can't support MTU over [dec].

Explanation User config IP MTU size not supported by BRI hardware.

Recommended Action Reconfigure IP MTU base on the suggested range.

%BRI-4-OVERSIZE_B1_MTU : Failed to set MTU of [dec] on [chars]. Can't support MTU over [dec].

Explanation User config IP MTU size not supported by BRI hardware.

Recommended Action Reconfigure IP MTU base on the suggested range.

%BRI-4-OVERSIZE_B2_MTU : Failed to set MTU of [dec] on [chars]. Can't support MTU over [dec].

Explanation User config IP MTU size not supported by BRI hardware.

Recommended Action Reconfigure IP MTU base on the suggested range.

BSC through CALLTREAT_NOSIGNAL

- [BSC](#)
- [BSHELL](#)
- [BSMRP](#)
- [BSO_SAR_VRF](#)
- [BSTUN](#)
- [BTRACE_MANAGER](#)
- [BUFCAP](#)
- [CALLPROG](#)
- [CALLTREAT](#)
- [CALLTREAT_NOSIGNAL](#)

BSC

%BSC-3-BADPEERTYPE : Peer [chars] is incorrect type

Explanation This message occurs only when BSC local-ack is configured. It indicates the serial interfaces that are using the BSTUN tunnel are configured incorrectly, that is, both have been configured as a secondary.

Recommended Action Reconfigure the serial interfaces correctly to be a primary and secondary pair.

%BSC-2-NOMEM : No buffers available on interface [chars].

Explanation This message indicates that memory in the router was exhausted.

%BSC-2-NOMEM : No buffers available on interface [chars].

Recommended Action	Perform diagnostics on the router to locate the subsystem or interface responsible for consuming memory. The only method that will clear this situation is to reload the router.
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%BSC-3-BADLINESTATE : Line state Tx when receiving [chars] on line [chars]

Explanation	An unexpected receive occurred during a transmission.
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Recommended Action	Verify that the line has been consistently defined in regards to the carrier. If a message report was sent, hard-on stop and start the bisynchronous interface in question.
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BSHELL**%BSHELL-6-BSHELL_UPGRADE_DETECTED : [[chars]] New software detected. Bshell instance restarting.**

Explanation	The diagnostic shell detected a new installation of diagnostic shell software. The diagnostic shell instance exits and restarts with the new software version.
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Recommended Action	This is an informational message only. No action is required.
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%BSHELL-6-SMAN_CONNECTION_LOST : [[chars]] Shell Manager connection lost

Explanation	The diagnostic shell was disconnected from the Shell Manager and the Shell Manager process is no longer available. This type of error is experienced if a software upgrade is in progress.
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Recommended Action	This is an informational message only. No action is required. Once the Shell Manager process has restarted, the diagnostic shell will reconnect.
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%BSHELL-6-SMAN_CONNECTION_FAILED : [[chars]] Shell Manager connect failed: [chars]

Explanation	The diagnostic shell is unable to connect to the Shell Manager, possibly because the Shell Manager process is no longer available. This type of error is experienced if a software upgrade is in progress.
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Recommended Action	No action is required. Once the Shell Manager process has restarted, the diagnostic shell will reconnect.
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%BSHELL-6-SESSION_STARTED : [[chars]] bshell session started for user '[chars]'

Explanation	A user has started a diagnostic shell session.
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Recommended Action	This is an informational message only. No action is required.
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%BSHELL-6-SESSION_ENDED : [[chars]] bshell session ended for user '[chars]'

Explanation A user has exited a diagnostic shell session.

Recommended Action This is an informational message only. No action is required.

%BSHELL-3-EXEC_PREPARE_FAIL : [[chars]] Command execution prepare failed

Explanation The diagnostic shell was unable to prepare the requested interactive command for execution. The command failed.

Recommended Action Check the diagnostic shell trace file for more information on the underlying failure.

%BSHELL-3-EXEC_FAIL : [[chars]] Command execution failed

Explanation The diagnostic shell was unable to execute the requested interactive command.

Recommended Action Check the diagnostic shell trace file for more information on the underlying failure.

%BSHELL-3-EXEC_DIRECTIVE_FAIL : [[chars]] Command directive execution failed: [chars]

Explanation The diagnostic shell was unable to execute the requested directive.

Recommended Action Check the diagnostic shell trace file for more information on the underlying failure.

%BSHELL-3-TERMINAL_OPERATION_FAIL : [[chars]] Terminal [chars] [chars] failed: [chars]

Explanation The diagnostic shell was unable to get or set terminal properties. An attempt to change or act on terminal properties failed.

Recommended Action Restart the diagnostic shell and reattempt the failed operation

%BSHELL-3-GET_HOSTNAME_FAIL : [[chars]] Get hostname failed: [chars]

Explanation The diagnostic shell was unable to read the hostname from the kernel.

Recommended Action No action is required. The diagnostic shell periodically checks for hostname changes to set the user prompt.

%BSHELL-3-SEND_MESSAGE_FAILED : [[chars]] Send message [chars] failed: [chars]

Explanation	The diagnostic shell was unable to send a message to the Shell Manager.
Recommended Action	Retry the operation or start a new diagnostic shell session.

%BSHELL-3-RECEIVE_MESSAGE_FAILED : [[chars]] Receive message [chars] failed: [chars]

Explanation	The diagnostic shell was unable to receive a message from the Shell Manager
Recommended Action	Retry the operation or start a new diagnostic shell session.

BSMRP

%BSMRP-0-CHASFS_LOCATION_TRANSLATE : Failed to translate a location to a chasfs object name because [chars]

Explanation	The backplane switch manager failed to translate a location to a chasfs object name.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-CHASFS_OBJECT_CREATE : Failed to create chassis filesystem object [chars] because [chars]

Explanation	The hardware failed to create a chassis filesystem object.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-CHASFS_PROPERTY_CREATE : Failed to create chassis filesystem object [chars] property [chars] because [chars]

Explanation	A chassis filesystem property was not properly created.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-CHASFS_PROPERTY_GET : Failed to read chassis filesystem object [chars] property [chars] because [chars]

Explanation	A chassis filesystem property was not properly read by the system.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-CHASFS_PROPERTY_SET : Failed to write chassis filesystem object [chars] property [chars] because [chars]

Explanation	A chassis filesystem property failed to write.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-RESOLVE_FRU : Failed to determine [chars] card because [chars]

Explanation	The router failed to determine a FRU state.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-EVENT_LIBRARY : An event facility initialization or maintenance function failed because [chars]

Explanation	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-PEER_TABLE : A peer table initialization or maintenance function failed because [chars]

Explanation	A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-3-PEER_INVALID : A peer table entry has invalid state.

Explanation	A peer table entry has an invalid state. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-UIPEER_CREATE : Failed to create user interface peer.

Explanation	The system failed to create a user interface peer.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-SLOTS_INITIALIZATION : Failed to initialize chassis slot information because [chars]

Explanation	The system failed to initialize the chassis slot information.
Recommended Action	Note the time of the error message and examine the logs for IDPROM or software errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-SIGNAL_INITIALIZATION : Failed to initialize signals because [chars]

Explanation	The system failed to initialize signals.
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%BSMRP-0-SIGNAL_INITIALIZATION : Failed to initialize signals because [chars]

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%BSMRP-0-SERVICES_INITIALIZATION : Failed to initialize general application services because [chars]

Explanation	The system failed to initialize application services.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-MESSAGE_REGISTER : Failed to register with active RP because [chars]

Explanation	The active RP failed to register.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-MESSAGE_RESPONSE : An invalid message response was received because [chars]

Explanation	An invalid message response was received. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-CHASSIS_TYPE : The chassis type [chars] is invalid.

Explanation	The chassis type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.
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%BSMRP-0-CHASSIS_TYPE : The chassis type [chars] is invalid.

Recommended Action	Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%BSMRP-0-PLATFORM_FAMILY_TYPE : The platform family type [chars] is invalid.

Explanation	The platform family type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.
Recommended Action	Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-CHASSIS_STATUS : Failed to get chassis hardware status because [chars]

Explanation	The system failed to get the chassis hardware status.
Recommended Action	Note the time of the error message and examine the logs for CPLD driver or hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-3-CHASFS_OBJECT_DESTROY : Failed to destroy chassis filesystem object [chars] because [chars]

Explanation	A chassis filesystem object that should have been destroyed was not destroyed.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-3-CHASFS_PROPERTY_DESTROY : Failed to destroy chassis filesystem property [chars]/[chars] because [chars]

Explanation	A chassis filesystem property that should have been destroyed was not destroyed.
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%BSMRP-3-CHASFS_PROPERTY_DESTROY : Failed to destroy chassis filesystem property [chars]/[chars] because [chars]

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-CHASFS_OBJECT_WATCH : Failed to watch chassis filesystem object [chars] because [chars]

Explanation A chassis filesystem object was not watched because of the reason stated in the error message.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-CHASFS_OBJECT_NOT_PRESENT : Expected chassis filesystem object [chars] not present.

Explanation A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-CHASFS_PROPERTY_NOT_PRESENT : Expected chassis filesystem object [chars] property [chars] not present.

Explanation A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-INVALID_ARGUMENT : A system function was given an invalid argument.

Explanation A system function was given an invalid argument. This is due to a software defect.

%BSMRP-0-INVALID_ARGUMENT : A system function was given an invalid argument.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-SLOT_INVALID : A card absolute slot number cannot be determined for this chassis type

Explanation An absolute slot number is invalid. This could be due to a software defect or incorrect IDPROM content.

Recommended Action Note the time of the error message and examine the logs for IDPROM or software errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-IPC_INITIALIZATION : IPC initialization failed because [chars]

Explanation IPC initialization failed. This could be due to a software defect or system resource exhaustion.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-IPC_CONNECT_MASTER : IPC connection to the active RP failed because [chars]

Explanation IPC connection to the active RP failed. This could be due to a software defect or system resource exhaustion.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-IPC_CONNECTION_INVALID : An IPC connection has invalid state.

Explanation An IPC connection has an invalid state. This could be due to a software defect or system resource exhaustion.

%BSMRP-0-IPC_CONNECTION_INVALID : An IPC connection has invalid state.

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%BSMRP-0-MQIPC_INITIALIZATION : MQIPC initialization failed because [chars]

Explanation	MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-MQIPC_ADVANCE : Failed to advance MQIPC queue because [chars]

Explanation	The MQIPC initialization failed.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-0-MESSAGE_RELAY : Failed to relay a message because [chars]

Explanation	Failed to relay a message. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%BSMRP-3-BSM_SERVICE_SETUP : Failed to setup the backplane switch manager (bsm) service

Explanation	Backplane Switch Manager failed to set itself up as a proxy to the backplane switch.
Recommended Action	Collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

BSO_SAR_VRF**%BSO_SAR_VRF-3-API_FAILED : NULL**

Explanation	A call to the API of another component has indicated an error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

BSTUN**%BSTUN-4-DUPROUTE : Cannot define duplicate route on thesame group**

Explanation	This route command is defined on another interface belonging to thesame group. Cannot define duplicate route on the same group
Recommended Action	Consider defining a new group and moving this interface onto thatgroup

%BSTUN-4-PEERSTATE : Peer [chars], wrong state [dec] ([dec])

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BSTUN-3-BADMAGIC : [chars]: wrong magic, mine [hex], theirs [hex] ([dec])

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BSTUN-3-BADMAGICTCP : [chars]: peer [chars], wrong magic, mine [hex], theirs [hex]

Explanation	An internal software error occurred.
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%BSTUN-3-BADMAGICTCP : [chars]: peer [chars], wrong magic, mine [hex], theirs [hex]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BSTUN-3-BADLENOP : [chars]: bad len or unknown op, op [dec], len [dec]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BSTUN-6-TCPPEERSHUT : [chars] [chars], [IP_address]([dec])

Explanation This route closed a BSTUN connection with a remote peer.

Recommended Action Examine this router to see why it closed this connection with this peer. This can be caused by normal events, such as reconfiguration.

%BSTUN-3-CONNILLSTATE : CONN: Peer [chars], illegal state [dec]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BSTUN-3-BADCONN : CONN: bad connection ([dec]), peer: [chars]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BSTUN-6-ERR : [chars]: [chars]: [chars], op [hex], len [dec]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BSTUN-3-SENDPUNT : [chars]: sent [chars] to [chars]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BSTUN-4-SENDPUNTTCP : [chars]: sent [chars] to ([[int]])[IP_address]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BSTUN-6-OPENING : CONN: opening peer [chars], [dec]

Explanation A connection attempt to a remote peer completed successfully (OPENED, PASSIVE-OPEN) or is in the process of being opened (OPENING). This is good, expected behavior.

Recommended Action No action is required.

%BSTUN-6-CONNOPENFAIL : CONN: peer [chars] open failed, [chars] [[int]]

Explanation An attempt to connect to a remote TCP BSTUN peer failed.

%BSTUN-6-CONNOPENFAIL : CONN: peer [chars] open failed, [chars] [[int]]

Recommended Action	Verify that the remote peer is accessible from this router, that it is running software capable of supporting BSTUN, and that it is configured correctly.
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%BSTUN-3-BADPASSIVEOPEN : passive open from [IP_address]([dec]) -> [dec] failed

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BSTUN-6-PASSIVEOPEN : passive open [IP_address]([dec]) -> [dec]

Explanation	A connection attempt to a remote peer completed successfully (OPENED, PASSIVE-OPEN) or is in the process of being opened (OPENING). This is good, expected behavior.
Recommended Action	No action is required.

%BSTUN-6-TCPFINI : peer [chars] closed [previous state [chars]]

Explanation	A remote peer closed a BSTUN connection with this router.
Recommended Action	Examine the other router to see why it closed this connection with this peer. This can be caused by normal events, such as reconfiguration.

%BSTUN-6-PEERSHUTDOWN : shutting down peer [chars] on [chars]

Explanation	A connection to a remote peer is being shut down. This is typically the result of user intervention in BSTUN reconfiguration or disabling. This is good, expected behavior.
Recommended Action	No action is required.

%BSTUN-6-OPENED : [chars]: peer [chars] opened, [previous state [chars]]

Explanation	A connection attempt to a remote peer completed successfully (OPENED, PASSIVE-OPEN) or is in the process of being opened (OPENING). This is good, expected behavior.
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%BSTUN-6-OPENED : [chars]: peer [chars] opened, [previous state [chars]]

Recommended Action No action is required.

%BSTUN-6-RECONNECT : PHDR: reconnect from peer [chars]

Explanation A remote peer reestablished a connection to this router.
Recommended Action No action is required.

%BSTUN-2-NOBUF : Interface [chars], no buffer available to [chars]

Explanation A memory shortage existed at the time that the configuration command was issued. This condition is rare and, under normal conditions, temporary.
Recommended Action Reconfigure the BSTUN group. If memory shortages persist, call your technical support representative for assistance.

%BSTUN-3-NOGRPDEF : No bstun group defined on interface [chars]

Explanation An action was taken that requires the previous definition of a BSTUN group number.
Recommended Action Make sure encapsulation bstun and the bstun group have been defined for the interface.

%BSTUN-3-UNKPROTOEV : Unknown protocol event [dec] on interface [chars]

Explanation An event passed to the BSTUN layer for processing could not be decoded.
Recommended Action Perform a hard restart on the indicated interface.

%BSTUN-6-PROCEXIT : Process terminating. Due to signal [dec]. Subcode [dec]. Address [hex].

Explanation The BSTUN background process is terminating.
Recommended Action If this message appears while you are unconfiguring BSTUN, no action is required. Otherwise, record all the displayed values and any other BSTUN error messages, and contact your technical support representative.

%BSTUN-3-NOPEER : No peer configured to route frame with destination address [chars] (bstun group [dec])

Explanation	A BSTUN route has not been configured for the frame with a destination address.
Recommended Action	If this message appears while you are debugging bstun, it indicates that no specific bstun route has been configured for the frames being received with the device address listed in the packet debug trace. You may choose to configure a bstun route, or ignore this message.

%BSTUN-3-IFNOTSETUP : Could not setup interface for protocol [chars]

Explanation	BSTUN was unable to start the interface for handling the specified protocol traffic.
Recommended Action	If this message appears while you are configuring BSTUN, check for other system errors, such as no available memory in the router, or the interface shutting down. If no obvious problem can be detected, record all the displayed values and any other BSTUN error messages, and contact your technical support representative.

BTRACE_MANAGER

%BTRACE_MANAGER-6-BTRT_LOG_MSG : Btrace Rotate Error: [chars]Btrace Export Info: [chars]

Explanation	Btrace Rotate error message.Btrace export info
Recommended Action	No action required

BUFCAP

%BUFCAP-6-CAPPOINT_EXISTS : [chars]

Explanation	EEM Policy provisioning by Auto-deploy is successful.
Recommended Action	No action is required.

%BUFCAP-6-ENABLE : Capture Point [chars] enabled.

Explanation	Specified capture point has been enabled.
Recommended Action	No action is required.

%BUFCAP-6-DISABLE : Capture Point [chars] disabled.

Explanation	Specified capture point has been disabled.
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%BUFCAP-6-DISABLE : Capture Point [chars] disabled.

Recommended Action No action is required.

%BUFCAP-6-DISABLE_ASYNC : Capture Point [chars] disabled. Reason : [chars]

Explanation Specified capture point has been disabled due to asynchronous event.

Recommended Action No action is required.

%BUFCAP-6-CREATE : Capture Point [chars] created.

Explanation Specified capture point has been created.

Recommended Action No action is required.

%BUFCAP-6-DELETE : Capture Point [chars] deleted.

Explanation Specified capture point has been deleted.

Recommended Action No action is required.

%BUFCAP-6-CAPPOINT_EXISTS : Capture Point [chars] already exists.

Explanation A Capture point by the specified name already exists.

Recommended Action No action is required.

%BUFCAP-5-TIME_EXCEEDED : Capture Point [chars] disabled. The associated capture buffer's ([chars]) configured duration ([dec] sec(s)) exceeded.

Explanation The duration of the capture exceeds the maximum configured duration associated with the capture buffer. The associated capture point will be disabled.

Recommended Action No action is required.

%BUFCAP-5-ELEM_TRIMMED : Element trimmed as there was not enough space in capture buffer [chars]. Original Size: [dec]; Copied Size: [dec].

Explanation The linear buffer does not have enough space left. Hence the packet was trimmed. This is the final element in the buffer.

Recommended Action No action is required.

%BUFCAP-5-BUFFER_FULL : Linear Buffer associated with capture buffer [chars] is full.

Explanation The linear buffer is full. Further capture would be halted.

Recommended Action No action is required.

%BUFCAP-5-MAX_ELEMS : Capture point [chars] disabled. The number of elements in associated capture buffer's ([chars]) has reached the maximum configured value ([dec] elements).

Explanation The buffer contains the maximum configured number of packets. The associated capture point will be disabled.

Recommended Action No action is required.

%BUFCAP-3-NO_MEM : Not enough memory available for Buffer Capture Infrastructure

Explanation The buffer capture infrastructure could not get the memory it requested.

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%BUFCAP-3-INVALID_CAPPOINT : Invalid capture point.

Explanation Some operation was attempted on a invalid capture point.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BUFCAP-3-ACTIVE_CAPPOINT : Invalid operation was attempted on an active capture point [chars].

Explanation Invalid operation was attempted on an active capture point.

%BUFCAP-3-ACTIVE_CAPPOINT : Invalid operation was attempted on an active capture point [chars].

Recommended Action Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, copy the error message exactly as it appears on the console or in the system log, enter the **show monitor capture point all** and **show tech** commands and contact your Cisco technical support representative, providing the representative with the gathered information.

%BUFCAP-3-INVALID_PARAM : Invalid parameters

Explanation Invalid parameters were passed in to a buffer capture infrastructure function.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%BUFCAP-3-EXPORT_BUFFER : Error exporting buffer [chars] to location [chars]

Explanation The Buffer Capture Infrastructure is not able to export the buffer to the specified location

Recommended Action Please check if a valid destination was specified. Or if a file by the same name already exists, rename the dump file or remove the existing file from the destination location. If those actions do not resolve the problem, LOG_STD_ACTION

%BUFCAP-6-RATE_LIMIT : [dec] packets from capture point [chars] dropped due to rate limiting.

Explanation Rate limiting has been enabled and the number of packets exceed the allowed configured value.

Recommended Action

%BUFCAP-6-TOO_BIG : The packet to be dumped is bigger than the buffer size of capture buffer [chars]. Packet of size [dec] dropped.

Explanation The packet is bigger than the configured/default buffer size.

Recommended Action Change the parameters of the capture buffer. You can try to increase the size of the buffer or limit the number of bytes copied.

%BUFCAP-3-NOSUCHCAPTURE : Error finding capture point.

Explanation	No such capture point exists
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CALLPROG

%CALLPROG-3-API_INIT : api front init failed for [chars]

Explanation	Failed to init Call Progress Notification support structures for APIs.
Recommended Action	System running low on available memory.

%CALLPROG-3-API_USE : no free front-end q elt's; dropping api call info (func=[dec])

Explanation	Failed to get free element from front end queue.
Recommended Action	Platform requires additional free elements to properly function. Stop using Call Progress Notification applications. Call TAC to report the problem

CALLTREAT

%CALLTREAT-3-HIGH_CPU_ONE_MIN_LOAD : System experiencing high cpu utilization over one minute interval. Processing for callID([dec]) is rejected.

Explanation	Based on the average CPU utilization over a 60 second interval, the system does not have enough CPU resources available to accept a new call. The specified call was rejected.
Recommended Action	Ensure that the call setup rate is within the supported capacity of this gateway. Enter the show proc cpu command to see which processes are consuming the most CPU capacity and, if appropriate, reduce other system activity to ease CPU demands. By default, the system will reject calls if the five-second CPU utilization on the gateway exceeds 98%.

%CALLTREAT-3-HIGH_CPU_5SEC_LOAD : System experiencing high cpu utilization. Processing for callID([dec]) is rejected.

Explanation	System does not have enough CPU resources available to accept a new call. The specified call was rejected.
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%CALLTREAT-3-HIGH_CPU_5SEC_LOAD : System experiencing high cpu utilization. Processing for callID([dec]) is rejected.

Recommended Action Ensure that the call setup rate is within the supported capacity of this gateway. Enter the **show proc cpu** command to see which processes are consuming the most CPU capacity and, if appropriate, reduce other system activity to ease CPU demands. By default, the system will reject calls if the five-second CPU utilization on the gateway exceeds 89%. The default value can be overridden by enabling call treatment and entering the **call threshold global cpu-5sec** command.

%CALLTREAT-3-HIGH_CPU_AVERAGE_LOAD : System experiencing high average cpu utilization. Processing for callID([dec]) is rejected.

Explanation Based on the average CPU utilization over a 60-second interval or an interval configured through the **call threshold poll-interval** command, the system does not have enough CPU resources available to accept a new call. The specified call was rejected.

Recommended Action Ensure that the call setup rate is within the supported capacity of this gateway. Check to see if the current call setup rate is supported on this gateway. Enter the **show proc cpu** command to see which processes are consuming the most CPU capacity and, if appropriate, reduce other system activity to ease CPU demands. By default, the system will reject calls if the five-second CPU utilization on the gateway exceeds 98%. The default value can be overridden by enabling call treatment and entering the **call threshold global cpu-avg** command.

%CALLTREAT-3-HIGH_IOMEM_USAGE : System running low on I/O memory. Processing for callID([dec]) is rejected.

Explanation The system does not have enough free I/O memory to accept a new call. The specified call was rejected.

Recommended Action Ensure that the gateway has the recommended amount of I/O memory for this Cisco IOS feature set and version. Enter the **show mem** and **show proc mem** commands to see which processes are consuming the most memory. Check to see if the memory usage is appropriate for these processes and, if so, reduce other system activity to ease CPU demands. The high and low thresholds for I/O memory utilization can be configured by enabling call treatment and entering the **call threshold global io-mem** command.

%CALLTREAT-3-HIGH_PROCMEM_USAGE : System running low on processor memory. Processing for callID([dec]) is rejected.

Explanation The system does not have enough free processor memory to accept a new call. The specified call was rejected.

%CALLTREAT-3-HIGH_PROCMEM_USAGE : System running low on processor memory. Processing for callID([dec]) is rejected.

Recommended Action Ensure that the gateway has the recommended amount of processor memory for this Cisco IOS feature set and version. Enter the **show mem** and **show proc mem** commands to see which processes are consuming the most memory. Check to see if the memory usage is appropriate for these processes and, if so, reduce other system activity to ease CPU demands. The high and low thresholds for processor memory utilization can be configured by enabling call treatment and entering the **call threshold global proc-mem** command.

%CALLTREAT-3-HIGH_TOTAL_CALLS : High call volume. Processing for callID([dec]) is rejected.

Explanation The system is experiencing a high call volume. There are not enough resources to accept a new call. The specified call was rejected.

Recommended Action Disable call threshold, modify the call threshold global high and low values, or investigate the cause of the high resource utilization. The high and low thresholds for total number of calls can be configured by enabling call treatment and entering the **call threshold global proc-mem** command.

%CALLTREAT-3-HIGH_MEMORY_USAGE : System running low on memory. Processing for callID([dec]) is rejected.

Explanation The system does not have enough free memory to accept a new call. The specified call was rejected.

Recommended Action Ensure that the gateway has the recommended amount of memory for this Cisco IOS feature set and version. Enter the **show mem** and **show proc mem** commands to see which processes are consuming the most memory. Check to see if the memory usage is appropriate for these processes and, if so, reduce other system activity to ease CPU demands. By default, the system will reject calls if there is less than 2% free processor memory on the gateway. This value can be overridden by enabling call treatment and entering the **call threshold global total-mem** command.

CALLTREAT_NOSIGNAL

%CALLTREAT_NOSIGNAL-3-HIGH_CPU_ONE_MIN_LOAD : System experiencing high cpu utilization over one minute interval.

Explanation Based on the average CPU utilization over a 60 second interval, the system does not have enough CPU resources available.

Recommended Action Ensure that the call setup rate is within the supported capacity of this gateway. Enter the **show proc cpu** command to see which processes are consuming the most CPU capacity and, if appropriate, reduce other system activity to ease CPU demands. By default, the system will reject resource allocation if the five-second CPU utilization on the gateway exceeds 98%.

%CALLTREAT_NOSIGNAL-3-HIGH_CPU_5SEC_LOAD : System experiencing high cpu utilization.

Explanation	System does not have enough CPU resources available to allocate a new resource.
Recommended Action	Ensure that the call setup rate is within the supported capacity of this gateway. Enter the show proc cpu command to see which processes are consuming the most CPU capacity and, if appropriate, reduce other system activity to ease CPU demands. By default, the system will reject calls if the five-second CPU utilization on the gateway exceeds 89%. The default value can be overridden by enabling call treatment and entering the call threshold global cpu-5sec command.

%CALLTREAT_NOSIGNAL-3-HIGH_CPU_AVERAGE_LOAD : System experiencing high average cpu utilization.

Explanation	Based on the average CPU utilization over a 60-second interval or an interval configured through the call threshold poll-interval command, the system does not have enough CPU resources available to accept a new call.
Recommended Action	Ensure that the call setup rate is within the supported capacity of this gateway. Check to see if the current call setup rate is supported on this gateway. Enter the show proc cpu command to see which processes are consuming the most CPU capacity and, if appropriate, reduce other system activity to ease CPU demands. By default, the system will reject calls if the five-second CPU utilization on the gateway exceeds 98%. The default value can be overridden by enabling call treatment and entering the call threshold global cpu-avg command.

%CALLTREAT_NOSIGNAL-3-HIGH_IOMEM_USAGE : System running low on I/O memory.

Explanation	The system does not have enough free I/O memory.
Recommended Action	Ensure that the gateway has the recommended amount of I/O memory for this Cisco IOS feature set and version. Enter the show mem and show proc mem commands to see which processes are consuming the most memory. Check to see if the memory usage is appropriate for these processes and, if so, reduce other system activity to ease CPU demands. The high and low thresholds for I/O memory utilization can be configured by enabling call treatment and entering the call threshold global io-mem command.

%CALLTREAT_NOSIGNAL-3-HIGH_PROCMEM_USAGE : System running low on processor memory.

Explanation	The system does not have enough free processor memory.
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%CALLTREAT_NOSIGNAL-3-HIGH_PROCMEM_USAGE : System running low on processor memory.

Recommended Action	Ensure that the gateway has the recommended amount of processor memory for this Cisco IOS feature set and version. Enter the show mem and show proc mem commands to see which processes are consuming the most memory. Check to see if the memory usage is appropriate for these processes and, if so, reduce other system activity to ease CPU demands. The high and low thresholds for processor memory utilization can be configured by enabling call treatment and entering the call threshold global proc-mem command.
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%CALLTREAT_NOSIGNAL-3-HIGH_TOTAL_CALLS : High call volume.

Explanation	The system is experiencing a high call volume.
Recommended Action	Disable call threshold, modify the call threshold global high and low values, or investigate the cause of the high resource utilization. The high and low thresholds for total number of calls can be configured by enabling call treatment and entering the call threshold global proc-mem command.

%CALLTREAT_NOSIGNAL-3-HIGH_MEMORY_USAGE : System running low on memory.

Explanation	The system does not have enough free memory to allocated new resource.
Recommended Action	Ensure that the gateway has the recommended amount of memory for this Cisco IOS feature set and version. Enter the show mem and show proc mem commands to see which processes are consuming the most memory. Check to see if the memory usage is appropriate for these processes and, if so, reduce other system activity to ease CPU demands. By default, the system will reject calls if there is less than 2% free processor memory on the gateway. This value can be overridden by enabling call treatment and entering the call threshold global total-mem command.

CALL_CONTROL through CD_SW_IPSEC_SHIM

- [CALL_CONTROL](#)
- [CAPWAP_IMGDWNLD_TRACE_MESSAGE](#)
- [CAPWAP_REASS_PROXY](#)
- [CASA](#)
- [CBAC_C3PL](#)
- [CBUS](#)
- [CCE_PI_PD](#)
- [CCH323](#)

- [CD_FFP_IPSEC_PROXY](#)
- [CD_SW_IPSEC_SHIM](#)

CALL_CONTROL

%CALL_CONTROL-6-MAX_CONNECTIONS : Maximum number of connections reached for dial-peer [dec]

Explanation	The dial-peer in question has reached its maximum connections configurations. No more calls will be taken on this dial-peer.
Recommended Action	No action is required, however, to increase the number of connections allowed to this dial peer see 'maximum connections' configuration under the dial-peer configuration mode.

%CALL_CONTROL-6-APP_NOT_FOUND : Application [chars] in dial-peer [dec] not found. Handing callid [dec] to the alternate app [chars].

Explanation	The inbound dial-peer points to an unavailable application. The call is being handed to the alternate application or is rejected.
Recommended Action	Reconfigure the dial-peer to have a valid application name or verify the application is accessible at its location.

%CALL_CONTROL-6-APP_NOT_EXIST : The requested application does not exist any more. The event for the callid [dec] is being discarded.

Explanation	The event points to a session application which does not exist any more. The event is being discarded.
Recommended Action	No action is required for the users

%CALL_CONTROL-6-NUMBERING_TYPE_NO_MATCH : The called number numbering type did not match The event for the callid [dec] is being discarded.

Explanation	The event points to a session application which does not exist any more. The event is being discarded.
Recommended Action	No action is required for the users

%CALL_CONTROL-3-NORAWMSG : no free raw msg structure available from [chars] for signaling message

Explanation	There were no rawmsg structures remaining in the system pools to alert the router of a voice or signaling event.
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%CALL_CONTROL-3-NORAWMSG : no free raw msg structure available from [chars] for signaling message

Recommended Action	Check that the voice port for which the event was reported is still operational. If not, clear the voice port.
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%CALL_CONTROL-3-CCAPI_DB_ERR : ccapi database error

Explanation	Internal CCAPI conference or call record database error. This message represents an internal software fault and may manifest itself as dropped or hung calls.
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Recommended Action	Contact your technical support representative, include the full text of the error message.
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%CALL_CONTROL-6-CALL_LOOP : The incoming call has a global identifier already present in the list of currently handled calls. It is being refused.

Explanation	The incoming call has a global identifier already present in the list of currently handled calls. It means that the voice gateway has detected a loop in the call route.
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Recommended Action	Please check your configuration.
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%CALL_CONTROL-6-UNKNOWN_EXT_AGENT_RESET_ATTEMPT : Request to reset an unknown external agent (ID [dec]) attempted. Attempt ignored.

Explanation	A request to reset an external agent (eg H323 Gatekeeper or MGCP CA etc) was attempted but IOS doesn't know how to process the request. This is not usually a problem for the router. It does however mean that the external agent for whom the reset was intended never got it.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CALL_CONTROL-3-INVALID_PARAMETER : An invalid parameter is passed to the function

Explanation	This is due to coding error.
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Recommended Action	No action is required for the users
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%CALL_CONTROL-3-STAT_MEMORY_CORRUPTED : Memory corruption detected in memory=[hex] allocated for RTCP statistic

Explanation This is due to coding error

Recommended Action No action is required for the users

CAPWAP_IMGDOWNLD_TRACE_MESSAGE

%CAPWAP_IMGDOWNLD_TRACE_MESSAGE-3-CAPWAPIMGDOWNLD_GEN_ERR : %% Error: [chars]

Explanation Improper arguments or config

Recommended Action Arguments to be changed

%CAPWAP_IMGDOWNLD_TRACE_MESSAGE-3-CAPWAPIMGDOWNLD_EWC_AP_GEN_ERR : %% Error: [chars]

Explanation Network not ready for this install command

Recommended Action Try again later

%CAPWAP_IMGDOWNLD_TRACE_MESSAGE-6-CAPWAPIMGDOWNLD_EWC_AP_NO_SPACE : corefiles and/or tracelogs have been deleted, [dec] Bytes disk space is freed No sufficient space on bootflash for upgrade. Please do 'dir bootflash:' to list and delete unwanted files. Please do 'install remove profile default'.

Explanation corefiles and tracelogs have been deletedNo sufficient space on flash to hold the image, please do some cleanup on bootflash:

Recommended Action Try 'install remove profile default'

%CAPWAP_IMGDWNLD_TRACE_MESSAGE-6-CAPWAPIMGDWNLD_EWC_AP_WRONG_STATE : AP Event: Downloaded AP image [chars] was deletedAP Event: Downloaded AP image [chars] without image node was deletedList Event: [chars]AP Event: External Download complete and deleted for AP image [chars] without image nodeConfigured image download profile downloads AP image version [chars] requires AP image version [chars] to join this controllerEWC-AP Event: EWC-AP Controller image [chars] mmaped ... Timer started to unmapEWC-AP Event: EWC-AP Controller image [chars] already mmaped in memory ... Timer to unmap resetEWC-AP Event: EWC-AP Controller image [chars] unmapped from memory ... Timer to unmap StoppedConfigured image download profile failed to download version.info check network and server configurationFailed to start downloading AP image version with error [chars]AP Event: Predownload Total AP count [int], predownloaded AP count [int]Sending master-going-down message to other APs so that they backoff for 5 minutes for existing active controller to be active after reloadNetwork upgrade is not in correct state. Please do 'install remove profile default', and try again

Explanation Downloaded AP image deletedDownloaded AP image deleted from RAM diskEWC-AP Master/Invalid Master AP list insertion/deletion/reelection EventsDownloaded AP image deleted from RAM diskConfigured image download profile does not work for AP joinEWC-AP Image MMaped in MemoryEWC-AP Image MMaped in MemoryEWC-AP image unmapped from memoryConfigured image download profile may not be able to download the correct AP imagesConfigured image download profile may not be able to download the correct AP imagesPredownload Total and Completed AP count mismatchedTo prevent EWC-AP-capable AP's from becoming EWC-AP controller when current controller goes through reload, send master-going-down message to them so they wait 5 minutes for the current controller to reboot and become controller againNetwork Upgrade is not in correct state. Please cancel and try again

Recommended Action Try 'install remove profile default'

CAPWAP_REASS_PROXY

%CAPWAP_REASS_PROXY-3-PROXY_IPC_MEM_INIT_FAILED :

Explanation Initialization of Capwap Reassembly memory pool failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CAPWAP_REASS_PROXY-3-PROXY_IPC_MEM_EXTEND_FAILED :

Explanation Increasing of Capwap Reassembly memory pool failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CAPWAP_REASS_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Explanation	IPC handler initialization failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CAPWAP_REASS_PROXY-4-PROXY_IPC_INVALID_MSG : [hex]

Explanation	Received an invalid IPC messages subtype.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CASA**%CASA-3-BADVER : Incoming packet is CASA v[dec], this router is v[dec]**

Explanation	A packet was received for the wrong version of CASA
Recommended Action	Verify that all CASA devices are running the same version of the protocol

%CASA-2-NOMEM : Out of memory: [chars]

Explanation	CASA failed to allocate memory.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%CASA-4-BADMSG : Message parsing error: [chars]

Explanation	Failed to parse an incoming packet
Recommended Action	If this message is occurring repeatedly, enable 'debug ip casa error' and record the output, call your Cisco technical support representative, and provide the gathered information.

%CASA-4-SECURITY_FAIL : [chars] security information in CASA packet.

Explanation	Security check failed.
Recommended Action	Make sure all CASA systems are configured with the same password.

%CASA-4-UNEXPECTED : Unexpected error: [chars]

Explanation	An unexpected error occurred while performing CASA operation
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CASA-4-WARNING : Unexpected condition: [chars]

Explanation	An unexpected condition was detected while performing CASA operation
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CASA-4-PORTCHANGE : Wildcard overlap: [chars]

Explanation	A CASA wildcard, received on one port, has been overwritten by a service manager sending to another port. This message may appear once if you are migrating your service to a new forwarding-agent port,if it recurs, it could indicate a configuration problem.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

CBAC_C3PL**%CBAC_C3PL-4-OBJ_CREATE : Firewall [chars] object [chars] creation failed in the data plane, error [dec]**

Explanation The notification of the creation of a firewall object e.g. a parameter map, has failed to update the data plane and as such the application of the parameters contained within the object will not be applied to the data plane. It is also possible that the common classification may fail to locate and bind to the object rendering the configuration incomplete in terms of application.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show memory** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBAC_C3PL-4-OBJ_DELETE : Firewall [chars] object [chars] deletion failed in the data plane, error [dec]

Explanation The notification of the deletion of a firewall object e.g. a parameter map, has failed to update the data plane and as such the application of the parameters contained within the object may continue to be applied to the data plane.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show memory** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBAC_C3PL-4-OBJ_MODIFY : Firewall [chars] object [chars] modification failed in the data plane, error [dec]

Explanation The notification of the modification of a firewall object e.g. a parameter map, has failed to update the data plane and as such the application of the parameters contained within the object will not be applied to the data plane.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show memory** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBAC_C3PL-3-INIT : Firewall data plane updates are disabled

Explanation	The firewall notification of objects to the data plane has failed to startup and as such data plane updates are disabled.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show registry brief command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CBUS

%CBUS-4-RSETFAIL : Interface [chars] failed to reset properly in [chars], code [hex]

Explanation	An interface reset command failed. This may be a software or hardware problem.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-OUTHUNG : [chars]: tx%c output hung (%-04x - [chars]), [chars]

Explanation	A transmission attempt on an interface failed. The interface might not be attached to a cable or there might be a software problem.
Recommended Action	Check that the interfaces are all connected to the proper cables. If that is not the problem, call your technical support representative.

%CBUS-4-NOCOOKIE : [chars]-[dec] controller missing configuration data - disabled

Explanation	The controller type was derived from a hardware probe. The controller number indicates the ciscoBus relative slot number. This is a hardware error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-TESTFAIL : Unit [dec], failed [chars] test - interface disabled

Explanation	A hardware component failed an internal diagnostic test.
Recommended Action	Check switch settings on the interface cards. Check for proper unit numbers. Reset the cards. Replace the malfunctioning device.

%CBUS-3-DAUGHTER : Unit [dec], daughter controller [dec] failed [chars] test - interface disabled

Explanation	A hardware component failed an internal diagnostic test. Test output and descriptions of ranges follow: Unit [dec] (ranges 0-14): Indicates the Multibus jumper setting for the ciscoBus controller, or in the Cisco 7000, a slot number. daughter controller [dec] (ranges 0-3): Indicates the ciscoBus relative slot number (0 to 3, or in the Cisco 7000, 0 to 4) of the daughter card that failed the test. failed [chars] test ([chars]= memd read, memd write):If the failed test was memd read, the processor was able to write to shared ciscoBus buffer memory from the ciscoBus registers, but was unable to read back that memory through special commands to the daughter card. If the failed test was memd write, writes to the memory device through the daughter card were not verified successfully with reads through the ciscoBus controller. The daughter card under test responds successfully to some commands (otherwise the software would have received a DAUGHTER_NO_RSP message), but its memory device tests failed. The daughter card must be able to write to some memory device addresses; otherwise, it cannot respond to any commands.
Recommended Action	First check that the daughter controller card is properly seated in its Multibus and ciscoBus connectors. Next, swap daughter cards and check whether the error follows the daughter card or the slot. If the message recurs, call your technical support representative for assistance.

%CBUS-3-DAUGHTER_NO_RSP : Unit [dec], daughter [dec], not responding ([hex]) - disabled

Explanation	A hardware component failed an internal diagnostic test. Test output and descriptions of ranges are as follows: Unit [dec] (ranges 0-14): Indicates the Multibus jumper setting for the ciscoBus controller. daughter controller [dec] (ranges 0-3): Indicates the ciscoBus relative slot number (0 to 3, or in the Cisco 7000, 0 to 4) of the daughter card that failed the test. The daughter card hardware was recognized across the cBus backplane, but the daughter card did not respond to the first command issued to it. This condition is a result of one of the following: the daughter card did not reset, or the microcode on the card is in a hung state, or the card cannot fully communicate across the ciscoBus backplane (cannot read or write shared MEMD or does not get the MALU_ATTENTION signal across the ciscoBus).
Recommended Action	First, make sure that the daughter card is properly seated in its Multibus and ciscoBus connectors. If this message recurs, copy the error message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information

%CBUS-3-CORRUPT : Controller [dec], wrote 0x%-04x, read 0x%-04x, loc 0x%-04x - dci_memtest()

Explanation A hardware component failed an internal diagnostic test.

Recommended Action Replace the malfunctioning device.

%CBUS-3-TXALLOC : Error (%-04x) tx_allocate - cbus_init()

Explanation A hardware device did not respond appropriately to a request.

Recommended Action Make sure the device is functioning and is configured correctly.

%CBUS-3-BUFFER : Controller [dec], Error (%-04x), Buffersize = [dec], Bufferpool = [dec], number [dec]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-INITERR : Interface [dec], Error (%-04x), idb [hex] [dec] [chars] - cbus_init()

Explanation The switch processor or ciscoBus controller signaled an error while processing a packet or selecting an interface. This indicates a software problem.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-INTR : Interface [dec], idb [hex] [dec] [chars] - cbus_interrupt()

Explanation The switch processor or ciscoBus controller returned a nonsensical value.

%CBUS-3-INTR : Interface [dec], idb [hex] [dec] [chars] - cbus_interrupt()

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CBUSBCE : Failed to select a BCE, response [hex] - cbus_bce_update_ifa()

Explanation A hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CBUSBCEPERM : Failed to select a BCE, response [hex] - cbus_bce_permissions_update()

Explanation A hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-FDDIRSET : Interface [chars], Error (%-04x) [chars] - fddi_reset()

Explanation A hardware device did not respond appropriately to a request.

Recommended Action Make sure the device is functioning and is configured correctly.

%CBUS-3-FDDIRSETU : Unit [dec], Error (%-04x) [chars] - fddi_reset()

Explanation A hardware device did not respond appropriately to a request.

Recommended Action Make sure the device is functioning and is configured correctly.

%CBUS-5-FDDICMD : '[chars]' is not supported on [chars]

Explanation This command is not supported on this FDDI interface.

Recommended Action No action is required.

%CBUS-3-HSSIRSET : Interface [chars], Error (%-04x) [chars] - hssi_reset()

Explanation A command to reset an HSSI interface was issued by the RSP, but the interface did not respond to the command within the expected time delay. The delay is given for the processor to return the buffers that it has allocated and to perform any necessary cleanup. This condition may be caused by a large number of buffers that have been allocated by the interface due to either heavy traffic or a hardware problem with the interface.

Recommended Action Verify that the card is properly seated. If this error recurs, then issue the **show tech-support** and **show logging** commands, contact your Cisco technical support representative, and provide the representative with the gathered information.

%CBUS-3-SRPRSET : Interface [chars], Error (%-04x) [chars] - srp_reset()

Explanation A command to reset an SRP interface was issued by the RSP, but the interface did not respond to the command within the expected time delay. The delay is given for the processor to return the buffers that it has allocated and to perform any necessary cleanup. This condition may be caused by a large number of buffers that have been allocated by the interface due to either heavy traffic or a hardware problem with the interface.

Recommended Action Verify that the card is properly seated. If this error recurs, then issue the **show tech-support** and **show logging** commands, contact your Cisco technical support representative, and provide the representative with the gathered information.

%CBUS-3-CTRRAMTEST : Interface [chars], RAM Addressing Test Failed - [chars]

Explanation The Token Ring interface failed its memory diagnostic tests.

Recommended Action Issue a **clear interface** command. LOG_STD_RECUR_ACTION

%CBUS-3-CTRINIT : Interface [chars], CTR Initialization Failed - [chars]

Explanation The Token Ring interface failed one of its internal self-tests.

Recommended Action Issue a **clear interface** command. LOG_STD_RECUR_ACTION

%CBUS-3-CTRCMDFAILED : Interface [chars], CTR Command [chars] Failed, [chars] (%#04x)

Explanation	A command sent from the system to the Token Ring interface failed to complete successfully.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CTRCMDFAILED2 : Interface [chars], CTR Command [chars] Failed, Code %#04x

Explanation	A command sent from the system to the Token Ring interface failed to complete successfully.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CTRRSET : Interface [chars] failed to initialize

Explanation	The Token Ring interface failed to insert into the Token Ring. The interface is placed into reset state and will not automatically try to re-insert itself.
Recommended Action	Issue a clear interface command. LOG_STD_RECUR_ACTION

%CBUS-3-CTRACHECK : Interface [chars], Adapter Check Error ([hex] [hex] [hex] [hex])

Explanation	The Token Ring monitor firmware detected a fatal error on the interface card.
Recommended Action	Issue a clear interface command. LOG_STD_RECUR_ACTION

%CBUS-3-CTRUCHECK : Interface [chars], Microcode Check Error

Explanation	The Token Ring interface microcode detected an unrecoverable error.
Recommended Action	Issue a clear interface command. LOG_STD_RECUR_ACTION

%CBUS-3-CTRBADLOVE1 : Interface [chars], SRB_COMPLETE lovenote received with unknown command ([hex])

Explanation	The system received a message from the Token Ring interface but does not recognize the message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CTRBADLOVE1_DUMP : Dump of MEMB follows-SRB_ADDR: [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation	The system is printing codes related to a previous lovenote error message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-4-CTRBADLOVE2 : Interface [chars], Unexpected SRB_COMPLETE lovenote, command=[hex], result=[hex]

Explanation	The system received an unsolicited message from the Token Ring interface. The system ignored the message and continued normal processing.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-RESETNXI : Reset of removed interface [hex] ([chars])

Explanation	An interface reset was attempted on an interface that was removed from the router. This message appears if you use the shutdown command to bring down a removed interface.
Recommended Action	No action is required.

%CBUS-3-FSIPRSET : Interface [chars], Error (%-04x) [chars] - fsip_reset()

Explanation	A Fast Serial Interface Processor (FSIP) did not respond to a reset request from the Route Processor.
Recommended Action	Check FSIP electrical connections, cable, and ciscoBus connections. An FSIP microcode reload will be required. If the check of electrical connections reveals no problems and the message recurs, call your technical support representative for assistance.

%CBUS-3-SERRSET : Interface [chars], Error (%-04x) [chars] - serial_reset()

Explanation	A software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CATMRSET : Interface [chars], Error (%-04x) [chars] - aip_reset()

Explanation	A software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CATMRSETU : Unit [dec], Error (%-04x) [chars] - cbus_atm_reset()

Explanation	A software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CATMCFG : Interface [chars], Cannot config interface, CBus ATM MEM [hex], status [dec]

Explanation	A software error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CBUS-3-AIPINVPLIM : Interface [chars], Invalid PLIM detected. Interface downed

Explanation	A software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CATMREJCMD : [chars] [chars] command failed (error code [hex])

Explanation	The cBus ATM microcode rejected a command sent by the Route Processor (RP). The error code is the status value returned by the command.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-BADVC : [chars] [dec]/[dec] got bad VC packet [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation	An interface received a packet with bad VC encapsulation. This indicates either a software or hardware problem.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-POLLFAIL : Interface [chars] failed to respond, debug info follows

Explanation	A Token Ring interface card failed to respond to periodic polling. This can indicate a software or hardware problem. See CBUS-3-POLLFAILDAT for the syntax of this message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-POLLFAILDAT : Int [dec]: [hex] [hex] [hex] [hex] [hex] [hex]

Explanation	This is the debugging information for the CBUS-3-POLLFAIL error.
Recommended Action	This is a debug message only. No action is required.

%CBUS-3-FCICMDFAILO : Controller [dec], cmd ([dec]) failed (0x%-04x) count ([dec])

Explanation	A command sent from the system to an interface processor failed to complete successfully.
Recommended Action	The system recovered by generating an error code to the requester.

%CBUS-3-FCICMDFAIL1 : Controller [dec], cmd ([dec] 0x%-08x) failed (0x%-04x) count ([dec])

Explanation	A command sent from the system to an interface processor failed to complete successfully.
Recommended Action	The system recovered by generating an error code to the requester.

%CBUS-3-CTRLRCMDFAILO : Controller [dec], cmd ([dec]) failed (0x%-04x) count ([dec])

Explanation	A command sent from the system to an interface processor failed to complete successfully.
Recommended Action	The system recovered by generating an error code to the requester.

%CBUS-3-CTRLCMDFAIL1 : Controller [dec], cmd ([dec] 0x%-08x) failed (0x%-04x) count ([dec])

Explanation A command sent from the system to an interface processor failed to complete successfully.

Recommended Action The system recovered by generating an error code to the requester.

%CBUS-3-CCBCMDFAIL0 : Controller [dec], cmd ([dec]) failed (0x%-04x)

Explanation A command sent from the system to an interface processor failed to complete successfully.

Recommended Action The system recovered by generating an error code to the requester.

%CBUS-3-CCBCMDFAIL1 : Controller [dec], cmd ([dec] 0x%-08x) failed (0x%-04x)

Explanation A command sent from the system to an interface processor failed to complete successfully.

Recommended Action The system recovered by generating an error code to the requester.

%CBUS-3-CCBCMDFAIL3 : Controller [dec], cmd ([dec] 0x%-04x, 0x%-04x, 0x%-04x) failed (0x%-04x)

Explanation A command sent from the system to an interface processor failed to complete successfully.

Recommended Action The system recovered by generating an error code to the requester.

%CBUS-3-UNKENC : Interface [chars], unknown encaps type [hex]

Explanation A packet was received from the CIP with an unknown encapsulation type. The packet will be dropped.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CT3STAT : Out of buffers--losing status information for CT3 on VIP card

Explanation	A status information message from the VIP was received. A memory buffer is required to process the status information message, but the memory allocation routine due to insufficient system buffer memory. Therefore, the status information message was not processed. This condition may be caused either by a heavy memory utilization at the time of the memory buffer request or by insufficient memory in the system.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration. If this message recurs or appears regularly, contact your Cisco technical representative to upgrade the memory of the system.

%CBUS-3-HALSTAT : Out of buffers--losing status information for ChSTM-1 on VIP card

Explanation	An internal software resource has been exhausted.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-POTSTAT : Out of buffers--losing status information for POTENT on VIP card

Explanation	An internal software resource has been exhausted.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CT3DSX3ERR : ([chars])Illegal dsx3 value - unit is [dec]

Explanation
Recommended Action

%CBUS-3-CE3DSX3ERR : ([chars])Illegal E3 value - unit is [dec]

Explanation A status information message was received from the CT3 VIP, but during message processing it was detected that an element in the data structure corresponding to the status information message has not been set. This condition may be caused by either an element that has not been passed by the VIP or a corruption in the status message.

Recommended Action If this error recurs, enter the **show tech-support** and **show logging** commands, contact your Cisco technical support representative, and provide the representative with the gathered information.

%CBUS-3-HALSDHERR : ([chars])Illegal sdh value - unit is [dec]

Explanation Internal data structure is corrupted, which causes the love letter to drop.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-5-CBADVCSETUP : Interface [chars], setup vc failed with vci exceeding (vc-per-vp - 3) on the last vpi.

Explanation The TI1570 chip reserves 3 RX DMA channels for OAM cells. As a result, the last 3 VCIs of the last VPI block cannot be used for regular traffic.

Recommended Action Avoid try different vci/vpi combinations.

%CBUS-3-CFGCMDDROPPED : Config queue is full, command was dropped, slot [dec]

Explanation Sending a config command was retried. The receiving queues were still full after retries therefore the command was dropped.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%CBUS-3-ADDRFILTR : Interface [chars], address filter [chars] command failed, code %#04x

Explanation The specified address filter command sent to the specified interface failed with the displayed error code.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%CBUS-3-BADRXE0FVEC : [chars] ustatus: [chars] ([hex]), [hex] [hex] [hex] [hex]

Explanation Debugging information when an IP panics.**Recommended Action** Copy the error message exactly as it appears, and report it to your technical support representative.

%CBUS-3-BADTXSTATE : [chars] ustatus: [chars] ([hex]), [hex] [hex] [hex] [hex]

Explanation Debugging information when an IP panics.**Recommended Action** Copy the error message exactly as it appears, and report it to your technical support representative.

%CBUS-3-BADTXE0FVEC : [chars] ustatus: [chars] ([hex]), [hex] [hex] [hex] [hex]

Explanation Debugging information when an IP panics.**Recommended Action** Copy the error message exactly as it appears, and report it to your technical support representative.

%CBUS-3-TXSTARTPENDACTIVE : [chars] ustatus: [chars] ([hex]), [hex] [hex] [hex] [hex]

Explanation Debugging information when an IP panics.**Recommended Action** Copy the error message exactly as it appears, and report it to your technical support representative.

%CBUS-3-UNKNOWN : [chars] ustatus: [chars] ([hex]), [hex] [hex] [hex] [hex]

Explanation Debugging information when an IP panics.**Recommended Action** Copy the error message exactly as it appears, and report it to your technical support representative.

%CBUS-3-CMDTIMEOUT : Cmd timed out, CCB [hex], slot [dec], cmd code [dec]

Explanation A software or hardware error occurred.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CMDDROPPED : Cmd dropped, CCB [hex], slot [dec], cmd code [dec]

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CCBSEMINFO : CCB semaphore acquired traceback:[chars] CCB semaphore released traceback:[chars]

Explanation	More information on the CCB semaphore. The tracebacks indicate the program counters and stack that point to the code that was the last to acquire this semaphore and the last to release this semaphore respectively
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CCBPTIMEOUT : CCB handover timed out, CCB [hex], slot [dec]

Explanation	A hardware or software error occurred.
Recommended Action	Please gather the logs and tracebacks and contact the TAC

%CBUS-3-PORTTYPE : Unexpected interface type for [chars][int], port [int], type [int]

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-CMD : Cmd failed: [chars], response %#04x, [chars]

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CBUS-3-MODULE : Missing [chars] for [chars]

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-NOBUF : Buffer allocation failure: [chars]

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-5-INPUTERR : Interface [chars] excessive input error rate

Explanation	Interface disabled because too many input errors occurred.
Recommended Action	Inspect condition of attached network hardware

%CBUS-4-FIXBADTXVC : Detected and fixed bad tx vc encaps on [chars], bad vc [dec], fixed vc [dec]

Explanation	A transmit packet on a channelized serial interface does not have the vc number encapsulation
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%CBUS-4-FIXBADTXVC : Detected and fixed bad tx vc encaps on [chars], bad vc [dec], fixed vc [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CBUS-3-TXVCENCAPFAIL : Detected bad tx vc encaps on [chars], vc [dec]. Board encaps failed [hex], [hex], [hex]

Explanation	Board encaps failed on a transmit packet on a channelized serial interface which does not have the vc number encapsulation
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-SELECTBADVC : Select invalid vc number [dec].

Explanation	An invalid channel number is selected
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CBUS-3-SENDIPCMDFAIL : Send Ip Cmd Failed. Command dropped after [dec] retries, CCB [hex], slot [dec], cmd code [dec]

Explanation	Sending an ip command was retried. The receiving queues were still full after retries therefore the command was dropped.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CBUS-5-SENDIPCMDRECOV : Send Ip Cmd Succeeded after [dec] retries, CCB [hex], slot [dec], cmd code [dec]

Explanation Sending an ip command was retried due to receiving queues being full. But after some retries, command was send successfully.

Recommended Action No action is required.

CCE_PI_PD

%CCE_PI_PD-4-TARGET_CLASS_GROUP_DB : Failed to [chars] id [hex] [chars] database

Explanation An operation to manipulate the record of the target class groups supplied via the PI/PD API has failed to perform the required action on a target class group successfully. This may imply that the resultant notification via the API was deferred or dropped.

Recommended Action LOG_STD_SH_CMD_ACTION(show cce cpdp bindings target <id>)

%CCE_PI_PD-6-TARGET_BINDINGS_DB : [chars] [chars] [chars] target class group [hex] contains feature bindings

Explanation The target class group is reporting the presence of feature bindings upon its removal. This is informational.

Recommended Action LOG_STD_SH_CMD_ACTION(show cce cpdp bindings target <id>)

%CCE_PI_PD-4-CLASS_GROUP_DB : Failed to [chars] id [hex] [chars] database

Explanation An operation to manipulate the record of the class groups and classes supplied via the PI/PD API has failed to perform the required action on a class group successfully. This may imply that the resultant notification via the API was deferred or dropped.

Recommended Action LOG_STD_SH_CMD_ACTION(show cce cpdp associations class-group <id>)

%CCE_PI_PD-4-CLASS_DB : Failed to [chars] class group id [hex] class id [hex] [chars] database

Explanation An operation to manipulate the record of the class groups and classes supplied via the PI/PD API has failed to perform the required action on a class successfully. This may imply that the resultant notification via the API was deferred or dropped.

Recommended Action LOG_STD_SH_CMD_ACTION(show cce cpdp associations class group <id>)

%CCE_PI_PD-4-CLASS_CLASS_GROUP_DB : Failed to [chars] class group id [hex] class id [hex] class group [hex] [chars] database

Explanation An operation to manipulate the record of the class groups and classes supplied via the PI/PD API has failed to perform the required action on a class group attached to a class successfully. This may imply that the resultant notification via the API was deferred or dropped.

Recommended Action LOG_STD_SH_CMD_ACTION(show cce cpdp associations class-group <id>)

%CCE_PI_PD-4-FEATURE_BIND_DB : Failed to [chars] target id [hex] class group [hex] class id [hex] feature [chars] binding [chars] database

Explanation An operation to manipulate the record of the binding of a action within a policy map class to a particular target supplied via the PI/PD API has failed to perform the required action successfully. This may imply that the resultant notification via the API was deferred or dropped.

Recommended Action LOG_STD_SH_CMD_ACTION(show cce cpdp bindings target <id>)

%CCE_PI_PD-3-FILTER_LIST : Failed to create class [chars] id [hex] filter list

Explanation An operation to create the filter list for a particular class has failed due to a resource issue. This may imply that the resultant notification via the API was deferred or dropped.

Recommended Action LOG_STD_SH_CMD_ACTION(show class-map [type <class type>] <name>)

%CCE_PI_PD-6-CLASS_GROUP_CLASSES_DB : Class group [hex] contains classes

Explanation The class group is reporting the presence of classes upon its removal. This is informational.

Recommended Action LOG_STD_SH_CMD_ACTION(show cce cpdp associations class-group <id>)

%CCE_PI_PD-6-CLASS_CLASSES_DB : Class group [hex] class [hex] ([chars]) contains a class group

Explanation The class is reporting the presence of a class group upon its removal. This is informational.

Recommended Action LOG_STD_SH_CMD_ACTION(show cce cpdp associations class-group <id>)

%CCE_PI_PD-3-CLASS_NAME : Map name [chars] id [hex] unable to [chars] string ([hex])

Explanation During the addition or removal of a class or a class group its name which corresponds to a class or policy map was either not found within the database of strings or it was unable to add the name to the database.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show cce cpdp associations** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CCE_PI_PD-6-CLASS_FILTER : Class [chars], id [hex], type [chars], filter list is unbalanced

Explanation During the addition of a class, an internal error was encountered during the construction of the match terms comprising that class.

Recommended Action LOG_STD_SH_CMD_ACTION(show class-map [type <type>] <name>)

CCH323

%CCH323-3-CANNOT_ALLOCATE_GW : [chars]: cannot allocate gateway structure

Explanation Allocation of the CCH323 gateway instance failed. This is possibly due to the fact that system memory pool is exhausted.

Recommended Action This can be a catastrophic error

%CCH323-3-CANNOT_CREATE_CCB : [chars]: cannot create the H.323 ccb Tree

Explanation Creation of the H.323 CCB Tree failed. This is possibly due to the fact that system memory pool is exhausted.

Recommended Action This can be a catastrophic error

%CCH323-3-CANNOT_ALLOCATE_CCB : [chars]: cannot allocate call control block

Explanation Allocation of the CCH323 call control block failed. This is possibly due to the fact that system memory pool is exhausted.

Recommended Action This can be a catastrophic error

%CCH323-3-CANNOT_ALLOCATE_CALL_INFO : [chars]: cannot allocate call info data structure

Explanation Allocation of the CCH323 call info structure failed. This is possibly due to the fact that system memory pool is exhausted.

Recommended Action This call will be terminated due to lack of resource

%CCH323-3-CANNOT_INSERT_CCB : [chars]: cannot insert control block [hex] to tree

Explanation Insertion of this CCH323 call control block to the RBTree failed. This can be related to a corrupted RBTree

Recommended Action This can be a catastrophic error

%CCH323-3-CANNOT_FIND_CCB : [chars]: cannot find CCH323 call control block based on callID [dec]

Explanation Cannot find a CCH323 call control block based on the specified callID

Recommended Action No action is required. This is an indication that some events happen out of sequence

%CCH323-3-CCAPI_DISCONNECT_ERROR : [chars]: cc_api_call_disconnected returns [dec]

Explanation An error is returned when CCH323 attempts to call cc_api_call_disconnected

Recommended Action None

%CCH323-3-CCAPI_CONNECT_ERROR : [chars]: cc_api_call_disconnected returns [dec]

Explanation An error is returned when CCH323 attempts to call cc_api_call_connected

Recommended Action None

%CCH323-3-CANNOT_CREATE_CRVHASH_TBL : [chars]: cannot create the H.323 crv hash table

Explanation Creation of the H.323 CRV Hash Table failed. This is possibly due to the fact that system memory pool is exhausted.

Recommended Action This can be a catastrophic error

%CCH323-3-BAD_IP_ADDRESS : [chars]: illegal destination [chars]

Explanation	The IP address passed from CCAPI in the call setup request is invalid
Recommended Action	Check the dial-peer configuration for the dial-peer that matches the called party number. Make sure that the session target field contains valid IP address. or DNS name

%CCH323-3-CALL_SETUP_FAILED : [chars]: call setup failed

Explanation	The call setup request failed
Recommended Action	Verify that the remote destination identified by the IP address is reachable

%CCH323-3-OSS_INIT_FAILED : [chars]: OSS init failure: errno = [dec]

Explanation	OSS ASN1 initialization failed
Recommended Action	This can be catastrophic

%CCH323-3-H225_SM_INIT_FAILED : [chars]: H.225.0 State Machine integrity check failed for state [chars]

Explanation	H.225 State Machine integrity check failed
Recommended Action	This can be catastrophic

%CCH323-3-H225_LIBRARY_INIT_FAILED : [chars]: H.225.0 library initialization failed

Explanation	H.225.0 library initialization failed
Recommended Action	This can be catastrophic

%CCH323-3-CCH323_UNKNOWN_EVENT : unknown event [hex]

Explanation	Unknown CCH323 Event
Recommended Action	No action is required

%CCH323-3-CCH323_RSCMON_SETUP_FAILURE : [chars][dec]

Explanation	A failure was encountered in setting up the monitoring of H323 resources.
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%CCH323-3-CCH323_RSCMON_SETUP_FAILURE : [chars][dec]

Recommended Action Try power cycling the system. LOG_STD_RECUR_ACTION

%CCH323-3-STRCALLHISFAIL : cch323_store_call_history: [chars]

Explanation Insert an active H323 call record into call history list failed

Recommended Action No action is required

%CCH323-2-GTWY_UNREGSTR : Gateway [chars] unregistered from Gatekeeper [chars]

Explanation Gateway unregistered from the Gatekeeper

Recommended Action Verify whether this is user intended or otherwise report this to the technical support representative.

%CCH323-2-GTKP_UNREGSTR : Gatekeeper [chars] requested unregister from Gateway [chars]

Explanation Gatekeeper requested unregister from Gateway

Recommended Action Verify whether this is user intended or otherwise report this to the technical support representative.

%CCH323-6-REGSTR : Gateway [chars] registered with Gatekeeper [chars]

Explanation Gateway registered with the Gatekeeper

Recommended Action no action is required

%CCH323-2-GTWY_REGSTR_FAILED : Gateway [chars] failed to register with Gatekeeper [chars] even after [dec] retries

Explanation Gateway failed to register with Gatekeeper

Recommended Action Report this immediately to the technical support representative.

%CCH323-2-GTWY_REGSTR_FAILED_ALT_GK : Gateway [chars] failed attempt to register with Alternate Gatekeeper [chars]

Explanation Gateway failed attempt to register with Alternate Gatekeeper

%CCH323-2-GTWY_REGSTR_FAILED_ALT_GK : Gateway [chars] failed attempt to register with Alternate Gatekeeper [chars]

Recommended Action Report this immediately to the technical support representative.

%CCH323-2-E164_LENGTH_IS_NOT_SUPPORTED : [chars]: E164 address length [dec] is not supported

Explanation Received E164 address with the length that is not supported.

Recommended Action Report this immediately to the technical support representative.

%CCH323-3-CCH323_MALLOC_FAILED : [chars]: cannot allocate message buffer

Explanation Allocation of the CCH323 message buffer failed. This is possibly due to the fact that system memory pool is exhausted.

Recommended Action This can be a catastrophic error

%CCH323-3-INTERNAL_EVENT_QUEUE_INIT_FAILED : [chars]: Internal event queue initialization failed

Explanation Errors are found during initialization of internal event queue mechanism

Recommended Action This can be a catastrophic error

%CCH323-3-POSSIBLE_INTERNAL_EVENT_LOOP : [chars]: Exceeding limit on servicing internal event for the same call

Explanation The maximum limit on servicing internal event queue has exceeded the limit. The condition may be caused by internal loops on sending events between state machines.

Recommended Action This can be a severe error

%CCH323-3-MAXIMUM_INTERNAL_EVENT_BUFFERS_EXCEED : [chars]: Exceeding limit on allocating internal event buffers

Explanation The limit for allocating internal event buffers has been exceeded. The condition may be caused by internal loops on sending events between state machines.

Recommended Action This can be a severe error

%CCH323-3-CCH323_H225_SEND_EVENT_FAILED : [chars]: create send internal event [chars] to H.225 state machine failed

Explanation create and send event to H.225 state machine failed. This is possibly due to the missing call control block or not enough memory for event buffers

Recommended Action This can be a catastrophic error

%CCH323-3-CCH323_H245_SEND_EVENT_FAILED : [chars]: create and send event [chars] to H.245 state machine failed

Explanation create and send event to H.245 state machine failed. This is possibly due to the missing call control block or not enough memory for event buffers

Recommended Action This can be a catastrophic error

%CCH323-3-CCH323_RAS_SEND_EVENT_FAILED : [chars]: create and send event [chars] to RAS state machine failed

Explanation create and send event to RAS state machine failed. This is possibly due to the missing call control block or not enough memory for event buffers

Recommended Action This can be a catastrophic error

%CCH323-6-LONG_DUR_CALL_DETECTED : Long Duration Call is detected [chars]

Explanation The call is active for configured duration of long call

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CCH323-6-CALL_PRESERVED : [chars]: H.323 call preserved due to socket closure or error, Call Id = [int], fd = [dec]

Explanation An H.225.0 or H.245 socket was closed due to a TCP FIN received from the remote endpoint or a socket error. Calls using these sockets for which call preservation was configured will be preserved. This is not an error, but call preservation can occasionally cause hung calls.

Recommended Action Use show h323 calls preserved command to get a list of all active preserved calls. Long duration preserved calls can then be cleared using clear call voice command.

CD_FFP_IPSEC_PROXY**%CD_FFP_IPSEC_PROXY-2-FFP_INIT_FAILED : FFP Crypto device Proxy Agent initialization failure (result: [dec]).**

Explanation	Cisco internal software error. FFP Crypto device Procy Agent initialization detected critical failure. FFP Crypto device software library will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CD_FFP_IPSEC_PROXY-2-FFP_PROXY_INIT_FAILED : FFP Crypto device Procy Agent Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. FFP Crypto device Procy Agent Proxy initialization detected that the IPC interface initialization failed. FFP Crypto device Procy Agent proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CD_FFP_IPSEC_PROXY-3-FFP_PROXY_IPSEC_SA_CRT_FAILED : FFP Crypto device Procy Agent Proxy IPsec SA create failure (result: [dec]).

Explanation	Cisco internal software error. FFP Crypto device Procy Agent Proxy message processing detected IPsec SA create failure. The request is rejected as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CD_FFP_IPSEC_PROXY-3-ESG_IPSEC_KAT_TEST_FAILED : Cryptographic Known-Answer Test failure (result: [chars])

Explanation	Cisco internal software error. Cryptographic Known-Answer Tests. Error due to one of the Cryptographic Power-on Self-tests (Known-Answer Tests) not returning the expected value.
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%CD_FFP_IPSEC_PROXY-3-ESG_IPSEC_KAT_TEST_FAILED : Cryptographic Known-Answer Test failure (result: [chars])

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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CD_SW_IPSEC_SHIM

%CD_SW_IPSEC_SHIM-2-SHIM_INIT_FAILED : QFP Crypto device software library initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP Crypto device software library initialization detected critical failure. QFP Crypto device software library will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CD_SW_IPSEC_SHIM-2-SHIM_PROXY_INIT_FAILED : QFP Crypto device software library Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP Crypto device software library Proxy initialization detected that the IPC interface initialization failed. QFP Crypto device software library proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CD_SW_IPSEC_SHIM-3-SHIM_PROXY_IPSEC_SA_CREATE_FAILED : QFP Crypto device software library Proxy IPsec SA create failure (result: [dec]).

Explanation	Cisco internal software error. QFP Crypto device software library Proxy message processing detected IPsec SA create failure. The request is rejected as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CD_SW_IPSEC_SHIM-2-KAT_TEST_FAILED : QFP Crypto device software library kat test failure (result: [dec]).

Explanation	Cisco internal software error. QFP Crypto device software library detected critical failure. QFP Crypto device software library will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CD_SW_SSL_SHIM through CHAT

- [CD_SW_SSL_SHIM](#)
- [CEF_PROXY](#)
- [CELLWAN](#)
- [CEM](#)
- [CENT](#)
- [CFC_LISP](#)
- [CFT](#)
- [CFT_API](#)
- [CHASFS](#)
- [CHAT](#)

CD_SW_SSL_SHIM

%CD_SW_SSL_SHIM-2-SHIM_INIT_FAILED : QFP Crypto device software library initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP Crypto device software library initialization detected critical failure. QFP Crypto device software library will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CD_SW_SSL_SHIM-2-SHIM_PROXY_INIT_FAILED : QFP Crypto device software library Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP Crypto device software library Proxy initialization detected that the IPC interface initialization failed. QFP Crypto device software library proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CD_SW_SSL_SHIM-3-SHIM_PROXY_SSL_CTX_ALLOC_FAILED : QFP Crypto device software library Proxy IPSec CTX create failure (result: [dec]).

Explanation	Cisco internal software error. QFP Crypto device software library Proxy message processing detected IPSec CTX create failure. The request is rejected as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CEF_PROXY

%CEF_PROXY-3-PROXY_IPC_ADJ_ID_HASH_FAILED :

Explanation	Getting Hash Address failed.
Recommended Action	LOG_STD_ACTION

%CEF_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Explanation	IPC handler initialization failed.
Recommended Action	LOG_STD_ACTION

%CEF_PROXY-4-PROXY_IPC_INVALID_MSG : [hex]

Explanation	Received an invalid IPC messages subtype.
Recommended Action	LOG_STD_ACTION

%CEF_PROXY-3-PROXY_IPC_OCE_CHAIN_PTR_FAILED : [hex]

Explanation Null OCE Chain pointer.**Recommended Action** LOG_STD_ACTION

%CEF_PROXY-3-PROXY_IPC_PACKET_ALLOCATION_FAILED : [hex]

Explanation Failed to allocate packet buffer for IPC**Recommended Action** LOG_STD_ACTION

%CEF_PROXY-3-PROXY_IPC_PACKET_SEND_FAILED : [hex]

Explanation Failed to send IPC packet.**Recommended Action** LOG_STD_ACTION

%CEF_PROXY-3-PROXY_IPC_ADJ_IDX_FAILED : [hex]

Explanation Failed to get adjacency index from IPC packet.**Recommended Action** LOG_STD_ACTION

CELLWAN

%CELLWAN-2-NO_PROCESS : Could not start process [chars]

Explanation Could not start one of the processes.**Recommended Action** Add more memory.

%CELLWAN-2-SEND_TIMEOUT : [chars] not responding

Explanation The cellular modem is not responding.**Recommended Action** If the problem persists, please provide the following:
LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-HEART_BEAT_TIMEOUT : No heart beat signal from [chars]

Explanation	The cellular modem is not responding.
Recommended Action	If the problem persists, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-MODEM_TOO_HOT : [chars] modem will be [chars]

Explanation	Modem radio temperature has reached critical point. The call will be disconnected and the modem could be shutdown.
Recommended Action	Check if the router fans are working properly.

%CELLWAN-2-MODEM_NOT_ACTIVATED : [chars] modem has not been activated

Explanation	The cellular modem has not been activated by the cellular provider.
Recommended Action	Please check the user documentation on how to activate the modem. The cellular modem needs to be activated before it can be used on a cellular network.

%CELLWAN-2-MODEM_RADIO : [chars] Modem radio has been turned [chars]

Explanation	Modem radio has been turned on/off.
Recommended Action	No action if the message appears during bootup. Otherwise please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x radio command and <CmdBold>show tech-support)

%CELLWAN-2-MODEM_UP : Modem in slot [dec]/[dec] is now UP

Explanation	The cellular modem is now UP.
Recommended Action	No action if the message appears during bootup. Otherwise please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-MODEM_DOWN : Modem in slot [dec]/[dec] is DOWN

Explanation	The cellular modem is not operational.
Recommended Action	This is expected during modem firmware upgrade and modem activation. If the problem happens during other times, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-5-FIRMWARE_SWITCH : Firmware switchover initiated for modem in slot [dec]/[dec]

Explanation Firmware switchover caused by user request.

Recommended Action No action is required.

%CELLWAN-5-MODEM_BOOT_READY : Modem in slot [dec]/[dec] is in Boot Ready Mode.. Please perform FW upgrade

Explanation The cellular modem is not operational.

Recommended Action This is expected during modem firmware upgrade and modem activation. If the problem happens during other times, please provide the following:
LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-UNSUPPORTED_CELLULAR_NIM : Unsupported Cellular NIM inserted in slot [int]/[int]

Explanation This NIM is not supported for the current software release

Recommended Action Please contact TAC for supported software release for this NIM

%CELLWAN-2-DYING_GASP_NOT_SUPPORTED : Dying Gasp Feature is not supported in Cellular slot [int]/[int]

Explanation This NIM is not supporting Dying Gasp Feature.

Recommended Action Please contact TAC for Dying Gasp Feature Supported NIM

%CELLWAN-2-MODEM_INIT_TIMEOUT : Cellular modem initialization timeout for [chars]

Explanation Modem failed to initialize.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CELLWAN-2-MICRO_DNLD_START_FAIL : Modem returned following error to Download Start Request:[chars]

Explanation	Modem Firmware Download Start Request Failed. It generally means that firmware binary file is wrong.
Recommended Action	Please make sure that the firmware binary file is correct. If unsure about validity of the file, please provide the following: LOG_STD_SH_CMD_ACTION(show flash:<noCmdBold> command and <CmdBold>show controller cellular x/x/x all)

%CELLWAN-2-MICRO_FW_DNLD_FAIL : Modem returned following error to Download Request:[chars]

Explanation	Modem Firmware Download Continue Request Failed. It generally means that firmware binary file is corrupt.
Recommended Action	Please make sure that the firmware binary file is correct. If unsure about validity of the file, please provide the following: LOG_STD_SH_CMD_ACTION(show flash:<noCmdBold> command and <CmdBold>show controller cellular x/x/x all)

%CELLWAN-2-MICRO_DNLD_END_FAIL : Modem returned following error to Download End Request:[chars]

Explanation	Modem Firmware Download End Request Failed
Recommended Action	Please make sure that the firmware binary file is correct. If unsure about validity of the file, please provide the following: LOG_STD_SH_CMD_ACTION(show flash:<noCmdBold> command and <CmdBold>show controller cellular x/x/x all)

%CELLWAN-2-MICRO_FLASH_PRGM_FAIL : Modem returned following error to Flash Program Request:[chars]

Explanation	Modem failed to launch the new firmware.
Recommended Action	Please make sure that the firmware binary file is correct. If unsure about validity of the file, please provide the following: LOG_STD_SH_CMD_ACTION(show flash:<noCmdBold> command and <CmdBold>show controller cellular x/x/x all)

%CELLWAN-2-SIM_FAILURE : [[chars]]: SIM read failed [chars]

Explanation	If the SIM is not present, insert SIM in the SIM socket. If error still persists, SIM needs to be replaced.
Recommended Action	Insert SIM if SIM is absent in the NIM. If error still persists, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-SIM_LOCKED : [[chars]]: SIM is locked [chars]

Explanation	SIM is locked and no data call can be made till it is unlocked.
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%CELLWAN-2-SIM_LOCKED : [[chars]]: SIM is locked [chars]

Recommended Action Contact service provider on how to unlock the SIM. If error still persists, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-SIM_REJECTED : [[chars]]: SIM rejected by the network [chars]

Explanation The SIM is not valid to be used in the network. A new valid SIM needs to be inserted in the SIM socket.

Recommended Action Insert valid SIM in the NIM SIM socket. If error still persists, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-SIM_CHV1_BLOCKED : [[chars]]: SIM is blocked. PUK is required to unblock the SIM [chars]

Explanation SIM is blocked and no data call can be made until it is unblocked using PUK.

Recommended Action Contact service provider to get PUK to unblock the SIM. Please execute 'cellular <unit> gsm sim unblock <puk> <new-pin>' for unblocking SIM and to set new PIN. If error still persists, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-SIM_MEP_LOCKED : [[chars]]: Invalid SIM or device locked to carrier [chars]

Explanation Invalid SIM or device locked to carrier

Recommended Action Insert valid SIM or contact service provider. If error still persists, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-SIM_CHV1_CONFIG_REMOVED : [[chars]]: CHV1 verification failed [chars] : Incorrect PIN configured. Erased the CHV1 code from router running configuration to avoid SIM blocking during modem reset/powercycle. !!!WARNING: If the incorrect PIN is saved in router start-up configuration, please remove it manually to avoid SIM blocking during router reload

Explanation SIM CHV1 verification failed. Incorrect PIN configured.

Recommended Action Please remove incorrect PIN if saved in startup configuration or configure correct PIN. If error still persists, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-SIM_SECURITY_SHUTDOWN : [[chars]]: CHV1 PIN is configured while SIM is unlocked [chars]. Shutting down all PDP interfaces

Explanation	CHV1 is configured while SIM is unlocked The SIM is not valid to be used in the network. A new valid locked SIM needs to be inserted in the SIM socket.
Recommended Action	Insert valid SIM in the NIM SIM socket or remove CHV1 configuration. If error still persists, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-SIM_NOT_READY : [chars] Modem is not ready. SIM status may be not current.

Explanation	SIM access cannot be granted or may return an error when : (1) The modem is not up or during a reset. (2) The SIM has gone bad.
Recommended Action	(1) Wait till MODEM UP message is seen from the console before accessing SIM. (2) Replacing with a working SIM. LOG_STD_SH_CMD_ACTION(show cellular x/x/x security<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-SIM_NOT_PRESENT : [[chars]]: SIM is not present in Slot [dec]

Explanation	SIM has not been detected in the NIM SIM socket
Recommended Action	Insert a valid sim in the NIM SIM socket.

%CELLWAN-6-SIM_PRESENT : [[chars]]: SIM is present in Slot [dec]

Explanation	SIM has been detected in the SIM socket
Recommended Action	No action

%CELLWAN-6-SIM_INSERTED : [[chars]]: SIM in slot [dec] has been inserted

Explanation	SIM is inserted to the slot.
Recommended Action	No action

%CELLWAN-6-SIM_REMOVED : [[chars]]: WARNING: SIM in slot [dec] has been removed

Explanation	SIM is removed from the slot.
Recommended Action	No action

%CELLWAN-2-SIM_SWITCH_FAILURE : [[chars]]: Failed to switch to SIM slot [dec] !!

Explanation Failed to switch to the requested NIM SIM slot**Recommended Action** Examine SIM in the indicated slot

%CELLWAN-5-SIM_DETECT_START : [[chars]]: SIM presence detection starts !!

Explanation SIM presence detection has started**Recommended Action** No action is required.

%CELLWAN-5-SIM_DETECT_COMPLETE : [[chars]]: SIM presence detection has completed !!

Explanation SIM presence detection has completed**Recommended Action** No action is required.

%CELLWAN-5-SIM_ACTIVATION : [[chars]]: SIM slot [dec] is being activated !!

Explanation The request to activate the indicated SIM slot has been sent to the modem**Recommended Action** No action is required.

%CELLWAN-5-SIM_ACTIVE : [[chars]]: SIM slot [dec] is Active !!

Explanation The indicated SIM slot is active.**Recommended Action** No action is required.

%CELLWAN-5-SIM_ACTIVATION_TIMEOUT : [[chars]]: SIM slot [dec] activation request timeout !!

Explanation Timeout on the request sent to the modem to activate the indicated SIM slot**Recommended Action** No action is required.

%CELLWAN-5-SIM_ACQUISITION_TIMEOUT : [[chars]]: SIM slot [dec] Acquisition Timer timeout !!

Explanation Timeout on the SIM slot acquisition timer, initiate sim switching request to the alter SIM slot

Recommended Action No action is required.

%CELLWAN-5-SIM_FAILOVER_TIMEOUT : [[chars]]: SIM slot [dec] Failover Timer timeout !!

Explanation Timeout on the SIM slot failover timer, initiate sim switching request to the alter SIM slot

Recommended Action No action is required.

%CELLWAN-2-INTERFACE_GOING_DOWN : [chars] is being shutdown temporarily due to authentication failure for [dec] secs.

Explanation The interface is being shutdown because the call could not be connected due to PPP authentication failures. The interface will be brought up after the specified time. This is to prevent frequent calls being attempted if authentication problems are not fixed.

Recommended Action Activate the modem again by following the steps in the user docs. If the problem persists contact the wireless service provider. LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-OMA_DM_NI_ALERT : [[chars]]: OMA DM NI Alert is received for [chars] Please execute 'cellular <unit> cdma activate oma-dm ni-alert [allow | deny]'

Explanation OMA DM Network-Initiated alert is received by modem

Recommended Action Please execute 'cellular <unit> cdma activate oma-dm ni-alert [allow | deny]'. It is recommended to allow the session so as to update device configuration or PRL that is being pushed by carrier. The session can be allowed when data call is disconnected. NI session will disconnect active call and service will be interrupted until the session is completed. Please use 'show cellular <unit> oma-dm ni-alert' to view the pending NI alert. Otherwise, deny the session if update is not required. For any support, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-OMA_DM_NO_OP : [[chars]]: OMA DM [chars] could not be completed. Please try again later. If the problem persists, you may need to contact Customer Service.

Explanation OMA DM session state is received by modem

%CELLWAN-2-OMA_DM_NO_OP : [[chars]]: OMA DM [chars] could not be completed. Please try again later. If the problem persists, you may need to contact Customer Service.

Recommended Action Activate the modem again by following the steps in the user docs. If the problem persists contact the wireless service provider. LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-OMA_DM_ERROR : [[chars]]: OMA DM [chars] Failed - Error:[hex]([chars])

Explanation OMA DM session state is received by modem

Recommended Action Activate the modem again by following the steps in the user docs. If the problem persists contact the wireless service provider. LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-OMA_DM_HFA_PENDING : [[chars]]: OMA DM [chars], waiting for retry in [int] seconds

Explanation OMA DM session state is received by modem

Recommended Action Activate the modem again by following the steps in the user docs. If the problem persists contact the wireless service provider. LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-OMA_DM_ACTIVE : [[chars]]: OMA DM [chars] session is active

Explanation OMA DM session state is received by modem

Recommended Action Activate the modem again by following the steps in the user docs. If the problem persists contact the wireless service provider. LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-OMA_DM_SUCCESS : [[chars]]: OMA DM [chars] completed successfully

Explanation OMA DM session state is received by modem

Recommended Action Activate the modem again by following the steps in the user docs. If the problem persists contact the wireless service provider. LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-OMA_DM_NO_PRL : [[chars]]: OMA DM - No PRL update available

Explanation OMA DM session state is received by modem

Recommended Action Activate the modem again by following the steps in the user docs. If the problem persists contact the wireless service provider. LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-POWER_SAVE_MODE : [[chars]]: is in Power save mode. Command ignored.

Explanation	radio is currently OFF on this NIM
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CELLWAN-5-SMS_SERVICE_AVAILABLE : [chars] SMS service is now available.

Explanation	You can send and receive text messages on this cellular interface
Recommended Action	No action is required.

%CELLWAN-5-SMS_SERVICE_UNAVAILABLE : [chars] SMS service is now unavailable.

Explanation	You can not send and receive text messages on this cellular interface
Recommended Action	No action is required.

%CELLWAN-5-INCOMING_SMS : [chars] has just received new incoming SMS.

Explanation	New incoming text messages arrived at cellular interface
Recommended Action	Please do 'cellular <unit> gsm cdma sms view' to read SMS

%CELLWAN-5-OUTGOING_SMS_SENT : [chars] has just sent an outgoing SMS successfully.

Explanation	Outgoing text message was sent successfully from cellular interface
Recommended Action	No action is required.

%CELLWAN-4-OUTGOING_SMS_ERROR : [chars] failed to send an outgoing SMS.

Explanation	Outgoing text message failed to send from cellular interface
Recommended Action	Please do 'show cellular <unit> sms' to see error code

%CELLWAN-4-OUTGOING_SMS_SERV_UNAVAIL : [chars] can't send an SMS because SMS service is not available.

Explanation Text message service is not available on specified cellular interface

Recommended Action Check modem is powered up, radio is not in power saving mode, and SIM is inserted

%CELLWAN-2-SMS_ARCH_PATH_UNCONFIGURED : [chars] failed to archive SMS because 'gsm|cdma|lte sms archive path' under cellular controller is not configured.

Explanation 'gsm|cdma|lte sms archive path' under cellular controller must be configured first before background incoming text message archive can function properly

Recommended Action Configure 'gsm|cdma|lte sms archive path' under cellular controller

%CELLWAN-5-SMS_INBOX_ARCH_DONE : [chars] has just archived all incoming SMS to FTP server successfully.

Explanation Incoming text messages were archived to FTP server successfully from cellular interface

Recommended Action No action is required.

%CELLWAN-2-SMS_INBOX_ARCH_OPEN_ERROR : [chars] failed to open [chars] to archive incoming SMS.

Explanation Incoming text messages archive to FTP server failed because the FTP URL configured with 'gsm|cdma|lte sms archive path' under cellular controller can not be opened

Recommended Action Please check that the FTP server configured under cellular controller is reachable, and that the directory exists

%CELLWAN-2-SMS_INBOX_ARCH_WRITE_ERROR : [chars] failed to write [chars] to archive incoming SMS.

Explanation Incoming text messages archive to FTP server failed because of write error to the FTP URL configured with 'gsm|cdma|lte sms archive path' under cellular controller

Recommended Action Please check that the FTP server configured under cellular controller with 'gsm|cdma|lte sms archive path' is reachable, and has enough storage space

%CELLWAN-5-SMS_INBOX_MSG_ARCH_DONE : [chars] has just archived an incoming SMS to FTP server successfully.

Explanation An incoming text message was archived to FTP server successfully from cellular interface

%CELLWAN-5-SMS_INBOX_MSG_ARCH_DONE : [chars] has just archived an incoming SMS to FTP server successfully.

Recommended Action No action is required.

%CELLWAN-5-SMS_OUTBOX_ARCH_DONE : [chars] has just archived an outgoing SMS to FTP server successfully.

Explanation An outgoing text message was archived to FTP server successfully from cellular interface

Recommended Action No action is required.

%CELLWAN-2-SMS_OUTBOX_ARCH_OPEN_ERROR : [chars] failed to open [chars] to archive an outgoing SMS.

Explanation Outgoing text message archive to FTP server failed because the FTP URL configured with 'gsm|cdma|lte sms archive path' under cellular controller can not be opened

Recommended Action Please check that the FTP server configured under cellular controller is reachable, and that the directory exists

%CELLWAN-2-SMS_OUTBOX_ARCH_WRITE_ERROR : [chars] failed to write [chars] to archive an outgoing SMS.

Explanation Outgoing text message archive to FTP server failed because of write error to the FTP URL configured with 'gsm|cdma|lte sms archive path' under cellular controller

Recommended Action Please check that the FTP server configured under cellular controller with 'gsm|cdma|lte sms archive path' is reachable, and has enough storage space

%CELLWAN-4-CELLULAR_FW_UNSUPPORTED : [chars]: Unsupported or older modem firmware [chars] detected, please upgrade modem to supported firmware of at least [chars]

Explanation The current firmware on specified cellular interface is not supported. Any actions and errors that occur will not be supported until the fw is upgraded to at least the version requested

Recommended Action Please upgrade to the latest FW from online using 'microcode reload'

%CELLWAN-2-DMLOG_FILTER_FILE_OPEN_ERROR : [chars] failed to open [chars] to read DM log filter.

Explanation Failed to open filter file from the location configured with 'gsm|cdma|lte modem dm-log filter' under cellular controller

Recommended Action Please check that the path configured under cellular controller is reachable

%CELLWAN-2-DMLOG_OUTPUT_FILE_OPEN_ERROR : [chars] failed to open [chars] to archive DM log files.

Explanation Saving DM packets to file system failed. Output file URL configured with 'gsm|cdma|lte modem dm-log output path' under cellular controller can not be opened

Recommended Action Please check that the path configured under cellular controller is reachable

%CELLWAN-2-DMLOG_OUTPUT_WRITE_ERROR : [chars] failed to write [chars] DM packets to configured file system

Explanation Saving DM packets to file system failed because of write error to the URL configured with 'gsm|cdma|lte modem dm-log output path' under cellular controller

Recommended Action Please check that the URL configured under cellular controller with 'gsm|cdma|lte modem dm-log output path' is reachable, and has enough storage space

%CELLWAN-2-DMLOG_OUTPUT_SPACE_FULL : [chars] DM log file storage is full!

Explanation Saving DM packets to file system failed because there is no more space left on the URL configured with 'gsm|cdma|lte modem dm-log output path' under cellular controller

Recommended Action Please delete existing log files from the specified URL 'gsm|cdma|lte modem dm-log output path' or upload them to the server then re-enable logging.

%CELLWAN-5-DMLOG_AUTOSTOP_TRIGGER : [chars]: DM logging will be stopped in [dec] [chars], autostop trigger event [chars] set

Explanation DM log autostop trigger event configured, DM logging will be stopped after the timer expiry

Recommended Action No action is required.

%CELLWAN-5-DMLOG_AUTOSTOP_TIMER_EXPIRY : [chars]: DM logging stopped

Explanation DM logging is stopped due to autostop trigger timer expiry

%CELLWAN-5-DMLOG_AUTOSTOP_TIMER_EXPIRY : [chars]: DM logging stopped

Recommended Action No action is required.

%CELLWAN-5-DMLOG_AUTOSTOP_TIMER_CANCEL : [chars]: DM logging autostop timer canceled

Explanation DM logging autostop timer is canceled

Recommended Action No action is required.

%CELLWAN-5-DMLOG_DISABLE_OIR : [chars]: OIR Detected. DM logging stopped

Explanation DM logging is stopped due to OIR

Recommended Action No action is required.

%CELLWAN-5-DMLOG_DISPLAY_OUTPUT_PATH_EXTERN : DM log output path = bootflash:/core/modules

Explanation DM log output path set to bootflash:/core/modules

Recommended Action

%CELLWAN-5-DMLOG_DISPLAY_OUTPUT_PATH_INTEGRATED : DM log output path = bootflash:

Explanation DM log output path set to bootflash:/

Recommended Action

%CELLWAN-2-SVBLOG_OUTPUT_FILE_OPEN_ERROR : [chars] failed to open [chars] to archive SVB log files.

Explanation Saving SVB packets to file system failed. Output file URL configured with 'gsm|cdma|lte modem dm-log output path' under cellular controller can not be opened

Recommended Action Please check that the path configured under cellular controller is reachable

%CELLWAN-2-SVBLOG_OUTPUT_WRITE_ERROR : [chars] failed to write [chars] SVB packets to configured file system

Explanation	Saving SVB packets to file system failed because of write error to the URL configured with 'gsm cdma lte modem dm-log output path' under cellular controller
Recommended Action	Please check that the URL configured under cellular controller with 'gsm cdma lte modem dm-log output path' is reachable, and has enough storage space

%CELLWAN-2-SVBLOG_OUTPUT_SPACE_FULL : [chars] SVB log file storage is full!

Explanation	Saving SVB packets to file system failed because there is no more space left on the URL configured with 'gsm cdma lte modem dm-log output path' under cellular controller
Recommended Action	Please delete existing log files from the specified URL 'gsm cdma lte modem dm-log output path' or upload them to the server then re-enable logging.

%CELLWAN-5-SVBLOG_AUTOSTOP_TRIGGER : [chars]: SVB logging will be stopped in [dec] minutes, autostop trigger event [chars] set

Explanation	SVB log autostop trigger event configured, SVB logging will be stopped after the timer expiry
Recommended Action	No action is required.

%CELLWAN-5-SVBLOG_AUTOSTOP_TIMER_EXPIRY : [chars]: SVB logging stopped

Explanation	SVB logging is stopped due to autostop trigger timer expiry
Recommended Action	No action is required.

%CELLWAN-5-SVBLOG_AUTOSTOP_TIMER_CANCEL : [chars]: SVB logging autostop timer canceled

Explanation	SVB logging autostop timer is canceled
Recommended Action	No action is required.

%CELLWAN-2-WCDMA_ALL_BAND_UNDEFINED : [[chars]]: wcdma-all band not supported

Explanation	wcdma-all band is not supported by modem or not defined
Recommended Action	Please contact TAC support LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-CALL_SETUP_FAIL : [chars] data call setup failed due to [chars].

Explanation Data call setup failed because the IP address configured under cellular interface does not match the IP address assigned by the network

Recommended Action Please check the IP address configuration under cellular interface

%CELLWAN-2-MDM_LINK_FAILURE : [chars] direct IP synchronization process fails after [dec] attempts

Explanation Direct IP synchronization fails to come up after maximum number of attempts.

Recommended Action Contact customer service if the problem persists.

%CELLWAN-3-GPS_FAIL_START_TRACK : [[chars]] GPS failed to start tracking - [chars] [[hex]], please try again

Explanation Modem failed to enable GPS mode due to error indicated. Fix that error and try again.

Recommended Action Fix error indicated and try enabling GPS again.

%CELLWAN-3-GPS_FAIL_END_SESSION : [[chars]] GPS failed to end location fix session - [chars] [[hex]], please try again

Explanation Modem failed to disable GPS mode due to error indicated. Fix that error and try again.

Recommended Action Fix error indicated and try disabling GPS again.

%CELLWAN-2-GSM_PROFILE_UNDEFINED : [[chars]]: Default profile [dec][chars] does not exist. Please execute 'cellular <unit> gsm profile create <profile #>' to create the profile.

Explanation Default profile is undefined. the profile does not exist because it is not defined or is deleted.

Recommended Action Create the profile by cellular exec cli. If error still persists, please provide the following: LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-3-GSM_PROFILE_CREATION_FAILURE : [[chars]] GSM profile creation fails - [chars] [[hex]], please try again

Explanation Modem failed to create the GSM profile due to error indicated. Fix that error and try again.

Recommended Action Fix error indicated and try creating GSM profile again.

%CELLWAN-2-MODEM_TIMEOUT : Modem in [chars] not responding

Explanation The cellular modem is not responding.

Recommended Action If the problem persists, please provide the following:
LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-4-CELLULAR_MODEM_SKU_MISMATCH : [chars]: Mismatch detected between installed modem [chars][SKU ID [chars]] on SKU type [chars]. Expected modem for this SKU is [chars][SKU ID [chars]]

Explanation Incorrect modem type has been installed on this SKU. Any actions and issues caused by it will not be supported

Recommended Action Please contact the cisco customer service to replace the card

%CELLWAN-1-POOL_INIT_FAIL : cellular pool init failed for subslot [dec]/[dec] pool name [chars]

Explanation The NIM cellular pool init failed for this module.

Recommended Action If the problem persists, please provide the following:
LOG_STD_SH_CMD_ACTION(show cellular x/x/x all<noCmdBold> command and <CmdBold>show tech-support)

%CELLWAN-2-QOS_ENABLED : QoS Feature in [chars] is now activated

Explanation QoS Feature is now enabled and activated in the modem.

Recommended Action QoS Feature is now enabled and activated in the modem.

%CELLWAN-2-QOS_NW_STATUS : Network status for QoS feature is [chars] in [chars].

Explanation Network status for QoS feature is either enabled or disabled by the carrier.

Recommended Action check with carrier if you expect QoS feature but it is disabled

%CELLWAN-2-QOS_PRI_EVENT_STATUS : QoS Event Status = [dec] for default bearer in [chars] in [chars].

Explanation	QoS Event Status for default bearer for the cellular interface.
Recommended Action	check with carrier to see if the default bearer config is changed

%CELLWAN-2-BEARER_UP : Instance id=[dec], [chars] bearer (bearer_id=[int]) QCI=[dec] in [chars] is now UP

Explanation	default/dedicated bearer has been added.
Recommended Action	Check the TFT rules of the dedicated bearer by doing show cellular and configure the host QoS configuration to match the TFT rules

%CELLWAN-2-BEARER_DOWN : Instance id=[dec], [chars] bearer (bearer_id=[int]) QCI=[int] in [chars] is now down.

Explanation	default/dedicated bearer has been deleted.
Recommended Action	Host QoS configuration may need to be modified to match the modem configuration

%CELLWAN-2-BEARER_DELETED : [chars] bearer (bearer_id=[int]) in [chars] is now deleted.

Explanation	default/dedicated bearer has been deleted.
Recommended Action	Host QoS configuration may need to be deleted to match the modem configuration

%CELLWAN-2-BEARER_SUSPENDED : Instance id=[dec], [chars] bearer (bearer_id=[int]) QCI=[dec] in [chars] is now suspended.

Explanation	default/dedicated bearer has been suspended.
Recommended Action	Host QoS configuration may need to be suspended to match the modem configuration

%CELLWAN-2-BEARER_MODIFIED : Instance id=[dec], [chars] bearer (bearer_id=[int]) QCI=[dec] configuration in [chars] is modified

Explanation	default/dedicated bearer configuration has been modified.
Recommended Action	Check the TFT rules of the dedicated bearer by doing show cellular and configure the host QoS configuration to match the TFT rules

%CELLWAN-2-BEARER_CONGESTION_ON : Instance id=[dec], [chars] bearer (bearer_id=[int]) QCI=[int] in [chars] is congested

Explanation	Traffic congestion present in the dedicated bearer. If it does not clear, make sure the host QOS configuration matches the dedicated bearer configuration
Recommended Action	Check the MBR of the dedicated bearer by doing show cellular and configure the host QOS configuration to match MBR of the dedicated bearer.

%CELLWAN-2-BEARER_CONGESTION_OFF : Instance id=[dec], [chars] bearer (bearer_id=[int]) QCI=[int] in [chars] is NOT congested now

Explanation	Traffic congestion has cleared in the dedicated bearer
Recommended Action	No action is needed

%CELLWAN-2-DEDICATED_BEARER_STATUS_UNKNOWN : Instance id=[dec], [chars] bearer (bearer_id=[int]) QCI=[int] configuration in [chars] is unknown=[dec]

Explanation	Dedicated bearer configuration status is unknown.
Recommended Action	Check the TFT rules of the dedicated bearer by doing show cellular and report the TFT rules to the carrier.

%CELLWAN-4-MANUAL_PLMN_SELECTION_FAILED : Manual/Force PLMN Selection Failed. [chars]

Explanation	Manual/Force PLMN Selection Failed
Recommended Action	Please use Different PLMN or check number of MNC Bits in PLMN Selection

%CELLWAN-4-DG_SMS_CONFIG_FAILED : Dying Gasp SMS Configuration Failed. [chars]

Explanation	Dying Gasp SMS Configuration Failed.
Recommended Action	Please try Dying Gasp SMS Configuration later

%CELLWAN-4-DG_DETACH_CONFIG_FAILED : Dying Gasp Detach Configuration Failed. [chars]

Explanation	Dying Gasp Detach Configuration Failed.
Recommended Action	Please try Dying Gasp Detach Configuration later

%CELLWAN-4-MODEM_RESTART_IND : [chars] Modem restart [chars]

Explanation Modem Restart Indication**Recommended Action** No action is needed

%CELLWAN-4-MODEM_COMM_FAIL : Communication between Modem and IOS failed: [chars]

Explanation Communication between Modem and IOS Failed**Recommended Action** Modem Reset will recover

%CELLWAN-6-CELLULAR_BACKOFF_START : [chars]: Cellular back-off has started on PDN [dec]

Explanation Back off has started because of certain error codes from network side**Recommended Action**

%CELLWAN-6-CELLULAR_BACKOFF_STOP : [chars]: Cellular back-off has stopped on PDN [dec]

Explanation Back off has stopped**Recommended Action**

%CELLWAN-6-CELLULAR_NETWORK_ATTACH_FAILURE : [chars]: Cellular network attachment failure. Reject Cause [dec], [chars].

Explanation Network attachment failure**Recommended Action** Check 3GPP Table 10.5.95/3GPP TS 24.008 for information

%CELLWAN-2-LINK_RECOVERY : [chars]: Cellular Modem has been power cycled : [chars]

Explanation Link Recovery Process has detected an inconsistent state of the modem**Recommended Action**

%CELLWAN-2-DYING_GASP_POWER_FAILURE : Dying Gasp SMS will not be sent out by Modem in slot [dec]/[dec] due to standby power failure. Please contact TAC.

Explanation Modem doesn't have enough power to send Dying Gasp SMS

Recommended Action Please contact TAC

%CELLWAN-2-DYING_GASP_POWER_SUCCESS : Modem in slot [dec]/[dec] has sufficient power to send Dying Gasp SMS

Explanation Modem has sufficient power to send Dying Gasp SMS

Recommended Action No action is needed

%CELLWAN-2-CRASHDUMP_SUCCESS : [chars]:Crashdump successfully logged in /bootflash/

Explanation Cellular Modem Crashdump files successfully logged to local flash.

Recommended Action

%CELLWAN-6-FOTA_DNLD_STARTED : [[chars]]: Firmware download started in cellular slot [dec]/[dec]

Explanation FOTA Cellular modem firmware download started.

Recommended Action

%CELLWAN-6-FOTA_DNLD_COMPLETE : [[chars]]: Firmware has been downloaded for modem in cellular slot [dec]/[dec]

Explanation FOTA Cellular modem firmware download started.

Recommended Action

%CELLWAN-6-FOTA_UPGRADE_STARTED : [[chars]]: Firmware upgrade started in cellular slot [dec]/[dec]. Modem will reset and come up with new firmware.

Explanation FOTA Cellular modem firmware upgraded started.

Recommended Action

%CELLWAN-6-FOTA_UPGRADE_SUCESS : [[chars]]: Firmware upgrade successful in cellular slot [dec]/[dec]

Explanation FOTA Cellular modem firmware upgraded successfully.**Recommended
Action**

%CELLWAN-6-FOTA_UPGRADE_TIMEOUT : [[chars]]: Firmware upgrade timed out in cellular slot [dec]/[dec]

Explanation FOTA Cellular modem firmware upgrade timed out.**Recommended
Action**

CEM

%CEM-1-ISSU_NOMEMORY : msgtxt_nomemory

Explanation The requested operation could not be accomplished because of a low memory condition.**Recommended
Action** Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%CEM-3-ISSU_SENDFAILED : CEM ISSU: send message failed, rc = [dec]

Explanation The sending of a message has failed.**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CEM-4-ISSU_INCOMPATIBLE : cem-issu-compat: returned FALSE

Explanation The compatibility checking has failed**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CEM-4-ISSU_XFORM : [chars]: failed, rc=[chars]

Explanation	The transform has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CENT

%CENT-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]

Explanation	For a request from upper CENT software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%CENT-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation	For a request from upper CENT software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%CENT-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation	Registering an IPC message handler for the CENT feature failed. This will cause the feature to not function.
Recommended Action	This is normally a software issue. The consequences are that the CENT feature will not function. LOG_STD_ACTION

CFC_LISP

%CFC_LISP-3-ALLOCATEFAIL : Failed to allocate memory for [chars]

Explanation	An internal software error occurred. This is probably because not enough memory was available.
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%CFC_LISP-3-ALLOCATEFAIL : Failed to allocate memory for [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CFC_LISP-3-SB_OPERATION_FAILED : Failed to [chars] subblock on [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-LOCAL_EID : Failed to [chars] local EID prefix [chars]/[int]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-REMOTE_EID : Failed to [chars] remote EID prefix [chars]/[int][chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-REMOTE_EID_PREFIX : Failed to [chars] remote EID prefix [chars][chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-NO_ADJ : Failed to find adjacency for [chars] [chars] [chars] [int]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-NO_FIBIDB : Failed to find fibidb for [chars] [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-NO_SB : Failed to find subblock for [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-NO_TABLE : Failed to find table for [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-BG_PROCESS : Background process failed to [chars]

Explanation	An internal software error occurred.
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%CFC_LISP-3-BG_PROCESS : Background process failed to [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CFC_LISP-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation	Initialization of the specified subblock data structure could not be accomplished.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-TABLE_STATE : Error setting state for table [chars] to top-id [int], iid [int], role [chars], [chars][chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-TABLE_BIND : Error setting [chars] table [chars] for top-id [int], iid [int], [chars][chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-TREE_OP_FAIL : Tree [chars] failed for [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-VIF : Unable to [chars] virtual interface [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-ADJ_SEQ : Adjacency [chars] is still complete after interface shutdown

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-NO_VIF : Unable to find [chars]virtual interface [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-UNABLE_TO_IDENTIFY_TABLE : Unable to identify table for packet from [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-INVALID_INPUT : Invalid input [chars] to [chars]

Explanation	An internal software error occurred.
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%CFC_LISP-3-INVALID_INPUT : Invalid input [chars] to [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CFC_LISP-3-RLOC_VRF_IN_USE : RLOC vrfid [int] already in use by user [chars] top-id [int], cannot assign to top-id [int]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-UNEXPECTED_PKT : [chars]: [hex]

Explanation	A packet with an unexpected protocol was given to the LISP datapath.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-UNKNOWN_PAYLOAD : Dropping LISP encapsulated packet, unknown payload [hex]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-5-IGNOREICMPMTU : Ignoring received ICMP Type 3 Code 4, [chars]->[chars] next hop mtu [int], due to pmtu min or max setting

Explanation	An ICMP Type 3 Code 4 (fragmentation needed and DF set) packet has been received. This packet has specified a Next-Hop MTU that is smaller or greater than the current minimum or maximum path MTU discovery mtu value. The ICMP packet has been ignored and the MTU has not been changed.
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%CFC_LISP-5-IGNOREICMPMTU : Ignoring received ICMP Type 3 Code 4, [chars]->[chars] next hop mtu [int], due to pmtu min or max setting

Recommended Action If you want the ICMP packet to be accepted and used, use the `ip lisp pmtu min NUMBER max NUMBER` command to decrease the minimum MTU allowed and/or increase the maximum MTU that is allowed.

%CFC_LISP-5-IGNOREICMPV6MTU : Ignoring received ICMPv6 Type 2, [chars]->[chars] next hop mtu [int], due to pmtu min or max setting

Explanation An ICMPv6 Type 2 (Packet Too Big) packet has been received. This packet has specified a Next-Hop MTU that is smaller or greater than the current minimum or maximum path MTU discovery mtu value. The ICMP packet has been ignored and the MTU has not been changed.

Recommended Action If you want the ICMP packet to be accepted and used, use the `ipv6 lisp pmtu min NUMBER max NUMBER` command to decrease the minimum MTU allowed and/or increase the maximum MTU that is allowed.

%CFC_LISP-3-IPL_SRC : Failed to [chars] IPL source [chars] [chars]/[int][chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-PUSH_CNTR : Failed to [chars] push counter for [chars][chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-ELIG_OCE : Failed to [chars] LISP eligibility oce [chars][chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-DECAP_OCE : Failed to [chars] LISP decapsulation OCE: [chars][chars]

Explanation An operation dealing with a LISP decapsulation OCE encountered an error. The error message will indicate which operation failed, and the address-family context.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-SIGNAL_OCE : Failed to [chars] LISP signal OCE [chars][chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-TIMESTAMP_CTRL_PKT : Failed to timestamp LISP control packet

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-FREE_WITH_DEPS : Request to remove dependency sb on [chars] with dependents

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-DEP_ELEM : Request to [chars] dependency [chars]

Explanation An internal software error occurred.

%CFC_LISP-3-DEP_ELEM : Request to [chars] dependency [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-ADJ : Request to [chars] adjacency [chars][chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-5-ADJ_STACK : Stacking adjacency [chars] [chars][chars][chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-XDR_REG_ERR : Failed to register XDR client [chars] ([int]), error [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-XDR_LEN_ERR : Failed to [chars] XDR message [chars] len [int] > max [int]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-ISSU_REG_ERR : Failed to register [chars] for ISSU client [chars] ([int]) entity [int], error [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-ISSU_NEGO_ERR : Failed to negotiate [chars] for XDR client [chars], error [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-ISSU_XFORM_ERR : Failed to ISSU transform XDR message [chars], error [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-UNKN_INSTANCE : Unknown instance, unable to find/create virtual interface

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-WALK_DEP : Walking dependents [chars][chars][chars]

Explanation	An internal software error occurred.
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%CFC_LISP-3-WALK_DEP : Walking dependents [chars][chars][chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-TERM_ADJ : Terminal adjacency [chars][chars][chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-5-BELOW_MIN_MTU : Cannot set [chars] MTU for RLOC [chars] to [int], [chars] MTU for [chars] [chars] is [int], below minimum MTU [int]+[int] required for LISP encap

Explanation Unable to set the EID payload MTU for a remote RLOC below the minimal MTU, this will cause the encapsulated packet to be bigger than the MTU of the path to the remote RLOC, and may cause packet loss.

Recommended Action Increase the MTU of the path to the remote RLOC

%CFC_LISP-3-DEPRECATED_API : Use of a deprecated API [chars][chars]

Explanation

Recommended Action Increase the MTU of the path to the remote RLOC

%CFC_LISP-3-UNEXPECTED_PATH : Unexpected path type [chars]/[int]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-NO_PATH : Failed to resolve path type for [chars]:[chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-SRC_RLOC_IDX : [chars] source RLOC index database[chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-GSMR : Failed to [chars] generalised SMR attribute for [chars]/[int]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CFC_LISP-3-DYN_EID_IP_ADDR_CONFLICT : Ignore dynamic EID detection due to IP Address conflict [chars]:[chars] on [chars]

Explanation	A dynamic EID Host attempted to register with an IP address conflicting with the XTR gateway. Refer to error message log for more details.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CFT**%CFT-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]**

Explanation	For a request from upper CFT software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%CFT-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation	For a request from upper CFT software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%CFT-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation	Registering an IPC message handler for the CFT feature failed. This will cause the feature to not function.
Recommended Action	This is normally a software issue. The consequences are that the CFT feature will not function. LOG_STD_ACTION

CFT_API**%CFT_API-3-CFT_ERRMSG_NO_MEMORY : [chars] [chars] [dec]**

Explanation	The system was unable to supply the requested memory for flow processing to continue.
Recommended Action	Check the available memory on your system. Possible solutions include: disable some features; reduce other system activities to ease memory demands; upgrade to a larger memory configuration. LOG_STD_SH_TECH_ACTION

%CFT_API-3-CFT_ERRMSG_MAX_MEMORY : [chars] [chars] [dec]

Explanation	The maximum number of concurrent flows allowed has been exceeded. Some flows might not received the provisioned level of service.
Recommended Action	This is the platform limit. Either lower the network load on this device or upgrade to a higher capacity platform. LOG_STD_SH_TECH_ACTION

%CFT_API-4-CFT_ERRMSG_CLIENT_PRE_CREATE_PREVENTED : [chars] [chars] [dec]

Explanation	Flow creation was prevented by a flow table client. This may be due to an explicit policy that is enabled.
Recommended Action	Check your policies to ensure this what you intend. LOG_STD_SH_TECH_ACTION

%CFT_API-4-CFT_ERRMSG_FLOW_CREATION_PREVENTED : [chars] [chars] [dec]

Explanation	Flow creation was denied by a the system. A possible denial of service attack may have been detected.
Recommended Action	Modify your denial of service policy if this is in error. LOG_STD_SH_TECH_ACTION

%CFT_API-5-CFT_ERRMSG_UNSUPPORTED_L3_PROTOCOL : [chars] [chars] [dec]

Explanation	An unsupported layer 3 protocol was identified.
Recommended Action	Flow based inspection does not support this protocol at this time. LOG_STD_SH_TECH_ACTION

%CFT_API-5-CFT_ERRMSG_NON_FIRST_IP_FRAGMENT : [chars] [chars] [dec]

Explanation	The flow table was unable to process a TCP fragmented packet. Service for these packets may be unavailable.
Recommended Action	Enable the virtual fragment reassembly (VFR) functionality. If fragmentation is excessive, try to identify the source in your network topology that is causing packet fragmentation. LOG_STD_SH_TECH_ACTION

%CFT_API-7-CFT_ERRMSG_CLIENT_API : [chars] [chars] [dec]

Explanation	A CFT client may have a incorrectly accessed an API.
Recommended Action	This is an internal software error. Please report it to your technical support representative. LOG_STD_SH_TECH_ACTION

%CFT_API-3-CFT_ERRMSG_UNKNOWN : [chars] [chars] [dec]

Explanation	The error message type does not match the possible enumerated definitions.
Recommended Action	This is an internal software error. Please report it to your technical support representative. LOG_STD_SH_TECH_ACTION

CHASFS**%CHASFS-3-NOCHASFS DIR : The directory [chars] does not exist.**

Explanation	No explanation.
Recommended Action	No action is required.

%CHASFS-3-NOINOTIFY : The inotify device could not be opened. Error [dec].

Explanation	This error occurs when there is an error in the system that prevents the notification facility from being accessed.
Recommended Action	No action is required.

%CHASFS-3-NORESOLVE_LOCAL_OBJECT : Error resolving local FRU object: [chars]

Explanation	An application was not able to create a reference to an object in its local chassis file system.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CHASFS-3-NOOPEN_PROPERTY : Error opening chassis file system object [chars]: [chars]

Explanation	An application was not able to open a an object in its local chassis file system.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

CHAT**%CHAT-3-CANTRUN : %t in use, can't run startup script**

Explanation	When the startup script attempted to run, it found another process had Already been started on the line
Recommended Action	Remove startup script from line configuration if it's inappropriate. Report to cisco.

CISCO_STUN through CMAN_IDPROM_ENVMON

- CISCO_STUN
- CLEAR
- CLIENT_EXCLUSION_SERVER
- CLIENT_ORCH_GUEST_LAN_LOG
- CLIENT_ORCH_LOG
- CLOCK_RECOVERY
- CLS
- CLSDR
- CMANRP
- CMAN_IDPROM_ENVMON

CISCO_STUN

**%CISCO_STUN-3-QUEUE_ERROR : Unable to enqueue event [chars] ([dec]) to a process watched queue.
Current size: [dec], max size: [dec]**

Explanation An internal or external event was dropped because it could not be added to the queue, probably because the queue is full. The result may be minor (retransmission of a STUN message) or major (dropped call), depending on the event which was lost. This error may indicate that the call rate is exceeding the capacity of the gateway. If this is the case, the CPU utilization will be excessively high (above 75%).

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show process cpu** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

CLEAR

%CLEAR-5-COUNTERS : Clear counter on [chars] [chars] by [chars]

Explanation The counters have been cleared on the interface(s)

Recommended Action No action is required.

%CLEAR-5-EXT_COUNT : Clear extended [chars] counters on [chars] by [chars]

Explanation	The extended counters have been cleared on the interface(s)
Recommended Action	No action is required.

CLIENT_EXCLUSION_SERVER

%CLIENT_EXCLUSION_SERVER-5-ADD_TO_BLACKLIST_REASON :

Explanation	Client was added to exclusion list
Recommended Action	Message notification informing about the client was added to exclusion list

CLIENT_ORCH_GUEST_LAN_LOG

%CLIENT_ORCH_GUEST_LAN_LOG-7-CLIENT_RECEIVED : Wired Guest Client [chars] join request received on vlan [int] - interface [chars]

Explanation	New Wired Guest client join received
Recommended Action	No action is required

%CLIENT_ORCH_GUEST_LAN_LOG-3-CLIENT_JOIN_FAILED : Wired Guest client [chars] failed joining on vlan [int] physical interface [chars]. Reason: [chars]

Explanation	Wired Guest client failed joining
Recommended Action	If this message occurs, client failed joining and was deleted.

%CLIENT_ORCH_GUEST_LAN_LOG-3-CLIENT_JOIN_FAILED_NO_MAC : Refusing creation of wired Guest client with no MAC on vlan [int] physical interface [int].

Explanation	Wired Guest client failed joining
Recommended Action	If this message occurs, client failed joining and was deleted.

%CLIENT_ORCH_GUEST_LAN_LOG-5-CLIENT_JOIN_IGNORED : Already existing client [chars] join request on vlan [int] and physical interface [int] was ignored

Explanation	A request to join the client was ignored because the client is already connected
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%CLIENT_ORCH_GUEST_LAN_LOG-5-CLIENT_JOIN_IGNORED : Already existing client [chars] join request on vlan [int] and physical interface [int] was ignored

Recommended Action No action is required

CLIENT_ORCH_LOG

%CLIENT_ORCH_LOG-4-ANCHOR_INVALID_WLAN_ID : Export anchor required but unable to get wlan id for: Wlan-Profile: [chars], Policy Profile: [chars], client [chars]

Explanation Export anchor required but unable to get wlan id

Recommended Action If this message occurs, it implies that Wlan name is not configured

%CLIENT_ORCH_LOG-4-ANCHOR_NOT_EXPORT_WLAN : Export anchor required but wlan not configured as mobility export anchor for: Wlan-Profile: [chars], Policy Profile: [chars], client [chars]

Explanation Export anchor required but wlan not configured as mobility export anchor

Recommended Action If this message occurs, it implies that Wlan is not configured as mobility export anchor

%CLIENT_ORCH_LOG-4-ANCHOR_WEBAUTH_ON_MAC_FAILURE_CONFIGURATION_MISMATCH_BETWEEN_ANCHOR_AND_FOREIGN : Export anchor: webauth on mac failure configuration mismatch between anchor and foreign for: Wlan-Profile: [chars], Policy Profile: [chars], client [chars]

Explanation Webauth on Mac Failure configuration mismatch between anchor and foreign

Recommended Action If this message occurs, it implies that Wlan on anchor or foreign is not configured for webauth on mac failure

%CLIENT_ORCH_LOG-4-ANCHOR_INVALID_MBSSID : Export anchor required but config is incorrect (e.g.: wlan should be up, wlan profile name and policy profile name should match) for: Wlan-Profile: [chars], Policy Profile: [chars], client [chars]

Explanation Export anchor required but config is incorrect (e.g.: wlan should be up, wlan profile name and policy profile name should match)

Recommended Action If this message occurs, it implies that Wlan needs to be up or wlan profile name and policy profile name need to match

%CLIENT_ORCH_LOG-4-ANCHOR_VAP_SECURITY_MISMATCH : Export anchor required but local and remote security configuration is not matching for: Wlan-Profile: [chars], client [chars]

Explanation Export anchor required but local and remote security configuration is not matching

Recommended Action If this message occurs, it implies that local and remote wlan need to have the same security settings

%CLIENT_ORCH_LOG-5-ADD_TO_BLACKLIST_REASON : Client [chars] with IP: [chars] was added to exclusion list, legit Client [chars], IP: [chars], reason: [chars]

Explanation Blacklisting client on IP address theft or MAC address theft or IP and MAC address theft.

Recommended Action If this message occurs, it implies that there was IP theft or MAC address theft or IP and MAC address theft.

%CLIENT_ORCH_LOG-5-ADD_TO_BLACKLIST_MAC_THEFT_REASON : Client [chars] with IP: [chars] was added to exclusion list, legit ifid: [hex], current ifid: [hex], reason: [chars]

Explanation Blacklisting client on MAC address theft.

Recommended Action If this message occurs, it implies that there was MAC address theft.

%CLIENT_ORCH_LOG-6-CLIENT_ADDED_TO_RUN_STATE : Username entry ([chars]) joined with ssid ([chars]) for device with [chars]

Explanation Details for client when it goes to run state

Recommended Action If this message occurs, it implies that client successfully went to RUN state

%CLIENT_ORCH_LOG-5-WEBAUTH_ON_MAB_FAILURE_ROAMING_DENIED : Client [chars] : Roaming denied, reason: [chars]

Explanation Roaming denied for Webauth on MAB failure client.

Recommended Action If this message occurs, it means that roaming occurred with controllers with different MAC authentication lists.

CLOCK_RECOVERY

%CLOCK_RECOVERY-4-CLOCK_FAILED : [chars] on module [dec]/[dec] failed

Explanation This message indicates that an active recovered or enhanced clock has failed

%CLOCK_RECOVERY-4-CLOCK_FAILED : [chars] on module [dec]/[dec] failed

Recommended Action No action is required.

%CLOCK_RECOVERY-6-CLOCK_ACTIVE : [chars] on module [dec]/[dec] is now active

Explanation This message indicates that a recovered or enhanced clock has become active

Recommended Action No action is required.

CLS

%CLS-3-CLSFAIL : CLS: Assertion failed: [chars]

Explanation A software or hardware error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CLS-3-CLSMSG : [chars]

Explanation A software error detected while manipulating CLSIMsg objects.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CLS-3-BOGUSOP : Unknown CLS verb for [chars] context, DlCOpcodeT=[hex]

Explanation A bad opcode was generated by the DLC for the STN or CEP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

CLSDR**%CLSDR-3-NOINIT : CLSDRIVER not initialized**

Explanation	A CLSDRIVER initialization failed earlier. Trying to use the driver now results in an error condition.
Recommended Action	Remove and then restore the destination logical unit (DLU) in the configuration file and try and reboot the system. LOG_STD_ACTION

%CLSDR-3-NOREMOVEPORT : RemovePort: port [hex] not on list

Explanation	The destination logical unit (DLU) is trying to remove a nonexistent port from the list of active ports because it does not have the correct list of active ports.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CLSDR-3-NOREMOVECEP : RemoveCep : Cep [hex] not on list

Explanation	The destination logical unit (DLU) is trying to remove a nonexistent connection end point from the internal data structure. This creates a problem in the connection end point (CEP) maintenance logic.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CLSDR-3-NODLUCREATE : Cannot create DLU for this type [dec]

Explanation	The CLSDRIVER does not understand the destination logical unit (DLU) type. Currently, only STUN uses the CLSDRIVER. Any other value results in an error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CLSDR-3-NOPORTCREATE : Cannot create PORT structure

Explanation	The CLSDRIVER cannot enable this port for processing.
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%CLSDR-3-NOPORTCREATE : Cannot create PORT structure

Recommended Action	Try rebooting the router. LOG_STD_ACTION
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%CLSDR-3-NOCLSSERVER : unable to start the Server process

Explanation	Could not start the CLSDRIVER process, possibly due to a resource problem. The subsystem using CLSDRIVER does not work.
Recommended Action	Remove and then restore the destination logical unit (DLU) in the configuration file and try and reboot the system. LOG_STD_ACTION

%CLSDR-3-INCORRECTPORT : Incorrect port pointer in USapId

Explanation	Cisco Link Services I (CLSI) returned an incorrect port pointer in the USapID.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CLSDR-3-NOCEP : Cannot found cep in free pool

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CLSDR-3-WRONGMSG : Should never be here, cls message type unknown [hex]

Explanation	The CLS message type is unknown to the destination logical unit (DLU).
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CLSDR-3-MSGERR : [chars] couldn't get a message

Explanation The destination logical unit (DLU) could not send a correct message to Cisco Link Services I (CLSI) because the message was formed incorrectly. CLSI will not perform the desired action.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CLSDR-3-ERRRTN : [chars] failed error [hex]

Explanation An error was returned from Cisco Link Services I (CLSI) to the destination logical unit (DLU) because CLSI did not perform the action desired by the DLU.

Recommended Action Refer to CLSI software documentation for more information about this error. Report this error to your technical support representative.

CMANRP

%CMANRP-3-MSGDISPATCHNULL : Received NULL TDL message from IOS

Explanation An unexpected condition in which IOS has received a NULL TDL message from Chassis Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMANRP-3-MSGDISPATCH : Unable to dispatch received TDL message '[chars]' from Chassis Manager. LUID: [chars]

Explanation An unexpected condition has occurred while IOS is trying to dispatch to the TDL message handler functions for received TDL messages from Chassis Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMANRP-3-MSGIPCERR : Unable to process received IPC messages from Chassis Manager, error: [chars]

Explanation An unexpected condition has occurred while IOS is trying to process a received IPC message from Chassis Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMANRP-3-INVERR : Unable to process chassis inventory for file [chars], slot [dec], [chars], error [dec]. Some SPA's may not be fully configured

Explanation An unexpected condition has occurred while IOS is trying to process the chassis inventory on startup. IOS can not determine the type and number of all Carrier Cards and SPA's present in the system. Some configuration relating to these SPA's may not be applied and leave the system in an inconsistent state.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMANRP-3-INVERRSPA : Unable to process chassis inventory for file [chars], SPA subslot [dec]/[dec], [chars], error [dec]. Some SPA's may not be fully configured

Explanation An unexpected condition has occurred while IOS is trying to process the chassis inventory on startup. IOS can not determine the type and number of all Carrier Cards and SPA's present in the system. Some configuration relating to these SPA's may not be applied and leave the system in an inconsistent state.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMANRP-2-CRASHDUMP : Fatal error, calling crashdump, error: [dec] [chars]

Explanation A fatal condition has occurred causing IOS to crashdump.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMANRP-6-CMSTATUS : Chassis Manager Process is [chars]

Explanation The current status of Chassis Manager Process.**Recommended Action** No action is required.

%CMANRP-6-CMHASTATUS : RP switchover, [chars]

Explanation RP switchover events received by chassis manager.**Recommended Action** No action is required.

%CMANRP-6-CMSWREAD : RP switchover event triggered

Explanation RP switchover event triggered by IOS fastpath.**Recommended Action** No action is required.

%CMANRP-3-CMREADFAIL : Read from cpld_ha fd [dec] failed, errno [dec], event cnt [dec]

Explanation Read from cpld_ha device returned 0 bytes.**Recommended Action** No action is required.

%CMANRP-6-CMNOTSWITCH : RP is not doing switchover

Explanation Read from cpld_ha device indicate no switchover event.**Recommended Action** No action is required.

%CMANRP-3-CMSWVERINFO : Unable to process software version information using file [chars]. Reason: [chars]. Error: [dec]

Explanation An unexpected condition has occurred while IOS was trying to process the software version information file. As a result, version information may not be available to an SNMP Manager**Recommended Action** No action is required.

%CMANRP-3-UDEVPERMS : An invalid permissions value, [chars], was found in a udev file

Explanation The udev files for a particular filesystem contain a description the file system. If the permissions attribute is not recognized then this file system may run with incorrect permissions.

Recommended Action No action is required.

%CMANRP-4-SMU_UNCOMMITTED : There are uncommitted SMU, abort reload and 'install commit' if required

Explanation There are uncommitted SMU activity in the system, reload will remove this SMU activity, use 'install commit' to make it persistent.

Recommended Action No action is required.

%CMANRP-6-SMU_COMMITTED : 'install commit' is success.

Explanation There were uncommitted SMU activity in the system, reload will remove this SMU activity, with user input install commit is done.

Recommended Action No action is required.

%CMANRP-3-SMU_COMMITTED_FAILED : 'install commit' failed [dec] during reload.

Explanation There are uncommitted SMU activity in the system, reload will remove this SMU activity, with user input install commit is tried but failed with the error code mentioned in message.

Recommended Action No action is required.

CMAN_IDPROM_ENVMON**%CMAN_IDPROM_ENVMON-3-CMAN_IDPROM_FIELD_INVALID : The idprom contains an invalid environmental monitoring field.**

Explanation If this error occurs then parsing of the environmental monitoring data is aborted. Environmental monitoring will be either incomplete or absent entirely.

%CMAN_IDPROM_ENVMON-3-CMAN_IDPROM_FIELD_INVALID : The idprom contains an invalid environmental monitoring field.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

CMAN_LED through COMMON_FIB

- [CMAN_LED](#)
- [CMAPP](#)
- [CMCC](#)
- [CMEM](#)
- [CMFP](#)
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- [CMRP_PFU](#)
- [COMMON_FIB](#)

CMAN_LED

%CMAN_LED-6-BEACON_LED_TURNED : Slot [dec] Beacon LED turned [chars]

Explanation Beacon LED turned ON/OFF. This is a notification message only.No action is required.

Recommended Action This is a notification message only. No action is required.

CMAPP

%CMAPP-6-INTERNAL_ERROR : MGCP fallback is in process, retry later

Explanation

Recommended Action

%CMAPP-6-PROCESS_CREATION_FAILED : Cannot create Call Manager Application process

Explanation	Failed to create the Call Manager Application process.
Recommended Action	Check the size of free memory to make sure there is enough memory.

%CMAPP-6-CONFIG_DONE : Configuration by CCM is done

Explanation	The gateway's configuration has been changed by CCM
Recommended Action	This is an informational message only. No action is required.

CMCC

%CMCC-3-DDR_SINGLE_BIT_ERROR : Single-bit DRAM ECC error: mme: [int], sbe: [int], address: [hex], pid: [int], name: [chars]

Explanation	The SIP DRAM experienced a single-bit error checking code (ECC) error.
Recommended Action	No action is required. This error is usually self-correcting. If the problem persists, you may need to replace the SIP.

%CMCC-0-CPLD_INITIALIZATION : The SIP CPLD has failed initialization :[chars]

Explanation	A SIP complex programmable logic device (CPLD) failed to initialize. This error could be caused by a hardware or software driver defect.
Recommended Action	Examine the logs for CPLD driver or hardware errors. Verify that the software and CPLD versions are compatible.

%CMCC-0-FPGA_INITIALIZATION : The CC has failed initialization because [chars]. Reloading the card

Explanation	The FPGA on the carrier card has failed to initialize. This error could be caused by a hardware
Recommended Action	Examine the driver logs or hardware errors. Decode the core accompanied with this error.

%CMCC-0-CPLD_IOCTL : A CPLD driver I/O control has failed because [chars]

Explanation	A complex programmable logic device (CPLD) I/O driver control has failed. This error could be caused by a hardware or software driver defect.
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%CMCC-0-CPLD_IOCTL : A CPLD driver I/O control has failed because [chars]

Recommended Action Examine the logs for CPLD driver and hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-C2W_INITIALIZATION : The SIP C2W has failed initialization because [chars]

Explanation The C2W bus on the SIP is used to read the shared port adapter (SPA) IDPROM. This error indicates that the SIP C2W bus failed to initialize.

Recommended Action Examine the logs for C2W driver errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-3-C2W_READ : An C2W read has failed because [chars]

Explanation An attempt to read the C2W bus has failed. This error could be caused by a hardware or software defect.

Recommended Action Examine the logs for C2W driver errors.

%CMCC-3-C2W_WRITE : An I2C write has failed because [chars]

Explanation An attempt to write to the inter-integrated circuit (I2C) has failed. This error could be caused by a hardware or software defect.

Recommended Action Examine the logs for I2C driver errors.

%CMCC-0-SERDES_INITIALIZATION : The SIP Serial Bridge ASIC has failed initialization because [chars]

Explanation The SIP serial bridge ASIC failed to initialize. This error could be caused by a hardware defect, software driver defect, or improper internal configuration.

Recommended Action Examine the logs for serial bridge ASIC driver and hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-5-SERDES_BLOCK_EVENT : A SerDes link informational error [chars], block [hex] count [hex]

Explanation A serial bridge I/O event has occurred. This event is not serious but is logged for diagnostic purposes.

Recommended Action No user action is required.

%CMCC-0-HT_INITIALIZATION : The SIP HyperTransport has failed initialization because [chars]

Explanation A SIP HyperTransport (HT) CPU bus failed to initialize. This error could be caused by a hardware defect or HT driver defect.

Recommended Action Examine the logs for HT driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-HT_IOCTL : A SIP HyperTransport driver I/O control has failed because [chars]

Explanation A physical layer interface module (PLIM) HyperTransport (HT) driver I/O has failed. This error could be caused by a hardware defect or HT driver defect.

%CMCC-0-HT_IOCTL : A SIP HyperTransport driver I/O control has failed because [chars]

Recommended Action Examine the logs for HT driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-PLIM_INITIALIZATION : The PLIM has failed initialization because [chars]

Explanation The physical layer interface module (PLIM) failed to initialize. This error could be caused by a hardware defect or a PLIM driver defect.

Recommended Action Examine the logs for PLIM driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-HTDP_ENABLE : The HTDP initialization has failed because [chars]

Explanation The Hypertransport datapath failed to initialize. This error could be caused by a hardware defect or HTDP driver defect.

Recommended Action Examine the logs for HTDP driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-CPLD_INTR_ENABLE : The CPLD initialization has failed because [chars]

Explanation The CPLD interrupt enable failed to initialize. This error could be caused by a hardware defect or CPLD driver defect.

Recommended Action Examine the logs for CPLD driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-PLIM_IOCTL : A PLIM driver I/O control has failed because [chars]

Explanation A physical layer interface module (PLIM) driver I/O has failed. This error could be caused by a hardware defect or a PLIM driver defect.

Recommended Action Examine the logs for PLIM driver or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-PLIM_HALT : A PLIM driver has critical error [chars], [dec], param [hex] param [hex]

Explanation A physical layer interface module (PLIM) HyperTransport (HT) driver I/O has failed. This error could be caused by a hardware defect or an HT driver defect.

Recommended Action Restart the SIP. If the problem persists, you may need to replace the PLIM.

%CMCC-3-PLIM_STATUS : A PLIM driver informational error [chars], block [hex] count [hex]

Explanation A physical layer interface module (PLIM) HyperTransport (HT) driver I/O has failed. This error could be caused by a hardware defect or an HT driver defect.

Recommended Action Examine the logs for PLIM or hardware errors.

%CMCC-3-IDPROM_ACCESS : Failed access or process an IDPROM because [chars]

Explanation	The system failed to access an IDPROM or an IDPROM process failed. This error could be caused by a hardware defect, software defect, or incorrect IDPROM content.
Recommended Action	Examine the logs for IDPROM or hardware errors.

%CMCC-3-IDPROM_SENSOR : One or more sensor fields from the idprom failed to parse properly because [chars].

Explanation	One or more IDPROM sensors failed to parse. This error most likely occurred because of a checksum failure in the IDPROM.
Recommended Action	Examine the logs for IDPROM or hardware errors.

%CMCC-0-CHASSIS_TYPE : The chassis type [chars] is invalid.

Explanation	The system has detected an invalid chassis type. This error could be caused by a hardware defect, software defect, or incorrect IDPROM content.
Recommended Action	Examine the logs for IDPROM or hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-CHASFS_OBJECT_CREATE : Failed to create chassis filesystem object [chars] because [chars]

Explanation	The system failed to create a chassis filesystem object. This error could be caused by a software defect or a filesystem failure.
Recommended Action	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-CHASFS_PROPERTY_CREATE : Failed to create chassis filesystem object [chars] property [chars] because [chars]

Explanation	The system failed to create a chassis filesystem object property. This error could be caused by a software defect or a filesystem failure.
Recommended Action	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-CHASFS_PROPERTY_GET : Failed to read chassis filesystem object [chars] property [chars] because [chars]

Explanation	The system failed to read a chassis filesystem object property. This error could be caused by a software defect or a filesystem failure.
Recommended Action	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-CHASFS_PROPERTY_SET : Failed to write chassis filesystem object [chars] property [chars] because [chars]

Explanation	The system failed to write a chassis filesystem object property. This error could be caused by a software defect or a filesystem failure.
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%CMCC-0-CHASFS_PROPERTY_SET : Failed to write chassis filesystem object [chars] property [chars] because [chars]

Recommended Action Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-CHASFS_OBJECT_WATCH : Failed to watch chassis filesystem object [chars] because [chars]

Explanation The system failed to watch a chassis filesystem object. This error could be caused by a software defect or a filesystem failure.

Recommended Action Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-CHASFS_OBJECT_NOT_PRESENT : Expected chassis filesystem object [chars] not present.

Explanation The system was unable to find an expected chassis filesystem object. This error could be caused by a software defect or a filesystem failure.

Recommended Action Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-CHASFS_PROPERTY_NOT_PRESENT : Expected chassis filesystem object [chars] property [chars] not present.

Explanation	The system cannot locate a chassis filesystem object property. This error could be caused by a software defect or a filesystem failure.
Recommended Action	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-CHASFS_LOCATION_TRANSLATE : Failed to translate a location to a chasfs object name because [chars]

Explanation	The system failed to translate a data sensor location to the chassis filesystem (CHASFS) module. This error could be caused by a software defect.
Recommended Action	Restart the SIP. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMCC-0-PEER_INVALID : A peer table entry has invalid state.

Explanation	An invalid state occurred in a peer table entry. This error could be caused by a software defect or system resource limitation.
Recommended Action	Restart the SIP.

%CMCC-0-UIPEER_CREATE : Failed to create user interface peer.

Explanation	The system failed to create a user interface peer. This error could be caused by a software defect or system resource limitation.
Recommended Action	Restart the SIP.

%CMCC-0-SERVICES_INITIALIZATION : Failed to initialize general application services because [chars]

Explanation The system failed to initialize certain application services. This error could be caused by a software defect or system resource limitation.

Recommended Action Restart the SIP.

%CMCC-0-IPC_INITIALIZATION : IPC initialization failed because [chars]

Explanation An inter-process communication (IPC) initialization failed. This error could be caused by a software defect or system resource limitation.

Recommended Action Restart the SIP.

%CMCC-0-IPC_CONNECT_MASTER : IPC connection to the active RP failed because [chars]

Explanation The inter-process communication (IPC) connection to the active route processor (RP) failed. This error could be caused by a software defect or system resources limitation.

Recommended Action Restart the SIP.

%CMCC-0-IPC_CONNECTION_INVALID : An IPC connection has invalid state.

Explanation An inter-process communication (IPC) connection has an invalid state. This error could be caused by a software defect or system resource limitation.

Recommended Action Restart the SIP.

%CMCC-3-NETWORK_CLOCK_LOS : The SIP network clock jitter attenuator has lost signal

Explanation A SIP network clock jitter attenuator has lost signal from the WAN PLL and certain SPAs may report LOS alarms.

Recommended Action Restart the SIP.

%CMCC-3-NETWORK_CLOCK_DH : The SIP network clock jitter attenuator has entered digital holdover

Explanation A SIP network clock jitter attenuator has entered digital holdover mode and certain SPAs may report LOS alarms.

%CMCC-3-NETWORK_CLOCK_DH : The SIP network clock jitter attenuator has entered digital holdover

Recommended Action Restart the SIP.

%CMCC-3-NETWORK_CLOCK_CAL_START : The SIP network clock jitter attenuator is calibrating

Explanation The SIP network clock jitter attenuator is calibrating after device initialization stage.
Recommended Action Restart the SIP if SPA LOS alarms are seen after this.

%CMCC-3-NETWORK_CLOCK_CAL_FAIL : The SIP network clock jitter attenuator calibration fails

Explanation The SIP network clock jitter attenuator calibration can not complete within certain time. This would incur some SPA LOS alarms or other error events for some SPA port types.
Recommended Action Restart the SIP

%CMCC-3-CC_HOTSWAP_CKT_FAIL : Hot Swap Circuit has failed for bay [int]

Explanation The Hot Swap Circuit for the SPA bay has been tripped. This error could be caused by bad SPA or CC hardware.
Recommended Action Examine the CMCC and PSM OIR logs. Verify whether the recovery reload could bring up the SPA

%CMCC-3-SPA_HOTSWAP_CKT_FAIL : SPA on bay [int] has tripped the Hot Swap Circuit during power-up.

Explanation The Hot Swap Circuit for the SPA bay has been tripped. This error could be caused by bad SPA hardware.
Recommended Action Examine the CMCC and PSM OIR logs. Verify whether the recovery reload could bring up the SPA

%CMCC-3-HB_TIMEOUT : Periodic Heartbeat message from RP timed out.

Explanation RP sends periodic heartbeat message to the SIP. The SIP did not receive this heartbeat message for last timeout period.
Recommended Action Examine the system logs for errors.

%CMCC-3-STANDBY_EOBC_LINK_ERROR : Standby EOBC link error detected.

Explanation	Standby EOBC link error: either link state is down, or duplexity is not full, or speed is not 1Gbps.
Recommended Action	Examine the system hardware. Re-seat and securely screw in all FRUs. If the problem persists, please contact TAC support.

%CMCC-5-SPA_MDR_INIT : SPA[int] initiated Minimal Disruptive Restart

Explanation	Informational message that the Minimal Disruptive Restart of a particular SPA has begun.
Recommended Action	Informational notification. No action is required.

%CMCC-5-SPA_MDR_DONE : SPA[int] completed Minimal Disruptive Restart

Explanation	Informational message that the Minimal Disruptive Restart of a particular SPA has completed.
Recommended Action	Informational notification. No action is required.

%CMCC-3-SPA_MDR_FAIL : The SPA in bay [int] failed Minimal Disruptive Restart because [chars]

Explanation	The SPA in bay %u failed Minimal Disruptive Restart. Minimal Disruptive Restart process is aborted and an attempt will be made to recover the SPA by resetting the SPA hardware.
Recommended Action	Examine the system logs for errors.

%CMCC-3-SPA_SOFT_STOP_FAIL : The SPA in bay [int] could not be soft stopped because [chars]

Explanation	The SPA in bay %u could not be soft stopped. An attempt will be made to recover the SPA by resetting the SPA hardware.
Recommended Action	Examine the system logs for errors.

%CMCC-3-SIP_MDR_FAIL : The SIP failed Minimal Disruptive Restart because [chars]

Explanation	The SIP failed Minimal Disruptive Restart. Minimal Disruptive Restart process is aborted and an attempt will be made to recover the SIP by resetting the SIP hardware.
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%CMCC-3-SIP_MDR_FAIL : The SIP failed Minimal Disruptive Restart because [chars]

Recommended Action Examine the system logs for errors.

%CMCC-3-HT_DETACH : The SIP HyperTransport has failed detachment because [chars]

Explanation A SIP HyperTransport (HT) CPU bus failed to detach from software during SIP MDR. This error could be caused by a hardware defect or HT driver defect.

Recommended Action Examine the system logs for errors.

%CMCC-3-PLIM_DETACH : The PLIM has failed detachment from software because [chars]

Explanation The physical layer interface module (PLIM) failed to detach from software. This error could be caused by a hardware defect or a PLIM driver defect.

Recommended Action Examine the system logs for errors.

%CMCC-3-PLIM_RESTART : The PLIM has failed to restart because [chars]

Explanation The physical layer interface module (PLIM) failed to restart during SIP MDR. This error could be caused by a hardware defect or a PLIM driver defect.

Recommended Action Examine the system logs for errors.

%CMCC-0-EVENT_LIBRARY : An event facility initialization or maintenance function failed because [chars]

Explanation An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMCC-3-SSD_PIDA_OIR : Hot insertion/removal of SSD module in [dec]/[dec] not supported. Please reload the router with SSD module installed in bay 3

Explanation Hot swapping of SSD is not supported

Recommended Action Reload the router with SSD module installed in bay 3.

%CMCC-5-SERDES_RX_RESET_EVENT : Interlaken Rx Alignment Status [chars], Retry Count [dec]

Explanation	Rx Sync Failed for Interlaken, Status Timer Expired. So, Resetting the Rx Interlaken Core
Recommended Action	No user action is required.

%CMCC-0-PCI_RESCAN : The PCIE bus could not be rescanned because [chars]

Explanation	The PCIE bus failed to rescan. This error could be caused by a hardware defect, software driver defect, or improper internal configuration.
Recommended Action	Examine the logs for PCIE bus driver and hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information

%CMCC-3-FPGA_FAIL : [chars] FPGA error detected: [chars]

Explanation	A SIP field programmable logic device failure detected. This error could be caused by a hardware or software driver defect.
Recommended Action	Examine the logs for FPGA driver or hardware errors. Verify that the software and firmware versions are compatible.

%CMCC-3-SCOOBY_ILAK_FAIL : Failed to bringup the Interlaken interface. Cause: [chars]

Explanation	Interlaken Rx or Tx failed for this card. This error could be caused by a hardware or software driver defect.
Recommended Action	Reload the Linecard. If the problem still persists, replace the Linecard.

%CMCC-2-BAD_ID_HW_SLOT_STR : Failed Identification Test in [chars]. The module [chars] on the [chars] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.

Explanation	Hardware in the specified location could not be identified as a genuine Cisco product
Recommended Action	Replace the hardware with a genuine Cisco product. If this message recurs, contact your Cisco technical support representative and provide the representative with the gathered information

%CMCC-2-BAD_ID_HW : Failed Identification Test in [chars]. The module [chars] on the slot [dec] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.

Explanation	Hardware in the specified location could not be identified as a genuine Cisco product
Recommended Action	Replace the hardware with a genuine Cisco product. If this message recurs, contact your Cisco technical support representative and provide the representative with the gathered information

%CMCC-6-FRU_HWPRG_UPG_PSOC_START : Hardware programmable PSOCs on [chars] in slot [chars] are upgrading, \ please don't reload or power-cycle this card. \ It will take about 2 mins to finish.

Explanation	The hw-programmable PSOC is upgrading
Recommended Action	No action is required. This is informational message

%CMCC-6-FRU_HWPRG_UPG_PSOC_SUCCESS : Hardware programmable PSOCs on [chars] in slot [chars] were successfully programmed. The card will reload to make new firmware work.

Explanation	The hw-programmable PSOC was upgraded successfully
Recommended Action	No action is required. This is informational message

%CMCC-6-FRU_HWPRG_UPG_PSOC_PREPARE : Hardware programmable PSOCs on [chars] in slot [chars] were set in the golden mode. The card will reload to finish the upgrading

Explanation	The hw-programmable PSOCs were set in the golden mode for FPD
Recommended Action	No action is required. This is informational message

%CMCC-6-FRU_HWPRG_UPG_ADM1266_CFG_SUCCESS : Hardware programmable ADM1266 Configurations on [chars] in slot [chars] were successfully programmed.

Explanation The hw-programmable ADM1266 configuration was upgraded successfully

Recommended Action No action is required. This is informational message

%CMCC-6-FRU_HWPRG_UPG_LMK03328_CFG_RESET : Hardware programmable LMK03328 Configurations on [chars] in slot [chars] were successfully partially programmed, please reload it to continue programming.

Explanation The hw-programmable LMK03328 configuration was partially upgraded successfully

Recommended Action No action is required. This is informational message

%CMCC-6-FRU_HWPRG_UPG_LMK03328_CFG_SUCCESS : Hardware programmable LMK03328 Configurations on [chars] in slot [chars] were successfully programmed.

Explanation The hw-programmable LMK03328 configuration was upgraded successfully

Recommended Action No action is required. This is informational message

%CMCC-6-FRU_HWPRG_UPG_TPS40422_CFG_RESET : Hardware programmable TPS40422 Configurations on [chars] in slot [chars] were successfully partially programmed, please reload it to continue programming.

Explanation The hw-programmable TPS40422 configuration was partially upgraded successfully

Recommended Action No action is required. This is informational message

%CMCC-6-FRU_HWPRG_UPG_TPS40422_CFG_SUCCESS : Hardware programmable TPS40422 Configurations on [chars] in slot [chars] were successfully programmed.

Explanation The hw-programmable TPS40422 configuration was upgraded successfully

Recommended Action No action is required. This is informational message

%CMCC-2-FRU_HWPRG_UPG_FAILED : Failed to [chars] [chars] hardware programmable on [chars] in [chars].

Explanation Upgrade hw-programmable failed to upgrade the CPLD/FPGA firmware on the given FRU

%CMCC-2-FRU_HWPRG_UPG_FAILED : Failed to [chars] [chars] hardware programmable on [chars] in [chars].

Recommended Action Reload the card and retry to program the hw-programmable. If the card fails to come up please contact TAC

%CMCC-2-FRU_HWPRG_UPG_SUCCESS : Success to [chars] [chars] hardware programmable on [chars]. Please execute the POST Upgrade CLI: upgrade hw-programmable cable <r0/r1> daybreak post-upgrade slot <slot> to finish the upgrade process

Explanation Upgrade hw-programmable success to upgrade the CPLD/FPGA firmware on the given FRU

Recommended Action No action is required. This is informational message

%CMCC-5-CMCC_EZMAN_HB_MISS_EXCEED : CMCC Missed [int] Heartbeats from EZMAN, Reloading the Line Card

Explanation CMCC Monitors the Health of the EZMAN by keeping a track of the Heartbeat messages. In case the EZMAN gets stuck in a event under watchdog disable context (sw_wdog_disbale), then the CMCC will stop getting these updates. The CMCC after a certain period of time would reset the card, since EZMAN is unresponsive

Recommended Action Reload the card, a software initiated to restart the EZMAN

%CMCC-3-CARD_MISMATCH : The CONFIG&PICTYPE in slot [dec] mismatch : CONFIG : [chars], PIC : [chars]

Explanation The CMD and PIC in the slot mismatch.

Recommended Action Shut down the LC and change the card mode or remove the pic card.

%CMCC-3-SPA_PSEUDO_HARD_OIR_VFT_NOT_IMPLEMENTED : The PSEUDO OIR VFT is not implemented for bay [dec]

Explanation The pseudo OIR vft not implemented for this platform

Recommended Action Do nothing

%CMCC-6-FLOW_CONTROL_OTHER : Flow control error seen, Cause [chars]

Explanation Flow control error is detected in the FPGA

%CMCC-6-FLOW_CONTROL_OTHER : Flow control error seen, Cause [chars]

Recommended Action Appropriate action is taken in software to correct this error. If the problem persists, the MIP100 hardware may need to be replaced.

%CMCC-3-FLOW_CONTROL_SBE : Single-bit ECC error seen, Cause [chars]

Explanation Self correctable single bit errors were detected in the FPGA

Recommended Action This error is usually self-correcting. If the problem persists, the MIP100 hardware may need to be replaced.

%CMCC-0-FLOW_CONTROL_MBE : Multi-bit ECC error seen, Cause [chars], MIP100 is going to be reloaded to recover

Explanation Non correctable multi bit errors were detected in the FPGA.

Recommended Action MIP100 is reloaded to correct the error. If the problem persists, the MIP100 hardware may need to be replaced.

%CMCC-6-MGMT_SFP_INSERT : transceiver module inserted in [chars]

Explanation The online insertion and removal (OIR) facility detected a newly inserted transceiver module for the interface specified in the error message.

Recommended Action No action required.

%CMCC-6-MGMT_SFP_REMOVED : Transceiver module removed from [chars]

Explanation The online insertion and removal (OIR) facility detected the removal of a transceiver module from the interface specified in the error message.

Recommended Action No action required.

%CMCC-3-UNKNOWN_SPA_LC : Unknown SPA was inserted in slot [dec]

Explanation Unknown SPA was inserted in the given slot.

Recommended Action Remove the unsupported SPA line card and upgrade the software as needed.

%CMCC-6-FRU_IOFPGA_UPG_START : Field programmable device on [chars] in slot [dec] is being upgraded. \ It will take about 2 mins to finish the upgrade. Please do \not reload or power-cycle this card while upgrade is in \progress.

Explanation The field programmable device on the FRU is upgrading

Recommended Action No action is required. This is informational message

%CMCC-2-FRU_IOFPGA_UPG_FAILED : Failed to upgrade field programmable device on [chars] in slot [dec].

Explanation Upgrade of field programmable device failed

Recommended Action Reload the card and retry to program the field programmable \ device. If the card fails to come up please contact TAC

%CMCC-2-FRU_IOFPGA_UPG_SUCCESS : Successfully upgraded the field programmable device on [chars] in \ slot [dec]. Power-cycling the line card.

Explanation Upgrade field programmable device was successful on the \ given FRU. Line card needs to be power-cycled or removed \ and re-inserted for upgrade to take effect.

Recommended Action Line card needs to be power cycled or removed and re-inserted \ for the upgrade to take effect.

%CMCC-2-FRU_IOFPGA_UPG_LC_PWR_CYCLE_DONE : Power cycled the [chars] in slot [dec], after FPGA upgrade.

Explanation Power cycled the card after FPGA upgrade.

Recommended Action Line card has been power cycled after FPGA upgrade.

%CMCC-3-MESSAGE_RESPONSE : An invalid message response was received because [chars]

Explanation An invalid message response was received. This could be due to a software defect or system resource exhaustion.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMCC-2-FRU_LC_PWR_RESET : *** Detected power reset for the Line card in slot [dec].\To recover from the error, Line card will brought up shortly**

Explanation Detected Auto power reset(may be HW issue) for the Linecard.

Recommended Action Pseudo OIR of the Line card has been to recover/bring up the card.

%CMCC-6-LC_INSERTED_CFG_MISMATCH : The Line card inserted in Switch:[dec] Slot:[dec] doesn't support the \configured Stackwise Virtual link Speed. Line card is Power denied. \Please replace the Line card with the configured SVL link speed or \remove the config and reload the system

Explanation The Line Card and SVL CONFIG in the slot mismatch.

Recommended Action Change the config and reload the system or remove the Line card.

%CMCC-6-FRU_LC_UPGRADE_REQD : Found mismatch between the Line card FPGA versions \bundled in Software and programmed in Hardware in slot [dec]. \FPGA version bundled in SW: [hex], present in HW: [hex]. To upgrade \the FPGA to version bundled in SW, perform physical OIR of the \line card or run the CLI: \hw-module subslot <slot>/<SPA no.> oir power-cycle

Explanation New FPGA is bundled in SW. FPGA upgrade is needed.

Recommended Action To upgrade to latest FPGA, do physical OIR Line card or do Pseudo \ OIR of the line card using CLI: hw-module subslot <slot>/<SPA no.> \ oir power-cycle To view the present FPGA versions in chassis, use \

%CMCC-2-CC_SPA_STRUCK : *** CMCC SPA SM was strucked for [dec] seconds for slot [dec].**

Explanation CMCC SPA SM was strucked for a minute in state: s_kill_wait for the line card.

Recommended Action move the cmcc spa state machine.

%CMCC-2-CC_SPA_MOVE_SM : *** CMCC SPA SM was strucked for a minute in state: s_kill_wait \for slot [dec], moving the state machine**

Explanation CMCC SPA SM was strucked for a minute in state: s_kill_wait for the line card.

Recommended Action move the cmcc spa state machine.

%CMCC-2-CC_SPA_PSM_READY_NOT_RCVD : *** CMCC did not received PSM READY event [dec] sec for slot [dec].**

Explanation CMCC SPA SM was not received PSM READY for 100 sec.

%CMCC-2-CC_SPA_PSM_READY_NOT_RCVD : *** CMCC did not received PSM READY event [dec] sec for slot [dec].**

Recommended Action do remove hard.

%CMCC-3-INCOMPATIBLE_STANDBY_SUPERVISOR :

Explanation Supervisor found in Standby slot may not be fully compatible with the active supervisor and may cause issues.

Recommended Action Use supervisors with the same specifications to enable High Availablilty features.

CMEM

%CMEM-3-SENSOR_INIT_FAILED : Sensor ([chars]) initialization failed due to [chars].

Explanation This error indicates that environmental monitor software cannot initialize the sensor. The software will not register and monitor this sensor. This could occur when the IDPROM has a bad I2C address for this sensor.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMEM-4-OBFL_INIT_FAILED : OBFL initialization failed.

Explanation This error indicates the OBFL dedicated filesystem is not mounted. OBFL diagnostic information will not be retained for customer troubleshooting.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

CMFP

%CMFP-3-DDR_SINGLE_BIT_ERROR : Single-bit DRAM ECC error: mme: [int], sbe: [int], address: [hex], pid: [int], name: [chars]

Explanation A single-bit data corruption error has occurred in the forwarding processor (FP).

%CMFP-3-DDR_SINGLE_BIT_ERROR : Single-bit DRAM ECC error: mme: [int], sbe: [int], address: [hex], pid: [int], name: [chars]

Recommended Action These errors are self-correcting. If the problem persists, the FP hardware may need to be replaced.

%CMFP-3-IDPROM_ACCESS : Failed access or process an IDPROM because [chars]

Explanation Access to an IDPROM failed due to a hardware or software defect, or incorrect IDPROM content.

Recommended Action Examine the system logs for IDPROM and hardware errors. Copy the error message and related information exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMFP-3-IDPROM_SENSOR : One or more sensor fields from the idprom failed to parse properly because [chars].

Explanation Output from the IDPROM sensors failed to parse, commonly caused by a checksum failure in the IDPROM.

Recommended Action Examine the system logs for IDPROM and hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMFP-3-MASTERSHIP_UPDATE : An error ([chars]) has occurred while communicating the mastership role of this FP to the CPP. The FP is currently [chars]

Explanation An error occurred while communicating a change in the state (Active, Active with a Standby, or Standby) of the forwarding processor (FP). The error can cause an inconsistency of expected states between FPs and could affect the replication of state between the FPs.

Recommended Action Examine the system logs for errors. This error is usually temporary.

%CMFP-0-SPI4_MUX_HALT : SPI4 MUX driver has detected a critical error [chars]

Explanation A SPI4 MUX driver has failed or detected a critical hardware fault. This could be due to a hardware defect or driver defect.

Recommended Action The only corrective action is to restart the FP

%CMFP-3-SPI4_MUX_STATUS : SPI4 MUX driver has detected a informational error [chars] (occurred [dec] time(s))

Explanation A SPI4 MUX driver has failed or detected a information hardware fault. This could be due to a hardware defect or driver defect.

Recommended Action Examine the logs for SPI4 MUX and hardware errors.

%CMFP-3-CPLD_ECSR_ERROR :

Explanation An error has been detected on the ECSR bus. This may cause problems when accessing the forwarding processor

Recommended Action Some of these errors are catastrophic and others are not. If the FRU did not restart assume corrective action was taken. Please check the chassis-manager logs for errors.

%CMFP-3-CPLD_ERP_ERROR :

Explanation An error has been detected on the ERP bus. This may cause problems when accessing the forwarding processor

Recommended Action Some of these errors are catastrophic and others are not. If the FRU did not restart assume corrective action was taken. Please check the chassis-manager logs for errors.

%CMFP-3-N2_DDR_MBE : The encryption processor has detected an uncorrectable multi-bit error in memory at address [dec]

Explanation The encryption processor has detected an uncorrectable multi-bit in memory. This could be due to a hardware defect.

Recommended Action Examine the logs for encryption processor hardware errors.

%CMFP-6-N2_DRV_UPDATE : Hardware crypto device disabled. [chars]: [chars]

Explanation A crypto device driver has failed or detected a hardware fault. This could be due to a hardware defect or driver defect.

Recommended Action The only corrective action is to restart the ESP

%CMFP-3-N2_FATAL_ERROR :

Explanation An error has been detected on encryption processor.

Recommended Action Please check the chassis-manager logs for errors.

%CMFP-3-N2_INPUT_EXCEPT :

Explanation An exception has been detected on encryption processor.

Recommended Action Please lower crypto traffic rate. If the error still happens, encryption processor may stop processing. Need to reload ESP.

%CMFP-3-OCT_DRV_ERROR :

Explanation An error has been detected on encryption processor.

Recommended Action Please check the chassis-manager logs for errors.

%CMFP-3-HT_FATAL_ERROR : Failed to initialize the HyperTransport interface to the QFP

Explanation The HyperTransport interface to the QFP failed to initialize completely. Software will restart the ESP to recover

Recommended Action No action is required.

%CMFP-3-HB_TIMEOUT : Peroidic Heartbeat message from RP timed out.

Explanation RP sends peroidic heartbeat message to the ESP. The ESP did not receive this heartbeat message for last timeout period.

Recommended Action Examine the system logs for errors.

%CMFP-3-STANDBY_EOBC_LINK_ERROR : Standby EOBC link error detected.

Explanation	Standby EOBC link error: either link state is down, or duplexity is not full, or speed is not 1Gbps.
Recommended Action	Examine the system hardware. Re-seat and securely screw in all FRUs. If the problem persists, please contact TAC support.

%CMFP-0-CPLD_INITIALIZATION : CPLD initialization has failed because [chars]

Explanation	The CPLD has failed to initialize. This could be due to a hardware or software driver defect.
Recommended Action	Examine the hardware and CPLD driver logs and see if the logs provide information about a correctable problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMFP-0-CPLD_IOCTL : A CPLD driver I/O control has failed because [chars]

Explanation	A complex programmable logic device (CPLD) I/O driver control has failed. This error could be caused by a hardware or software driver defect.
Recommended Action	Examine the logs for CPLD driver and hardware errors. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information

%CMFP-0-EVENT_LIBRARY : An event facility initialization or maintenance function failed because [chars]

Explanation	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMFP-2-BAD_ID_HW : Failed Identification Test in [chars]. The module [chars] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.

Explanation	Hardware in the specified location could not be identified as a genuine Cisco product
Recommended Action	Replace the hardware with a genuine Cisco product. If this message recurs, contact your Cisco technical support representative and provide the representative with the gathered information.

%CMFP-3-SIF_SERDES_SYNC_ERROR : Sif Serdes Sync Failed for Supervisor Failure Bitmap [hex]

Explanation	One of more Supervisor ASIC Sif Serdes failed to sync, This could be due to a hardware defect.
Recommended Action	Note the time of the error message and examine the show hardware platform cman fp for detailed Sif Serdes Report.

%CMFP-2-UADP_EVENT : UADP EVENT (ASIC #[dec] [chars])

Explanation	Unified Access Datapath ASIC Event
Recommended Action	Copy the message exactly as it appears on the console or in the system log.

%CMFP-3-DPP_SERDES_SYNC_ERROR : UADP fabric interface synchronisation [chars]

Explanation	One of more UADP fabric interface Serdes failed to sync, This could be due to a hardware defect.
Recommended Action	No action is required.

%CMFP-6-DPP_SERDES_SYNC : UADP fabric interface synchronisation [chars]

Explanation	The log is to indicate UADP fabric interface Serdes Sync succeeded during initialization of setup.
Recommended Action	No action is required.

%CMFP-3-SBUS_FATAL_ERROR : SBUS Controller not responding, bringing down [chars]

Explanation	Spico SBUS controller fails to respond, This could be due to a hardware defect. Reset the CHIP
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%CMFP-3-SBUS_FATAL_ERROR : SBUS Controller not responding, bringing down [chars]

Recommended Action No action is required.

%CMFP-6-CRYPTO_MODULE : Crypto Hardware Module is [chars]

Explanation The log is to indicate whether Crypto Hardware Module IPSECHW is physically inserted in the chassis.

Recommended Action No action is required.

CMLIB

%CMLIB-6-THROUGHPUT_VALUE : Throughput [chars] [chars], throughput set to [chars] kbps

Explanation Status indicating whether appropriate throughput is found or enabled and ensuring the value is used to configure the CPP hardware.

Recommended Action No user action is necessary. This is an informational message indicating that the throughput is configured.

%CMLIB-3-THROUGHPUT_VALUE_SETUP_FAILED : Throughput [chars] [chars], throughput set to [chars] kbps. Error: [chars]

Explanation Status indicating that a failure was observed during the setup of the throughput. The error reason may shed light on the cause. The set value is used to configure the CPP hardware.

Recommended Action Examine the ios, chassis-manager and license-manager logs for possible clues.

%CMLIB-3-THROUGHPUT_VALUE_APPLY_FAILED : Throughput [chars] [chars] - failed to persist throughput of [chars] kbps. Error: [chars]

Explanation Status indicating that a failure was observed during the writing of the throughput to persistent store. The error reason may shed light on the cause. The throughput value may have be used to configure the CPP hardware.

Recommended Action Examine the ios, chassis-manager and license-manager logs for possible clues.

%CMLIB-2-IDPROM_INVALID : Invalid IDPROM assembly number [hex]. IDPROM update required

Explanation IDPROM assembly number is not supported.

%CMLIB-2-IDPROM_INVALID : Invalid IDPROM assembly number [hex]. IDPROM update required

Recommended Action IDPROM update is required

%CMLIB-4-FW_CHECK : slot [chars]: [chars] current firmware version is [chars], while the minimum \ required version is [chars]. Please upgrade it to minimum required version or higher.

Explanation Firmware version in the specified location is lower than minimum required version

Recommended Action Upgrade firmware version to latest.

CMRP**%CMRP-0-CPLD_INITIALIZATION : The RP CPLD has failed initialization because [chars]**

Explanation The RP CPLD has failed to initialize. This could be due to a hardware or software driver defect.

Recommended Action Examine the hardware and CPLD driver logs and see if the logs provide information about a correctable problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CPLD_IOCTL : A CPLD driver I/O control has failed because [chars]

Explanation A CPLD driver I/O control has failed. This could be due to a hardware or software driver defect.

Recommended Action Examine the hardware and CPLD driver logs and see if the logs provide information about a correctable problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-I2C_INITIALIZATION : The RP I2C has failed initialization because [chars]

Explanation The RP I2C has failed to initialize. These components provide low-level communications between the RP and the other cards in the system.

Recommended Action Note the time of the error message and examine the logs for I2C errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-I2C_READ : An I2C read has failed because [chars]

Explanation	An I2C read has failed. This could be due to a hardware or software defect.
Recommended Action	Note the time of the error message and examine the logs for I2C errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-I2C_WRITE : An I2C write has failed because [chars]

Explanation	An I2C write has failed. This could be due to a hardware or software defect.
Recommended Action	Note the time of the error message and examine the logs for I2C errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-BITS_INITIALIZATION : The RP BITS E1/T1 interface has failed initialization because [chars]

Explanation	The RP BITS E1/T1 interface has failed to initialize. This could be due to a hardware defect, a software driver defect or improper configuration.
Recommended Action	Note the time of the error message and examine the logs for BITS driver or hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-WANPLL_INITIALIZATION : The RP WAN PLL has failed initialization because [chars]

Explanation	The RP WAN PLL has failed to initialize. This could be due to a hardware or software driver defect.
Recommended Action	Note the time of the error message and examine the logs for WAN PLL or hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-WANPLL_SETUP : Failed to setup the [chars] of the RP WAN PLL because [chars]

Explanation	Failed to setup the RP WAN PLL appropriately. This could be due to a hardware defect of the device.
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%CMRP-3-WANPLL_SETUP : Failed to setup the [chars] of the RP WAN PLL because [chars]

Recommended Action Note the time of the error message and examine the logs for WAN PLL related hardware errors. Check if the issue is transient or repeatable. If the problem is not recoverable collect the output of the error message and the chassis-manager and IOS logs. Provide the gathered information to a Cisco technical support representative.

%CMRP-0-DDR_INITIALIZATION : The RP DDR has failed initialization because [chars]

Explanation The RP DDR has failed to initialize. This could be due to a hardware or software driver defect.

Recommended Action Note the time of the error message and examine the logs for DDR or hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-DDR_SINGLE_BIT_ERROR : Single-bit DRAM ECC error: mme: [int], sbe: [int], address: [hex], pid: [int], name: [chars]

Explanation The RP DRAM has single-bit ECC errors.

Recommended Action In most cases, the system self-corrects these single-bit ECC errors and no user action is necessary. If the problem persists, gather the console output with the error message along with the show tech-support command output and provide the gathered information to a Cisco technical support representative.

%CMRP-0-SERDES_INITIALIZATION : The RP Serial Bridge ASIC has failed initialization because [chars]

Explanation The RP Serial Bridge ASIC has failed to initialize. This could be due to a hardware defect, software driver defect or improper internal configuration.

Recommended Action Note the time of the error message and examine the logs for Serial Bridge ASIC and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-HWLIB_INITIALIZATION : The hardware library has failed to initialize because [chars]

Explanation This could be due to a hardware defect, software driver defect or improper internal configuration.

%CMRP-3-HWLIB_INITIALIZATION : The hardware library has failed to initialize because [chars]

Recommended Action	Note the time of the error message and examine the logs for CPLD hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%CMRP-0-SERDES_IOCTL : A Serial Bridge driver I/O control has failed because [chars]

Explanation	A Serial Bridge driver I/O control has failed. This could be due to a hardware or software driver defect.
Recommended Action	Note the time of the error message and examine the logs for Serial Bridge driver or hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-SERDES_INTERRUPT_DISPATCH : Serial Bridge interrupt dispatch error: [chars]

Explanation	Failed to dispatch an error interrupt from the Serial Bridge. This could be due to a software defect or inconsistent internal state.
Recommended Action	Note the time of the error message and examine the logs for Serial Bridge errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-SERDES_ESI_LOCK_FAIL : Serial Bridge ESI link [chars] between [chars] and [chars] failed to lock

Explanation	A Serial Bridge ESI link did not lock. This could be due to a hardware defect or a software configuration error.
Recommended Action	Note the time of the error message and examine the logs for Serial Bridge and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-SERDES_ESI_INIT_FAIL : Serial Bridge ESI link [chars] between [chars] and [chars] failed to config

Explanation	A Serial Bridge ESI link did not configure. This could be due to a software error.
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%CMRP-3-SERDES_ESI_INIT_FAIL : Serial Bridge ESI link [chars] between [chars] and [chars] failed to config

Recommended Action	Note the time of the error message and examine the logs for Serial Bridge and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%CMRP-3-PFU_INITIALIZATION : The RP has failed to initialize a Power Supply/Fan module controller because [chars]

Explanation	The RP failed to initialize a Power Supply or Fan module controller. This could be due to a hardware defect or C2W access failure.
Recommended Action	Note the time of the error message and examine the logs for C2W and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-FAN_INITIALIZATION : The RP has failed to initialize Fan [dec] module controller because [chars]

Explanation	The RP failed to initialize the Fan. This could be due to a software defect.
Recommended Action	Note the time of the error message and examine the logs. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-HT_INITIALIZATION : The RP HyperTransport has failed initialization because [chars]

Explanation	The RP HyperTransport has failed initialization. This could be due to a hardware defect or HT driver defect.
Recommended Action	Note the time of the error message and examine the logs for HT driver and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-HT_IOCTL : A RP HyperTransport driver I/O control has failed because [chars]

Explanation	A RP HyperTransport driver I/O has failed. This could be due to a hardware defect or HT driver defect.
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%CMRP-0-HT_IOCTL : A RP HyperTransport driver I/O control has failed because [chars]

Recommended Action	Note the time of the error message and examine the logs for HT driver and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%CMRP-6-HT_STATUS : R[dec] hypertransport configured for F[dec] active

Explanation	The RP HyperTransport driver was properly configured for a newly active FP.
Recommended Action	No user action is necessary. This is an informational message indicating normal system operation.

%CMRP-6-HT_CLOSURE_MODE : The HTPI driver failed to set its closure mode properly

Explanation	This is not a critical error, but it will result in possible traffic interruption during certain software failure cases or ISSU operations.
Recommended Action	Note the error message and contact a Cisco technical support representative.

%CMRP-0-EHSA_INITIALIZATION : EHSA initialization has failed because [chars]

Explanation	EHSA has failed initialization. This could be due to a hardware or software defect.
Recommended Action	Note the time of the error message and examine the logs for EHSA and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-EHSA_STATE_GET : Failed to get EHSA state because [chars]

Explanation	Failed to get EHSA state. This could be due to a hardware or software defect.
Recommended Action	Note the time of the error message and examine the logs for EHSA and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-EHSA_STATE_SET : Failed to set EHSA state because [chars]

Explanation	Failed to set EHSA state. This could be due to a hardware or software defect.
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%CMRP-0-EHSA_STATE_SET : Failed to set EHSA state because [chars]

Recommended Action	Note the time of the error message and examine the logs for EHSA and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%CMRP-3-IDPROM_ACCESS : Failed to access or process IDPROM '[chars]': [chars]

Explanation	Failed access or process an IDPROM. This could be due to a hardware defect, software defect or incorrect IDPROM content.
Recommended Action	Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-IDPROM_SENSOR : One or more sensor fields from the idprom failed to parse properly because [chars].

Explanation	One or more sensor fields from the IDPROM failed to parse properly. This problem is often the result of a checksum failure in the IDPROM.
Recommended Action	Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CHASSIS_TYPE : The chassis type [chars] is invalid.

Explanation	The chassis type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.
Recommended Action	Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CHASSIS_ID : Error while updating chassis id, Error: [chars]

Explanation	The chassis Id is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.
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%CMRP-0-CHASSIS_ID : Error while updating chassis id, Error: [chars]

Recommended Action Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-PLATFORM_FAMILY_TYPE : The platform family type [chars] is invalid.

Explanation The platform family type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.

Recommended Action Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CHASSIS_STATUS : Failed to get chassis hardware status because [chars]

Explanation The system failed to get the chassis hardware status.

Recommended Action Note the time of the error message and examine the logs for CPLD driver or hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-SENSOR_INITIALIZATION : Failed to initialize sensor monitoring because [chars].

Explanation Sensor monitoring failed to initialize.

Recommended Action Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-SENSOR_TYPE : The sensor type is [dec] is invalid.

Explanation A sensor type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.

%CMRP-3-SENSOR_TYPE : The sensor type is [dec] is invalid.

Recommended Action Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CHASFS_OBJECT_CREATE : Failed to create chassis filesystem object [chars] because [chars]

Explanation The hardware failed to create a chassis filesystem object.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-CHASFS_OBJECT_DESTROY : Failed to destroy chassis filesystem object [chars] because [chars]

Explanation A chassis filesystem object that should have been destroyed was not destroyed.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CHASFS_PROPERTY_CREATE : Failed to create chassis filesystem object [chars] property [chars] because [chars]

Explanation A chassis filesystem property was not properly created.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-CHASFS_PROPERTY_DESTROY : Failed to destroy chassis filesystem property [chars]/[chars] because [chars]

Explanation A chassis filesystem property that should have been destroyed was not destroyed.

%CMRP-3-CHASFS_PROPERTY_DESTROY : Failed to destroy chassis filesystem proptry [chars]/[chars] because [chars]

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CHASFS_PROPERTY_GET : Failed to read chassis filesystem object [chars] property [chars] because [chars]

Explanation A chassis filesystem property was not properly read by the system.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CHASFS_PROPERTY_SET : Failed to write chassis filesystem object [chars] property [chars] because [chars]

Explanation A chassis filesystem property failed to write.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CHASFS_OBJECT_WATCH : Failed to watch chassis filesystem object [chars] because [chars]

Explanation A chassis filesystem object was not watched because of the reason stated in the error message.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CHASFS_OBJECT_NOT_PRESENT : Expected chassis filesystem object [chars] not present.

Explanation A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.

%CMRP-0-CHASFS_OBJECT_NOT_PRESENT : Expected chassis filesystem object [chars] not present.

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%CMRP-0-CHASFS_PROPERTY_NOT_PRESENT : Expected chassis filesystem object [chars] property [chars] not present.

Explanation	A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-CHASFS_LOCATION_TRANSLATE : Failed to translate a location to a chasfs object name because [chars]

Explanation	The chassis manager failed to translate a location to a chasfs object name.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-INVALID_ARGUMENT : A system function was given an invalid argument.

Explanation	A system function was given an invalid argument. This is due to a software defect.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-ROLE_ADDRESS_UPDATE : Failed to update role-based EOBC IP addresses because [chars].

Explanation	The system failed to update a role-based EOBC IP address for the reason stated in the message line.
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%CMRP-0-ROLE_ADDRESS_UPDATE : Failed to update role-based EOBC IP addresses because [chars].

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%CMRP-4-ACTIVE_SLOTBAY_BIAS : The configured active slot/bay bias [dec] is invalid.

Explanation	The configured active slot/bay bias is not 0 or 1. The default value of 0 is used.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-EVENT_LIBRARY : An event facility initialization or maintenance function failed because [chars]

Explanation	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-PEER_TABLE : A peer table initialization or maintenance function failed because [chars]

Explanation	A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-PEER_INVALID : A peer table entry has invalid state.

Explanation	A peer table entry has an invalid state. This could be due to a software defect or system resource exhaustion.
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%CMRP-3-PEER_INVALID : A peer table entry has invalid state.

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%CMRP-0-UIPEER_CREATE : Failed to create user interface peer.

Explanation	The system failed to create a user interface peer.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-SLOTS_INITIALIZATION : Failed to initialize chassis slot information because [chars]

Explanation	The system failed to initialize the chassis slot information.
Recommended Action	Note the time of the error message and examine the logs for IDPROM or software errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-SLOT_INVALID : A card absolute slot number cannot be determined for this chassis type

Explanation	An absolute slot number is invalid. This could be due to a software defect or incorrect IDPROM content.
Recommended Action	Note the time of the error message and examine the logs for IDPROM or software errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-SIGNAL_INITIALIZATION : Failed to initialize signals because [chars]

Explanation	The system failed to initialize signals.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-SERVICES_INITIALIZATION : Failed to initialize general application services because [chars]

Explanation	The system failed to initialize application services.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-INTERNALS_INITIALIZATION : Failed to initialize internal state because [chars]

Explanation	The system failed to initialize the internal state for the reason mentioned in the error message.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-FP_MASTERSHIP_SET : Failed to set FP mastership because [chars]

Explanation	The router failed to establish ESP mastership.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-RP_MASTERSHIP_SET : Failed to set RP mastership [chars] because [chars]

Explanation	The router failed to establish RP mastership.
Recommended Action	Reload the router.

%CMRP-0-RESOLVE_FRU : Failed to determine [chars] card because [chars]

Explanation	The router failed to determine a FRU state.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-IPC_INITIALIZATION : IPC initialization failed because [chars]

Explanation	IPC initialization failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-IPC_CONNECT_MASTER : IPC connection to the active RP failed because [chars]

Explanation	IPC connection to the active RP failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-IPC_CONNECT_REMOTE_IOS : IPC connection to a remote IOSd failed because [chars]

Explanation	IPC connection to a remote IOSd failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-IPC_CONNECTION_INVALID : An IPC connection has invalid state.

Explanation	An IPC connection has an invalid state. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-MQIPC_INITIALIZATION : MQIPC initialization failed because [chars]

Explanation MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-MQIPC_ADVANCE : Failed to advance MQIPC queue because [chars]

Explanation The MQIPC initialization failed.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-MESSAGE_REGISTER : Failed to register with active RP because [chars]

Explanation The active RP failed to register.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-MESSAGE_RESPONSE : An invalid message response was received because [chars]

Explanation An invalid message response was received. This could be due to a software defect or system resource exhaustion.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-MESSAGE_RELAY : Failed to relay a message because [chars]

Explanation Failed to relay a message. This could be due to a software defect or system resource exhaustion.

%CMRP-0-MESSAGE_RELAY : Failed to relay a message because [chars]

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%CMRP-3-PFU_MISSING : The platform does not detect a power supply in slot [dec]

Explanation	There is no power supply in one of the power supply slots.
Recommended Action	Insert a power supply into the empty slot. The router requires two power supplies because the fans in the power supply are needed to cool the router.

%CMRP-6-IGNORE_PFU_OIR : Simulating FAN OIR due to FAN Speed profile change

Explanation	FAN tray OIR is simulated through software to select new FAN SPEED profile. This message is to let the user know that this is a simulated FAN OIR and not a physical FAN OIR. The user needs to ignore next occurrence messages/alerts associated with FAN tray removal/insertion actions, such as FAN tray missing, PEM/FAN removed/inserted and system shutdown will happen messages.
Recommended Action	Ignore FAN tray or PEM/FM removal/insertion messages and system shutdown messages.

%CMRP-3-PFU_OIR : Failed to handle a [chars] oir event for PEM in slot [dec], [chars]

Explanation	A power supply was inserted or removed into or from a router and the software did not properly handle the event.
Recommended Action	Force an RP switchover if the system is configured with two RPs. If a switchover does not correct the problem or cannot be performed, reloading the router should resolve the issue.

%CMRP-3-PFU_FAN : Failed to handle fan failure for [chars] in slot [dec], [chars]

Explanation	One or more fans have failed and the system is unable to properly handle the fan failure.
Recommended Action	Force an RP switchover if the system is configured with two RPs. If a switchover does not correct the problem or cannot be performed, reloading the router should resolve the issue.

%CMRP-3-PFU_FAILURE : Failed to handle power supply failure for [chars] in slot [dec], [chars]

Explanation	A power supply has failed and the system is unable to properly handle the failure.
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%CMRP-3-PFU_FAILURE : Failed to handle power supply failure for [chars] in slot [dec], [chars]

Recommended Action	Force an RP switchover if the system is configured with two RPs. If a switchover does not correct the problem or cannot be performed, reloading the router should resolve the issue.
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%CMRP-3-PEM_REMOVE_SHUT : The system will shut down in [dec] minutes

Explanation	A power supply has been removed and the router will shutdown to protect itself from overheating in the amount of time stated in the error message.
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Recommended Action	Reinsert a power supply into the power supply slot as soon as possible. The second power supply is required because the fans in the power supply are essential in monitoring router temperature.
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%CMRP-6-FP_HA_STATUS : F[dec] redundancy state is [chars]

Explanation	The ESP has transitioned into a new High Availability state.
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Recommended Action	No user action is necessary. This is an informational message.
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%CMRP-6-FP_HA_SB_NOTREADY : FP switchover: F[dec] [chars]

Explanation	The standby ESP is not ready for a switchover.
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Recommended Action	No user action is necessary.
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%CMRP-3-FRU_NOPARTNUM : Cannot get part number from IDPROM for [chars]: [chars].

Explanation	The FRU IDPROM cannot be read or does not contain a valid part number field.
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Recommended Action	The FRU IDPROM should be repaired.
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%CMRP-3-FRU_INVPARTNUM : [chars] has been held in reset because the part number [hex] is invalid.

Explanation	The FRU IDPROM contains an invalid part number.
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Recommended Action	The FRU IDPROM should be repaired or the board replaced.
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%CMRP-3-FRU_INCOMPATIBLE : [chars] has been held in reset: [chars] is incompatible with [chars]

Explanation	The part number read from the FRU IDPROM is invalid for this chassis type.
Recommended Action	Remove the FRU from the chassis.

%CMRP-3-INCOMPATIBLE_FRU : [chars] in slot [chars] is not compatible with [chars] and so it is disabled

Explanation	The Product ID read from the FRU IDPROM is invalid for this hardware configuration.
Recommended Action	Remove the FRU from the chassis. Review the Hardware and Software Compatibility Matrix in IOS XE release notes to determine currently supported configurations.

%CMRP-3-UNSUPPORTED_FRU : [chars] in slot [chars] is not supported with [chars] and so it is disabled

Explanation	The Product ID read from the FRU IDPROM is not supported in this router. This is due to either Hardware or Software compatibility limitation indicated in the console log
Recommended Action	Remove the FRU from the chassis. Review the Hardware and Software Compatibility Matrix in IOS XE release notes to determine currently supported configurations.

%CMRP-6-REDT_RP_UNsupported_IN_INTER_CHASSIS_MODE : [chars] redundant RP in slot [chars] is not supported in inter-chassis redundancy mode. Please remove it for inter-chassis redundancy to work properly on system reload.

Explanation	Because the system is configured in box-to-box or inter-chassis redundancy mode, the intra chassis redundancy mode is not supported and redundant RP, if any, will be disabled.
Recommended Action	No user action is necessary.

%CMRP-6-REDT_FP_UNsupported_IN_INTER_CHASSIS_MODE : [chars] redundant FP in slot [chars] is not supported in inter-chassis redundancy mode

Explanation	Because the system is configured in box-to-box or inter-chassis redundancy mode, the intra chassis redundancy mode is not supported and redundant FP, if any, will be disabled.
Recommended Action	No user action is necessary.

%CMRP-3-UNSUPPORTED_PEM : [chars] in slot [chars] is not supported with [chars] and it needs to be replaced immediately

Explanation	The Product ID read from the PEM IDPROM is not supported in this hardware configuration. It will be allowed to continue but immediate replacement is required
Recommended Action	Remove the PEM from the chassis and replace it with a supported PEM. Review the Hardware and Software Compatibility Matrix in IOS XE release notes to determine currently supported configurations.

%CMRP-2-FRU_CPLD_INCOMPATIBLE : [chars] in slot [chars] has been held in reset as its CPLD firmware version is incompatible with [chars]

Explanation	This FRU requires a newer CPLD firmware to function properly in this chassis
Recommended Action	Upgrade the CPLD firmware on this FRU using the <code> upgrade hw-programmable CPLD file <pkg_file> slot <fru_slot> </code> command. Please see http://www.cisco.com/en/US/docs/routers/asr1000/cpld/hw_fp_upgrade.html for more details.

%CMRP-5-FRU_CPLD_MISMATCH : CPLD ver [chars] in slot [chars] does not match Active CPLD ver [chars]

Explanation	This FRU requires a matching CPLD firmware to function properly in this chassis
Recommended Action	Upgrade the CPLD firmware to have matching versions.

%CMRP-2-RP_CPLD_INCOMPATIBLE : All other cards in the system have been held in reset as the Active RP [chars] in slot [chars] has CPLD firmware version that is incompatible with [chars]

Explanation	Active RP requires a newer CPLD firmware to function properly in this chassis
Recommended Action	Upgrade the CPLD firmware on this FRU using the <code> upgrade hw-programmable CPLD file <pkg_file> slot <fru_slot> </code> command. Please see http://www.cisco.com/en/US/docs/routers/asr1000/cpld/hw_fp_upgrade.html for more details.

%CMRP-2-RP_CPLD_INCOMPATIBLE_OTHER : [chars] in slot [chars] has been held in reset because [chars]

Explanation	Active RP requires a newer CPLD firmware to function properly in this chassis.
Recommended Action	Upgrade the CPLD firmware on this FRU using the <code> upgrade hw-programmable CPLD file <pkg_file> slot <fru_slot> </code> command. Please see http://www.cisco.com/en/US/docs/routers/asr1000/cpld/hw_fp_upgrade.html for more details.

%CMRP-2-FRU_HWPRG_UPG_FAILED : Failed to [chars] [chars] hardware programmable on [chars] in [chars].

Explanation	Upgrade hw-programmable failed to upgrade the CPLD/FPGA firmware on the given FRU
Recommended Action	Reload the card and retry to program the hw-programmable. If the card fails to come up please contact TAC

%CMRP-3-FRU_HWPRG_UPG_SUCCESS : Hardware programmable [chars] on [chars] in slot [chars] was successfully programmed. The card will now be power-cycled or reset.

Explanation	The hw-programmable CPLD/FPGA was upgraded successfully
Recommended Action	No action is required. This is informational message

%CMRP-3-FRU_HWPRG_UPG_UNSUPP : Upgrade of hardware programmable [chars] on [chars] in slot [chars] is not supported. Card will now be powered down.

Explanation	upgrade of hw-programmable CPLD/FPGA not supported.
Recommended Action	No action is required. This is informational message

%CMRP-3-FRU_HWPRG_NO_FILE_ENTRY : Cannot find file or directory on [chars] in slot [chars].

Explanation	Cannot find a file or a directory when upgrade CPLD or FPGA.
Recommended Action	No action is required. This is an informational message

%CMRP-3-FRU_HWPRG_BAD_DEVICE : Invalid HW programming device for [chars] in slot [chars].

Explanation	The device is not supported in hardware programming.
Recommended Action	No action is required. This is an informational message

%CMRP-3-FRU_HWPRG_LOAD_KMODULE_FAIL : Cannot load a kernel module on [chars] in slot [chars].

Explanation	Cannot load a Kernel module when upgrade CPLD or FPGA.
Recommended Action	Reload the card and retry to program the hw-programmable. If you get the same error, please contact TAC

%CMRP-3-HWPRG_UPG_UNSUPP_SLOT : upgrade of hardware programmables on [chars] is not supported while in slot [chars]. Card will now be powered down.

Explanation upgrade of hw-programmable CPLD/FPGA not supported in the given slot. Move the card to a different slot and perform the upgrade

Recommended Action Move the card to a different slot and perform the upgrade

%CMRP-3-FRU_HWPRG_RESTART_ERROR : Error [chars] when Chassis Manager restarts [chars] in slot [chars].

Explanation Restart procedure has an error after upgrade.

Recommended Action Try hw-module command to reload the FRU.

%CMRP-3-FRU_HWPRG_UPG_PS_FAILED : Power-Supply Module MCU [chars] in slot [chars] program failed

Explanation The hw-programmable power-supply upgrade failed

Recommended Action Please check Power-Supply model and PKG file.

%CMRP-6-FRU_HWPRG_UPG_PS_SUCCESS : Power-Supply Module MCUs in slot [chars] were successfully programmed.

Explanation The hw-programmable power-supply was upgraded successfully

Recommended Action No action is required. This is informational message

%CMRP-6-FRU_HWPRG_UPG_PSOC_START : Hardware programmable PSOCs on [chars] in slot [chars] are upgrading, \ please don't reload or power-cycle this card. \ It will take about 10 mins to finish.

Explanation The hw-programmable PSOC is upgrading

Recommended Action No action is required. This is informational message

%CMRP-6-FRU_HWPRG_UPG_PSOC_SUCCESS : Hardware programmable PSOCs on [chars] in slot [chars] were successfully programmed. Please power-cycle or OIR the card to make them work

Explanation The hw-programmable PSOC was upgraded successfully

%CMRP-6-FRU_HWPRG_UPG_PSOC_SUCCESS : Hardware programmable PSOCs on [chars] in slot [chars] were successfully programmed. Please power-cycle or OIR the card to make them work

Recommended Action No action is required. This is informational message

%CMRP-6-FRU_HWPRG_UPG_PSOC_PREPARE : Hardware programmable PSOCs on [chars] in slot [chars] were set in the golden mode. Please power-cycle or OIR the card to finish the upgrading

Explanation The hw-programmable PSOCs were set in the golden mode for FPD

Recommended Action No action is required. This is informational message

%CMRP-6-FRU_HWPRG_UPG_PSOC_DONE : Hardware programmable PSOCs on [chars] in slot [chars] were upgraded successfully

Explanation The hw-programmable PSOC was upgraded successfully

Recommended Action No action is required. This is informational message

%CMRP-6-FRU_HWPRG_UPG_ADM1266_FM_START : Hardware programmable ADM1266s on [chars] in slot [chars] are upgrading, \ please don't reload or power-cycle this card. \ It will take about 10 mins to finish.

Explanation The hw-programmable ADM1266 Firmware is upgrading

Recommended Action No action is required. This is informational message

%CMRP-6-FRU_HWPRG_UPG_ADM1266_FM_SUCCESS : Hardware programmable ADM1266s on [chars] in slot [chars] were successfully programmed. The card is reloading to make them work

Explanation The hw-programmable ADM1266 fimware was upgraded successfully

Recommended Action No action is required. This is informational message

%CMRP-3-RP_MISMATCH : [chars] has been held in reset because the part number differs from that of the active RP

Explanation The part number read from the FRU IDPROM is not compatible with part number of the active RP therefore, it may not

Recommended Action Remove the FRU from the chassis.

%CMRP-3-FP_DOWNREV : [chars] has been held in reset because it is down-rev to the previous FP ([hex] -> [hex]) in the chassis. Reboot the router to bring it up.

Explanation The FP inserted is a lower version than the previous Active FP in the router. Downrev of FP is not supported.

Recommended Action Reboot the router.

%CMRP-3-FP_UNSUPP_UPREV : [chars] has been held in reset because of an unsupported upgrade of FP ([hex] -> [hex]) in the chassis. Reboot the router to bring it up.

Explanation The FP inserted is a higher version than the previous Active FP in the router but this upgrade of FP is not supported.

Recommended Action Reboot the router.

%CMRP-3-FP_LESSTHAN : [chars] has been held in reset because it is down-rev to the active and cannot act as a standby.

Explanation The part number read from the FP IDPROM is not compatible with part number of the active FP therefore, it may not

Recommended Action Remove the FP from the chassis.

%CMRP-3-PWR_FAULT : Shutting down [chars] because power fault on primary is [chars] and secondary is [chars]

Explanation The FRU has been shutdown as a result of a power issue.

Recommended Action Check to ensure the router is receiving power. Otherwise, note the time of the error message and examine the logs for power-related errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-0-PWR_FAULT_INITIALIZATION : Power fault monitor initialization has failed because [chars]

Explanation The power fault monitor has failed to initialize.

%CMRP-0-PWR_FAULT_INITIALIZATION : Power fault monitor initialization has failed because [chars]

Recommended Action	Note the time of the error message and examine the Chassis Manager logs. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%CMRP-0-RESOURCE : Resource allocation failed in [chars] because [chars]

Explanation	The system is unable to allocate the requested resource.
Recommended Action	In most cases, this message is seen as a result of a temporary resource issue. Retry the request for the resource when the system is experiencing lower traffic volumes. If the message persists, reload the router using the reload command.

%CMRP-6-RP_SWITCH_SB_SYNC : RP switchover: [chars]

Explanation	The RP switch synchronization timer expired.
Recommended Action	No user action is necessary.

%CMRP-3-RP_SWITCH_SB_NOT_READY : RP switchover: [chars]

Explanation	An RP switchover occurred when the standby RP was not ready. The standby RP reset.
Recommended Action	No user action is necessary. Allow the standby RP to reset.

%CMRP-0-SYPAGE_WRITE_ERROR : The syspage chassis-type write has failed because [chars]

Explanation	The syapge chassis-type write failed. This could be due to a software defect.
Recommended Action	Note the time of the error message and examine the Chassis Manager logs. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-HWMOD_FAIL : hw-module [chars] command for slot [chars] failed ([chars])

Explanation	The last hw-module command that was entered failed to complete
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%CMRP-3-HWMOD_FAIL : hw-module [chars] command for slot [chars] failed ([chars])

Recommended Action Retry the command. If the retry of the command fails, reload the router. If reloading the router fails to resolve the problem, note the time of the error message and examine the Chassis Manager logs. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-RP_SB_RELOAD : Reload of Standby RP failed: [chars]

Explanation A request to reload the standby RP failed.

Recommended Action Manually reload the standby RP. If that fails, configure SSO or RPR and then attempt the reload. If the problem persists, note the time of the error message and examine the Chassis Manager logs. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, show redundancy state, and the output of show tech-support and provide the gathered information to a Cisco technical support representative

%CMRP-6-RP_SB_RELOAD_REQ : Reloading Standby RP: [chars]

Explanation A reload of Standby RP has been requested.

Recommended Action No action is necessary.

%CMRP-3-RP_RESET : RP is resetting : [chars]

Explanation This RP is resetting due to the reason specified.

Recommended Action No action is necessary.

%CMRP-6-FP_SB_RELOAD_REQ : Reloading Standby FP: [chars]

Explanation A reload of Standby FP has been requested.

Recommended Action No action is necessary.

%CMRP-6-DUAL_IOS_STARTING : Software redundant IOS configured starting standby

Explanation Chassis manager received notification that IOS software redundancy has been configured. The standby IOS will be started in the time specified.

%CMRP-6-DUAL_IOS_STARTING : Software redundant IOS configured starting standby

Recommended Action No action is necessary.

%CMRP-6-DUAL_IOS_STOPPING : Bringing down standby IOS

Explanation Chassis manager received notification to stop the standby IOS instance. This may be for a redundancy mode change. Depending on the reason, the standby may be subsequently restarted.

Recommended Action No action is necessary.

%CMRP-6-DUAL_IOS_REBOOT_REQUIRED : Configuration must be saved and the chassis must be rebooted for IOS redundancy changes to take effect

Explanation Chassis manager received notification that IOS software redundancy has been configured. For these changes to take effect, the system must be restarted.

Recommended Action Reload the chassis.

%CMRP-6-SINGLE_IOS_REBOOT_RECOMMENDED : Configuration must be saved and the chassis should be rebooted for optimal single-IOS execution

Explanation Chassis manager received notification that IOS software redundancy has been unconfigured. For optimal runtime resource allocation, the system must be restarted.

Recommended Action Reload the chassis.

%CMRP-3-CHASSIS_MONITOR_FRU_BOOT_STATUS : Reloading [chars] because the FRU boot status is unknown

Explanation The time at which the FRU started booting is not available. This time is used to check the boot status of the FRU.

Recommended Action Remove the FRU from the chassis if the FRU is continuously reloaded.

%CMRP-3-CHASSIS_MONITOR_FRU_BOOT_RETRIES_EXCEEDED : [chars] has been held in reset because it has failed to successfully boot in [dec] tries

Explanation The FRU has failed to successfully boot in the maximum allowable attempts and is held in reset.

%CMRP-3-CHASSIS_MONITOR_FRU_BOOT_RETRIES_EXCEEDED : [chars] has been held in reset because it has failed to successfully boot in [dec] tries

Recommended Action Remove the FRU from the chassis if the FRU continuously fails to boot.

%CMRP-3-CHASSIS_MONITOR_ONLINE_TIME_EXCEEDED : Reloading [chars] because it has failed to come online

Explanation A FRU has failed to come online within the maximum boot time.

Recommended Action Remove the FRU from the chassis if the FRU is continuously reloaded.

%CMRP-3-CHASSIS_MONITOR_READY_TIME_EXCEEDED : Reloading [chars] because it has failed to become ready for packet processing

Explanation The FRU failed to become ready within the maximum ready time. This message applies to FP FRUs. A switchover will be performed if another FP is available.

Recommended Action Remove the FRU from the chassis if the FRU is continuously reloaded.

%CMRP-3-CHASSIS_MONITOR_ONLINE_TIME_IGNORED : [chars] exceeded online time but will not be reset because fault ignore is configured

Explanation The FRU failed to come online within the maximum online time. This message applies to all FRUs. A reload will not be performed because fault ignore is configured.

Recommended Action No action is necessary.

%CMRP-3-CHASSIS_MONITOR_READY_TIME_IGNORED : [chars] exceeded ready time but will not be reset because fault ignore is configured

Explanation The FRU failed to become ready within the maximum ready time. This message applies to FP FRUs. A switchover and/or reload will not be performed because fault ignore is configured.

Recommended Action No action is necessary.

%CMRP-3-CHASSIS_FRU_FAULT_IGNORED_ISSET : CMAN_IGNORE_FRU_FAULTS is set. Some FRU faults will be ignored and FRU may not restart due to a fault

Explanation Debug variable will prevent a FRU from being restarted due to some faults.

%CMRP-3-CHASSIS_FRU_FAULT_IGNORED_ISSET : CMAN_IGNORE_FRU_FAULTS is set. Some FRU faults will be ignored and FRU may not restart due to a fault

Recommended Action No action is necessary.

%CMRP-3-CHASSIS_FRU_FAULT_IGNORED : CMAN_IGNORE_FRU_FAULTS is set. [chars]: [chars]

Explanation Debug variable will prevent a FRU from being restarted due to some faults.

Recommended Action No action is necessary.

%CMRP-6-TEST_SPA_OIR_ONLINE_OPS : SPA [dec]/[dec] oir online status is set to [chars]

Explanation test command executed to either allow/deny the spa coming online.

Recommended Action oir online action If the card does not come online, execute the test command to allow the spa to come online.

%CMRP-6-TEST_SPA_OIR_ONLINE_INSERT_DENIED : SPA [dec]/[dec] oir insert is denied

Explanation test command executed disallowing the spa to be inserted.

Recommended Action Execute the test command allowing the insertion of the spa for normal operation

%CMRP-2-CRYPTOGRAPHIC_HW_MISMATCH : ESP[dec] does not support strong cryptography. Chassis will reload.

Explanation IOS software featuring strong cryptography is invalid for use with any non-strong-cryptography Embedded Service Processor. The router node will reload if this combination is encountered.

Recommended Action Install a non-strong-cryptography image of the RP IOS package or replace the indicated Embedded Service Processor with one that supports strong-cryptography

%CMRP-3-INVENTORY_INITIALIZATION : [chars] inventory file could not be read. FRU may need a reload to initialize properly, [chars]

Explanation The FRU inventory file could not be read. The file can possibly be corrupt. The FRU will possibly not initialize properly. The FRU should reset automatically. If it does not, it should be reloaded manually. If the error persists, the FRU will need to be replaced.

Recommended Action Wait a few minutes. If FRU does not reset automatically, it should be manually reloaded. If error persists, the FRU needs to be replaced.

%CMRP-5-PRERELEASE_HARDWARE : [chars] is pre-release hardware

Explanation The board does have an official production part number.

Recommended Action Immediately contact Cisco for a replacement board.

%CMRP-6-RFROLE : RP switchover, [chars]

Explanation On RP switchover chasfs rfrole property has been changed.

Recommended Action No user action is necessary.

%CMRP-3-DUAL_IOS_STANDBY_BAY : Standby bay cannot be launched due to failure in bringing down existing processes (Attempts: [dec])

Explanation During standby bay shutdown, some related processes still remain running for an unexpectedly prolonged period of time. Chassis-manager has timed-out waiting for all related processes to shutdown. As a result, it is unable to notify Process-manager to restart the bay

Recommended Action Examine the logs for standby bay's Forwarding-manager (fman), Interface-manager (iman), Pluggable-Service-Daemon (psd) and IOS. Ascertain which of these processes is taking too long to shutdown and note the reason. Take corrective action based on the error noted in the log

%CMRP-3-INCOMPATIBLE_STANDBY_SUPERVISOR :

Explanation Supervisor found in Standby slot may not be fully compatible with the active supervisor and may cause issues.

Recommended Action Use supervisors with the same specifications to enable High Availablity features.

%CMRP-6-THROUGHPUT_LICENSE : Throughput license [chars], throughput set to [chars]

Explanation Status indicating whether throughput license is found and the corresponding througput the CPP hardware is configured to provide.

Recommended Action No user action is necessary. This is an informational message indicating throughput configured.

%CMRP-3-THROUGHPUT_LICENSE_APPLY_FAILED : Throughput license look-up failed due to '[chars]'

Explanation	This message is to notify the user that a license look-up did not succeed because license manager process could not be contacted. This is a rare case but is due to either a crashed license daemon(licensed) or it encountered an internal error.
Recommended Action	No user action is necessary. However, it is possible that a re-boot of the box may correct this behavior.

%CMRP-3-UDI_AUTH : Quack Unique Device Identifier authentication failed

Explanation	This chassis seems to be compromised or tampered with. UDI burned on to the Quack chip and the one read from chassis EEPROM do not match. It can also be a case of either EEPROM or Quack device failure. More details about which specific field failed to match are logged in license daemon log file (licensed_R0.log).
Recommended Action	User immediately needs to contact Cisco support. This device appears to be tampered with or is a counterfeit device or had a system failure.

%CMRP-3-SIP_MDR_FAIL : The SIP[dec] failed Minimal Disruptive Restart because [chars]

Explanation	The SIP failed Minimal Disruptive Restart. Minimal Disruptive Restart process is aborted and an attempt will be made to recover the SIP by resetting the SIP hardware.
Recommended Action	Examine the system logs for errors.

%CMRP-3-INTERNAL_HW_ERROR : An nternal error condition was detected and resolved.

Explanation	An internal error condition was detected, and affected part of hardware was reset. If this error condition reoccurs, the hardware may need to be replaced.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-0-INTERNAL_HW_SHUTDOWN : Internal unrecoverable error condition was detected. System is being reset.

Explanation	Internal unrecoverable error condition was detected, and so the system was reset. If this error condition reoccurs, the hardware may need to be replaced.
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%CMRP-0-INTERNAL_HW_SHUTDOWN : Internal unrecoverable error condition was detected. System is being reset.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-4-SYSTEM_OVER_CURRENT : Overall system over-current has been detected. System will be reset.

Explanation Internal error (system over-current) condition was detected, and so the system was reset. If this error condition reoccurs, the hardware may need to be replaced.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-4-NGWICS_OVER_CURRENT : A NIM over-current condition has been detected. System will be reset.

Explanation Internal error (NIM over-current) condition was detected, and so the system was reset. If this error condition reoccurs, the hardware may need to be replaced.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-4-FAN_TRAY_OVER_CURRENT : A Fan Tray over-current has been detected. System will be reset.

Explanation Internal error (Fan Tray over-current) condition was detected, and so the system was reset. If this error condition reoccurs, the hardware may need to be replaced.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-4-MOTHERBOARD_OVER_CURRENT : Motherboard over-current has been detected. System will be reset.

Explanation	Internal error (Motherboard over-current) condition was detected, and so the system was reset. If this error condition reoccurs, the hardware may need to be replaced.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-2-FRU_FPGA_INCOMPATIBLE : [chars] in slot [chars] has been held in reset as its FPGA firmware version is incompatible with [chars]

Explanation	This FRU requires a newer FPGA firmware to function properly in this chassis
Recommended Action	Upgrade the FPGA firmware on this FRU using the <code>upgrade hw-programmable FPGA file <pkg_file> slot <fru_slot> </code> command.

%CMRP-6-FRU_FPGA_UPG_REQUIRED : [chars] in slot [chars] has INCOMPATIBLE FPGA firmware version with [chars]. Upgrade the FPGA firmware

Explanation	This FRU requires a newer FPGA firmware to function properly in this chassis
Recommended Action	Upgrade the FPGA firmware on this FRU using the <code>upgrade hw-programmable FPGA file <pkg_file> slot <fru_slot> </code> command.

%CMRP-3-FAN_REMOVE_IM_SHUT : The Interface Modules (IM's) may shutdown in [dec] minutes [dec] seconds.

Explanation	Fan tray has been removed and the router will shutdown to protect itself from overheating in the amount of time stated in the error message.
Recommended Action	Reinsert a fan tray into the fan tray slot as soon as possible.

%CMRP-3-FAN_REMOVE_SHUT : The system will shut down in [dec] minutes [dec] seconds

Explanation	Fan tray has been removed and the router will shutdown to protect itself from overheating in the amount of time stated in the error message.
Recommended Action	Reinsert a fan tray into the fan tray slot as soon as possible.

%CMRP-3-FAN_REMOVE_RSP3_SHUT : System received fan tray removal notification, Reinsert or service the faulty fan tray to avoid system shutdown due to high temperature. System will shutdown in [dec] minutes [dec] seconds based on current ambient temperature.

Explanation Fan tray has been removed and the router will shutdown when the ARAD temp reaches Critical temperature i.e 105C to protect itself from overheating.

Recommended Action Reinsert a fan tray into the fan tray slot as soon as possible.

%CMRP-3-FAN_REMOVE_RSP2_SHUT : The system will shut down when CYLON temp reaches 105C

Explanation Fan tray has been removed and the router will shutdown when cylon temperature reaches critical temperature i.e. 105C to protect itself from overheating in the amount of time stated in the error message.

Recommended Action Reinsert a fan tray into the fan tray slot as soon as possible.

%CMRP-3-FAN_REMOVE_SYS_SHUTDOWN_PENDING : System shutdown will occur in [dec] minutes.

Explanation The FRU is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-3-EXT_ALARM_INTERRUPT : Alarm [chars]:external alarm contact [dec]

Explanation There is an external alarm on the line.

Recommended Action If alarm is asserted, then clear at the source.

%CMRP-3-FAN_FAILURE_SYS_SHUTDOWN : WARNING: More than one Fan Failure detected and shutdown SYS state. System shutdown now TRUE:[hex].

Explanation More than one fan failures are identified this causing overheating the system and will be shut down in order to protect the components.

%CMRP-3-FAN_FAILURE_SYS_SHUTDOWN : WARNING: More than one Fan Failure detected and shutdown SYS state. System shutdown now TRUE:[hex].

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-3-POWERBUDGET : not enough power budget left for : [chars]:[dec]

Explanation The system do not have enough power budget for the new card.

Recommended Action the message will be displayed when not enough power budget left for the new card inserted.

%CMRP-2-BAD_ID_HW : Failed Identification Test in [chars]. The module [chars] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.

Explanation Hardware in the specified location could not be identified as a genuine Cisco product

Recommended Action Replace the hardware with a genuine Cisco product. If this message recurs, contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-2-ACT2_UDI_DATA_INVALID : The act2 udi secure area format mismatch with unsecure area

Explanation This Router may not have been manufactured by Cisco or with Cisco's authorization. This product may contain software that was copied in violation of Cisco's license terms. If your use of this product is the cause of a support issue, Cisco may deny operation of the product, support under your warranty or under a Cisco technical support program such as Smartnet. Please contact Cisco's Technical Assistance Center for more information.

Recommended Action Replace the current product with a Cisco authorised product. If this message recurs, contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-5-PEM_OUTPUT_DETECT : Output of PEM [dec] is [dec] V

Explanation Value of Output of PEM.

Recommended Action If PEM Output is 0, check Power Cable.

%CMRP-0-CLOCK_MASTERSHIP_SET : Failed to set CLOCK mastership because [chars]

Explanation	The router failed to establish CLOCK mastership.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-ODD_OPR : An OOD operation has failed because [chars]

Explanation	An OOD operation has failed. This could be due to a hardware or software defect.
Recommended Action	Note the time of the error message and examine the logs for OOD errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-6-STBY_HARDDISK_UNAVAIL : stby-harddisk is offline

Explanation	The stby-harddisk is not available.
Recommended Action	No user action is necessary. This is an informational message.

%CMRP-3-LICENSE_TIMEOUT : Throughput license request timed out. Throughput level set to default

Explanation	Throughput license was never received from lman
Recommended Action	Examine logs for error messages

%CMRP-5-UNSUPPORTED_MODULE : Unsupported Module inserted. The module [chars] on the slot [dec] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.

Explanation	Hardware in the specified location could not be identified as a genuine Cisco product
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%CMRP-5-UNSUPPORTED_MODULE : Unsupported Module inserted. The module [chars] on the slot [dec] may not be a genuine Cisco product. Cisco warranties and support programs only apply to genuine Cisco products. If Cisco determines that your insertion of non-Cisco memory, WIC cards, AIM cards, Network Modules, SPA cards, GBICs or other modules into a Cisco product is the cause of a support issue, Cisco may deny support under your warranty or under a Cisco support program.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP-3-SERDES_NSTEP_SYNC_ERROR : Link down in Slot=[int], Link-Type=[int], Link-Status=[hex], Link=[int]

Explanation One or more Backplane Link didn't come up. This could be due to a hardware defect.

Recommended Action Note the time of the error message and examine the logs for repeated SYNC errors after repeated retries. If the logs, provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-SOFT_ERROR_RELOAD : Uncorrected Soft error on [chars], reloading RP to recover

Explanation Uncorrected Soft error on critical module, reloading the RP to recover

Recommended Action If this reoccures frequently, contact asr903-system

%CMRP-3-SOFT_ERROR_RELOAD_RECOMMENDED : Uncorrected Soft error on [chars], reload is recommended to recover.

Explanation Uncorrected Soft error on critical module, reload is recommended to recover

Recommended Action If this reoccures frequently, contact asr903-system

%CMRP-3-SOFT_ERROR_WAIT : Uncorrected Soft error on [chars], waiting for standby to switchover

Explanation Uncorrected Soft error on critical module, waiting for standby to reach SSO to switchover

Recommended Action If this reoccures frequently, contact asr903-system

%CMRP-3-SOFT_ERROR_UPDATE : Critical soft error on [chars]

Explanation	Update for each soft error on different components
Recommended Action	If this reoccures frequently, contact asr903-system

%CMRP-6-FRU_HWPRG_CPLD_POSTUPG_SUCCESS : Hardware CPLD postupgrade on CLC[dec] was successfully programmed.The LC is reloading to make it take effect.

Explanation	The hw-programmable CPLD postupgrade was upgraded succesfully
Recommended Action	No action is required. This is informational message

%CMRP-3-PSU_INCOMPATIBLE : The combination of Power Supply in P0: [chars] and P1: [chars] is not supported in power [chars] mode

Explanation	An incompatible power supplies combination has been identified in P0 and P1 power supply slots. This could cause unpredictable behavior in power management in the router.
Recommended Action	This error indicates that the combination of the two power supplies in P0 and P1 is an unsupported combination. In order to fix this issue, please review the installation guide, plug out one of the power supplies based on the requirement. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-3-FAN_INCOMPATIBLE : The combination of Power Supply and Fan Tray is incompatible

Explanation	The combination of Fan tray and one of the power supply slots is not supported. This could cause unpredictable system behavior.
Recommended Action	This error indicates that the combination of one of the power supplies in P0 or P1 is not supported with the Fan Tray. In order to fix this issue, please review the installation guide, replace the fan tray or the power supply based on the requirement. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%CMRP-6-FRU_HWPRG_UPG_START : Hardware programmable [chars] on [chars] in slot [chars] is upgrading. please don't reload or power-cycle this card. It will take about 5 mins to finish.

Explanation	The hw-programmable was upgrading
Recommended Action	No action is required. This is informational message

%CMRP-6-FORCE_RESET_OTHER_RP : The other SUP RP [dec] is still holding the midplane lock to block the supervisor failover, force reset it to release the midplane lock.

Explanation The Other Supervisor is force reset due to hold the midplane lock for a long time during supervisor failover

Recommended Action No action is required. This is informational message

%CMRP-4-CPP_WARN : Active cable linecard in slot [dec] has been physically removed.

Explanation Plug out one LC with heavy traffic, it may cause cpp queue pending drain and modem offline.

Recommended Action No action is required.

CMRP_ENVMON

%CMRP_ENVMON-3-TEMP_FRU_SHUTDOWN_PENDING : WARNING: [chars] temperature sensor on [chars] is in a shutdown FRU state. FRU shutdown will occur in [dec] minutes.

Explanation The FRU is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_ENVMON-3-TEMP_SYS_SHUTDOWN_PENDING : WARNING: [chars] temperature sensor on [chars] is in a shutdown SYS state. System shutdown will occur in [dec] minutes.

Explanation The FRU is overheating and will be shut down in order to protect the components.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_ENVMON-3-TEMP_FRU_SHUTDOWN_NOW : WARNING: [chars] temperature sensor on [chars] is in a shutdown FRU state. FRU shutdown now.

Explanation	The FRU is overheating and will be shut down in order to protect the components.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_ENVMON-3-TEMP_PSU_SHUTDOWN_NOW : WARNING: [chars] temperature sensor on [chars] is in a shutdown PSU state. PSU shutdown now.

Explanation	The PSU is overheating and will be shut down in order to protect the components.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_ENVMON-3-TEMP_SYS_SHUTDOWN_NOW : WARNING: [chars] temperature sensor on [chars] is in a shutdown SYS state. System shutdown now.

Explanation	The FRU is overheating and will be shut down in order to protect the components.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_ENVMON-3-TEMP_WARN_CRITICAL : WARNING: [chars] temperature sensor on [chars] is in a critical state reading [dec]

Explanation	The FRU is overheating and will be shut down in order to protect the components.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_ENVMON-3-TRANSCEIVER_TEMP_SYS_SHUTDOWN_NOW : WARNING: transceiver temperature sensor is in a shutdown SYS state. System shutdown now [hex].

Explanation	The Transceiver is overheating and will be shut down in order to protect the components.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_ENVMON-3-TEMP_FRU_HW_AUTO_SHUTDOWN : WARNING: The card on slot [dec] is overheating. it has been auto-shutdown by hardware for protection

Explanation	The FRU is overheating and has been auto-shutdown in order to protect the components.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_ENVMON-3-PWR_FRU_HW_AUTO_SHUTDOWN : WARNING: The card on slot [dec] hit abnormal voltage or current. it has been auto-shutdown by hardware for protection

Explanation	The FRU hit abnormal voltage or current and has been auto-shutdown in order to protect the components.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_ENVMON-6-TEMP_SYS_SHUTDOWN_DISABLED : WARNING: System is in a thermal shutdown disabled state. System won't shut down now.

Explanation	Thermal shutdown disable is configured to bypass system shutdown.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CMRP_PFU**%CMRP_PFU-6-PFU_INSERTED : [chars] inserted. System shutdown aborted.**

Explanation When either a PEM or a FM are removed, the system lacks sufficient cooling capacity. To prevent damage, the system will automatically shut down unless it is replaced. This message serves as notice that the module has been replaced within the required time

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PFU_SHUTDOWN : Shutting down system now because the PEM in slot [dec] was removed or not seated correctly.

Explanation When either a PEM or a FM are removed, the system lacks sufficient cooling capacity. To prevent damage, the system will automatically shut down unless it is replaced.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PFU_SLOT_VACANT : The platform does not detect a power supply in slot [dec]

Explanation There is no power supply in one of the power supply slots.

Recommended Action Insert a power supply into the empty slot.

%CMRP_PFU-3-PFU_FANS_DEAD_SHUTDOWN : Shutting down system now because the fans in slot [dec] have all failed.

Explanation When the fans fail then system does not have sufficient cooling capacity. To prevent damage, the system will automatically shut down.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-TEMP_FRU_SHUTDOWN : [chars] temperature sensor on [chars] is in a shutdown FRU state. FRU shutdown will occur in [dec] minutes.

Explanation	The FRU is overheating and will be shut down in order to protect the components.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-TEMP_SYSTEM_SHUTDOWN : [chars] temperature sensor is in a shutdown system state. System shutdown will occur in [dec] minutes.

Explanation	The system is overheating and will be shut down in order to protect the components.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PFU_FANS_DEAD : The fans in the [chars] in slot [dec] have all failed.

Explanation	The system is in danger of overheating because none of the fans in one of the PEMs are working properly.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PFU_FAN_DEAD : WARNING: Fan [dec] in the [chars] in slot [dec] has failed.

Explanation	A fan is not functioning properly.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PFU_IDPROM_READ_ERR : Could not read the PEM/FM idprom in slot P[dec]. The system will run without environmental monitoring for this component

Explanation	The idprom contains information required in order to properly operate the environmental monitoring subsystems. The idprom could not be read, therefore no monitoring will take place.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PFU_IDPROM_CORRUPT : The PEM/FM idprom could be read, but is corrupt in slot P[dec] The system will run without environmental monitoring for this component

Explanation	The idprom contains information required in order to properly operate the environmental monitoring subsystems. The idprom could not be read, therefore no monitoring will take place.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-SHUTDOWN_FAILURE : The system attempted to shut itself down, but failed because [chars]

Explanation	The system reached a condition where it should be shut down, but the shutdown call failed. The system should be manually rebooted.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-6-PEM_INSERTED : PEM in slot [dec] not operational.

Explanation	A PEM seems to be inserted without the power cable connected. This message is a notice that the power supply is not operational, will not provide power to the system, and may not be completely detected by the software until the power cable is connected and the PEM is supplied with the power.
Recommended Action	Insert the power supply cable in the PEM and provide power.

%CMRP_PFU-3-FANASSY_REMOVED : Fan Assembly is removed. Please insert to avoid system from heating.

Explanation	Fan Assembly has been removed from the system. It needs to be inserted back to prevent system from heating. If the system over heats, parts of the system will not function normally and system may shut itself down.
Recommended Action	Insert the fan assembly in the system to prevent system from over heating.

%CMRP_PFU-6-FANASSY_INSERTED : Fan Assembly is inserted.

Explanation	Fan Assembly that was previously removed has been inserted in the system. Preventing the system from over heating is important. So fan assembly should not be removed for extended period of time during normal operation.
Recommended Action	No further action is necessary.

%CMRP_PFU-3-PFU_FAN_ERR : WARNING: Fan [dec] in slot [dec] has the error: [chars], Please replace it with a new fan.

Explanation	A fan is not functioning properly.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-4-PFU_FAN_WARN : WARNING: Fan [dec] in slot [dec] has the error: [chars].

Explanation	A fan is not functioning properly.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-6-PFU_FAN_RECOVERED : Fan in slot [dec] has been recovered from error conditions, Now it's working normally.

Explanation	Fans are just recovered from an error condition,
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%CMRP_PFU-6-PFU_FAN_RECOVERED : Fan in slot [dec] has been recovered from error conditions, Now it's working normally.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-6-PFU_FAN_RECOVERED_I2C : Successfully restored I2C communication to PSoC [dec] on fan module in slot [dec].

Explanation Fans are just recovered from an I2C communication.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-4-PFU_FAN_INSUFFICIENT : WARNING: Insufficient number of fan modules installed. There are only [dec] fan modules, expecting [dec]

Explanation Insufficient number of fan modules installed, should insert new fans as soon as possible to avoid system from over heating.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-6-PWR_MGMT_OK : Sufficient number of power supplies ([dec]) are installed for power redundancy mode [chars] (excess power [dec] watts).

Explanation Sufficient number of power supplies are installed.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-4-PWR_MGMT_WARN : WARNING: Insufficient number of power supplies ([dec]) are installed for power redundancy mode [chars]. The system needs [dec] watts additional power.

Explanation Insufficient number of power supplies are installed. Should insert new power supplies as soon as possible

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PWR_MGMT_ALARM : WARNING: System does not have sufficient input power for minimum reliable operation requiring [dec] watts. The system needs [dec] watts of additional power.

Explanation System power does not meet minimum requirements. Insert additional power supplies or provide current power supplies with a greater input voltage source if applicable.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-4-PWR_MGMT_CAPACITY_MIXED : System contains power supplies of mixed power capacity. Redundancy operating mode Full protected is not supported with this configuration. System will run in Normal protected state.

Explanation HW does not support Full protected mode with mixed capacity power supplies. This is due to current sharing specifically

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PWR_REDUN_ALARM_STATE : WARNING: An active power supply has failed and the system has entered alarm state. The system is operating without power redundancy and has [dec] watts of power remaining

Explanation An active power supplied failed while in redundant power mode.

%CMRP_PFU-3-PWR_REDUN_ALARM_STATE : WARNING: An active power supply has failed and the system has entered alarm state. The system is operating without power redundancy and has [dec] watts of power remaining

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-6-PWR_REDUN_RECOVERED : System has recovered from the alarm state and has [dec] watts of power remaining

Explanation User has recovered the system from the alarm state triggered by a power failure

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PWR_MGMT_LC_SHUTDOWN : WARNING: Linecard in slot [dec] with priority [dec] and a power requirement of [dec] watts has shutdown.

Explanation A LC was shutdown due to a power loss.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-6-PWR_MGMT_LC_RECOVERED : Linecard in slot [dec] with priority [dec] has been recovered from shutdown

Explanation A LC was recovered from a shutdown

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-6-PWR_MGMT_SINGLE_SUP_NOTICE : NOTICE([dec] of [dec]): System is now running in SINGLE-SUP power budget mode. Insertion of the remote supervisor is not supported in this power mode. System may shutdown if second supervisor is inserted.

Explanation	User needs to be notified that single-sup mode is enabled
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PWR_MGMT_SINGLE_SUP_ERROR : ERROR: Remote supervisor has been detected in slot [dec]. System is configured to SINGLE-SUP power mode. Remove remote supervisor IMMEDIATELY.

Explanation	User inserted a second supervisor in a single-sup power mode.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-DCPOWERREDUNDANCY : dc input [chars] failed for pem: [dec]

Explanation	The DC input failed for pem module.
Recommended Action	the message will be displayed when DC input failed.

%CMRP_PFU-5-DCPOWERINPUT : dc input [chars] recovered for pem: [dec]

Explanation	The DC input recovered for pem module.
Recommended Action	the message will be displayed when DC input recovered.

%CMRP_PFU-3-PEM_STATUS : WARNING: The power supply module on slot [dec] hits [chars],

Explanation	The power supply module are not functioning properly.
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%CMRP_PFU-3-PEM_STATUS : WARNING: The power supply module on slot [dec] hits [chars],

Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CMRP_PFU-3-PEM_VOLTAGENOTSUPPORTED : WARNING: Input voltage of power supply module on PS[dec] is not supported. Please use the supported range of either [dec]-[dec] volts for [dec]W or [dec]-[dec] volts for [dec]W

Explanation	The input voltage of the power supply module is out of range
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PWR_PROTECTION_MODE : WARNING: Detected low input voltage ([dec]V) on the power supply in slot P[dec], the power budget may not be enough, some cards may be shutdown due to the power budget reduction. Please check the power input.

Explanation	Input voltage of power supply is too low.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-6-PWR_PROTECTION_RECOVERED : The power supply in slot P[dec] has been recovered from the power protection mode.

Explanation	Power supply input are just recovered from an error condition,
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-3-PWR_PROTECTION_ACTION : Shutdown the card [chars] due to insufficient power budget.

Explanation	The total power is not enough, shutdown FRUs for power protection.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-6-PWR_UP_FRU : Power up the card [chars] due to power budget change.

Explanation	The total power become enough, power FRUs.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CMRP_PFU-6-PFU_BEACON_LED_ON_OFF : [chars] beacon LED for PFU[dec] is TURNED [chars].

Explanation	Power Supply or Fan-tray, Beacon LED turned ON/OFF. This is a notification message only.No action is required.
Recommended Action	This is a notification message only. No action is required.

%CMRP_PFU-1-PFU_FAN_FAILED : System detected fan tray removal or fan failure, reinsert or service the faulty fan tray to avoid system shutdown due to high temperature.

Explanation	Fan tray has been removed or one of the fan failed and the router will shutdown when the temp reaches Critical temperature to protect itself from overheating.
Recommended Action	Reinsert a fan tray into the fan tray slot as soon as possible.

COMMON_FIB**%COMMON_FIB-3-NOMEM : Memory allocation failure for [chars] in [chars] CEF [[hex]] ([chars])[chars].**

Explanation	An attempt to allocate memory has failed. Depending on the criticality of the data to be stored, CEF operation may be impacted.
Recommended Action	Verify that the configuration is supported by the memory present in the system. Copy the message exactly as it appears, and report it to your technical support representative.

%COMMON_FIB-4-UNEQUAL : Ratio of unequal path weightings ([chars]) prevents oce [chars] from being used.

Explanation When attempting to setup the load balancing infrastructure for a prefix with unequal path weightings, CEF discovered that the range of weightings caused one or more paths to be excluded from the final set of load balancing paths. Load balancing will continue with the remaining paths.

Recommended Action Reduce the range of weightings to allow all the paths to be used.

%COMMON_FIB-3-ILLEGALARGS : Illegal arguments - [chars]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-ILIST_OP : Manipulating interest list - [chars]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-NOBROKER : [chars] distribution broker not found - distributing [chars]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-BROKER_ENCODE : [chars] broker failed to encode msg type [dec] for slot(s) [chars]

Explanation COMMON_FIB_INTERNAL_ERROR

%COMMON_FIB-3-BROKER_ENCODE : [chars] broker failed to encode msg type [dec] for slot(s) [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%COMMON_FIB-3-FIBXDRINV : Invalid XDR format. [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBXDRLen : Invalid XDR length. Type [dec] ([chars]). XDR/buffer len [dec]/[dec]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBXDRCLIENT : FIB XDR Client error detected, invalid wkid: ([int])

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-LCPREFIXINCONST1 : Slot [chars] missing prefix entry for [chars] in FIB table [chars] when looking up [chars] [[chars]]

Explanation	A packet arrived on the linecard, but the lookup of the destination IP address failed to find this prefix in the forwarding table. However the prefix is present on the RP. This may be a transient condition.
Recommended Action	If the same prefix gives repeated errors check the CEF prefix on the RP and linecard. If necessary, a clear cef linecard <slot> will download a new CEF table to the linecard. You can also try a clear adjacency command to reload host prefixes.

%COMMON_FIB-4-LCPREFIXINCONST2 : Slot [chars] prefix entry for [chars]/[dec] in FIB table [chars] [[chars]] reason: [chars]

Explanation	A passive consistency checker discovered a prefix that is present on the RP, but is inconsistent in the forwarding table of the linecard. This may be a transient condition.
Recommended Action	If the same prefix gives repeated errors check the CEF prefix on the RP and linecard. If necessary, a clear cef linecard <slot> will download a new CEF table to the linecard. You can also try a clear adjacency command to reload host prefixes.

%COMMON_FIB-4-RPPREFIXINCONST1 : RP prefix for [chars]/[dec] in FIB table [chars] (inconsistent on slot [chars] - [chars]) [[chars]]

Explanation	A passive consistency checker discovered a prefix in the forwarding table of the linecard which is inconsistent on the RP. This may be a transient condition.
Recommended Action	If the same prefix gives repeated errors check the CEF prefix on the RP and linecard. If necessary, a clear cef linecard <slot> will download a new CEF table to the linecard.

%COMMON_FIB-4-RPPREFIXINCONST2 : RP missing prefix for [IP_address]%m in FIB table [chars] (present in routing table) [[chars]]

Explanation	A passive consistency checker discovered a prefix in the routing table which is not present in the CEF forwarding table on the RP. This may be a transient condition.
Recommended Action	If the same prefix gives repeated errors check the prefix in CEF and routing table. Try disable/enable CEF if the prefix is missing.

%COMMON_FIB-4-RPPREFIXINCONST3 : RP has prefix [chars]/[dec] in FIB table [chars] (missing in routing table) [[chars]]

Explanation	A passive consistency checker discovered a prefix in the CEF forwarding table which is not present in the routing table. This may be a transient condition.
Recommended Action	If the same prefix gives repeated errors check the prefix in CEF and routing table. Try disable/enable CEF if the prefix is missing.

%COMMON_FIB-4-HWPREFIXINCONST1 : Hardware on RP missing prefix for [chars]/[dec] in FIB table [chars] (present in RP FIB) [[chars]]

Explanation	A passive consistency checker discovered a prefix in the RP FIB table which is not present in the hardware forwarding table on the RP. This may be a transient condition.
Recommended Action	If the same prefix gives repeated errors check the prefix in CEF and routing table. Try disable/enable CEF if the prefix is missing.

%COMMON_FIB-4-HWPREFIXINCONST2 : Hardware in slot [chars] missing prefix for [chars]/[dec] in FIB table [chars] (present in LC FIB) [[chars]]

Explanation	A passive consistency checker discovered a prefix in the LC FIB table which is not present in the hardware forwarding table on this linecard. This may be a transient condition.
Recommended Action	If the same prefix gives repeated errors check the prefix in CEF and routing table. Try disable/enable CEF if the prefix is missing.

%COMMON_FIB-4-HWPREFIXINCONST3 : RP missing prefix for [chars]/[dec] in FIB table [chars] (present in RP hardware) [[chars]]

Explanation	A passive consistency checker discovered a prefix in the hardware table which is not present in the FIB forwarding table on the RP. This may be a transient condition.
Recommended Action	If the same prefix gives repeated errors check the prefix in CEF and routing table. Try disable/enable CEF if the prefix is missing.

%COMMON_FIB-4-HWPREFIXINCONST4 : Slot [chars] missing prefix for [chars]/[dec] in FIB table [chars] (present in LC hardware) [[chars]]

Explanation	A passive consistency checker discovered a prefix in the LC hardware table which is not present in the FIB forwarding table on this linecard. This may be a transient condition.
Recommended Action	If the same prefix gives repeated errors check the prefix in CEF and routing table. Try disable/enable CEF if the prefix is missing.

%COMMON_FIB-4-AUTOREPAIR : CEF [chars] database auto-repair executed

Explanation	The CEF consistency checkers have detected an inconsistent prefix in one of the CEF forwarding databases. The auto-repair function has been executed to repair the problem. Details of the prefix can be found using the 'show cef table consistency' command.
Recommended Action	Copy the message exactly as it appears, together with the output of the 'show cef table consistency' command and report it to your technical support representative,

%COMMON_FIB-3-TABLE : [chars]: [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_GSB : Generic subblock error: [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_GSB2 : Generic subblock error: [chars][chars][chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-6-FIB_GSB_TEST_MSG : Test subblock error: [chars]

Explanation	The subblock test command could not be completed successfully
Recommended Action	No action is required.

%COMMON_FIB-3-FIB_ATTACHED_EXPORT : Attached export tracking error: [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_FIB_SOURCE : [chars] for [chars] - [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_FIB_SOURCE_NULL_FIBIDB : [chars] NULL fibidb in broadcast sb

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_FIB_SOURCE_IPL_SB : [chars] - [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-6-FIB_RECURSION : [chars] has too many ([int]) levels of recursion during [chars]

Explanation	CEF discovered that the routing for a prefix involved excessive many levels of recursion and was forced to terminate an operation on the entry for that prefix. This is likely to be caused by a recursion loop
Recommended Action	If the problem persists use show commands show ip route A.B.C.D and show ip cef A.B.C.D <mask> internal or the ipv6 equivalents show ipv6 route X:X:X:X::X and show ipv6 cef X:X:X:X::X/<0-128> internal to display the RIB and CEF information for the prefix in question and check its configuration. If this prefix is in a VRF, please also check show ip cef vrf <VRF> A.B.C.D/mask internal or show ipv6 cef vrf <VRF> X:X:X:X::X/<0-128> internal. If there is still a problem, please contact the technical support center with the output of these commands and show tech.

%COMMON_FIB-4-BADXDRHWSBDECODE : HW subblock decode ([chars] / [dec]) - wrong length read (expected [dec], decoded [dec])

Explanation	The given HW subblock is not being processed correctly on the linecard. The error has been corrected, but should be reported in case there are related problems that need to be addressed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-BADXDRSWSBDECODE : SW subblock decode ([chars] / [dec]) - wrong length read (expected [dec], decoded [dec])

Explanation	The given SW subblock is not being processed correctly on the linecard. The error has been corrected, but should be reported in case there are related problems that need to be addressed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-SBWITHOUTISSUSUPPORT : [chars] [chars] subblock doesn't support ISSU and can't be used.

Explanation	The given SW subblock doesn't support ISSU so may not be processed correctly on the LC. It has not been registered by the CEF component.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-ILLEGAL_MSG_TYPE : Cannot find ISSU message type for FIB [chars] ([dec]) [chars]SB [chars] msg

Explanation	The given SW subblock is being sent to an ISSU aware endpoint but CEF cannot verify that this message has been negotiated successfully and cannot send it. This is a coding error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-FIBIDB : No fibidb found for [chars] during [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-FIBHWIDB : No fibhwidb for [chars] found during [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-FIBXDR_REGISTRATION : Unable to register XDR client ([chars]).

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-ASSERT : Assertion '[chars]' failed in [chars] CEF [[hex]]: [chars] ([chars])[chars].

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-ASSERT_RL : Assertion '[chars]' failed in [chars] CEF [[hex]]: [chars] ([chars])[chars].

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-DISABLING : [chars] CEF is being disabled due to a fatal error.

Explanation	COMMON_FIB_INTERNAL_ERROR
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%COMMON_FIB-4-DISABLING : [chars] CEF is being disabled due to a fatal error.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%COMMON_FIB-3-DEPENDENCY_WALK : Walk specification [IPV6 address] missing handler for type [dec] dependency

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-DEPENDENCY_CHAIN : Missing handler for type [dec] dependency

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBDEPDUMP : [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBPLDEPDUMP : [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBCOVEREDEPDUMP : [chars] [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-BROKERINVMSG : Invalid message: [chars], type [chars], len [dec]

Explanation	An invalid message has been received by this broker.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-ISSUBUFFERTOOSHORTMSG : Message [chars] for slots [chars] is too large ([dec] bytes, max [dec])

Explanation	There is not enough buffer space for ISSU transformations. The message must not proceed any further or a buffer overrun may result.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-ISSUENCODEWRONGLEN : Message [chars] for slots [chars] is wrong length ([dec], should be [dec])

Explanation	The encoded message length doesn't match the expected length. Message will not be sent.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-SBNOTISSUAWARE : Subblock [chars] is not ISSU aware and should be!

Explanation ALL FIB subblocks must be ISSU aware. The subblock code must be rewritten for ISSU. Otherwise this may lead to unpredictable behaviour when running in SSO mode with two different versions of IOS.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-MSGISSUAWARE : Message [chars] ([dec]) is ISSU aware so cannot use old FIB API.

Explanation ALL FIB subblocks must be ISSU aware. The subblock code must be rewritten for ISSU. Otherwise this may lead to unpredictable behaviour when running in SSO mode with two different versions of IOS.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-SB_STAT_ENCODE : Encoding of [chars] [chars] stats XDR too big

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-CHAIN_INSERT_INCONS1 : Attempting to insert [IPV6 address] after [IPV6 address] but it is still pointed at by [IPV6 address]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-CHAIN_INSERT_INCONS2 : Attempting to insert [IPV6 address] after [IPV6 address] but it has prev set to [IPV6 address]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-CHAIN_REMOVE_INCONS1 : Attempting to remove [IPV6 address] but prev [IPV6 address] points at [IPV6 address] instead

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-CHAIN_REMOVE_INCONS2 : Attempting to remove [IPV6 address] but it has no prev (next is [IPV6 address])

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-CHAIN_REMOVE_INCONS3 : Attempting to remove [IPV6 address] with next [IPV6 address] thinks its prev is [IPV6 address]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-CHAIN_BAD_MAGIC : Bad magic for element [IPV6 address] ([hex] != [hex])

Explanation	COMMON_FIB_INTERNAL_ERROR
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%COMMON_FIB-3-CHAIN_BAD_MAGIC : Bad magic for element [IPv6 address] ([hex] != [hex])

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%COMMON_FIB-3-DQUEUE_BAD_PREV : elem [IPv6 address] type [hex] elem->prev [IPv6 address] elem->prev_type [hex] elem->prev->next [IPv6 address]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-DQUEUE_BAD_NEXT : elem [IPv6 address] type [hex] elem->next [IPv6 address] elem->next_type [hex] elem->next->prev [IPv6 address]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBIDB_DB_MEM : [chars] chunk pool could not be [chars]. Possible memory leak.

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBIDB_DB_INTERNAL : fibidb [chars] if_nb [dec] could not be [chars] db

Explanation	COMMON_FIB_INTERNAL_ERROR
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%COMMON_FIB-3-FIBIDB_DB_INTERNAL : fibidb [chars] if_nb [dec] could not be [chars] db

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%COMMON_FIB-3-FIBIDB_DB_NULL_FIBIDB : API called with NULL fibidb

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-EPOCH : Failed to start [chars] of [chars]entries in table [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-IPMFI_TIMING_PRESENT : IPMFI Timing Tool present in image - performance will be degraded

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-FIBMSG : Invalid message received. Type [chars], event/sub-type [dec], length [dec]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-ILLEGAL_TABLEID : Attempt to create [chars] table with illegal tableid [dec] ([chars]:[chars])

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-NO_TABLE_NAME : Attempt to clear the name of [chars] table with tableid [dec], previous name [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-2-FIBTABLEILLEGAL : Attempt to used uninitialized CEF data structure.

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBIDBEARLYCALL : Attempt to update fibidb prior to completion of idb initialization.

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-2-IFINDEXBOUNDS : Attempt to use out of bounds interface index: [dec]

Explanation	COMMON_FIB_INTERNAL_ERROR
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%COMMON_FIB-2-IFINDEXBOUNDS : Attempt to use out of bounds interface index: [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%COMMON_FIB-2-HW_IF_INDEX_ILLEGAL : Attempt to create CEF interface for [chars] with illegal index: [dec]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-2-IF_NUMBER_ILLEGAL : Attempt to create CEF interface for [chars] with illegal if_number: [dec]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBIDBINCONS1 : An internal software error occurred. [chars] should be first fibidb

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBIDBINCONS2 : An internal software error occurred. [chars] linked to wrong idb [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
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%COMMON_FIB-3-FIBIDBINCONS2 : An internal software error occurred. [chars] linked to wrong idb [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%COMMON_FIB-3-FIBHWIDBINCONS : An internal software error occurred. [chars] linked to wrong hwidb [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-FIBIDBMISMATCH : Mis-match between idb [chars] (if_number [dec]) and fibidb [chars] (if_number [dec])

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-FIBHWIDBMISMATCH : Mis-match between hwidb [chars] (ifindex [dec]) and fibhwidb [chars] (ifindex [dec])

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-FIBNULLIDB : Missing idb for fibidb [chars] (if_number [dec]).

Explanation	COMMON_FIB_INTERNAL_ERROR
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%COMMON_FIB-4-FIBNULLIDB : Missing idb for fibidb [chars] (if_number [dec]).

Recommended Action	Please check Bug Toolkit BUG_TOOLKIT on the Cisco web-site for existing bugs and upgrade your software accordingly. If you do not find an existing bug, please contact technical support TAC_CASE_OPEN with the contents of the message log and the output of the 'show tech' command.
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%COMMON_FIB-4-FIBNULLHWIDB : Missing hwidb for fibhwidb [chars] (ifindex [dec])

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-FIBMISSINGHWIDB : No fibhwidb while initializing fibidb for [chars] (if_number [dec])

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-HW_API : HW API failure for [chars] CEF [[hex]]: [chars] ([chars])[chars].

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-TABLE_CONCURRENT_UPDATE : [chars]: [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBTOPO : Error for topology [dec]: [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBTOPOSTAT : Error pulling topology stats [chars][chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_MPLS_EXT_FIND_OCE : Unable to find MPLS oce for [chars] IP oce

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-INVALID_AF : Invalid address family [dec][chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBIDBNONBASETABLE : interface [chars] being set with non-base table: [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
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%COMMON_FIB-3-FIBIDBNONBASETABLE : interface [chars] being set with non-base table: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%COMMON_FIB-3-DQUEUE_ACTIVE_COLLECTION : dqueue has an active collection just prior to destruction

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-INVALID_ADDR_TYPE : Invalid address type [dec][chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-DQUEUE_NON_EMPTY : dqueue is not empty just prior to destruction

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBHWIDB_NONAME : Missing name for fibhwidb (ifindex [dec])

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBSUBTREECONTEXT : Subtree context unexpected error: app [chars]: [chars]

Explanation COMMON_FIB_INTERNAL_ERROR**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-NOHWSBDECODE : No [chars] subblock control decode function for [chars]

Explanation COMMON_FIB_INTERNAL_ERROR**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-NOSWSBDECODE : No [chars] subblock control decode function for [chars]

Explanation COMMON_FIB_INTERNAL_ERROR**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-NOLABELNOLABEL : Unexpected disposition information for [chars]

Explanation COMMON_FIB_INTERNAL_ERROR**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-NOPATHFIBIDB : No fibidb for [chars] (ignoring path) during path no [dec] update for [chars]

Explanation COMMON_FIB_INTERNAL_ERROR

%COMMON_FIB-3-NOPATHFIBIDB : No fibidb for [chars] (ignoring path) during path no [dec] update for [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%COMMON_FIB-4-TOPO_STAT_ID_MGR : Id manager error [chars]. Topology statistics accounting may not show the correct result

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-UNHANDLED_UNITS : No handler for units ([chars]) - from slot [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-NAMETOOLONG : FIB[chars]IDB name [chars] error (lengths [dec] ([dec]), short [dec] ([dec]))

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-4-FIB_SB_ADD_FAIL : Attempted add of subblock of type '[chars]' ([dec]) for [chars] failed[chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
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%COMMON_FIB-4-FIB_SB_ADD_FAIL : Attempted add of subblock of type '[chars]' ([dec]) for [chars] failed[chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_LOADBALANCE_MAP : [chars] map [chars]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_LOADBALANCE_MAP_NO_USEABLE_CHOICES : No useable choices [hex] bucket count [int]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_LOADBALANCE_USAGE : Unhandled usage flag [hex]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_PATH_LIST_DB : [chars] path list [chars]

Explanation COMMON_FIB_INTERNAL_ERROR

%COMMON_FIB-3-FIB_PATH_LIST_DB : [chars] path list [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%COMMON_FIB-3-NO_VALID_PATHS : No valid paths for prefix [chars] in vrf [chars].

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-DQUEUE_BAD_ELEM : Unexpected element type [int]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-VRfid_INVALID : Error invalid vrfid [chars][chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-ACL_PBR_NAME_TOO_LONG : IPv6_SWSB_CTRL name length error, [chars] (acl_in [dec] ([dec]), acl_out [dec] ([dec]), pbr [dec] ([dec]))

Explanation	IPv6 in/out ACL and IPv6 PBR name lengths for/from an IPC XDR message are invalid. The names will not be used so as to prevent any buffer overrun errors. There is a possibility that either the XDR message or an internal IPv6 FIB structure is corrupted
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%COMMON_FIB-3-ACL_PBR_NAMETOOLONG : IPV6_SWSB_CTRL name length error, [chars] (acl_in [dec] ([dec]), acl_out [dec] ([dec]), pbr [dec] ([dec]))

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-BFD_SESS : [chars]:[chars] failed to [chars] BFD session, error [[chars]]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-BFD : [chars][chars][chars][chars][chars][chars][chars]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-NOSUCHCAPTURE : Error finding capture point.

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIBTABLE : Error for table [dec]: [chars]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-VRFMGR_INVALID : Error invalid [chars] [int]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_NON_IP_ENTRY_INCR : [chars] non-ip entry [hex], path list [chars]

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-PATH_EXT_ENCODE : Failed to encode [chars] path extension [chars]

Explanation	One or more path extensions could not be encoded for distribution and will not be sent. This indicates an internal code error and may impact CEF operation for prefixes using the affected path extensions.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-PATH_INVALID_REPAIR : Primary or repair paths configured by RIB are of invalid type: primary: [chars] repair: [chars]

Explanation	Either the primary path or the repair path is not of the correct type, i.e. an attached nexthop, that provides both interface and nexthop
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-ISSU_REG : ISSU client [chars] ([dec]), entity [dec], failed ISSU registration: [chars]

Explanation	ISSU negotiation failed for this XDR client.
Recommended Action	This error indicates a coding problem. It is an error that will occur every time this image is run, and requires a code change to fix it.

%COMMON_FIB-3-ISSU_ENUM_ERROR : Enum for [chars] is not ISSU-compliant: [chars]

Explanation	The given enumeration is not ISSU-compliant for the reason given. Unpredictable behaviour will result when interoperating with different IOS versions.
Recommended Action	This requires a code fix before the image can be shipped or ISSU will be broken.

%COMMON_FIB-3-FIBINVPEXTLEN : [chars] ext, attempt to decode beyond XDR buffer, cp_cur [hex], cp_end [hex], num_ext [dec], curr_ext_idx [dec]

Explanation	The path extension decode logic is trying to access memory beyond XDR buffer, which can lead to memory corruption.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-PATH_EXT_ISSU_SR_LDP : Downgrading to a version that doesn't support Segment Routing and LDP on the same path, labels [[dec]][dec].

Explanation	This indicates there's an issue in ISSU transformation when downgrading to a lower version. Configuration changes might be required to avoid this issue. See recommended action.
Recommended Action	Find out the prefix which is using the two outgoing labels as shown in the message with 'show mpls forwarding-table'. Check IGP configuration and disable either LDP or SR on that prefix.

%COMMON_FIB-4-MAX_PATHS_EXCEEDED : Prefix [chars] in vrf [chars] has paths in excess of the maximum. Some may be dropped.

Explanation	COMMON_FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-PATH_EXT_DUPLICATE : Detected identical [chars] path extension [chars] (ext [IPv6 address]) - replacing.

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-PATH_EXT_PLIST_CHG_DUP_SHORT : Detected identical short path extension following path list change idx [dec] type [int] [[chars] --> [chars]] conv [int], renum [int], total short [int] (ext list [IPv6 address]).

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_FIB-3-FIB_XDR_BUF_OVERFLOW : FIB XDR buffer overflow while encoding [chars] [[chars]]

Explanation COMMON_FIB_INTERNAL_ERROR

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.



CHAPTER 2

COMMON_MFIB through EM_ISSU

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COMMON_MFIB through CPPFPM

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COMMON_MFIB**%COMMON_MFIB-3-NOMEM : Memory allocation failure for [chars] in [chars] MFIB [[hex]].**

Explanation	An attempt to allocate memory has failed. Depending on the criticality of the data to be stored, MFIB operation may be impacted.
Recommended Action	Verify that the configuration is supported by the memory present in the system. Copy the message exactly as it appears, and report it to your technical support representative.

%COMMON_MFIB-3-ILLEGALARGS : Illegal arguments - [chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-NOBROKER : [chars] distribution broker not found - distributing [chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-BROKERINITFAIL : Failed to initialise [chars] RP broker facility

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-BROKER_ENCODE : [chars] broker failed to encode msg type [dec] for slot(s) [chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-MFIBXDRINV : Invalid XDR format. [chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-MFIBXDRLN : Invalid XDR length. Type [dec] [chars]. XDR/buffer len [dec]/[dec]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-TABLE : [chars]: [chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-MFIB_GSB : Generic subblock error: [chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-4-MFIBXDR_REGISTRATION : Unable to register XDR client ([chars]).

Explanation	COMMON_MFIB_INTERNAL_ERROR
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%COMMON_MFIB-4-MFIBXDR_REGISTRATION : Unable to register XDR client ([chars]).

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%COMMON_MFIB-4-MFIBXDR_NOTREG : XDR client ([chars]) should be registered.

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-MFIBXDR_ISSUREGERROR : ISSU client [chars] ([dec]), entity [dec], failed ISSU registration: [chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-ASSERT : Assertion '[chars]' failed in [chars] MFIB [[hex]]: [chars] ([chars])[chars].

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-4-DISABLING : [chars] MFIB is being disabled due to a fatal error.

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-4-BROKERINVMMSG : Invalid message: [chars], type [chars], len [dec]

Explanation	An invalid message has been received by this broker.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-EPOCH : Failed to [chars] table [chars][chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-4-MFIBTABLE : Failed to [chars] table [chars] [chars]

Explanation	An MFIB table was found to be missing when attempting to perform a change to it. This may be a transient condition
Recommended Action	If the same table gives repeated warnings or generates more serious errors, copy the message exactly as it appears and report it to your technical support representative

%COMMON_MFIB-4-MFIBMSG : Invalid message received. Type [chars], event/sub-type [dec], length [dec]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-ILLEGAL_TABLEID : Attempt to create [chars] table with illegal tableid [dec] ([chars])

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-NO_TABLE_NAME : Attempt to clear the name of [chars] table with tableid [IPv6 address], previous name [chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-INVALID_AF : Invalid address family [dec][chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-MFIBISSU_REGISTRATION : Unable to register [chars] ISSU client([int]).

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMMON_MFIB-3-BG_POPULATE : MFIB master background process failed to populate tables for [chars]

Explanation	COMMON_MFIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

COMP**%COMP-5-NOBUF : Interface [chars] [chars]**

Explanation	Interface serial0 compression getbuffer failed, causing Link Access Procedure, Balanced (LAPB) retransmissions.
Recommended Action	Configure additional large and big buffers.

%COMP-3-SYNCBAD : Interface [chars] Decompression sync error

Explanation	One interface is configured for predictor compression, the other is not.
Recommended Action	Configure both interfaces for predictor compression.

%COMP-3-VERSIONBAD : Interface [chars] Compression Version mismatch expected [hex] received [hex]

Explanation	One interface is configured for predictor compression, the other is not.
Recommended Action	Configure both interfaces for predictor compression.

%COMP-3-SIZEBAD : Interface [chars] Decompression size error

Explanation	One interface is configured for predictor compression, the other is not.
Recommended Action	Configure both interfaces for predictor compression.

%COMP-3-COMPERR : [chars]: COMPRESS: (stac error!) status: [dec], size in: [dec], size out: [dec]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%COMP-3-CONFIGBAD : Interface [chars] Compression internal configuration error

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%COMP-3-BADCOMP : Interface [chars] Bad status returned from packet compression operation

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%COMP-3-SUBBLOCKERR : Interface [chars] compression subblock creation failed.

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

COMPILED_ACL**%COMPILED_ACL-3-INTERNAL_ERROR : an unexpected internal error occured: [chars]**

Explanation	An unexpected internal error occurred. This error may result in one or more flows being punted to the RP or in Turbo ACL not functioning.
Recommended Action	RECOMMENDED_ACTION

%COMPILED_ACL-4-BACKPOINTER_WRONG : [chars]: entry at row [int], column [int] in node [int] does not reference row [int] in the node's child

Explanation	EXPLANATION_INTERNAL_CONSISTENCY_ERROR EXPLANATION_IMPACT_PUNTING
Recommended Action	RECOMMENDED_ACTION

%COMPILED_ACL-4-BACKPOINTER_PROCESSING_OVERFLOWED : [chars]: processing back-pointers in row [int] in node [int] but the list is marked as overflowed

Explanation	EXPLANATION_INTERNAL_CONSISTENCY_ERROR EXPLANATION_IMPACT_PUNTING
Recommended Action	RECOMMENDED_ACTION

%COMPILED_ACL-4-BACKPOINTER_OVERFLOWED_NOT_EMPTY : [chars]: the back-pointer list for row [int] in node [int] is marked as overflowed but is not empty

Explanation	EXPLANATION_INTERNAL_CONSISTENCY_ERROR EXPLANATION_IMPACT_PUNTING
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%COMPILED_ACL-4-BACKPOINTER_OVERFLOWED_NOT_EMPTY : [chars]: the back-pointer list for row [int] in node [int] is marked as overflowed but is not empty

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-4-BACKPOINTER_OVERFLOWED_NOT_EMPTY_REFERENCES : [chars]: the back-pointer list for row [int] in node [int] is marked as overflowed but is not empty

Explanation EXPLANATION_INTERNAL_CONSISTENCY_ERROR
EXPLANATION_IMPACT_PUNTING

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-4-BAD_PROCESS_REFERENCES : [chars]: error while processing references for row [int] in node [int]: [chars]

Explanation EXPLANATION_INTERNAL_CONSISTENCY_ERROR
EXPLANATION_IMPACT_PUNTING

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-4-DEFERRED_ENTRY_CONSISTENCY : [chars]: while [chars] in row [int] in node [int], found deferred entry bitmap is [chars] but count is [int]

Explanation EXPLANATION_INTERNAL_CONSISTENCY_ERROR
EXPLANATION_IMPACT_PUNTING

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-4-ROW_UPDATE : [chars]: cannot process row queue update for row [int] in node [int]: [chars]

Explanation EXPLANATION_INTERNAL_ERROR
EXPLANATION_IMPACT_POSSIBLE_PUNTING

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-4-RROW_UPDATE_ENQUEUE : [chars]: cannot process row queue update for row [int] in node [int]: enqueue failed ([int]/[int] entries, list is [chars]valid, entry is [chars]enqueued)

Explanation EXPLANATION_INTERNAL_ERROR
EXPLANATION_IMPACT_POSSIBLE_PUNTING

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-4-RROW_THROTTLE : [chars]: unable to re-queue row [int] on row queue for node [int]; node should not have been freed as it was written to only [int] ms ago

Explanation EXPLANATION_INTERNAL_ERROR EXPLANATION_IMPACT_PUNTING

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-2-LIST_CREATE : [chars]: failed to create row queue for node [int], Turbo ACL has been disabled temporarily

Explanation The system encountered an error while initializing a data structure required for the correct operation of Turbo ACL processing. Turbo ACL will be disabled until another recompilation has completed successfully.

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-2-QUEUE_INIT : [chars]: failed to initialize back-pointer list for row [int] in node [int], Turbo ACL has been disabled temporarily

Explanation The system encountered an error while initializing a data structure required for the correct operation of Turbo ACL processing. Turbo ACL will be disabled until another recompilation has completed successfully.

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-5-LIST_INFO : [chars]: failed to set list information function for node [int]'s row queue (ID [int])

Explanation The system encountered an error while initializing a function vector used for debugging purposes. Turbo ACL will continue to function correctly, but the **show list ID** command will not show Turbo ACL-specific information for the specified list ID number.

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-4-BAD_ROW_FREE : [chars]: cannot free row [int] in node [int]: [chars]

Explanation EXPLANATION_INTERNAL_CONSISTENCY_ERROR
EXPLANATION_IMPACT_PUNTING

Recommended Action RECOMMENDED_ACTION

%COMPILED_ACL-4-ENTRY_COUNT : [chars]: row entry counters not allocated for node [int] while freeing row [int]

Explanation EXPLANATION_INTERNAL_CONSISTENCY_ERROR
EXPLANATION_IMPACT_PUNTING

Recommended Action RECOMMENDED_ACTION

COMP_MATRIX

%COMP_MATRIX-4-DISABLED : Compatibility Matrix has been disabled. No image compatibility checking will be done.

Explanation The ISSU compatibility matrix check has been disabled via configuration command **no service image-version compatibility**. When the standby comes up, no image compatibility checking will be done, which results in SSO redundancy mode even if the active and standby are running different images.

Recommended Action The ISSU compatibility matrix check has been disabled using the global configuration command **no service image-version compatibility**. Redundancy mode would be SSO. Please be sure this is your intention or change configuration using **service image-version compatibility**.

%COMP_MATRIX-3-PRST_VBL_GET : ISSU Compatibility Matrix was unable to read a persistent variable from the local system (rc = [dec]).

Explanation The ISSU compatibility matrix was unable to access a persistent variable. There is no way to determine if issu image-version compatibility checking should be enabled or disabled.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show persistent variable** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMP_MATRIX-3-PRST_VBL_DELETE : ISSU Compatibility Matrix was unable to delete a persistent variable from the [chars] system (rc = [dec]).

Explanation The ISSU compatibility matrix was unable to access a persistent variable. There is no way to determine if issu image-version compatibility checking should be enabled or disabled.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show persistent variable** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COMP_MATRIX-3-PRST_VBL_WRITE : ISSU Compatibility Matrix was unable to write to persistent variables on the [chars] system (rc = [dec]).

Explanation The ISSU compatibility matrix was unable to access a persistent variable. There is no way to determine if issu image-version compatibility checking should be enabled or disabled.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show persistent variable** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

COND_DEBUG_HA

%COND_DEBUG_HA-2-INIT : COND_DEBUG ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation The COND_DEBUG ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%COND_DEBUG_HA-3-TRANSFORM : COND_DEBUG ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation	The COND_DEBUG ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the COND_DEBUG state between the active device and the standby device is not identical.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%COND_DEBUG_HA-3-MSG_SIZE : COND_DEBUG ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation	The COND_DEBUG ISSU client failed to calculate the MTU for the specified message. The COND_DEBUG ISSU client will not be able to send the message to the standby device.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%COND_DEBUG_HA-3-INVALID_SESSION : COND_DEBUG ISSU client does not have a valid registered session.

Explanation	The COND_DEBUG ISSU client does not have a valid registered session.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%COND_DEBUG_HA-2-SESSION_REGISTRY : COND_DEBUG ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The COND_DEBUG ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%COND_DEBUG_HA-3-SESSION_UNREGISTRY : COND_DEBUG ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The COND_DEBUG ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%COND_DEBUG_HA-2-SESSION_NEGO : COND_DEBUG ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation An ISSU-compliant client transitions through a series of internal states. The COND_DEBUG ISSU client encountered a 'client negotiation done' state that was unexpected. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%COND_DEBUG_HA-2-SEND_NEGO_FAILED : COND_DEBUG ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation The COND_DEBUG ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%COND_DEBUG_HA-2-GET_BUFFER : COND_DEBUG ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation The COND_DEBUG HA client failed to get buffer space for building chkpt message. Message cannot be sent to standby device. If a problem occurs, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

CONF_SW

%CONF_SW-3-FEAT_DOWN : Invalid request [chars] while feature down, conf id [int]

Explanation While the feature was not active, an invalid request was received from another layer of the CONF_SW software stack for the specified conf ID. Some requests do not have an associated conf ID. For them the displayed conf ID is zero.

Recommended Action This is a software issue. The consequences could be limited to only one or a few confs. LOG_STD_RECUR_ACTION

%CONF_SW-3-FEAT_UP : Invalid request [chars] while feature up

Explanation While the feature was active, an invalid request was received from another layer of the CONF SW software stack.

%CONF_SW-3-FEAT_UP : Invalid request [chars] while feature up

Recommended Action	This is a software issue. There are no consequences as this can only have been an Init request while the feature was already active. LOG_STD_RECUR_ACTION
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%CONF_SW-3-NO_RES : [chars] resource not available for the [chars] request, conf id [int]

Explanation	The specified software resource was not available or could not be located for the specified request from upper CONF SW software stack layers for the specified conf ID.
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Recommended Action	This is a software issue. The consequences are that the specified request could not be performed. LOG_STD_RECUR_ACTION
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%CONF_SW-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]

Explanation	For a request from upper CONF SW software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck conf that cannot be established etc. In rare cases this could also affect other operations such as feature activation, deactivation, modification, High-Availability switchover operations.
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Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION
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%CONF_SW-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation	For a request from upper CONF SW software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck conf that cannot be established etc. In rare cases this could also affect other operations such as feature activation, deactivation, modification, High-Availability switchover operations.
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Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION
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%CONF_SW-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation	Registering an IPC message handler for the CONF SW feature failed. This will cause the feature not to function. The function
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Recommended Action	This is normally a software issue. The consequences are that the CONF SW feature will not function. LOG_STD_ACTION
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CONST_ISSU**%CONST_ISSU-3-MSG_NOT_OK : [chars]([dec]): ISSU message type ([dec]) is not compatible**

Explanation	ISSU received a message not compatible with the running version.
Recommended Action	LOG_STD_SH_CMD_ACTION(show message type <Client_ID>)

%CONST_ISSU-3-MSG_MTU : [chars]([dec]): Client failed to get mtu for message [dec] ([chars])

Explanation	%s(%d): client cannot get the MTU for a message type
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-TRANSFORM_FAILED : [chars]([dec]): [chars] transformation failed ([chars])

Explanation	The transformation operation for the ISSU message has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-CF_SEND : [chars]([dec]): Client failed to send message ([dec])

Explanation	ISSU client cannot send a negotiation message to a peer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-ICC_SEND : [chars]([dec]): Client failed to send message

Explanation	ISSU client cannot send a negotiation message to a peer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-CLIENT_REG : [chars]([dec]): Client failed to register ([chars])

Explanation	The ISSU Client could not be registered
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-CLIENT_REG_FAILED : [chars]([dec]): Client is not initialized

Explanation	The ISSU Client is not yet initialized. The negotiation for this client is not yet done.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-SESSION_REG : [chars]([dec]): session failed to register ([chars])

Explanation	The client's ISSU session could not be registered
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-SESSION_UNREG : [chars]([dec]): session ([dec]) failed to unregister ([chars])

Explanation	The client's ISSU session could not be unregistered
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-START_NEGO_FAILED : [chars]([dec]): failed to start negotiation ([chars])

Explanation	The ISSU client cannot start its negotiation
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%CONST_ISSU-3-START_NEGO_FAILED : [chars]([dec]): failed to start negotiation ([chars])

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CONST_ISSU-3-CAPTYPE_REG : [chars]([dec]): failed to register capability type ([chars])

Explanation	The ISSU client failed to register a capability type
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-CAPENTRY_REG : [chars]([dec]): failed to register a capability entry ([chars])

Explanation	The ISSU client failed to register a capability entry
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-CAPGROUP_REG : [chars]([dec]): failed to register a capability group ([chars])

Explanation	The ISSU client failed to register a capability group
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-MSGTYPE_REG : [chars]([dec]): failed to register a message type ([chars])

Explanation	The ISSU client failed to register a message type
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-MSGGROUP_REG : [chars]([dec]): failed to register a message group ([chars])

Explanation	The ISSU client failed to register a message group
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-ENTITY_REG : [chars]([dec]): failed to register the entity ([chars])

Explanation	The ISSU entity could not be registered
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-ENTITY_UNREG : [chars]([dec]): failed to unregister the entity ([chars])

Explanation	The ISSU entity could not be unregistered
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-CAP_REG : [chars]([dec]): failed to register its capabilities ([chars])

Explanation	The capabilities of the ISSU client could not be registered
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-MSG_REG : [chars]([dec]): failed to register its messages ([chars])

Explanation	Messages for the ISSU client could not be registered
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%CONST_ISSU-3-MSG_REG : [chars]([dec]): failed to register its messages ([chars])

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CONST_ISSU-3-CAP_EXCHANGE : [chars]([dec]): Capability exchange failed with error ([chars])

Explanation	The capability exchange failed, the ISSU client is unable to process the received capability
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-NEGO_PROCESS : [chars]([dec]): Cannot create process: [chars]

Explanation	The process to negotiate the session for the specified ISSU client cannot be created.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-CONST_MTU_NOT_ENOUGH : [chars]([dec]): Requested buffer size ([dec]) is greater than the max MTU size ([dec])

Explanation	Checkpoint buffer size requested is greater than the max MTU size checkpoint supports
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-3-MSG_POLICY : [chars]([dec]): Client failed to negotiate version for message type ([dec]), error ([chars])

Explanation	ISSU client cannot negotiate message to a peer
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%CONST_ISSU-3-MSG_POLICY : [chars]([dec]): Client failed to negotiate version for message type ([dec]), error ([chars])

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONST_ISSU-2-NEGO_NOT_DONE : [chars]([dec]): ISSU Negotiation not complete

Explanation Unable to complete ISSU negotiation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

CONTROLLER

%CONTROLLER-5-UPDOWN : Controller [chars], changed state to [chars]

Explanation A configurable controller changed its state.

Recommended Action No action is required.

%CONTROLLER-5-DOWNDetail : Controller [chars], changed state to [chars] due to [chars]

Explanation A configurable controller changed its state.

Recommended Action No action is required.

%CONTROLLER-5-REMLOOP : Controller [chars], remote loop [chars] [chars]

Explanation A configurable controller entered remote loopback.

Recommended Action No action is required.

%CONTROLLER-5-REMLOCALLOOP : Controller [chars], local loop [chars] [chars]

Explanation A configurable controller entered local loopback.

%CONTROLLER-5-REMLOCALLOOP : Controller [chars], local loop [chars] [chars]

Recommended Action No action is required.

%CONTROLLER-5-LOOPSTATUS : Controller [chars], [chars]

Explanation A configurable controller loopback status.

Recommended Action No action is required.

%CONTROLLER-2-CRASHED : Interface Processor in slot [dec] not responding ([hex]): shutting it down

Explanation A controller stopped responding to commands over the cBus, so it was put into shutdown mode.

Recommended Action Re-enable the controllers by issuing the no shut configuration command on all controllers on the card, or hotswap out the bad card and install the new one. You must still manually **no shut** the controllers.

%CONTROLLER-2-NOTFOUND : For controller [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONTROLLER-2-FIRMWARE : Controller [chars], [chars]

Explanation A software or hardware error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONTROLLER-5-CALLDROP : Controller [chars], [chars]

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CONTROLLER-5-HDLC_INSUFF_RESOURCE : Insufficient HDLC resources to enable channel [dec]

Explanation	Limited number of HDLC channels can be allocated for this trunk
Recommended Action	Please check the number of HDLC resources supported for this trunk card. Please contact your technical support representative.

%CONTROLLER-5-CLOCKSTATE : Controller [chars], [chars]

Explanation	A configurable controller clock changed its state.
Recommended Action	No action is required.

%CONTROLLER-2-CDB_NULL : cdb is NULL

Explanation	A NULL pointer is detected
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONTROLLER-2-DSX_NULL : dsx pointer is NULL

Explanation	A NULL pointer is detected
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CONTROLLER-4-ACR_DCR_CLOCK_DS1 : [chars]: [chars] Clock status is [chars] for clock_id [dec] on circuit: [int] ([chars])

Explanation DS1 Recovered clock status change message

Recommended Action No action is required.

%CONTROLLER-4-ACR_DCR_CLOCK_DS3 : [chars]: [chars] Clock status is [chars] for clock_id [dec] on circuit: [int] ([chars])

Explanation DS3 Recovered clock status change message

Recommended Action No action is required.

%CONTROLLER-4-ACR_DCR_CLOCK_DS3_CHANNEL : [chars]: [chars] Clock status is [chars] for clock_id [dec] on circuit: [int]/[int] ([chars])

Explanation DS3:channelized Recovered clock status change message

Recommended Action No action is required.

%CONTROLLER-4-ACR_DCR_CLOCK_OCN_VT_T1 : [chars]: [chars] Clock status is [chars] for clock_id [dec] on circuit: [int]/[int]/[int]/[int] ([chars])

Explanation OCN_VT_T1: Recovered clock status change message

Recommended Action No action is required.

%CONTROLLER-4-ACR_DCR_CLOCK_OCN_CT3 : [chars]: [chars] Clock status is [chars] for clock_id [dec] on circuit: [int]/[int]/[int] ([chars])

Explanation OCN_CT3: Recovered clock status change message

Recommended Action No action is required.

%CONTROLLER-4-ACR_DCR_CLOCK_OCN_T3 : [chars]: [chars] Clock status is [chars] for clock_id [dec] on circuit: [int]/[int] ([chars])

Explanation OCN_T3: Recovered clock status change message

Recommended Action No action is required.

%CONTROLLER-4-ACR_DCR_CLOCK_STMN_T3 : [chars]: [chars] Clock status is [chars] for clock_id [dec] on circuit: [int]/[int]/[int] ([chars])

Explanation STMN_T3: Recovered clock status change message

Recommended Action No action is required.

%CONTROLLER-4-ACR_DCR_CLOCK_STMN_E3 : [chars]: [chars] Clock status is [chars] for clock_id [dec] on circuit: [int]/[int]/[int] ([chars])

Explanation STMN_E3: Recovered clock status change message

Recommended Action No action is required.

%CONTROLLER-4-ACR_DCR_CLOCK_STMN_VC1x : [chars]: [chars] Clock status is [chars] for clock_id [dec] on circuit: [int]/[int]/[int]/[int] ([chars])

Explanation STMN_VC1x: Recovered clock status change message

Recommended Action No action is required.

%CONTROLLER-4-ACR_DCR_CLOCK_STMN_CT3 : [chars]: [chars] Clock status is [chars] for clock_id [dec] on circuit: [int]/[int]/[int]/[int] ([chars])

Explanation STMN_CT3: Recovered clock status change message

Recommended Action No action is required.

CPPDRV

%CPPDRV-6-INTR : [chars]([dec]) Interrupt : [chars]

Explanation A CPP hardware interrupt has occurred.

Recommended Action No action is required.

%CPPDRV-2-HALT : [chars]([dec]) Interrupt : [chars] Seq:%03d Halt bit set.

Explanation A Serious CPP hardware error has occurred.

%CPPDRV-2-HALT : [chars]([dec]) Interrupt : [chars] Seq:%03d Halt bit set.

Recommended Action No action is required.

%CPPDRV-3-HOT : [chars]([dec]) Interrupt : [chars] Seq:%03d repeating interrupt has been disabled.

Explanation A repeating hardware interrupt has been disabled.

Recommended Action No action is required.

%CPPDRV-3-TCAM_PERR : [chars]([dec]) TCAM Parity error TCAM device #[dec] at offset [hex].

Explanation A Parity error has occurred in a TCAM device.

Recommended Action No action is required.

%CPPDRV-3-TCAM_PERR_FAILURE : [chars]([dec]) Failed to correct TCAM Parity error. Parity error detection disabled.

Explanation Failed to correct a TCAM Parity error and further detection has been disabled.

Recommended Action No action is required.

%CPPDRV-3-SRT_PERR_FAILURE : [chars]([dec]) Failed to correct BQS SRT Parity error.

Explanation Failed to correct a BQS SRT Parity error.

Recommended Action No action is required.

%CPPDRV-3-LOCKDOWN : QFP[int].[int] CPP Driver LOCKDOWN encountered due to previous fatal error ([chars]: [chars]).

Explanation A fatal error has caused the driver to LOCKDOWN.

Recommended Action No action is required.

%CPPDRV-3-LOCKDOWN_INITIATED : QFP[int].[int] CPP Driver LOCKDOWN being triggered due to fatal error.

Explanation A fatal error has caused the process to initiate LOCKDOWN.

Recommended Action No action is required.

%CPPDRV-3-INIT_NOTF_ID : CPP[dec]: Failed to initialize: ([chars])

Explanation A function failed to initialize.

Recommended Action No action is required.

%CPPDRV-3-INIT_NOTF : Failed to initialize: ([chars])

Explanation A function failed to initialize.

Recommended Action No action is required.

%CPPDRV-3-DESTROY_NOTF : Failed to destroy connection :([chars])

Explanation A function failed to destroy a connection.

Recommended Action No action is required.

%CPPDRV-3-CLEANUP_NOTF : Failed to Cleanup: ([chars])

Explanation A function failed to cleanup data.

Recommended Action No action is required.

%CPPDRV-3-ALLOC_NOTF : CPP[dec]: Failed to Allocate: ([chars])

Explanation A function failed to allocate data.

Recommended Action No action is required.

%CPPDRV-3-FATAL_PLAT_DB : CPP[dec]: ([hex]) Platform failure accessing [chars]

Explanation Platform DB query failed

%CPPDRV-3-FATAL_PLAT_DB : CPP[dec]: ([hex]) Platform failure accessing [chars]

Recommended Action No action is required.

%CPPDRV-3-FATAL_INTERRUPT_CLEAR : CPP[dec]: ([hex]) Failed to clear [chars] interrupt

Explanation Failed to clear an interrupt node

Recommended Action No action is required.

%CPPDRV-3-FATAL_INTERRUPT_OPEN : CPP[dec]: ([hex]) Failed to access [chars] interrupt node - [chars]

Explanation Failed to open an interrupt

Recommended Action No action is required.

%CPPDRV-3-FATAL_INTERRUPT_HANDLER : CPP[dec]: ([hex]) Failed to register [chars] interrupt handler - [chars]

Explanation Failed to register interrupt handler

Recommended Action No action is required.

%CPPDRV-3-FATAL_INTERRUPT_INIT : CPP[dec]: ([hex]) Failed to initialize [chars] interrupt - [chars]

Explanation Failed to initialize an interrupt

Recommended Action No action is required.

%CPPDRV-3-FATAL_ATTACH : CPP[dec]: ([hex]) FAILED: to attach [chars]

Explanation Device Failed to attach

Recommended Action No action is required.

%CPPDRV-3-FATAL_UNSupport : CPP[dec]: ([hex]) - unsupported CPP TYPE. CPP TYPE:[dec]

Explanation Unsupported CPP TYPE

%CPPDRV-3-FATAL_UNSupport : CPP[dec]: ([hex]) - unsupported CPP TYPE. CPP TYPE:[dec]

Recommended Action No action is required.

%CPPDRV-3-FATAL_INIT : ([hex]) Failed to initialize [chars] - [chars]

Explanation Failed to init device
Recommended Action No action is required.

%CPPDRV-3-FATAL_INIT_ID : CPP[dec]: ([hex]) Failed to initialize [chars] - [chars]

Explanation Failed to init device
Recommended Action No action is required.

%CPPDRV-3-FATAL_CREATE : ([hex]) Failed to create [chars] - [chars]

Explanation Failed to create device
Recommended Action No action is required.

%CPPDRV-3-FATAL_CREATE_ID : CPP[dec]: ([hex]) Failed to create [chars] - [chars]

Explanation Failed to create device
Recommended Action No action is required.

%CPPDRV-3-FATAL_GET_DETAILS : CPP[dec]: ([hex]) Failed to get [chars] details - [chars]

Explanation Failed to get device details
Recommended Action No action is required.

%CPPDRV-3-FATAL_ALLOCATE : CPP[dec]: ([hex]) Failed to allocate [chars] - [chars]

Explanation Failed to allocate data
Recommended Action No action is required.

%CPPDRV-3-FATAL_INTERNAL : CPP[dec]: ([hex]) Internal Error [chars]

Explanation	Internal coding error.
Recommended Action	No action is required.

%CPPDRV-3-FATAL_CPP_SUBDEV_ACCESS : CPP[dec].[dec]: An access error has been reported. Error count [int].

Explanation	The system has reported an error while accessing a CPP subdevice
Recommended Action	No action is required.

%CPPDRV-3-FATAL_MEM_CLEAR : CPP[dec]: ([hex]) Failed to clear memory [chars]

Explanation	SW failed to clear memory location
Recommended Action	No action is required.

%CPPDRV-3-FATAL_MEM_WRITE : CPP[dec]: ([hex]) Failed to write to memory [chars]

Explanation	SW failed to write to a memory location
Recommended Action	No action is required.

%CPPDRV-3-FATAL_ACQUIRE_LOCK : CPP[dec]: ([hex]) Failed to acquire memory lock [chars]

Explanation	SW failed to acquire shared memory lock
Recommended Action	No action is required.

%CPPDRV-3-FATAL_RELEASE_LOCK : CPP[dec]: ([hex]) Failed to release memory lock [chars]

Explanation	SW failed to release shared memory lock
Recommended Action	No action is required.

%CPPDRV-4-HW_REV_OLD : Found HW revision [chars], using [chars] based on [chars]. No customer deployment.

Explanation	The specified board or chip showed an incorrect, invalid or too old hardware revision. That hardware revision was (possibly) overridden to a different value based on some other data available at the time. For instance, the QFP hardware revision might be unprogrammed, so the correct revision was derived from the board type and revision or the QFP's die ID. Boards showing this warning should not be deployed at customer sites.
Recommended Action	No action is required.

%CPPDRV-3-FATAL_MEM_SIZE : CPP[dec]: ([hex]) Failed to acquire memory size [chars]

Explanation	SW failed to acquire the size of a block of memory
Recommended Action	No action is required.

%CPPDRV-4-ADRSPC_LIMIT : Address space limit [int] KB reached, mapping block [chars] size [int] dynamically, over limit space: [int] KB

Explanation	The process indicated tried to map more of the Forwarding Engine's address space than was allocated for it. A slower access method will be used instead. This will lower the performance of some operations which require accesses to the Forwarding Engine
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPPDRV-6-ACCTRC8B : Access CPP [dec] address 0x%08IIX (Blk/Off:[chars]/0x%08IIX) [chars] %3d bytes 0x%016IIX flags [hex]

Explanation	A CPP access was traced
Recommended Action	No action is required.

%CPPDRV-6-ACCTRC16B : Access CPP [dec] address 0x%08IIX (Blk/Off:[chars]/0x%08IIX) [chars] %3d bytes 0x%016IIX_%016IIX flags [hex]

Explanation	A CPP access was traced
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%CPPDRV-6-ACCTRC16B : Access CPP [dec] address 0x%08IIX (Blk/Off:[chars]/0x%08IIX) [chars] %3d bytes 0x%016IIX_%016IIX flags [hex]

Recommended Action No action is required.

%CPPDRV-4-CORE_TABLE : CPP[dec] specific core dump table '[chars]' not found, using minimal fallback table '[chars]' instead

Explanation The QFP configuration found on this board did not match any of the tables which define which data has to be collected if a fatal error is detected. Instead a minimal table is used which covers most of the QFP registers. The QFP is fully operational.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPPDRV-3-FATAL_MIN_CPU : CPP[dec]: Insufficient number of CPUs (detected = [dec], required = [dec])

Explanation The current system lacks a sufficient number of CPUs (or cores) to operate.

Recommended Action No action is required.

%CPPDRV-4-CPU_FEATURE : CPP[dec]: CPU lacks feature ([chars]). Performance may be sub-optimal.

Explanation The currently installed CPU lacks a certain feature that improve performance of the forwarding engine. The QFP is fully operational, but may operate at a reduced capacity.

Recommended Action No action is required.

%CPPDRV-3-GUEST_CPU_FEATURE : CPP[dec]: Guest CPU lacks feature ([chars]).

Explanation The currently installed Guest CPU lacks a certain feature that is required by the forwarding engine, but that feature is supported by the Host CPU. The QFP is operating with normal functionality using the host CPU feature, but live migration to a host which lacks this feature will result in a crash.

Recommended Action No action is required.

%CPPDRV-3-FATAL_CPU_FEATURE : CPP[dec]: CPU lacks feature ([chars]). Packet forwarding disabled.

Explanation The currently installed CPU lacks a certain feature that is required by the forwarding engine. The QFP is operating with reduced functionality with packet forwarding disabled.

Recommended Action No action is required.

%CPPDRV-4-FUTURE_FATAL_CPU_FEATURE : CPP[dec]: CPU lacks feature ([chars]) required in a future release.

Explanation The currently installed CPU lacks a certain feature that will be required by the forwarding engine in a future release. Caution is advised before upgrading to a newer release to ensure the CPU has the minimum set of CPU features necessary to operate.

Recommended Action No action is required.

CPPFPM**%CPPFPM-6-IPACCESSLOGP : list [chars] [chars] [chars] [chars]([int]) [chars]-> [chars]([int]), [int] packet[chars]**

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%CPPFPM-6-IPACCESSLOGNP : list [chars] [chars] [int] [chars] [chars]-> [chars], [int] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%CPPFPM-6-IPACCESSLOGDP : list [chars] [chars] [chars] [chars] [chars]-> [chars] ([int]/[int]), [int] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%CPPPPM-6-FMANACLLOGMISSMSG : access-list logging datapath rate-limited or missed [int] packet[chars]

Explanation Some packet matching logs were missed because the access list log messages were rate-limited or no access list log buffers were available.

Recommended Action No action is required.

CPPOSLIB through CRYPTO_DEV_PROXY

- [CPPOSLIB](#)
- [CPPTCAMRM](#)
- [CPPUI](#)
- [CPP_BQS](#)
- [CPP_FM](#)
- [CPP_FR](#)
- [CPP_IPHC_PROXY](#)
- [CPP_LDN](#)
- [CRASH_DUMP](#)
- [CRYPTO_DEV_PROXY](#)

CPPOSLIB

%CPPOSLIB-3-INIT_NOTIFY : Failed to initialize: ([chars])

Explanation A function failed to initialize.

Recommended Action No action is required.

%CPPOSLIB-3-ERROR_NOTIFY : [chars] encountered an error

Explanation Print error message to console

Recommended Action No action is required.

%CPPOSLIB-3-REGISTER_NOTIFY : Failed to register: ([chars])

Explanation A function failed to register.

%CPPOSLIB-3-REGISTER_NOTIFY : Failed to register: ([chars])

Recommended Action No action is required.

%CPPOSLIB-3-GET_NOTIFY : Failed to get data: ([chars])

Explanation A function failed to get data.
Recommended Action No action is required.

%CPPOSLIB-3-CLEAN_NOTIFY : Failed to cleanup: ([chars])

Explanation A function failed to cleanup data.
Recommended Action No action is required.

CPPTCAMRM

%CPPTCAMRM-6-HIGH_WATER_MARK : TCAM resources in the system is limited.

Explanation The TCAM device has limited number of free cells left to allocate.
Recommended Action No action is required.

%CPPTCAMRM-6-LOW_WATER_MARK : There is sufficient TCAM resources in the system.

Explanation The TCAM device has sufficient number of free cells left.
Recommended Action No action is required.

%CPPTCAMRM-6-TCAM_RSRC_ERR : Allocation failed because of insufficient TCAM resources in the system.

Explanation The TCAM device has no free cells to accomodate the current allocation request.
Recommended Action No action is required.

CPPUI**%CPPUI-3-ERROR_NOTIFY : [chars]**

Explanation	An UI fault has occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CPP_BQS**%CPP_BQS-3-INVALID_SUBTYPE : CPP BQS RM Proxy subtype [int]**

Explanation	BQS proxy failed because of receiving invalid sub-type or failed to allocate ipc response buffer.
Recommended Action	LOG_STD_ACTION

%CPP_BQS-3-INIT_FAILED : CPP BQS RM Proxy, region [chars]

Explanation	BQS proxy failed due initialize or resize software managed memory.
Recommended Action	LOG_STD_ACTION

%CPP_BQS-3-CMD_ACTIVE : CPP BQS Proxy Command, correlator [int]

Explanation	A BQS Proxy command was received, but the correlator was still in use. Command was not processed.
Recommended Action	LOG_STD_ACTION

%CPP_BQS-2-MPASS_FS_REG : CPP BQS PROXY feature special vector [dec] registration failed (result: [dec])

Explanation	Cisco internal software error. CPP multipass registration of a feature special processing vector for BQS Proxy failed. The BQS proxy will not be fully functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_BQS-3-CARVE : [chars]: size [int] SW carved out memory region initialization failed.

Explanation A BQS proxy failed to initialize the software memory region.

Recommended Action LOG_STD_ACTION

%CPP_BQS-3-RESIZE : CPP BQS Proxy Memory Manager, region [chars]

Explanation BQS proxy failed to resize software managed memory.

Recommended Action LOG_STD_ACTION

%CPP_BQS-2-PROXY_IPC_INIT_FAILED : CPP BQS Proxy IPC interface initialization failure (result: [dec]).

Explanation Cisco internal software error. CPP BQS initialization detected that the Proxy IPC interface initialization failed. The BQS Proxy will not be functional while this condition exists.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_BQS-3-PROXY_IPC_SEND : failure: [chars]

Explanation BQS Proxy send response failed, response was dropped.

Recommended Action LOG_STD_ACTION

%CPP_BQS-3-MAX_GPM_TX_LEN_EXCEED : CPP BQS Proxy Command, exceed GPM tx len [int]

Explanation A BQS Proxy command recycle a packet exceed GPM tx len

Recommended Action LOG_STD_ACTION

CPP_FM

%CPP_FM-4-CPP_FM_FIELD_IGNORED : Matching on field type [int] ([chars] value [int] ([hex])) not supported for client [chars] ([int]), rule oid: [chars], seqnos: [int], [int], [int]: RULE *IGNORED*

Explanation User is trying to use a classification criterion not supported by the feature. For example, user is trying to apply a with a class matching matched on an IPv6 ACL that contains a match on flow-label. The entire rule (e.g. ACE) containing the unsupported criterion is ignored. In our example, only the ACEs containing match on flow label are ignored. All other ACEs are still downloaded to CPP.

Recommended Action No action is required.

%CPP_FM-3-CPP_FM_TCAM_WARNING : TCAM limit exceeded: [chars]

Explanation

Recommended Action

%CPP_FM-3-CPP_FM_CLIENT_WARNING : Client Is Invalid: [chars]

Explanation

Recommended Action

%CPP_FM-4-CPP_FM_TCAM_MORE_INFO_WARNING : TCAM limit exceeded: [chars]

Explanation

Recommended Action

CPP_FR

%CPP_FR-2-PROXY_IPC_INIT_FAILED : Frame Relay Proxy IPC interface initialization failure (result: [dec]).

Explanation Cisco internal software error. FR initialization detected that the Proxy IPC interface initialization failed. The FR interfaces may not function properly while this condition exists.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-INV_PROXY_MSG : CPP FR Proxy received invalid IPC message ID [dec]

Explanation	Cisco internal software error. CPP FR Proxy received an invalid message ID. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_IPC_ALLOC_FAIL : CPP Frame Relay Proxy response to msg id [int] lost due to buffer allocation failure

Explanation	Cisco internal software error. CPP Frame Relay Proxy message processing detected a IPC buffer allocation failure during response processing.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-4-PROXY_IPC_ALLOC_FAIL2 : QFP Frame Relay MFR Proxy ([chars]) response lost due to buffer allocation failure (Interface [chars])

Explanation	Cisco internal software error. QFP Frame Relay MFR Proxy message processing detected a IPC buffer allocation failure during proxy response processing. The associated Frame Relay MFR functionality may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_SID_UPDATE_LOCK_ERROR : QFP Frame Relay Proxy ([chars]) Multiple SID Update Locks to same interface (Interface [chars], SID: [hex])

Explanation	Cisco internal software error. QFP Frame Relay MFR Proxy message processing detected a Bundle Schedule SID update sequence error. One or more interface schedules could have been affected.
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%CPP_FR-3-PROXY_SID_UPDATE_LOCK_ERROR : QFP Frame Relay Proxy ([chars]) Multiple SID Update Locks to same interface (Interface [chars], SID: [hex])

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_SID_UPDATE_COMPLETE_ERROR : QFP Frame Relay MFR Proxy ([chars]) SID Update Complete w/o Preceding Lock (Interface [chars], SID: [hex])

Explanation Cisco internal software error. QFP Frame Relay MFR Proxy message processing detected a Bundle Schedule SID update sequence error. One or more interface schedules could have been affected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-2-BQS_SCRATCH_TOOSMALL : QFP BQS Scratch area too small for Frame Relay MFR feature usage (size: [dec], need: [dec]).

Explanation Cisco internal software error. QFP Frame Relay MFR initialization detected that the BQS scratch memory area is insufficient for Frame Relay MFR usage. The Frame Relay MFR Bundle interfaces will not be functional while this condition exists.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_INV_RX_TX_INTF_VALUE : QFP Frame Relay MFR Proxy ([chars] [chars]) invalid Rx/Tx interface value [dec] for interface [dec] (handle)

Explanation Cisco internal software error. QFP Frame Relay MFR Proxy was unable to complete the requested Frame Relay MFR Bundle state change or configuration update due to an invalid interface Rx/Tx designation in the proxy request. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_NULL_BUNDLE : QFP Frame Relay MFR Proxy ([chars] [chars]) NULL Bundle sub-block for interface [dec] (handle)

Explanation	Cisco internal software error. QFP Frame Relay MFR Proxy was unable to complete the requested Frame Relay MFR Bundle state change or configuration update due to an invalid or uninitialized Bundle sub-block. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_NULL_LINK : QFP Frame Relay MFR Proxy ([chars] [chars]) NULL Member Link sub-block for interface [dec] (handle)

Explanation	Cisco internal software error. QFP Frame Relay MFR Proxy was unable to complete the requested Frame Relay MFR Member Link state change or configuration update due to an invalid or uninitialized Member Link sub-block. The associated Frame Relay MFR Member Link interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_NULL_DLCI : QFP Frame Relay MFR Proxy ([chars] [chars]) NULL PVC sub-block for interface [dec] (handle)

Explanation	Cisco internal software error. QFP Frame Relay MFR Proxy was unable to complete the requested Frame Relay MFR Member PVC state change or configuration update due to an invalid or uninitialized PVC sub-block. The associated Frame Relay MFR PVC interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_INV_BUNDLE_STATE : QFP Frame Relay MFR Proxy ([chars] [chars]) invalid Bundle state [chars] ([dec]) for interface [chars]

Explanation	Cisco internal software error. QFP Frame Relay MFR Proxy message could not be processed due to the Frame Relay MFR Bundle being in an incorrect state to accept the message. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_INV_LINK_STATE : QFP Frame Relay MFR Proxy ([chars] [chars]) invalid Link state [chars] ([dec]) for interface [chars]

Explanation	Cisco internal software error. QFP Frame Relay MFR Proxy message could not be processed due to the Frame Relay MFR Link being in an incorrect state to accept the message. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_INV_SUB_DEV_ID : QFP Frame Relay MFR Proxy ([chars] [chars]) invalid Sub-Device ID [dec] for interface [chars]

Explanation	Cisco internal software error. QFP Frame Relay MFR Proxy message Bundle Add could not be processed for the indicated interface due to an invalid Sub-Device ID. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_INV_LINK_ID : QFP Frame Relay MFR Proxy ([chars] [chars]) invalid Link ID [dec] for interface [chars]

Explanation	Cisco internal software error. QFP Frame Relay MFR Proxy message Link Add could not be processed for the indicated interface due to an invalid Link ID. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.
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%CPP_FR-3-PROXY_INV_LINK_ID : QFP Frame Relay MFR Proxy ([chars] [chars]) invalid Link ID [dec] for interface [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_DUP_LINK_ID : QFP Frame Relay MFR Proxy ([chars] [chars]) duplicate Link ID [dec] for interface [chars] and [chars]

Explanation Cisco internal software error. QFP Frame Relay MFR Proxy message Link Add could not be processed for the indicated interface due use of a given Link ID on multiple member links within the same Frame Relay MFR Bundle. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_INV_DLCI_INFO : QFP Frame Relay MFR Proxy ([chars] [chars]) invalid PVC Info (Base: [hex], Num: [dec]) for interface [chars]

Explanation Cisco internal software error. QFP Frame Relay MFR Proxy message contained invalid Frame Relay MFR PVC information. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_DUP_DLCI_ID : QFP Frame Relay MFR Proxy ([chars] [chars]) duplicate DLCI [dec] for interface [chars] and [chars]

Explanation Cisco internal software error. QFP Frame Relay MFR Proxy message DLCI Add could not be processed for the indicated interface due use of a given DLCI on multiple member links within the same Frame Relay MFR Bundle. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_INV_LOST_SEQ_TO : QFP Frame Relay MFR Proxy ([chars] [chars]) indicated an invalid lost sequence timeout ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP Frame Relay MFR was provided a invalid lost sequence timeout value. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_INV_BUFFER_LIMIT : QFP Frame Relay MFR Proxy ([chars] [chars]) indicated an invalid Rx buffer limit ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP Frame Relay MFR was provided a invalid Rx buffer limit value. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-PROXY_INV_TX_LINK_WEIGHT : QFP Frame Relay MFR Proxy ([chars] [chars]) indicated an invalid Tx Link weight ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP Frame Relay MFR Proxy message contained invalid Tx Link weight information. The associated Frame Relay MFR Member Link and/or Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-4-PROXY_SYNC : QFP Frame Relay MFR Proxy ([chars] [chars]) Bundle/Link sync issue with interface [chars]

Explanation Cisco internal software error. QFP Frame Relay MFR Proxy message processing detected a Bundle-Link state synchronization abnormality. This condition should be cosmetic. Full context of the message will aid in problem isolation.

%CPP_FR-4-PROXY_SYNC : QFP Frame Relay MFR Proxy ([chars] [chars]) Bundle/Link sync issue with interface [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-3-MFR_INVALID_RX_DLCI : Frame Relay MFR DLCI ([dec]) received from the peer must be configured for interface [chars] (Peer error), MSGDEF_LIMIT_SLOW

Explanation Possible error on the peer device with Multilink FR. Received Multilink FR packet contained wrong DLCI number.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_FR-4-TX_BUNDLE_FLOWED_OFF : QFP Frame Relay MFR Tx Bundle [chars] flowed off for an abnormal duration due to one or more congested member link(s)

Explanation Possible Cisco internal software or hardware error. QFP Frame Relay MFR Tx processing detected that a Frame Relay MFR Bundle interface was flowed off for an extended period of time due to a congested member link queue. The associated Frame Relay MFR Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

CPP_IPHC_PROXY

%CPP_IPHC_PROXY-3-INVALID_IPC_INPUT : [chars] CPP IPHC Client Proxy failure

Explanation IPHC proxy failed because of receiving invalid sub-type or failed to allocate ipc response buffer.

Recommended Action LOG_STD_ACTION

CPP_LDN**%CPP_LDN-2-PROXY_IPC_INIT_FAILED : CPP LDN Proxy IPC interface initialization failure (result: [dec]).**

Explanation	Cisco internal software error. CPP LDN initialization detected that the Proxy IPC interface initialization failed. The LDN Proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_LDN-3-PROXY_IPC_SEND : failure: [chars]

Explanation	LDN Proxy send response failed, response was dropped.
Recommended Action	LOG_STD_ACTION

%CPP_LDN-3-PROXY_IPC_INVALID : failure: [dec]

Explanation	LDN Proxy received an invalid IPC msg from the client.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_LDN-3-PROXY_GPM_RSRC_FAIL : failure: [chars]

Explanation	LDN Proxy failed in performing a GPM operation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CPP_LDN-3-PROXY_METAPKT_ENQ : subdevice id: [dec] failure: [dec]

Explanation	LDN Proxy metapacket enqueue failed.
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%CPP_LDN-3-PROXY_METAPKT_ENQ : subdevice id: [dec] failure: [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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CRASH_DUMP**%CRASH_DUMP-3-FILE_OP : FILE operation [chars] failed CRASH DUMP May not be successfull**

Explanation	The File operation for dumping DSP crash details failed The error message could be a software issue or due to not enough disk space.
Recommended Action	No action is required.

%CRASH_DUMP-6-TIMEOUT : CRASH DUMP may not be successfull for the device [dec]

Explanation	Crash dump process timed out waiting for diaganostic messages
Recommended Action	No action is required.

%CRASH_DUMP-6-ABORT : CRASH DUMP aborted for device [dec]

Explanation	Crash dump aborted. Crash Dump may not be successfull
Recommended Action	No action is required.

CRYPTO_DEV_PROXY**%CRYPTO_DEV_PROXY-2-PROXY_IPC_INIT_FAILED : QFP Crypto device Proxy IPC interface initialization failure (result: [dec]).**

Explanation	Cisco internal software error. QFP Crypto device Proxy initialization detected that the IPC interface initialization failed. QFP Crypto device proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_DEV_PROXY-2-PROXY_REG_NULL_MSG_HNDLR : QFP Crypto device Proxy registered invalid message handlers (source: [chars]).

Explanation	Cisco internal software error. QFP Crypto device Proxy registered with invalid message handler. QFP Crypto device Proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_DEV_PROXY-3-PROXY_BAD_MSG : QFP Crypto device Proxy received bad length message type [dec]

Explanation	Cisco internal software error. QFP Crypto device Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_DEV_PROXY-3-PROXY_INV_MSG : QFP Crypto device Proxy received invalid message type [dec]

Explanation	Cisco internal software error. QFP Crypto device Proxy received an invalid message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_DEV_PROXY-3-PROXY_IPC_ALLOC_FAILED : QFP Crypto device Proxy [chars] message lost due to message buffer allocation failure.

Explanation	Cisco internal software error. QFP Crypto device Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_DEV_PROXY-3-PROXY_IPC_SEND_FAILED : QFP Crypto device Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation	Cisco internal software error. QFP Crypto device Proxy message processing detected a message sent failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CRYPTO_RSA_ISSU through CWAN_ALARM

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CRYPTO_RSA_ISSU

%CRYPTO_RSA_ISSU-3-INIT : Crypto RSA ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation	Crypto RSA ISSU client could not be initialiized, this will cause catastrophic failure when ISSU upgrade or downgrade is performed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_RSA_ISSU-3-TRANSFORM_FAIL : Crypto RSA ISSU client [chars] transform failed for message type [dec]. Error: [dec] ([chars])

Explanation	Crypto RSA ISSU client could not transform the message. If the transmit transformation failed, it means that the checkpoint message can not be sent to the standby unit. If the receive transformation failed, it means that the checkpoint message can not be applied on the standby unit. In both cases the Crypto RSA state will not be identical with the active unit.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%CRYPTO_RSA_ISSU-3-MSG_NOT_OK : Crypto RSA ISSU client message type [dec] is not compatible

Explanation	Crypto RSA ISSU client received an incompatible message from the peer unit. Since the message is not compatible it cannot be processed by this unit
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%CRYPTO_RSA_ISSU-3-MSG_SIZE : Crypto RSA ISSU client failed to get the MTU for message type [dec]. Error: [dec] ([chars])

Explanation	Crypto RSA ISSU client failed to calculate MTU for the message specified. The dot1x ISSU client will not be able to send message to the standby unit.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%CRYPTO_RSA_ISSU-3-INVALID_SESSION : Crypto RSA ISSU client does not have a valid registered session.

Explanation	Crypto RSA ISSU client does not have a valid registered session. When there is a problem with the session the standby unit cannot be brought up.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%CRYPTO_RSA_ISSU-3-SESSION_REGISTRY : Crypto RSA ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	Crypto RSA ISSU client failed to register session information. When there is a problem with the session the standby unit cannot be brought up.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%CRYPTO_RSA_ISSU-3-SESSION_UNREGISTRY : Crypto RSA ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	Crypto RSA ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%CRYPTO_RSA_ISSU-3-SESSION_NEGO : Crypto RSA ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	Crypto RSA ISSU client encountered an unexpected 'client negotiation done'.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%CRYPTO_RSA_ISSU-3-SEND_NEGO_FAILED : Crypto RSA ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation	Crypto RSA ISSU client failed to send a session negotiation message to the peer. When there is a problem in the ISSU negotiation the standby unit can not be brought up.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%CRYPTO_RSA_ISSU-3-GET_BUFFER : Crypto RSA ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation	Crypto RSA ISSU client failed to get buffer for building a negotiation message. Hence, it cannot send the negotiation message to the standby unit. When there is a problem in the negotiaiton the standby unit can not be brought up.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

CRYPTO_SL_TP_LEVELS

%CRYPTO_SL_TP_LEVELS-3-VAR_SET_FAILED : Update of rommon variable failed: retcode=[dec]

Explanation	Call to update rommon variable failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_SL_TP_LEVELS-6-VAR_NEW_VALUE : Setting crypto bidir throughput to: [dec] kbps

Explanation Crypto throughput rommon var updated

Recommended Action No action required. Informational message.

%CRYPTO_SL_TP_LEVELS-6-TP_THROTTLE_STATE : Crypto throughput [chars] throttled. New level is [dec]

Explanation Maximum throughput level is the same as unthrottled. All other levels are throttled

Recommended Action No action required. Informational message.

%CRYPTO_SL_TP_LEVELS-3-INV_PLATFORM_VALUE : Invalid platform level value, token: [chars]

Explanation

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_SL_TP_LEVELS-3-INV_DEFAULT_VALUE : Invalid platform default value, token: [chars]

Explanation

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_SL_TP_LEVELS-3-NO_VALID_PLATFORM_VALUES : No valid platform level values specified

Explanation

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_SL_TP_LEVELS-3-ROMMON_WRITE_FAILED : Error in updating rommon variable

Explanation

%CRYPTO_SL_TP_LEVELS-3-ROMMON_WRITE_FAILED : Error in updating rommon variable

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CRYPTO_SL_TP_LEVELS-6-SAVE_CONFIG_AND_RELOAD : New throughput level not applied until reload; please save config**Explanation**

Recommended Action

%CRYPTO_SL_TP_LEVELS-6-ROMMON_VAL : Current rommon value: [dec]**Explanation**

Recommended Action

%CRYPTO_SL_TP_LEVELS-6-TP_LEVEL_LIMITED : HSECK9 is disabled: bandwidth restricted to 250Mbps**Explanation**

Recommended Action

%CRYPTO_SL_TP_LEVELS-6-TP_LICENSE_TP_REQUEST_FAILED : License request failed, rc=[dec]

Explanation License request failed. Data plane will use platform default throughput level

Recommended Action Look at other logs/debugs to see reason for failure.

%CRYPTO_SL_TP_LEVELS-6-TP_LICENSE_HSEC_REGISTER_FAILED : License registration failed, rc=[dec]

Explanation License request failed.

Recommended Action Look at other logs/debugs to see reason for failure.

%CRYPTO_SL_TP_LEVELS-6-TP_LICENSE_HSEC_REQUEST_FAILED : License request failed, rc=[dec]

Explanation	HSECK9 License request failed.
Recommended Action	Look at other logs/debugs to see reason for failure.

CSMPI

%CSMPI-3-PLATFORM_INIT_FAILED : CSMPI platform initialization failed.

Explanation	Essential CSMPI initialization has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CSMPI-3-IF_INIT_FAILED : CSMPI interface initialization failed.

Explanation	Essential CSMPI initialization has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CSMPI-3-ADDR_MISMATCH : Region address error: start @ [IPv6 address], end @ [IPv6 address], part addr @ [IPv6 address]

Explanation	CSMPI encountered a bnad buffer address, possible corruption.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CSMPI-3-BAD_INDEX : bad particle index [int], max [int], addr [IPv6 address]

Explanation	CSMPI encountered a bnad buffer address, possible corruption.
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%CSMPI-3-BAD_INDEX : bad particle index [int], max [int], addr [IPv6 address]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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CSVVERIFY

%CSVVERIFY-3-CSVERIFY_FAIL : Signature verification: [[chars]]

Explanation	During digital signature verification, an error has occurred
Recommended Action	Check the diagnostic csvverify trace file for more information on the underlying failure.

%CSVVERIFY-6-CSVERIFY_SUCCESS : Signature verification success for [chars]

Explanation	Signature verification was successful for the file mentioned.
Recommended Action	This is an informational message. No action is required.

CTLPROVIDERSERV

%CTLPROVIDERSERV-3-NOINIT : Can't initialize Credentials server

Explanation	Internal problems with initializing ports for the Credentials server
Recommended Action	Make sure the Credentials server port is available on the local machine.

%CTLPROVIDERSERV-3-NOMEM : Can't initialize memory for Credentials server

Explanation	Insufficient Memory for Credentials server
Recommended Action	Increase amount of available memory

%CTLPROVIDERSERV-3-NOSOCKETS : Max Number of Credentials Server sockets exceeded

Explanation	There are too many Credentials clients requesting service
Recommended Action	Reduce number of Credentials requesting service

%CTLPROVIDERSERV-3-NOPROC : Could not start Credentials Server

Explanation Internal Problem in process creation**Recommended Action** None

CTS_PD

%CTS_PD-3-IPC_INVALID_MSG : CTS-Invalid request [int]

Explanation We received an invalid message from another layer of the CTS software stack.**Recommended Action** If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CTS_PD-3-FEAT_DOWN : CTS-Invalid request [chars] ([int]) while feature is down

Explanation While the feature was not active, an invalid request was received from another layer of the CTS software stack.**Recommended Action** If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CTS_PD-3-FEAT_CTX_DOWN : CTS-Invalid request [chars] ([int]) while context is down

Explanation While the feature context was not active, an invalid request was received from another layer of the CTS software stack.**Recommended Action** If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CTS_PD-3-IPC_OPEN_REPLY : CTS-IPC Open Reply failed, request [int]

Explanation For a request from upper CTS software stack layers it was not possible to open the reply buffer.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%CTS_PD-3-IPC_NORES : CTS-No space for the IPC reply, size [int], request [int]

Explanation For a request from upper CTS software stack layers it was not possible to allocate space for a reply for the specified size.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CTS_PD-3-IPC_INVALID_MSG_LEN : CTS-Invalid IPC length, [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Invalid IPC message length

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CTS_PD-3-IPC_SEND_FAILED : CTS-IPC [chars] [int] send failed [int]

Explanation IPC message send failure

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CTS_PD-3-IPC_INIT_FAILED : CTS-IPC message handler registration failure, rc [int]

Explanation Registering an IPC message handler for the CTS feature failed. This will cause the feature to not function.

%CTS_PD-3-IPC_INIT_FAILED : CTS-IPC message handler registration failure, rc [int]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CTS_PD-2-IPC_FAILURE : CTS-IPC message [chars] handler failed, rc [int]

Explanation	An IPC message handler for the CTS feature failed. This will cause the feature to not function.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CUBE

%CUBE-1-LICENSING : [chars]

Explanation	CUBE Licensing Enforcement
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CVLA

%CVLA-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]

Explanation	For a request from upper CVLA software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as infra activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%CVLA-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation	For a request from upper CVLA software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as infra activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%CVLA-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation	Registering an IPC message handler for the CVLA infra failed. This will cause the infra to not function.
Recommended Action	This is normally a software issue. The consequences are that the CVLA infra will not function. LOG_STD_ACTION

CWANLC_ATM**%CWANLC_ATM-4-UNSUP : [chars]: unsupported feature: [chars]**

Explanation	This feature is not supported by Draco ATM RP.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWANLC_ATM-3-CMDERR : [chars]: [chars] IPC command fails (cause: [hex])

Explanation	The ATM RP driver experienced IPC command error.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWANLC_ATM-3-IPC_ERROR : [chars]: IPC command [chars] failure due to [chars]

Explanation	The SPA ATM RP driver experienced IPC command error.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWANLC_ATM-4-MISMATCH_VCENCAP : [chars]: Cannot mix VC encapsulation types in multipoint interfaces

Explanation	This ATM card only allows VC encapsulations of the same type on the main interface or multipoint subinterfaces
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%CWANLC_ATM-4-MISMATCH_VCENCAP : [chars]: Cannot mix VC encapsulation types in multipoint interfaces

Recommended Action Reconfigure the ATM interface with matching VC encapsulations

%CWANLC_ATM-3-VCCLOSEFAIL : [chars]: Failed to remove VC [dec]/[dec] cause [int]

Explanation Attempt to remove VC on the linecard failed.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%CWANLC_ATM-3-VPCLOSEFAIL : [chars]: Failed to remove VP [dec] cause [int]

Explanation Attempt to remove VP on the linecard failed.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%CWANLC_ATM-3-NOVPSPACE : [chars]: out of VP space for VPI [dec]

Explanation Out of VPs on the SAR.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%CWANLC_ATM-4-SEMHOOG : [chars]: Process [dec] ([chars]) hogging semaphore -- called by process [dec] ([chars])

Explanation The named process has held the resource semaphore longer than expected.

Recommended Action No action is required.

%CWANLC_ATM-4-CLOSEPEND : [chars]: The TX SAR is currently freeing internal buffers previously allocated for the identical channel id. The execution of the current command is delayed.

Explanation The TX SAR has taken longer than expected to free its internal buffers.

Recommended Action No action is required.

CWAN_ALARM

%CWAN_ALARM-6-SONET : [chars] [chars] [chars] [chars] [chars]

Explanation This message is generated whenever (a) an alarm is present in the system (and the alarm status has been reported to the RP) or (b) an alarm has been removed from the system (and the alarm status has been reported to the RP)

Recommended Action No action is required.

%CWAN_ALARM-6-INFO : [chars] [chars] [chars] [chars] [chars]

Explanation This message provides alarm assertion or deassertion information.

Recommended Action No action is required.

CWAN_CHOC through CWMP_DOWNLOAD

- [CWAN_CHOC](#)
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CWAN_CHOC

%CWAN_CHOC-4-ALLOCFAIL : Interface [dec]/[dec] allocation failed: [chars]

Explanation required resources unavailable.

Recommended Action Either upgrade system memory or reconfigure memory usage.

%CWAN_CHOC-4-UNSUP : Slot [dec]: Unknown [chars] ([dec])

Explanation This value is not recognized by this version of software.

Recommended Action Check linecard version. Normally this is harmless but worth contacting cisco technical support representative.

%CWAN_CHOC-4-IFCONFIG : [chars] config error ([dec], lc delay:[dec] ms): [chars]

Explanation RP received configuration error from linecard.

Recommended Action Reconfigure or shut/no shut the error channel.

%CWAN_CHOC-4-PROV_FAIL : Interface [chars] provisioning ch([dec]) failed: [chars]

Explanation provisioning conflict or resource shortage

Recommended Action workaround: under 'controller sonet', do 'no channelized' followed by 'channelized', twice. If problem persists, do a 'show controller sonet <slot>/<port>' and 'show controller {pos/serial} <slot>/<port>:<chan>' then contact cisco technical support representative.

%CWAN_CHOC-4-UNPROV_FAIL : Interface [chars] unprovisioning failed: [chars]

Explanation Linecard failed to response unprovisioning command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC-4-CORRUPT : [chars] information seems to be corrupted, bad value =[int]

Explanation wrong parameters detected internally

Recommended Action This is only a debug warning message. The unexpected value is discarded.

%CWAN_CHOC-4-LCLOCK_FAIL : Interface [chars] failed to acquire semaphore for LC access: [chars]

Explanation Other process locked the semaphore for too long.

%CWAN_CHOC-4-LCLOCK_FAIL : Interface [chars] failed to acquire semaphore for LC access: [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC-4-LCCFG_MISMATCH : LC needs reboot due to config mismatch on [chars], (rc=[int])

Explanation RP detects LC's channel provisioning mismatching start-config

Recommended Action reset linecard: hw-module module <slot> reset

%CWAN_CHOC-4-WRONG_LL : %.16s received wrong loveletter : type=[int], length=[int]

Explanation wrong parameters detected internally

Recommended Action This is only a debug warning message. The unexpected messages from linecard is harmlessly discarded.

%CWAN_CHOC-6-WRONG_GULF : [chars] hardware version (gulf v[int]) does not support OC-12 or OC-48

Explanation Early version of hw asic (GULF2.0 and below) has bugs in rx fifo depth which can not handle oc-12 or oc-48 rate. Either limiting channel provisioning or upgrading hw

Recommended Action Limit channel provisioning to DS3 and/or OC3

%CWAN_CHOC-6-LCDRIVER : OIR failed: slot [int] linecard not responding to initial query

Explanation OIR insertion aborted due to failing to contact lc

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

CWAN_CHOC_DS0**%CWAN_CHOC_DS0-3-UNKNOWNCTRLR : Slot [dec] - Unknown linecard type [dec]**

Explanation This hardware can't be recognized by this version of software.

%CWAN_CHOC_DS0-3-UNKNOWNCTRLR : Slot [dec] - Unknown linecard type [dec]

Recommended Action Check software version. Make sure the software supports the hardware.

%CWAN_CHOC_DS0-3-RMCTRLR_UNKNOWN : Slot [dec] - Unknown linecard type [dec] removed

Explanation This hardware can't be recognized by this version of software.

Recommended Action Check software version. Make sure the software supports the hardware.

%CWAN_CHOC_DS0-3-CDBFAIL : Port [dec]/[dec] - fail to create a SONET controller data structure

Explanation The software resource can't be allocated for this hardware

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DS0-3-PORTFAIL : Port [dec]/[dec] - fail to create a port instance data structure

Explanation The software resource can't be allocated for this hardware

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DS0-3-T1CFG_CCBERROR : CCB command error (cmd, [dec], arg [dec]) on T1 [dec]/[dec]/[dec]

Explanation A command sent from the system to a linecard failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DS0-3-VCCFG_CCBERROR : CCB command error (cmd, [dec], arg [dec]) on port [dec]/[dec] channel [dec]

Explanation A command sent from the system to a linecard failed

%CWAN_CHOC_DS0-3-VCCFG_CCBERROR : CCB command error (cmd, [dec], arg [dec]) on port [dec]/[dec] channel [dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DS0-3-IFCONFIG_ERR : config error on port [dec]/[dec]([chars]), cmd [dec] [chars]

Explanation A configuration command sent from the system to a linecard failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DS0-4-UNSUP : Slot [dec]: Unknown [chars] ([dec])

Explanation This value is not recognized by this version of software.

Recommended Action Check linecard version. Normally this is harmless but worth contacting cisco technical support representative.

%CWAN_CHOC_DS0-3-CFG_BAD_PARA : [chars]: invalid config parameter [chars]

Explanation Configuration parameter is invalid

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DS0-4-IFCONFIG : [chars] config error ([dec], lc delay:[dec] ms): [chars]

Explanation RP received configuration error from linecard.

Recommended Action Reconfigure or shut/no shut the error channel.

%CWAN_CHOC_DS0-4-ALLOCFAIL : Interface [dec]/[dec] allocation failed: [chars]

Explanation required resources unavailable.

%CWAN_CHOC_DS0-4-ALLOCFAIL : Interface [dec]/[dec] allocation failed: [chars]

Recommended Action Either upgrade system memory or reconfigure memory usage.

%CWAN_CHOC_DS0-4-PROV_FAIL : Interface [chars] provisioning ch([dec]) failed: [chars]

Explanation provisioning conflict or resource shortage

Recommended Action workaround: under 'controller sonet', do 'no channelized' followed by 'channelized', twice. If problem persists, do a 'show controller sonet <slot>/<port>' and 'show controller {pos/serial} <slot>/<port>:<chan>' then contact cisco technical support representative.

%CWAN_CHOC_DS0-4-UNPROV_FAIL : Interface [chars] unprovisioning failed: [chars]

Explanation Linecard failed to response unprovisioning command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DS0-4-WRONG_LL : %.16s received wrong loveletter : type=[int], length=[int]

Explanation wrong parameters detected internally

Recommended Action This is only a debug warning message. The unexpected messages from linecard is harmlessly discarded.

%CWAN_CHOC_DS0-4-CORRUPT : [chars] information seems to be corrupted, bad value =[int]

Explanation wrong parameters detected internally

Recommended Action This is only a debug warning message. The unexpected value is discarded.

%CWAN_CHOC_DS0-4-LCLOCK_FAIL : Interface [chars] failed to acquire semaphore for LC access: [chars]

Explanation Other process locked the semaphore for too long.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DS0-3-UNKNOWN_MIB_TYPE : Unknown MIB type [int] from slot [int]

Explanation	Draco received unknown communication message from linecard
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWAN_CHOC_DS0-5-LOOPSTATUS : [chars], [chars]

Explanation	A configurable loopback status.
Recommended Action	No action is required.

CWAN_CHOC_DSX

%CWAN_CHOC_DSX-3-UNKNOWN_CTRLR : Slot [dec] - Unknown linecard type [dec]

Explanation	This hardware can't be recognized by this version of software.
Recommended Action	Check software version. Make sure the software supports the hardware.

%CWAN_CHOC_DSX-3-T3CFG_ERROR : T3 [int]/[int] config command error (cmd [int], arg [int], retval [int])

Explanation	A command sent from the system to a linecard failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DSX-3-T1CFG_ERROR : T1 [int]/[int]/[int] config command error (cmd [int], arg [int], retval [int])

Explanation	A command sent from the system to a linecard failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DSX-3-VCCFG_ERROR : VC [int]/[int]:[int] config command error (cmd [int], arg [int], retval [int])

Explanation	A command sent from the system to a linecard failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_CHOC_DSX-3-NULDS3MIBTABLE : Null DS3 MIB table (snmp_if_index [int])

Explanation	System cannot find the DS3 MIB table pointer
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWAN_CHOC_DSX-3-SEND_DRIVER_READY : send driver ready msg failed for [dec]

Explanation	IPC message failure
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWAN_CHOC_DSX-5-DEF_SUBRATE : [chars] [chars]

Explanation	Remote subrate configuration changed
Recommended Action	Inform the network operator that subrate configuration changed by remote end

%CWAN_CHOC_DSX-3-ENQUEUE_FAIL : [chars]

Explanation	cmd enqueue failure
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWAN_CHOC_DSX-5-UNKNOWN_EVENT : [chars]

Explanation	Unexpected event received by the process
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWAN_CHOC_DSX-3-PROCESS_FAIL : process creation failed for [chars]

Explanation	process creation failed for handling cmd
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWAN_CHOC_DSX-3-PROCESS_ERROR : process error - [chars]

Explanation	process encountered fatal error
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWAN_CHOC_DSX-3-INVALID_SUBR_HWIDB : Invalid Subrate hwidb on T3 [dec]/[dec]

Explanation	invalid subrate hwidb
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWAN_CHOC_DSX-3-VC_CONFIG_ERR : [chars] T1 [dec] channel group [dec] of T3 [dec]/[dec] unsuccessful (error code [dec])

Explanation	channel configuration error
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%CWAN_CHOC_DSX-3-NODESTROYSUBBLOCK : The [chars] subblock named [chars] was not removed

Explanation	A software error has occurred, this message is displayed when IDB subblocks cannot be removed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CWAN_CONTAINER_ACCESS**%CWAN_CONTAINER_ACCESS-5-CWAN_VRF_MISMATCH : VRF of [chars] access does not match with [chars]**

Explanation	VRF of access interface does not match with that of associated container interface. Either container interface is deleted or VRF of container interface is changed
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%CWAN_CONTAINER_ACCESS-5-CWAN_VRF_MISMATCH : VRF of [chars] access does not match with [chars]

Recommended Action No action is required.

%CWAN_CONTAINER_ACCESS-5-CWAN_NO_CONTAINER : Associated container interface does not exist for [chars]

Explanation The container interface no longer exists for access interface.

Recommended Action No action is required.

CWAN_HA

%CWAN_HA-3-CCB_INIT_ERROR : Failed to initialize CCB list for slot [dec].

Explanation The High Availability component for WAN modules failed to properly initialize state information for the specified slot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-4-CCB_PLAYBACK_ERROR : CCB playback failed for slot [dec].

Explanation The High Availability component for WAN modules failed to synchronize some new state information for the specified slot.

Recommended Action Reload the standby supervisor module to force a fresh bulk synchronization. If this error recurs, LOG_STD_ACTION

%CWAN_HA-4-CCB_RECORD_ERROR : CCB record failed for slot [dec].

Explanation The High Availability component for WAN modules failed to record some new state information for the specified slot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-3-IFCFG_INIT_ERROR : Failed to initialize Interface Configuration list for slot [int]/[int].

Explanation The High Availability component for WAN modules failed to properly initialize state information for the specified slot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-4-IFCFG_PLAYBACK_ERROR : Interface Configuration command [int] playback failed for slot [int]/[int].

Explanation The High Availability component for WAN modules failed to synchronize some new state information for the specified slot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-4-IFCFG_RECORD_ERROR : Interface Configuration command [int] record failed for slot [int]/[int].

Explanation The High Availability component for WAN modules failed to record some new state information for the specified slot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-3-IFCFG_NO_UNIQUE_KEY : No unique-key generator registered for interface configuration command [int].

Explanation The High Availability component for WAN modules is unable to properly synchronize state information for the current configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-3-IFCFG_CMD_NOT_UNIQUE : More than one command registered for unique-key generator for interface configuration command [int].

Explanation The High Availability component for WAN modules is unable to properly synchronize state information for the current configuration due to a conflict in command identifiers.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-4-IFCFG_DFLT_LIST_ERROR : For Interface Configuration command [int], default retval list search resulted [hex] for slot [int]/[int]

Explanation The High Availability component for WAN modules failed to synchronize some new state information for the specified slot.

Recommended Action LOG_STD_SH_CMD_ACTION(show platform redundancy if-config default-retvals)

%CWAN_HA-4-SRPSYNC : Slot [dec]: [chars]

Explanation An error occurred while syncing SRP states from active RP to standby RP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-4-NOSRPBULKSYNC : Failed to [chars] SRP bulk data (slot=[dec], intf=[dec], type=[dec]), ret code [dec]

Explanation Some SRP-related state information failed to sync correctly from the active RP to the standby RP during the HA bulk-synchronization phase.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-4-NOSRPSYNC : Failed to sync SRP packet (slot=[dec],intf=[dec]) to standby, HA_SYNC_STATUS=[dec]

Explanation Some SRP-related state information failed to sync correctly from the active RP to the standby RP when the configuration changed.

%CWAN_HA-4-NOSRPSYNC : Failed to sync SRP packet (slot=[dec],intf=[dec]) to standby, HA_SYNC_STATUS=[dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-4-LTLSYNCFail : Failed to sync LTL data during [chars] for [chars] [int]: (slot=[dec],slotunit=[dec], if_num=[dec]) to standby (vlan=[int],hash=[int],ltl=[int])

Explanation Some LTL data did not sync correctly from active to standby RP

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_HA-4-IFEVENT_INCRSYNCFail : [chars] for ifevent: [dec] with error: [dec]

Explanation Failed CWAN if-event incremental sync.

Recommended Action No action is required.

%CWAN_HA-4-IFEVENT_BULKSYNCFail : [chars] ifevent: [dec] error: [dec]

Explanation Failed CWAN if-event bulk sync.

Recommended Action No action is required.

%CWAN_HA-4-IFEVENT_UNEXPECTED_BULKTYPE : Unexpected value for bulk sync type ([dec]) received.

Explanation Received a unexpected type in bulk sync message.

Recommended Action No action is required.

CWAN_RP

%CWAN_RP-6-LC_PRESENT : [chars] in slot [int]

Explanation A WAN module was detected by the hardware.

%CWAN_RP-6-LC_PRESENT : [chars] in slot [int]

Recommended Action No action is required.

%CWAN_RP-6-IMAGE_UPGRADE : Bootflash image upgrade [chars] for slot [int]/[int][chars]

Explanation The bootflash image on the WAN module has been or is being automatically upgraded.

Recommended Action No action is required.

%CWAN_RP-6-QUIESCE_FAIL : Quiesce failed for slot [int]/[int]

Explanation The RP failed to contact the WAN module during failover. The WAN module will be reset.

Recommended Action No action is required.

%CWAN_RP-6-UNQUIESCE_FAIL : Unquiesce failed for slot [int]/[int]. Error = [dec]

Explanation The RP failed to unquiesce the WAN module. The WAN module will be reset.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show diagbus and show ipc status** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-RESET_FAIL : The WAN module in slot [int] failed even after several resets

Explanation The WAN module in the slot specified in the error message did not boot successfully, even after multiple attempts.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-POWER_CYCLE : Power cycling WAN module in slot [int]/[int]. [chars]

Explanation The WAN module is being power cycled.

Recommended Action No action is required.

%CWAN_RP-3-POWER_CYCLE_IMMINEENT : The WAN module in slot [int]/[int] will be power cycled in [dec] seconds.

Explanation The WAN module in the slot specified in the error message will be power cycled in the amount of time specified in the error message

Recommended Action No action is required.

%CWAN_RP-3-BOOTFAIL : The WAN module in slot [int]/[int] failed to boot

Explanation The WAN module in the slot indicated in the error messages failed to boot and will be reset.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-KEEPFAIL : The WAN module in slot [int]/[int] is not responding to keepalives

Explanation The WAN module was either reset or has crashed and will be reset.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-SCPALLOCFAIL : Failed to allocate SCP packet [chars]

Explanation The RP failed to allocate a packet for communication with other slots in the chassis.

%CWAN_RP-3-SCPALLOCFAIL : Failed to allocate SCP packet [chars]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-HV_ALLOCFAIL : [chars]: Failed to allocate a VLAN: [chars]

Explanation VLAN allocation failed for the stated reason.

Recommended Action First, power down any unused linecards. Next, delete any unused interfaces/subinterfaces, and any unused L2 VLANs from the VLAN database. Then wait for >3 minutes and retry.

%CWAN_RP-3-IPCPORTFAIL : Failed to open IPC port '[chars]' [chars] with error [chars]

Explanation The RP failed to open a port for communication with a WAN module.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-IPCALLOCFAIL : Failed to allocate IPC buffer [chars]

Explanation The RP failed to allocate a buffer for communication with a WAN module.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-IPCSENDFAIL : Failed to send IPC message [chars]

Explanation The RP failed to send a message to a WAN module.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-BAD_IFCOMTYPE : Bad ifcom message type=[int]

Explanation	A WAN module passed down a message that the RP software was not prepared to handle.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-FOREVER : cmd [int] to [chars] (slot [int]/[int]) took [int]secs, done [hex]

Explanation	A CCB command from the RP to a WAN module took longer than expected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-IFCFG_FOREVER : to [chars] (slot [int]/[int]) took [int]secs, ret_val [int]

Explanation	A interface config command from the RP to a WAN module took longer than expected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-ERROR : NULL

Explanation	This message can take many forms. It provides information about a software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-6-CARDRELOAD : Module reloaded on slot [int]/[int]

Explanation	The WAN module has booted.
Recommended Action	No action is required.

%CWAN_RP-6-CARDRECONCILE : Module type changed on slot [int]/[int] from [int] to [int]

Explanation The WAN module has booted, and it has been detected that it is of a different type to the WAN module that was previously in this slot.

Recommended Action No action is required.

%CWAN_RP-3-LC_CRASHINFO : [chars] copied onto RP bootflash

Explanation The WAN module has crashed, and the crashinfo file has been copied onto the RP bootflash. The crashinfo filename indicates the module's slot. The file can be viewed using the **more** command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-LC_CRASHINFO_BLOCKED : Duplicate crashinfo upload from slot [int]/[int] blocked

Explanation The WAN module has crashed, and the crashinfo was not saved because the WAN module has already crashed recently.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-LC_CRASHINFO_NOSPACE : Not enough space on RP bootflash for crashinfo from slot [int]/[int] ([int] bytes needed, [int] available)

Explanation The WAN module has crashed, and there is not enough space on the RP bootflash to store the crashinfo.

Recommended Action Free up space on the RP's bootflash by using the **delete** and **squeeze** commands.

%CWAN_RP-3-LC_CRASHINFO_IFSERR : Error [chars] [chars]: [chars] ([int])

Explanation The WAN module has crashed, and an error occurred while trying to access the RP's bootflash to save the crashinfo.

%CWAN_RP-3-LC_CRASHINFO_IFSERR : Error [chars] [chars]: [chars] ([int])

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CWAN_RP-3-LC_CRASHINFO_CORRUPT : Verification of crashinfo from slot [int]/[int] failed

Explanation	The WAN module has crashed, and verification of the crashinfo it sent failed. The crashinfo has not been saved to RP bootflash.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-LC_CRASHINFO_ERR : Unexpected error while receiving crashinfo from slot [int]/[int]

Explanation	The WAN module has crashed, and an unexpected error occurred while the crashinfo was being copied onto RP bootflash.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-4-LCLOG_TOOLONG : Message too long from slot [int]/[int]: [int] bytes

Explanation	The WAN module passed down a logger message that is too long for the RP to handle.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-LCLOG_BADSEV : Invalid message severity from slot [int]/[int]: [int]

Explanation	The WAN module passed down a logger message with an invalid severity level that the RP could not handle.
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%CWAN_RP-3-LCLOG_BADSEV : Invalid message severity from slot [int]/[int]: [int]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CWAN_RP-3-SLOTCACHE_SYNTAX : Error ([chars])!

Explanation	The RP failed to parse the slot configuration string.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-7-SLOTCACHE_CARDTYPE : parsed slot [dec], fci_type [dec]

Explanation	Information parsed from the slot configuration string by the RP.
Recommended Action	No action is required.

%CWAN_RP-7-SLOTCACHE_PATYPE : Bay [chars] has type [dec] ports([hex])

Explanation	Information parsed from the slot configuration string by the RP.
Recommended Action	No action is required.

%CWAN_RP-3-CHANGE_POSEIDON_NEGOTIATION : Unable to change negotiation. Failed to send message to slot [dec] port [dec]!

Explanation	MSFC2 failed to send message to change negotiation to OSM-4GE-WAN-GBIC
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-OIRTWICE : Slot [int] OIR insertion/removal not paired up: [chars]

Explanation	An internal OIR-related error occurred for the specified WAN module.
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%CWAN_RP-3-OIRTWICE : Slot [int] OIR insertion/removal not paired up: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CWAN_RP-3-IFCONFIG_ERR : Interface config failed on port [dec]/[dec], cmd [dec], retval [dec]

Explanation	A configuration command sent from the system to a linecard failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-4-SEMAHOG : Process [dec] ([chars]) hogging [chars]! calling proc [dec] ([chars])

Explanation	The RP waited too long for a reply to a command sent to a WAN module.
Recommended Action	No action is required.

%CWAN_RP-4-IPCFAILED : IPC failed to send RPC message to WAN module

Explanation	The RP failed to send an RPC message via IPC to a WAN module.
Recommended Action	No action is required.

%CWAN_RP-3-PROCMSG : Process msg send failed for process[dec]

Explanation	Process message send failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-MODULE_TYPE : cannot find FCI for module type [int] in slot [int]

Explanation	An internal software error occurred while the system was detecting the module type for the module in the specified slot. The operation of the module will be affected.
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%CWAN_RP-3-MODULE_TYPE : cannot find FCI for module type [int] in slot [int]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%CWAN_RP-4-MODULE_CONFIG_MISSING : configuration not available/not matching in startup-config for slot [int]

Explanation	Some information regarding the configuration of the module in the specified slot is missing. Any configuration in the startup-config for the interfaces will not be applied. If the module in the specified slot is a FlexWAN, the missing configuration information is details of the Port Adapters in the FlexWAN module. This information is missing from the SLOTCACHE ROMMON variable.
Recommended Action	If the module in the slot specified in the error message has not previously been inserted, it has no previous configuration; therefore, no action is required. If the configuration for the specified slot in the startup-config is suitable for the module in that slot, manually apply the configuration after the module has loaded by one of the following two methods. The second method requires a system reload: - Enter the copy nvram:startup-config system:running-config command to re-apply your saved configuration, then enter the no shutdown command on all interfaces whose configuration was rejected, then enter the copy system:running-config nvram:startup-config command to save your configuration and the WAN module slot configuration. - Enter the copy command to copy your startup-config to a temporary location (for example, copy nvram:startup-config bootflash:tmp-config), then enter the copy system:running-config nvram:startup-config command to update the WAN module slot configuration, then enter the copy command to restore the temporary copy of the startup-config (for example, copy bootflash:tmp-config nvram:startup-config), then enter the reload command to reload the system. After using the second method, you may wish to use the delete command to remove the temporary copy of the startup-config. To prevent this condition from recurring, ensure that the SLOTCACHE variable is updated whenever modules that require it (FlexWANs, but not OSMs) are moved between slots in the chassis. The SLOTCACHE variable is updated when the running-config is written to the startup-config using the copy system:running-config nvram:startup-config command (or the deprecated write memory equivalent). The two methods of restoring the configuration for the module shown above ensure the SLOTCACHE variable is updated.

%CWAN_RP-4-LL_UNKNOWN : Unknown linecard message: type [int], [chars]

Explanation	Mismatch version between RP and LC, or internal message format mismatch
Recommended Action	No action is required.

%CWAN_RP-3-GBIC_INSERTED : GBIC media type [dec] inserted in [chars]

Explanation A GBIC was inserted in the interface.**Recommended Action** No action is required.

%CWAN_RP-3-GBIC_REMOVED : GBIC removed from [chars]

Explanation The GBIC was removed from the interface.**Recommended Action** No action is required.

%CWAN_RP-1-TOO_MANY_VRF : Slot [int] can not support all the VRFs configured!

Explanation A non-Enhanced OSM card has been inserted into a router with more than 511 IP VRFs already configured. This router cannot support more than 511 IP VRFs if there is at least one non-Enhanced OSM in the system.**Recommended Action** Replace the inserted non-Enhanced OSM with an Enhanced OSM, or decrease the number of IP VRFs to 511 or fewer.

%CWAN_RP-4-IFCFG_CMD_TIMEOUT : Interface configuration command ([hex]) to slot [int]/[int] timed out

Explanation The RP sent an configuration command to the slot specified in the error message and received no confirmation for the command.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-3-IFCFG_CMD_NOT_OWNER : Process '[chars]' waiting for interface configuration command ([hex]) to slot [int]/[int] without acquiring lock owned by process '[chars]'

Explanation A process on the RP sent an configuration command to the slot specified in the error message and a different process waited for the result. This could cause incorrect line card configuration states.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-6-UPGRADE_COMPLETE : Slot [int]: ROMMON upgrade complete. Reset the card for the changes to take effect.

Explanation The ROMMON upgrade has completed successfully. The card must be reloaded for the changes to take effect

Recommended Action No action is required.

%CWAN_RP-3-UPGRADE_ERROR : Slot [int]: The ROMMON upgrade failed to complete.

Explanation An error occurred during the upgrade process.

Recommended Action If the module reloads successfully, please check the file and try again, otherwise please contact your Cisco technical support representative.

%CWAN_RP-6-AUX_FILE : Slot [int]: Found VPN-SM Firmware in File: [chars]

Explanation The file specified in the message was found and will be loaded by the VPN Services Module instead of the bundled image.

Recommended Action No action is required.

%CWAN_RP-6-ADF_FILE : Slot [int]: Using VPN-SM Upgrade File: [chars]

Explanation Booting specified upgrade image for VPN Services Module.

Recommended Action No action is required.

%CWAN_RP-6-OVERRIDE : Slot [int]: ...Overriding Intrinsic VPN-SM Firmware.

Explanation Specified image will be used instead of bundled image.

Recommended Action No action is required.

%CWAN_RP-1-OVERRIDE_MAC_INVALID : [chars] has invalid override-mac-address.

Explanation The user has issued an override-mac-address that does not match the mac address of the MSFC. This can occur if the config has been moved to new hardware or the mac-address command has been used on another interface. While the system automatically corrects this, the config needs to be adjusted.

%CWAN_RP-1-OVERRIDE_MAC_INVALID : [chars] has invalid override-mac-address.

Recommended Action Modify the override-mac-address command in the config.

%CWAN_RP-3-WAN_BRIDGING_CFG_EXCD : The number of VPLS/EoMPLS/Bridging/QinQ VCs exceeded the maximum([int]) supported by slot: [int] [chars]

Explanation The user has attempted to configure more VPLS, EoMPLS, Bridging VCs than the number that is supported by the platform. Review the configuration guidelines for the features that are being configured and reduce the number of VPLS, EoMPLS, Bridging to the number that is supported by the platform.

Recommended Action

%CWAN_RP-6-OUT_OF_RESOURCE : [chars] configuration has exceeded available internal resources.

Explanation The resources required for configuration are no longer available. They may have been acquired by another application.

Recommended Action If the requested resources have not been allocated to another application, call your technical support representative for further assistance.

%CWAN_RP-4-EMPTY_CWANBAYS : FLEXWAN in slot [dec] is empty. Please remove the Flexwan or insert it with atleast one PA

Explanation The FLEXWAN in the specified slot does not contain any Port Adapters.

Recommended Action The FLEXWAN should be removed as this is an unsupported configuration

%CWAN_RP-6-LC_RESET : The RP is reloaded, resetting slot [dec] is necessary. Please ignore errors if any, till the linecard comes up.

Explanation If the system is running Catalyst operating system software on the supervisor engine and Cisco IOS software on the MSFC, the WAN line cards that power up before the RP powers up will be reset automatically.

Recommended Action No action is required.

%CWAN_RP-3-FAILED_CONFIG : Failed to send line card config message [chars] for slot [int] port [int]

Explanation The RP could not send the specified configuration message to the line card

%CWAN_RP-3-FAILED_CONFIG : Failed to send line card config message [chars] for slot [int] port [int]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_RP-4-INVALID_UNIT : Invalid 7600 Unit: [[dec]/[dec]].

Explanation The specified 7600 slot/cpu beyonds the Chassis's limit.

Recommended Action Power cycle the redundant supervisor

%CWAN_RP-4-INCR_CFG_SYNC_FAIL : 7600 incremental running-config sync for [[dec]/[dec]] failed - [chars]([dec]) , Reload Standby

Explanation The specified 7600 incremental running-config sync failed

Recommended Action Power cycle the redundant supervisor

%CWAN_RP-4-CONFIG_MISMATCH : Irreconcilable Configuration difference between Active & Standby Supervisors due to OIR/Config Event for [dec]/[dec] -> Reloading Standby Supervisor to synchronize the configuration.

Explanation Unexpected configuration difference between Supervisors.

Recommended Action None. This is expected behavior.

%CWAN_RP-6-NOPWRISSU : Spa inserted in [chars] powered down because ISSU is in progress

Explanation The Spa insertion detected during ISSU upgrade process. It will be acted upon completion of the ISSU process.

Recommended Action No action is required.

%CWAN_RP-3-CWAN_IFCOM_RMI : Cwan ifcom RMI failure - [chars]([dec])

Explanation The CWAN IFCOM RMI Registration.

Recommended Action No action is required.

%CWAN_RP-6-COREDUMP_ENABLED : No heartbeat or keepalive resets will occur for slot [int] since coredump has been enabled

Explanation	The module in the slot has crashed and is configured to generate a coredump file. The module will not be reset due to heartbeat and keepalive failures to ensure the coredump file generation is not prematurely terminated.
Recommended Action	No action is required.

%CWAN_RP-6-SESS_LIMITS_CHASSIS : Exceeded max number of sessions supported. Supported limit 32000/chassis

Explanation	Total number of subscriber sessions on this chassis exceeded the allowed limits. The supported limit is 32000 sessions per chassis
Recommended Action	Avoid bringing up more number of sessions than the supported limit

%CWAN_RP-6-SESS_LIMITS_SIP400 : Exceeded max number of sessions supported on SIP400 LC in slot [dec]. Supported limit 8000/SIP400

Explanation	Total number of subscriber sessions on SIP400 line card exceeded the allowed limits. The supported limits is, 8000 sessions per SIP400
Recommended Action	Avoid bringing up more number of sessions than the supported limit

%CWAN_RP-6-SESS_LIMITS_ES_PLUS : Exceeded max number of sessions supported on ES+ LC in slot [dec]. Supported limit 16000/ES+

Explanation	Total number of subscriber sessions on ES+ line card exceeded the allowed limits. The supported limit is 16000 sessions per ES+
Recommended Action	Avoid bringing up more number of sessions than the supported limit

%CWAN_RP-6-SESS_LIMITS_PORT_GROUP : Exceeded max number of sessions supported on port-group Gig[dec]/[dec] to Gig[dec]/[dec].Supported limit 4000/port-group on ES+ LC

Explanation	Total number of subscriber sessions on a single port-group in ES+ exceeded the allowed limits. The supported limit is 4000 sessions per port-group
Recommended Action	Rearrange the subscribers on ES+ in such a way maximum number of sessions supported in a port-group is 4000.

%CWAN_RP-6-SESS_LIMITS_TEN_GIG_PORT : Exceeded max number of sessions supported on port Te[dec]/[dec]. Supported limit 8000/port on a Ten Gig port on ES+ LC.

Explanation	Total number of subscriber sessions on a single Ten Gig port in ES+ exceeded the allowed limits. The supported limit is 8000 sessions per Ten Gig port.
Recommended Action	Rearrange the subscribers on ES+ in such a way that maximum number of sessions per Ten Gig port is 8000

%CWAN_RP-6-PLAT_AVL_DEL_FAILED : Platform AVL delete failed for PPPoE session due to wrong slot id [dec]

Explanation	Deletion of session related information from the AVL tree failed, because the slot number used to index it is wrong
Recommended Action	No action is required.

CWAN_SLOT

%CWAN_SLOT-1-CF_NOBUF : Failed to get chkpt buffer, client = [dec]

Explanation	Failed to get enough memory for checkpointing.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%CWAN_SLOT-1-CF_ADDFAILED : Failed to register chkpt client, client = [dec]

Explanation	The CF client could not be registered.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CWAN_SPA

%CWAN_SPA-3-CREATION_FAILURE : slot=[dec] subslot=[dec], spa_type=[hex], lc_type=[hex].

Explanation	Failed to create a SPA object.
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%CWAN_SPA-3-CREATION_FAILURE : slot=[dec] subslot=[dec], spa_type=[hex], lc_type=[hex].

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-SPA_CREATION_FAILURE : slot=[dec] subslot=[dec], PID=[chars] lc_type=[hex].

Explanation Failed to create a SPA object.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-FAILURE : [chars]: SPA failure - cause: [chars] ([hex]), recovery action: [chars] ([dec])

Explanation The SPA failed for the specified reason

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-NULL_VFT : [chars] virtual function table is not initialized. spaType=[hex]

Explanation A required function table is not initialized

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-NULL_VFUNC : [chars] vector is not initialized. spaType=[hex]

Explanation	A required function vector is not initialized
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-MEM_ALLOC_ERROR : [chars]

Explanation	Memory allocation error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-NULL_SPA_PTR :

Explanation	Pointer to a SPA object is NULL.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-INVALID_INDX_RANGE : index1= [dec], index2= [dec], maxIndex= [dec]

Explanation	Invalid index range.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-INVALID_IF_INDEX : index= [dec], cardType=[hex], spaType=[hex], slot [dec] subSlot [dec] slotunit [dec] vc [dec]

Explanation	Index for the interface is not valid.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-INVALID_DATA_INSTANCE : interface type [chars], slot [dec] port [dec] vc [dec] : [chars]

Explanation	Data required to support the interface is not available.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-NULL_ATM_DB : Unable to create ATM DB for [chars]

Explanation	Data required to support the interface is not available.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-POWER_CYCLE : [chars] occurred on Shared Port Adapter [int]/[int]

Explanation	An error has occurred which will cause the Shared Port Adapter to be power cycled
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-DIAG_CONFIG : [chars] did not complete [dec]/[dec]

Explanation	An error has occurred during diagnostic test.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWAN_SPA-3-INTR_THROTTLE : Interface [chars] MAC interrupt was throttled. Reenabling MAC interrupts via one sec spa process

Explanation	MAC interrupt burst has occurred on one of the interfaces on the link daughtercard. The error message indicates that a throttling mechanism has been applied to this port to avoid any operational damage that could be provoked by this event. The cause for this problem could be bad transceiver, highly frequent flapping optical signals, or mismatched path signals (e.g. receiving 10GBASE-W signal on 10GE LAN interface), etc.
Recommended Action	Check the interface configuration and received signal characteristics. Also verify the XFP transceiver and receive signal path to determine the If this message recurs, LOG_STD_ACTION

CWAN_T3E3

%CWAN_T3E3-3-IFCONFIG_ERR : Interface config error on T3 port [dec]/[dec], cmd [dec], retval [dec]

Explanation	A configuration command sent from the system to a linecard failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

CWMP_DOWNLOAD

%CWMP_DOWNLOAD-5-CONFIG_SUCCESS : CWMP download: config file successfully downloaded and applied [chars]

Explanation	The configuration apply operation with CWMP DOWNLOAD RPCmethod is success.
Recommended Action	No action required.

%CWMP_DOWNLOAD-5-CONFIG_FAILURE : CWMP download: config apply operation failed [chars]

Explanation	The configuration apply operation with CWMP DOWNLOAD RPCmethod is failed.
Recommended Action	No action required.

CWRPSPA through DFP

- CWRPSPA
- CWS
- DAPR
- DAPR_BR
- DAPR_RM
- DATACORRUPTION
- DATA_DESCR
- DBAL
- DC
- DFP

CWRPSPA

%CWRPSPA-3-NO_HOST_INFO : slot [dec] subSlot [dec], spaType [hex]

Explanation	Failed to get information about the host linecard.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWRPSPA-3-MAX_SPA : Power to IPSEC-SPA-2G in [chars] is denied because it has exceeded the number allowed([dec])

Explanation	The number of IPSEC-SPA-2G in a chassis is limited. This message is displayed when the number of IPSEC-SPA-2G in the chassis has exceeded this limit.
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%CWRPSPA-3-MAX_SPA : Power to IPSEC-SPA-2G in [chars] is denied because it has exceeded the number allowed([dec])

Recommended Action Use only the number of supported IPSEC-SPA-2G

%CWRPSPA-3-SPA_NO_HOST_INFO : slot [dec] subSlot [dec], PID [chars]

Explanation Failed to get information about the host linecard.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWRPSPA-3-HWIDB_FAILURE : Creation: slot [dec] subSlot [dec] port [dec] vc [dec]

Explanation Failed to create an interface hwidb.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWRPSPA-3-INVALID_PORT_NUM : slot=[dec] port=[dec], hwidbType=[hex], max_port_num=[dec], LCtype=[hex]

Explanation The port number is out of range.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWRPSPA-4-SPA_RESP_CMD_MISMATCH : [chars]: Expecting response to interface configuration command [chars] but received response to command [chars].

Explanation	An internal synchronization error occurred while configuring the interface. The configuration may not have succeeded.
Recommended Action	Check that the running configuration for the interface is correct. If this message occurred on the standby, try reloading the standby to ensure that its configuration is in sync. If this message is repeatable, please LOG_STD_SH_TECH_ACTION

%CWRPSPA-6-CARDRELOAD : Module [int] reload due to SPA insert in [int]/[int].

Explanation	When inserting a SPA on this carrier card, the card is reset.
Recommended Action	No action is required.

%CWRPSPA-4-SPA_CMD_NO_RESP : [chars]: No response for interface configuration command [chars]

Explanation	A timeout occurred while RP was waiting for a response from line card. This may happen due to line card CPU being too busy to respond to the command.
Recommended Action	No action is required.

%CWRPSPA-5-OUT_OF_RESOURCES : [chars]: Unable to create [chars] due to SPA resource limitations.

Explanation	The SPA was unable to create the requested resource due to limited hardware or software resources
Recommended Action	No action is required.

CWS

%CWS-5-CWS_ON_PATH_DEBUG : NSH D-bit set for SIP: %CA DIP: %CA Src_node: [dec] Src_if_Id: [dec] Tenant_Id: [dec]

Explanation	CTR has seen an NSH header with D-bit set
Recommended Action	This message is for informational purposed only, and used for CWS Per Flowing debugging in the Cloud. LOG_STD_NO_ACTION

%CWS-5-CWS_INVALID_REF_COUNT : Invalid ref count [dec] in chunk [hex]

Explanation	CTR has seen an invalid ref count in the NSH pool
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%CWS-5-CWS_INVALID_REF_COUNT : Invalid ref count [dec] in chunk [hex]

Recommended Action This message is for informational purposed only, and used for CWS troubleshooting. LOG_STD_NO_ACTION

%CWS-3-IPC_INVALID_MSG : CWS-Invalid request [int]

Explanation Received Invalid message from CWS client proxy

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWS-3-IPC_OPEN_REPLY : CWS-IPC Open Reply failed, request [chars]

Explanation For a request from CWS client proxy opening the reply buffer failed

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%CWS-3-IPC_NORES : CWS-No space for the IPC reply, size [int], request [chars]

Explanation For a request from CWS client proxy it was not possible to allocate space for a reply for the specified size.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWS-3-IPC_SEND_FAILED : CWS-IPC [chars] [chars] send failed [int]

Explanation IPC message send failure

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%CWS-2-IPC_INIT_FAILED : CWS-IPC message handler registration failure, rc [int]

Explanation	Registering an IPC message handler for the CWS feature failed. This will cause the feature to not function.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

DAPR

%DAPR-4-INTERNAL_ERROR : [chars]

Explanation	Internal error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

DAPR_BR

%DAPR_BR-5-STATUS : [chars]

Explanation	Border-Router status
Recommended Action	No action is required.

%DAPR_BR-5-RESET : reason: [chars]

Explanation	Border-Router reset due to mentioned reason
Recommended Action	No action is required.

%DAPR_BR-5-RM_ROUTE_INVALID : No route or route is via egress

Explanation	Invalid route from Border-Router to Route-Manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_BR-5-NBR_ROUTE_INVALID : Neighbor-BR [IP_address]

Explanation Invalid route to neighbor Border-Router**Recommended Action** No action is required.

%DAPR_BR-5-NBR_TUNNEL_UPDOWN : Neighbor-BR [IP_address] tunnel [chars]

Explanation Status of tunnel to neighbor Border-Router**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_BR-5-EGRESS_INTF_THRESHOLD_EXCEED : [chars] curr-util [int]%%, max-util %ld%%

Explanation DAPR egress interface utilization threshold exceeded**Recommended Action** No action is required.

%DAPR_BR-5-EGRESS_INTF_NOT_VIABLE : [chars] curr-bw(kbps) [int] min-bw(kbps) %ld

Explanation DAPR egress interface not viable**Recommended Action** No action is required.

%DAPR_BR-5-EGRESS_INTF_UPDOWN : [chars] [chars]

Explanation DAPR egress interface status**Recommended Action** No action is required.

%DAPR_BR-5-INGRESS_INTF_UPDOWN : [chars] [chars]

Explanation DAPR ingress interface status**Recommended Action** No action is required.

%DAPR_BR-4-PREFIX_LIMIT_EXCEEDED : curr [dec], max [dec]

Explanation	DAPR RIB prefixes exceeded
Recommended Action	No action is required.

%DAPR_BR-4-FLOW_LIMIT_EXCEEDED : curr [dec], max [dec]

Explanation	DAPR Flows exceeded
Recommended Action	No action is required.

%DAPR_BR-4-RMAP_LIMIT_EXCEEDED : curr [dec], max [dec]

Explanation	DAPR route-map entries exceeded max allowed
Recommended Action	No action is required.

DAPR_RM

%DAPR_RM-6-APP_RT_INSTALL : [chars] (BW:[dec]) [chars]

Explanation	App route installed for flow-group
Recommended Action	No action is required.

%DAPR_RM-6-APP_RT_DEL : [chars] (BW:[dec])

Explanation	App route deleted for flow-group
Recommended Action	No action is required.

%DAPR_RM-4-NO_VIABLE_PATH : [chars]

Explanation	No viable path found for flow-group
Recommended Action	No action is required.

%DAPR_RM-3-APP_RT_COMPUTE_FAILED : [chars]

Explanation	App route compute failed for flow-group
Recommended Action	No action is required.

%DAPR_RM-4-APP_REROUTE_FAILED : [chars]

Explanation	App route re-compute failed for flow-group
Recommended Action	No action is required.

%DAPR_RM-5-BR_STATUS : BR [chars] [chars]

Explanation	Border-Router status on RM
Recommended Action	No action is required.

%DAPR_RM-3-BR_RESET : BR [chars] reason: [chars]

Explanation	RM reset the BR due to mentioned reason
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_RM-6-BR_EVENT : BR [chars] event: [chars]

Explanation	RM received event from BR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_RM-4-RIB_MISMATCH : route-count: old [dec] new [dec]

Explanation	Mismatch of RIB database between BRs and RM
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%DAPR_RM-4-RIB_MISMATCH : route-count: old [dec] new [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DAPR_RM-3-BR_REG_FAILED : BR [chars] reason: [chars]

Explanation	BR Registration failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_RM-6-RM_RESET : reason: [chars]

Explanation	RM reset due to the mentioned reason
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_RM-5-RM_STATUS : [chars]

Explanation	Route-Manager status
Recommended Action	No action is required.

%DAPR_RM-4-FLOW_EXP_PKT_INVALID_SEQ : BR [chars] last-seq [dec] curr-seq [dec]

Explanation	Unexpected seq num in flow export pkt
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_RM-3-FLOW_EXP_PKTS_MISSED : BR [chars] missed-pkts [dec]

Explanation	Flow export packets missed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_RM-4-FLOW_DATA_RECS_IGNORED : BR [chars] reason: [chars]

Explanation	Flow data records ignored
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_RM-3-FLOW_INVALID_EGRESS : flow-group [chars]/[chars]/[dec], state [chars], uptime [dec]s, last-transition [dec]s, ingress-BR [chars], expected-egress [chars]/[dec], reported-egress [chars]/[dec]

Explanation	Flow discovered from unexpected egress
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_RM-4-FLOW_INVALID_INGRESS : flow-group [chars]/[chars]/[dec], state [chars], uptime [dec]s, last-transition [dec]s, ingress-BR [chars], egress-BR/intf [chars]/[dec], ingress-intf [chars]

Explanation	Flow discovered from unexpected ingress
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DAPR_RM-4-FLOW_MULTI_EGRESS : flow-group [chars]/[chars]/[dec], state [chars], uptime [dec]s, num-egress [dec], prev-egress [chars]/[dec], curr-egress [chars]/[dec]

Explanation	New flow discovered from multiple egresses
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%DAPR_RM-4-FLOW_MULTI_EGRESS : flow-group [chars]/[chars]/[dec], state [chars], uptime [dec]s, num-egress [dec], prev-egress [chars]/[dec], curr-egress [chars]/[dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

DATACORRUPTION

%DATACORRUPTION-1-DATAINCONSISTENCY : [chars], -PC= [chars]

Explanation

Recommended Action

%DATACORRUPTION-1-DATAINCONSISTENCY : [chars], -PC= 0x[chars]

Explanation Software has detected that some internal data structures may be corrupt. This may lead to unpredictable device operation; including, but not limited to, unexpected reloads or spurious memory accesses. This detection is a proactive check for operating system consistency.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

DATA_DESCR

%DATA_DESCR-3-HWIDB_DECODE : Lookup Failure: %0-8x.%0-8x.%0-8x.%0-8x.%0-8x ([int]-[int]/[int]/[int]/[int])

Explanation Data descriptors are used to encode an interface index in a compact fashion for transfer between redundant route processor units. An interface corresponding to a data descriptor index was not found on the Standby unit when it was looked up. The failure most likely occurred because of a software error. The numeric error code in the message output identifies the failing data descriptor index. The system state between the Active and Standby units might not be properly synchronized.

Recommended Action Gather system logs and error messages at both the active and the standby units. Issue the recommended show commands at the active unit.
LOG_STD_SH_CMD_ACTION(show data-descriptor hwidb)

%DATA_DESCR-3-SWIDB_DECODE : Lookup Failure: %0-8x.%0-8x.%0-8x.%0-8x.%0-8x ([int]-[int]/[int]/[int]/[int])

Explanation Data descriptors are used to encode an interface index in a compact fashion for transfer between redundant route processor units. An interface corresponding to a data descriptor index was not found on the Standby unit when it was looked up. The failure most likely occurred because of a software error. The numeric error code in the message output identifies the failing data descriptor index. The system state between the Active and Standby units might not be properly synchronized.

Recommended Action Gather system logs and error messages at both the active and the standby units. Issue the recommended show commands at the active unit.
LOG_STD_SH_CMD_ACTION(show data-descriptor swidb)

%DATA_DESCR-3-CTRLR_DECODE : Lookup Failure: %0-8x.%0-8x.%0-8x.%0-8x.%0-8x ([int]-[int]/[int])

Explanation Data descriptors are used to encode an interface index in a compact fashion for transfer between redundant route processor units. An interface corresponding to a data descriptor index was not found on the Standby unit when it was looked up. The failure most likely occurred because of a software error. The numeric error code in the message output identifies the failing data descriptor index. The system state between the Active and Standby units might not be properly synchronized.

Recommended Action Gather system logs and error messages at both the active and the standby units. Issue the recommended show commands at the active unit.
LOG_STD_SH_CMD_ACTION(show data-descriptor controller)

%DATA_DESCR-3-GENERIC_VIRTUAL_DECODE : Lookup Failure: %0-8x.%0-8x.%0-8x.%0-8x.%0-8x ([int]-[int]/[int]/[int])

Explanation Data descriptors are used to encode an interface index in a compact fashion for transfer between redundant route processor units. An interface corresponding to a data descriptor index was not found on the Standby unit when it was looked up. The failure most likely occurred because of a software error. The numeric error code in the message output identifies the failing data descriptor index. The system state between the Active and Standby units might not be properly synchronized.

Recommended Action Gather system logs and error messages at both the active and the standby units. Issue the recommended show commands at the active unit.
LOG_STD_SH_CMD_ACTION(show data-descriptor [hwidb]swidb))

**%DATA_DESCR-3-GENERIC_DECODE : Lookup Failure: %0-8x.%0-8x.%0-8x.%0-8x.%0-8x
([int]-[int]/[int]/[int]/[int]/[int])**

Explanation	Data descriptors are used to encode an interface index in a compact fashion for transfer between redundant route processor units. An interface corresponding to a data descriptor index was not found on the Standby unit when it was looked up. The failure most likely occurred because of a software error. The numeric error code in the message output identifies the failing data descriptor index. The system state between the Active and Standby units might not be properly synchronized.
Recommended Action	Gather system logs and error messages at both the active and the standby units. Issue the recommended show commands at the active unit. LOG_STD_SH_CMD_ACTION(show data-descriptor [hwidb swidb controller])

%DATA_DESCR-3-GENERIC_ENCODE : Encode failure: [chars], descriptor type=[dec]

Explanation	An internal data descriptor could not be encoded for synchronization for the interface or controller in the run-time module specified in the message output. The failure most likely occurred because of a software error. The descriptor type specified in the message output identifies the type of failure. The system state between the active and standby units might not be properly synchronized.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DATA_DESCR-3-DEFER_FAILURE : Defer failure on [chars] for descriptor [int]-[int]/[int]/[int]/[int]

Explanation	Data descriptors are used to encode an interface index in a compact fashion for transfer between redundant route processor units. An error occurred during the processing of a data descriptor. The failure most likely occurred because of a software error. The numeric error code in the message output identifies the failing data descriptor index. The system state between the Active and Standby units might not be properly synchronized.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DATA_DESCR-3-QUEUE_INTERNAL_ERROR : Internal error on data descriptor queue: [chars]

Explanation Data descriptors are used to encode an interface index in a compact fashion for transfer between redundant route processor units. An error occurred during the processing of a data descriptor. The failure most likely occurred because of a software error. The numeric error code in the message output identifies the failing data descriptor index. The system state between the Active and Standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DATA_DESCR-3-ENTRY_EXPIRED : Found expired message entry for descriptor [int]-[int]/[int]/[int]/[int]

Explanation Data descriptors are used to encode an interface index in a compact fashion for transfer between redundant route processor units. An error occurred during the processing of a data descriptor. The failure most likely occurred because of a software error. The numeric error code in the message output identifies the failing data descriptor index. The system state between the Active and Standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

DBAL

%DBAL-3-MQIPC_EVENTLOSS :

Explanation MQIPC event notifying of non-empty queue not delivered to DBAL

Recommended Action Report this occurrence to Cisco TAC

%DBAL-3-MQIPC_PEEKERR :

Explanation MQIPC fails to peek and fetch a msg in DBAL

Recommended Action Report this occurrence to Cisco TAC

%DBAL-3-MQIPC_ADVANCEERR :

Explanation	MQIPC fails to advance to the next msg in DBAL
Recommended Action	Report this occurrence to Cisco TAC

%DBAL-4-DELAYED_BATCH :

Explanation	DBAL batch with an extended lifetime. This may or may not be a problem depending on the circumstances
Recommended Action	Collect log archive and show tech-support and report this occurrence to Cisco TAC

%DBAL-4-LONG_EXEC_BATCH :

Explanation	DBAL batch execution took an extended period of time. This may or may not be a problem depending on the circumstances
Recommended Action	Collect log archive and show tech-support and report this occurrence to Cisco TAC

%DBAL-3-MQIPC_READER_INIT_BY_TIMER :

Explanation	MQIPC reader initialized by timer not chasfs watcher.
Recommended Action	Report this occurrence to Cisco TAC

%DBAL-3-BIPC_MSG_ALLOC_FAIL :

Explanation	BIPC msg size beyond limit.
Recommended Action	Report this occurrence to Cisco TAC

DC

%DC-4-FILE_OPEN_WARNING : Not able to open [chars]

Explanation	The device classifier did not find the default profile file or it may be corrupted. DC is working using built-in profiles.
Recommended Action	Perform archive download using the tar bundle image to install the profile file in the flash. Reload the switch with the image to see the warning message is gone.

%DC-3-PATTERN_NOT_FOUND : [chars]

Explanation The device profiles file parsing failed. This indicates that the file may be corrupt. The device classifier will be operationally down if failure occurred for the Embedded profiles.

Recommended Action Reload the Device Profiles file to the flash and re-enable the device classifier

%DC-3-INCOMPATIBLE_PROFILE_VERSION : Incompatible version of Profile detected in [chars]. Expected version:[dec], Version found:[dec]

Explanation An incompatible profile version is detected. The device classifier feature will be operationally down.

Recommended Action Reload the expected version of device profiles file to the system and re-enable the device classifier

%DC-3-BUILTIN_INIT_FAIL : [chars]

Explanation Initialization of Device classifier Built-in database failed. So the device classifier will be operationally down.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DC-6-DEFAULT_INIT_INFO : [chars]

Explanation The default profiles are not loaded and those devices will not be classified. Device classifier will continue to work with built-in profiles.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DC-3-SM_INIT_FAIL : Device Classifier disabled. [chars] initialization failed

Explanation Registraton of Device classifier with SM failed. So the device classifier will be operationally down.

%DC-3-SM_INIT_FAIL : Device Classifier disabled. [chars] initialization failed

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DC-3-OUI_INIT_FAIL : OUI Table initialization failed for [chars]

Explanation	Loading of the OUI databae in Device classifier failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DC-3-CHECK_INIT_FAIL : [chars]

Explanation	Loading of the Checks databae in Device classifier failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DC-3-DB_INIT_FAIL : Device Classifier disabled. [chars] initialization failed

Explanation	Initilization of Device classifier Internal database failed So the device classifier will be operationally down.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DC-3-MAX_RULES_EXCEEDED : [chars].

Explanation	The maximum number of rules that can be defined in device profiles exceeded the maximum limit. The device classifier will be operationally down if failure occurred for the Embedded profiles.
Recommended Action	Reduce the number of rules in the device profiles file and reload it into the system and re-enable the device classifier

%DC-3-MAX_PROFILES_EXCEEDED : [chars].

Explanation The maximum number of profiles that can be defined in device profiles exceeded the maximum limit. The device classifier will be operationally down if failure occurred for the Embedded profiles.

Recommended Action Reduce the number of rules in the device profiles file and reload it into the system and re-enable the device classifier

%DC-3-MAX_OUI_EXCEEDED : [chars].

Explanation The maximum number of OUI codes that can be defined in device profiles exceeded the maximum limit. The device classifier will be operationally down if failure occurred for the Embedded profiles.

Recommended Action Reduce the number of rules in the device profiles file and reload it into the system and re-enable the device classifier

%DC-3-NO_MEM : [chars].

Explanation There is no memory left to allocate in the system The device classifier will be operationally down if failure occurred for the Embedded profiles.

Recommended Action Increase the memory size in the system and re-enable the device classifier

%DC-3-DC_DISABLED : [chars].

Explanation The device classifier is disabled due to an error condition encountered during initialization or parsing the profiles

Recommended Action The specified error message is logged. After the error condition is resolved re-enable the device classifier

%DC-3-SM_UPDATE : Failed to update [chars].

Explanation Internal error occurred during device classification . This may cause the device to be unknown.

Recommended Action

%DC-3-SM_API : [chars] return [chars].

Explanation Internal error returned by Session Manager api.

%DC-3-SM_API : [chars] return [chars].

**Recommended
Action**

%DC-3-FILE_READ_ERROR : Error [chars] the profile file: [chars]

Explanation There was an error reading the profile file contents. The profiles in the errored file cannot be loaded into the device classifier.

**Recommended
Action**

%DC-3-FILE_CHECKSUM : Checksum [chars] failed for the profile file: [chars]

Explanation Checksum computation or verification failed for the profiles file. The profiles in the errored file cannot be loaded into the device classifier.

**Recommended
Action**

%DC-3-SM_GET : Failed to get [chars].

Explanation Internal error occurred during communication with Session Manager. This may cause the show command not to display the device classification results.

**Recommended
Action**

%DC-3-DISABLE_FAIL : Failed to disable DC.

Explanation Internal error occurred trying to disable Device Classifier.

**Recommended
Action** Please run the command: show macro auto monitor clients and try disabling the clients

%DC-3-ENABLE_FAIL : Failed to enable DC.

Explanation Internal error occurred trying to enable Device Classifier.

**Recommended
Action** Please check the previous DC error messages and take the relevant action

%DC-3-HRPC_SYNC : Error on member switch [dec], error_code = [dec]

Explanation	Internal error occurred while trying to sync Device Classifier.state
Recommended Action	Please check the state of the stack members

DFP

%DFP-4-UKN_CON : Manager [IP_address] Service [chars] - Unknown connection state [int]

Explanation	Unknown connection state processing DFP timer
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-BAD_SEND : Manager [IP_address]:[int] - Send failed

Explanation	Sending a message to DFP Manager failed
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-SOCK_ERR : Manager [IP_address]: Service [chars] - Socket_recv error [dec]

Explanation	Socket_recv error receiving message from DFP Manager
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-READ_ERR : Manager [IP_address]: Service [chars] - Too many read errors

Explanation	Too many errors reading message header from DFP Manager
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%DFP-4-READ_ERR : Manager [IP_address]: Service [chars] - Too many read errors

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-NO_PARSE : Manager [IP_address]: Service [chars] - Could not parse message

Explanation Could not parse message from DFP Manager

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-UNK_TYPE : Manager [IP_address]: Service [chars] - Unknown message type [int]

Explanation Message from DFP Manager has unknown type

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-ENQUEUE : Process enqueue failed: [chars]

Explanation An unexpected error occurred while enqueueing a DFP element

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-BAD_POINTER : [chars] Application did not set pointer

Explanation Application passed invalid pointer to DFP subsystem

%DFP-4-BAD_POINTER : [chars] Application did not set pointer

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-NUM_TOO_LARGE : [chars] Application sent too many values

Explanation Application sent too many values to DFP subsystem

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-AGENT_NOT_FOUND : [chars] Service has not been registered with DFP.

Explanation No such service registered with DFP subsystem.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-BAD_LISTEN : Service [chars] - Listen failed

Explanation Listen for DFP Manager failed.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-NO_PROCESS_START : Could not start process for service [chars]

Explanation Could not start DFP Process for service %s

%DFP-4-NO_PROCESS_START : Could not start process for service [chars]

Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DFP-4-STRING_TOO_LONG : The string [chars] exceeds 15 characters - too long for service name.

Explanation	The user input a service string that exceeds 15 characters
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-PACKET_TOO_SMALL : The DFP packet is too small from manager [IP_address] service [chars].

Explanation	A DFP packet has been received that is too small.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-REPEAT_SERVICE_INIT : Service [chars] is already initialized, cannot re-initialize

Explanation	The application has attempted to re-initialize a service
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-NO_QUEUE_REQUEST : Could not queue request for [chars] for service [chars]

Explanation	Could not queue request to the DFP process for specific action
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%DFP-4-NO_QUEUE_REQUEST : Could not queue request for [chars] for service [chars]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-SUBSYS_NOT_UP : Service [chars] - attempted to register before DFP Subsystem is up.

Explanation Problem with order of subsystem initialization.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DFP-4-SECURITY_FAIL : [chars] security information in CASA packet from manager [IP_address] service [chars].

Explanation Security check failed.

Recommended Action Make sure all CASA/DFP systems are configured with the same password.

%DFP-4-BIND_FAIL : Failure binding port [int] to socket for service [chars].

Explanation Problem with call to socket bind.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

DHCP through DLC

- [DHCP](#)
- [DHCPD](#)
- [DHCPV6C](#)

- DHCPV6R
- DHCPV6S
- DHCP_SNOOPING
- DIALER
- DIALER_LIST_PROXY
- DIALPEER_DB
- DLC

DHCP

%DHCP-6-ADDRESS_ASSIGN : Interface [chars] assigned DHCP address [IP_address], mask [IP_address], hostname [chars]

Explanation	The interface has been allocated an address via DHCP
Recommended Action	This is an informational message. No action is required

%DHCP-5-RESTART : Interface [chars] is being restarted by DHCP

Explanation	DHCP is restarting the interface.
Recommended Action	No action is required.

%DHCP-3-HA_INIT_FAIL : Function [chars] in DHCP client failed to initialize: [chars]

Explanation	A high availability related function in the DHCP client failed to initialize properly. If you are using a platform with a redundant processor or box-to-box redundancy, DHCP client settings may fail to be preserved if the main processor fails forcing use of the standby.
Recommended Action	Please contact the TAC for assistance.

DHCPD

%DHCPD-2-NO_PROCESS : DHCP could not start its [chars] process.

Explanation	DHCP could not start one of its processes.
Recommended Action	Add more memory.

%DHCPD-2-SOCKET_ERROR : DHCP could not open UDP port [int].

Explanation	DHCP could not open UDP port 67 (bootps).
Recommended Action	Check if another application is using UDP port 67. If the port is available, add more memory.

%DHCPD-2-MALLOC_ERROR : There is inadequate memory for DHCP services.

Explanation	DHCP could not allocate mandatory data structures.
Recommended Action	Add more memory.

%DHCPD-2-RCVMSG_ERROR : Rcvmsg failed unexpectedly. DHCP services have been terminated.

Explanation	Reason for failure is unknown.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%DHCPD-4-RELAY_ONLY : DHCP will run as a relay agent only.

Explanation	DHCP could not start its database process. The server component has been disabled. Only the relay agent is active.
Recommended Action	Add more memory.

%DHCPD-3-READ_ERROR : DHCP could not read bindings from [chars].

Explanation	The DHCP server could not read bindings from the specified database agent.
Recommended Action	Verify that the URL is correct and connectivity exists between the server and database agent. Check for a corrupt database file. The file must contain the *time* and *end* keywords. Execute the command, show ip dhcp database. If there are aborted file transfers, increase the database transfer timeout.

%DHCPD-2-READ_DEADLOCK : DHCP has detected a deadlock condition (excessive read failures).

Explanation	The DHCP server could not read bindings from any database agent. All read attempts have failed. To prevent a possible deadlock, the server has made all pool addresses available for assignment.
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%DHCPD-2-READ_DEADLOCK : DHCP has detected a deadlock condition (excessive read failures).

Recommended Action Verify that all URLs are correct and connectivity exists between the server and all database agents. Check for corrupt database files. All files must contain the *time* and *end* keywords. Execute the command, show ip dhcp database. If there are aborted file transfers, increase the appropriate timeouts. Restart the DHCP server.

%DHCPD-3-WRITE_ERROR : DHCP could not write bindings to [chars].

Explanation The DHCP server could not write bindings to the specified database agent.

Recommended Action Verify that the URL is correct and connectivity exists between the server and database agent. Execute the command, show ip dhcp database. If there are aborted file transfers, increase the database transfer timeout.

%DHCPD-4-PING_CONFLICT : DHCP address conflict: server pinged [IP_address].

Explanation The DHCP server has detected an address conflict. Another host is using the specified IP address. After resolving the conflict, execute the command, clear ip dhcp conflict.

Recommended Action Resolve the misconfiguration. Clear the conflict from the DHCP database.

%DHCPD-4-DECLINE_CONFLICT : DHCP address conflict: client [chars] declined [IP_address].

Explanation The DHCP client has detected an address conflict. Another host is using the specified IP address. After resolving the conflict, execute the command, clear ip dhcp conflict.

Recommended Action Resolve the misconfiguration. Clear the conflict from the DHCP database.

%DHCPD-4-HA_CONFIG_MISMATCH : DHCP pool [chars] configuration on Active is not matched on the Standby.

Explanation The software has detected a possible DHCP configuration mismatch on the Active and Standby units. Please verify that the configuration on the Standby matches that of the Active.

Recommended Action Resolve the misconfiguration.

%DHCPD-2-HA_INSUFFICIENT_BUFFER : DHCP insufficient buffer; information is not synced to Standby.

Explanation Reason for failure is unknown.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%DHCPD-6-HIGH_UTIL : Pool [chars] is in high utilization state ([int] addresses used out of [int]). Threshold set at [int]%%.

Explanation	The pool's utilization has exceeded the user configured high watermark.
Recommended Action	Examine the DHCP pool and determine if the pool needs more IP addresses than currently allocated.

%DHCPD-6-LOW_UTIL : Pool [chars] is in low utilization state ([int] addresses used out of [int]). Threshold set at [int]%%.

Explanation	The pool's utilization has fallen below the user configured high watermark.
Recommended Action	Examine the DHCP pool and determine if the pool needs more IP addresses than currently allocated.

%DHCPD-3-HA_INIT_FAIL : Function [chars] in DHCP server failed to initialize: [chars]

Explanation	A high availability related function in the DHCP server failed to initialize properly. If you are using a platform with a redundant processor or box-to-box redundancy, DHCP server data may fail to be preserved if the main processor fails forcing use of the standby.
Recommended Action	Please contact the TAC for assistance.

%DHCPD-3-NO_AAA_CONTEXT : AAA configured, but no AAA context in [chars]

Explanation	DHCP is attempting to use AAA to grant a DHCP lease, but no AAA context is associated with the binding
Recommended Action	Please contact the TAC for assistance.

DHCPV6C

%DHCPV6C-3-NOSOCKET : Cannot create DHCPv6 client socket

Explanation	Most likely no IP enabled on any interface or a resource problem within the system.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%DHCPV6C-3-NOPACKET : Cannot setup or duplicate a socket packet

Explanation	Most likely a resource problem within the system.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%DHCPV6C-4-ZEROXID : Calculated DHCPv6 Lease Query xid is zero. Nothing is wrong, just drop the LQv6 msg

Explanation	After multiple tries, the generated LQv6 msg xid is zero by accident. Just drop the LQv6 msg.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

DHCPV6R**%DHCPV6R-3-INVALID_USR_SRCADDR : Invalid user specified source-address [IPV6 address] idb [chars] in ipv6 dhcp relay CLI. Removing user specified invalid address from the CLI and auto-computing source with SAS.**

Explanation	Invalid source-address has been provisioned in the ipv6 relay destination CLI.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%DHCPV6R-3-INVALID_USR_LINKADDR : Invalid user specified link-address [IPV6 address] idb [chars] in ipv6 dhcp relay CLI. Removing user specified invalid address from the CLI.

Explanation	Invalid link-address has been provisioned in the ipv6 relay destination CLI.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

DHCPV6S**%DHCPV6S-3-NOPACKET : Cannot setup or duplicate a DHCPv6 server socket packet**

Explanation	Most likely a resource problem within the system.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%DHCPV6S-3-DBNOTLOADED : Binding database not loaded

Explanation	Fail to load the DHCPv6 binding database.
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%DHCPV6S-3-DBNOTLOADED : Binding database not loaded

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DHCPV6S-3-DBOPEN : Opening [chars]: [chars]

Explanation	Fail to open a DHCPv6 binding database file.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DHCPV6S-3-DBWRITE : Writing file: [chars]

Explanation	Fail to write a DHCPv6 binding database file.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DHCPV6S-3-DBREAD : Reading file: [chars]

Explanation	Fail to read a DHCPv6 binding database file.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

DHCP_SNOOPING**%DHCP_SNOOPING-3-DHCP_SNOOPING_INTERNAL_ERROR : DHCP Snooping internal error, [chars]**

Explanation	A software sanity check failed in the DHCP Snooping process.
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%DHCP_SNOOPING-3-DHCP_SNOOPING_INTERNAL_ERROR : DHCP Snooping internal error, [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DHCP_SNOOPING-4-DHCP_SNOOPING_PVLAN_WARNING : DHCP Snooping configuration may not take effect on secondary vlan [dec]. [chars]

Explanation	If private vlan feature is enabled, DHCP Snooping configuration on primary vlan will automatically propagate to all secondary vlans.
Recommended Action	No action is required.

%DHCP_SNOOPING-4-IP_SOURCE_BINDING_PVLAN_WARNING : IP source filter may not take effect on secondary vlan [dec] where IP source binding is configured. [chars]

Explanation	If private vlan feature is enabled, IP source filter on primary vlan will automatically propagate to all secondary vlans.
Recommended Action	No action is required.

%DHCP_SNOOPING-4-IP_SOURCE_BINDING_NON_EXISTING_VLAN_WARNING : IP source binding is configured on non existing vlan [dec].

Explanation	IP source binding is configured on a non existing vlan.
Recommended Action	Please make sure that the L2 VLAN is configured before configuring a DHCP Snooping Binding. If you see this message even though L2 VLAN is configured in the system, please contact Cisco Technical Assistance Center.

%DHCP_SNOOPING-4-DHCP_SNOOPING_ERRDISABLE_WARNING : DHCP Snooping received [dec] DHCP packets on interface [chars]

Explanation	DHCP Snooping detected a DHCP packet rate limit violation on a particular interface. The interface will be error disabled.
Recommended Action	No action is required.

%DHCP_SNOOPING-4-AGENT_OPERATION_FAILED : DHCP snooping binding transfer failed. [chars]

Explanation	This message provides the reason of failure when a database transfer has failed.
Recommended Action	No action is required.

%DHCP_SNOOPING-4-STANDBY_AGENT_OPERATION_FAILED : DHCP snooping binding transfer failed on the Standby Supervisor. [chars]

Explanation	This message provides the reason of failure when a database transfer has failed on the Standby Supervisor.
Recommended Action	No action is required.

%DHCP_SNOOPING-4-AGENT_OPERATION_FAILED_N : DHCP snooping binding transfer failed([dec]). [chars]

Explanation	This message provides the reason of failure when a database transfer has failed. This log message is rate limited.
Recommended Action	No action is required.

%DHCP_SNOOPING-6-AGENT_OPERATION_SUCCEEDED : DHCP snooping database [chars] succeeded.

Explanation	This message indicates that the given binding transfer has succeeded. This message is logged only once after some failure to indicate that the switch has recovered from failures.
Recommended Action	No action is required.

%DHCP_SNOOPING-6-BINDING_COLLISION : Binding collision. [dec] bindings ignored

Explanation	This message indicates that the given number of bindings from the database file have been ignored when the file is read. The bindings are ignored because the system has a binding for the given mac address and vlan combination by the time the switch read the ignored binding from the file.
Recommended Action	No action is required.

%DHCP_SNOOPING-6-LEASE_EXPIRED : Lease Expired. [dec] bindings ignored.

Explanation This message indicates that the given number of bindings from the database file have been ignored when the file is read. The bindings are ignored because their lease has expired.

Recommended Action No action is required.

%DHCP_SNOOPING-6-INTERFACE_NOT_VALID : Interface not valid. [dec] bindings ignored.

Explanation This message indicates that the given number of bindings from the database file have been ignored when the file is read. The bindings are ignored because the interface indicated by the ignored binding either does not exist in the system or it's a router or dhcp snooping trusted port.

Recommended Action No action is required.

%DHCP_SNOOPING-6-VLAN_NOT_SUPPORTED : Vlan not supported. [dec] bindings ignored.

Explanation This message indicates that the given number of bindings from the database file have been ignored when the file is read. The bindings are ignored because the vlan indicated by the ignored binding no longer exists in the system.

Recommended Action No action is required.

%DHCP_SNOOPING-4-DHCP_SNOOPING_DATABASE_FLASH_WARNING : Saving DHCP snooping bindings to [chars] can fill up your device causing the writes of bindings to device, to fail.

Explanation Saving DHCP Snooping bindings to a flash file system such as bootflash or slot0 could cause the flash to fill up. Possible consequences include the long delay to regain console, write failures for database config, regular squeeze requirements, and reduced life of flash due to regular squeeze operations, etc.

Recommended Action Alternate destination locations for database agent include tftp, ftp, rcp, etc. Please see the help at command line for a complete list of options.

%DHCP_SNOOPING-6-PARSE_FAILURE : Parsing failed for [dec] bindings.

Explanation This message indicates that the given number of bindings from the database file have been ignored when the file is read. The bindings are ignored because of parsing failures.

Recommended Action No action is required.

%DHCP_SNOOPING-4-SSO_SYNC_ACK_ERROR : Error is encountered in processing acknowledgement for DHCP snooping binding sync, [chars]. ack message txn id: [hex]

Explanation This message indicates that there is an error in handling of the dhcp snooping binding sync acknowledgement. In most of these cases, the ack message is ignored.

Recommended Action No action is required.

%DHCP_SNOOPING-4-QUEUE_FULL : Fail to enqueue DHCP packet into processing queue: [chars], the queue is most likely full and packet will be dropped.

Explanation This message indicates that DHCP packets are coming into cpu at a much higher rate than DHCP snooping process can handle them. These unhandled DHCP packets will be dropped to prevent system from denial of service attack.

Recommended Action No action is required.

%DHCP_SNOOPING-4-NTP_NOT_RUNNING : NTP is not running; reloaded binding lease expiration times are incorrect.

Explanation If the DHCP snooping bindings are loaded by the DHCP snooping database agent and NTP is not running, then the calculated lease duration for the bindings will be incorrect.

Recommended Action Configure NTP on the switch to provide an accurate time and date for the system clock. Then disable and re-enable DHCP snooping to clear the bindings database.

%DHCP_SNOOPING-4-NTP_NOT_SYNC : NTP is not sync; reloaded binding lease expiration times are incorrect.

Explanation If the DHCP snooping bindings are loaded by the DHCP snooping database agent and NTP is not sync, then the calculated lease duration for the bindings will be incorrect.

Recommended Action Synchronize NTP on the switch to provide an accurate time and date for the system clock. Then disable and re-enable DHCP snooping to clear the bindings database.

%DHCP_SNOOPING-4-DHCP_SNOOPING_RATE_LIMIT_EXCEEDED : The interface [chars] is receiving more than the threshold set

Explanation This message indicates that a DHCP packets are coming into cpu at a much higher rate than the specified threshold.

Recommended Action No action is required.

%DHCP_SNOOPING-5-DHCP_SNOOPING_UNTRUSTED_PORT : [chars] drop message on untrusted port, message type: [chars], MAC sa: [enet]

Explanation DHCP Snooping discovers certain types of DHCP message not allowed on the untrusted interface, some host maybe trying to act as a DHCP server.

Recommended Action No action is required.

%DHCP_SNOOPING-5-DHCP_SNOOPING_NONZERO_GIADDR : [chars] drop message with non-zero giaddr or option82 value on untrusted port, message type: [chars], MAC sa: [enet]

Explanation DHCP Snooping discovers DHCP packet with certain option value not allowed on the untrusted port, some host maybe trying to act as a DHCP relay or server.

Recommended Action No action is required.

%DHCP_SNOOPING-5-DHCP_SNOOPING_FAKE_INTERFACE : [chars] drop message with mismatched source interface, the binding is not updated, message type: [chars], MAC sa: [enet]

Explanation DHCP Snooping discovers some host is trying to act as another host on the network and trying to carry out a DOS attack on that host.

Recommended Action No action is required.

%DHCP_SNOOPING-5-DHCP_SNOOPING_MATCH_MAC_FAIL : [chars] drop message because the chaddr doesn't match source mac, message type: [chars], chaddr: [enet], MAC sa: [enet]

Explanation DHCP Snooping enables match-source-mac validation and the check is failed. There maybe a malicious host trying to carry out a DOS attack on the DHCP server.

Recommended Action No action is required.

%DHCP_SNOOPING-4-OPTION82_INSERTION_FAIL : The interface [chars] is not able to insert opt82 into the packet because of insufficient space in the packet

Explanation This message indicates that a DHCP packet was not inserted with opt82 data due to insufficient space in the packet.

Recommended Action No action is required.

%DHCP_SNOOPING-4-INVALID_RELEASE_OR_DECLINE_PKT : The interface [chars] has received a DHCP Release/Decline packet with no existing binding entry for it

Explanation This message indicates that a DHCP Release/Decline packet was received with no corresponding binding entry.

Recommended Action No action is required.

DIALER

%DIALER-2-NOSWIDB : No software interface associated with hw interface [chars]

Explanation An internal software error occurred.

Recommended Action Call your technical support representative and report the error message, the system version, and the router configuration. (Use the show version command to obtain the software version.)

%DIALER-2-CIRCUITCOUNT : Dialer count 0 on [chars]

Explanation An internal software error occurred.

Recommended Action LOG_STD_SH_TECH_ACTION

%DIALER-2-NULLPTR : Unexpected null pointer in [chars]

Explanation An internal software error occurred.

Recommended Action LOG_STD_SH_TECH_ACTION

%DIALER-6-BIND : Interface [chars] bound to profile [chars]

Explanation This is a status message indicating that a dialer interface has been bound to a dialer profile.

Recommended Action LOG_STD_NO_ACTION

%DIALER-6-UNBIND : Interface [chars] unbound from profile [chars]

Explanation This is a status message indicating that a dialer interface has been unbound to a dialer profile.

%DIALER-6-UNBIND : Interface [chars] unbound from profile [chars]

Recommended Action LOG_STD_NO_ACTION

%DIALER-4-MTU_WARNING : Current MTU setting of [dec] on [chars] is being overwritten by setting of [dec] defined by [chars].

Explanation This is a warning message indicating that an interface setting is changed based on a dialer rotary group membership.

Recommended Action LOG_STD_NO_ACTION

%DIALER-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation Initialization of the specified subblock data structure could not be accomplished.

Recommended Action LOG_STD_ACTION

DIALER_LIST_PROXY

%DIALER_LIST_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Explanation IPC handler initialization failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DIALER_LIST_PROXY-4-PROXY_IPC_INVALID_MSG : [hex]

Explanation Received an invalid IPC messages subtype.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DIALER_LIST_PROXY-3-PROXY_MEM_EXTEND_FAILED : IPC subtype: [dec]

Explanation add more memory failed.

%DIALER_LIST_PROXY-3-PROXY_MEM_EXTEND_FAILED : IPC subtype: [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DIALER_LIST_PROXY-3-PROXY_IPC_FAILED : [chars] failed to send ipc rc: [int]

Explanation	send ipc failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DIALER_LIST_PROXY-4-PROXY_IPC_INVALID_MSG_LEN : [dec];[dec] len [dec] flags [hex] source [dec]

Explanation	Invalid IPC message length.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DIALER_LIST_PROXY-3-PROXY_ALLOC_PAK_FAILED : alloc pak failed, MSGDEF_LIMIT_MEDIUM

Explanation	alloc pak failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

DIALPEER_DB

%DIALPEER_DB-3-ADDPEER_MEM_THRESHOLD : Addition of dial-peers limited by available memory

Explanation	The available memory does not permit the addition of more dial-peers.
Recommended Action	Increase the processor memory in order to be able to add more dialpeers.

%DIALPEER_DB-6-ADDPEER_WARNING : Addition of too many dial-peers may affect performance

Explanation The number of dial-peers is high. This will have an effect on the dial-peer lookup time, resulting in longer call setup time.

Recommended Action Use the minimum number of dial-peers necessary for your numbering plan.

%DIALPEER_DB-3-ADDPEER_PLATFORM_LIMIT : Addition of dial-peers limited by platform

Explanation This platform does not permit the addition of more dial-peers.

Recommended Action Reduce the number of dial-peers in your numbering plan.

%DIALPEER_DB-3-NOMAP : Could not load dnis-map [chars] url=[chars] errno=[dec]=[chars]

Explanation Could not read in the dnis-map

Recommended Action Check that map exists on the server, and is readable.

%DIALPEER_DB-3-DP_MALLOC_FAIL : Could not allocate memory in [chars] for tag [dec]

Explanation Ran out of memory

Recommended Action Observe why memory is exhausted

%DIALPEER_DB-6-FB_ENTRY_NOT_CREATED : Could not create probe for tag [dec]

Explanation Fallback cache full

Recommended Action Increase Fallback cache size

%DIALPEER_DB-3-DIALPEER_ACCOUNTING : Connections for dial-peer [dec] is negative. Resetting connections to 0.

Explanation Active Connections for dial-peer is negative.

Recommended Action Verify if dial-peers were removed with active calls associated to them and added back while the calls were still connected.

%DIALPEER_DB-3-NODEPMAP : Could not load e164-pattern-map [dec] url=[chars] errno=[dec]=[chars]

Explanation Could not read in the e164-pattern-map**Recommended Action** Check that map exists on the server, and is readable.

%DIALPEER_DB-3-NOE164TRANSURL : Could not load e164-translation [dec] url=[chars] error=[chars]([dec])

Explanation Could not get the voice class e164-translation url data file**Recommended Action** Check that url data file exists on the server, and is readable.

DLC

%DLC-3-BADPARAM : Function [chars]: value [hex] passed in parameter [chars]

Explanation An internal software error occurred.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLC-2-NOMEMORY : no memory for [chars]

Explanation There was not enough free memory to complete the operation.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLC-3-WPUTERR : unknown port type [hex]

Explanation An internal software error occurred.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLC-3-INVPCEP : Close Station, invalid P_CEP

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

DLEP_MSG through DOT1X

- [DLEP_MSG](#)
- [DLEP_SET_MSG](#)
- [DLINK](#)
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DLEP_MSG

%DLEP_MSG-4-CONNECT_ERROR : TCP connect to Radio [IP_address] failed via [chars]. Error code: [chars]

Explanation	TCP Connect to IP address and port of the Radio failed.
Recommended Action	Take action based on the error code shown. Reconfigure correct IP address and port, if necessary.

DLEP_SET_MSG

%DLEP_SET_MSG-6-DLEP_HEARTBEAT_THRESHOLD : new Threshold value configured will have effect for the new sessions only not for the currently running DLEP sessions

Explanation	If the threshold value should be updated at Router side, it must be configured before the Radio launch
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%DLEP_SET_MSG-6-DLEP_HEARTBEAT_THRESHOLD : new Threshold value configured will have effect for the new sessions only not for the currently running DLEP sessions

Recommended Action Once the DLEP session is established and if you want to change the threshold value kill the Radio and reconfigure the dlep on Router interface and make the Radio UP to see the updated threshold value

%DLEP_SET_MSG-6-DLEP_NBR_ACTIVITY_TIMEOUT : new nbr-activity-timeout value configured will have effect for the new sessions only not for the currently running DLEP sessions

Explanation If the nbr-activity-timeout value should be updated at Router side it must be configured before the Radio launch

Recommended Action Once the DLEP session is established and if you want to change the nbr-activity-timeout value kill the Radio and reconfigure the dlep on Router interface and make the Radio UP to see the updated value

%DLEP_SET_MSG-6-DLEP_NBR_DOWN_ACK_TIMEOUT : new nbr-down-ack-timeout value configured will have effect for the new sessions only not for the currently running DLEP sessions

Explanation If the nbr-down-ack-timeout value should be updated at Router side, it must be configured before the Radio launch

Recommended Action Once the DLEP session is established and if you want to change the nbr-down-ack-timeout value kill the Radio and reconfigure the dlep on Router interface and make the Radio UP to see the updated Value

%DLEP_SET_MSG-6-DLEP_PEER_TERMINATE_ACK_TIMEOUT : new peer-terminate-ack-timeout value configured will have effect for the new sessions only not for the currently running DLEP sessions

Explanation If the peer-terminate-ack-timeout value should be updated Router side it must be configured before the Radio launch

Recommended Action Once the DLEP session is established and if you want to change the peer-terminate-ack-timeout value, kill the Radio and reconfigure the dlep on Router interface and make the Radio UP to see the updated value

DLINK

%DLINK-3-BAD_QELEM : Bad queue elem - [hex]: flink [hex], blink [hex] , flink->blink [hex], blink->flink [hex]

Explanation An internal software error occurred.

%DLINK-3-BAD_QELEM : Bad queue elem - [hex]: flink [hex], blink [hex] , flink->blink [hex], blink->flink [hex]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLINK-3-NULL_QELEM : Null queue elem

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

DLSWC

%DLSWC-3-NODLSW : [chars] [dec]

Explanation A data-link switching system error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWC-3-IDMGR : [chars]

Explanation A data-link switching system error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWC-3-NOPEER : [chars]

Explanation A data-link switching system error occurred.

%DLSWC-3-NOPEER : [chars]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWC-3-BADPEEROP : bad peer op in peer_to_core [dec]

Explanation A data-link switching system error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWC-3-BADSSPHDR : bad ssp hdr in proc ssp - [chars] = [hex]

Explanation A Silicon Switch Processor (SSP) header received from the remote peer contains errors in one of the fields.

Recommended Action If the remote peer is a nonCisco router, confirm that it supports the DLSw RFC 1795 standard.

%DLSWC-3-BADCLSIIND : [chars] Invalid indication [chars], [chars]

Explanation A data-link switching system error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWC-3-BADCLSIRET : [chars] Invalid ret code ([hex]) [chars], [chars]

Explanation A data-link switching system error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWC-3-BADCLSICNF : [chars] Invalid confirm [chars] [chars]

Explanation	A data-link switching system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWC-3-BADCLSI : [chars] primitive not valid for dls w [chars] [chars]

Explanation	A data-link switching system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWC-3-BADCLSIAP : [chars] Bad clsi SAP id = [hex] [chars]

Explanation	A data-link switching system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWC-3-SENDSSP : SSP OP = [dec]([chars]) [chars] to [chars] [chars]

Explanation	A Silicon Switch Program (SSP) frame was sent to the remote peer.
Recommended Action	No action is required.

%DLSWC-3-RECVSSP : SSP OP = [dec]([chars]) [chars] from [chars]

Explanation	A Silicon Switch Program (SSP) frame was received from the remote peer.
Recommended Action	No action is required.

DLSWMasterSlave**%DLSWMasterSlave-3-DLSWMS : [chars]**

Explanation	DLSw Master-Slave Error
Recommended Action	No action is required.

%DLSWMasterSlave-3-DLSWMSCSM : [chars], [chars]

Explanation	DLSw Master-Slave Error
Recommended Action	No action is required.

%DLSWMasterSlave-3-DLSWMSFSM : [chars]: [chars] from [enet]

Explanation	DLSw Master-Slave Error
Recommended Action	No action is required.

%DLSWMasterSlave-3-DLSWMSTX : [chars]: [chars] to [enet]

Explanation	DLSw Master-Slave Error
Recommended Action	No action is required.

%DLSWMasterSlave-3-DLSWMSDLX : [chars] [hex] from [enet]

Explanation	DLSw Master-Slave Error
Recommended Action	No action is required.

%DLSWMasterSlave-3-DLSWMSAP : [chars]: [chars]

Explanation	DLSw Master-Slave Error
Recommended Action	No action is required.

%DLSWMasterSlave-3-DLSWMSRCV : [chars] from [enet]

Explanation DLSw Master-Slave Error**Recommended Action** No action is required.

DLSWP

%DLSWP-3-PGENERAL : [chars]

Explanation A general error condition was detected as described in the message text. This error should not cause any network problems unless it happens repeatedly.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWP-3-PNOMEM : No memory to [chars]

Explanation The router ran out of system memory for operation, as described in the message text. Most likely, the router image requires more system memory (RAM) than the router contains.**Recommended Action** Consult with your Cisco technical support representative about memory requirements for a specific image.

%DLSWP-3-PPASSIVE : passive open failed from [IP_address]([dec]) -> [dec]

Explanation The system does not have enough main memory (RAM) for TCP to allocate the data structures required to accept an incoming TCP connection. Most likely, the router image requires more system memory (RAM) than the router contains.**Recommended Action** Consult with your Cisco technical support representative about memory requirements for a specific image.

%DLSWP-3-PBADVALUE : [chars]: invalid [chars] [dec]

Explanation A bad parameter value was passed to function chars1 - invalid parameter chars2 with value. This error should not cause any network problems unless it happens repeatedly.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DLSWP-3-PCAPMISMATCH : [chars]: [chars]

Explanation Priority keyword was used on one router but not on the other. The priority keyword is an option on the DLSW remote peer definition. If priority keyword is used on one router, it must be used on the other.

Recommended Action If you wish to use prioritization, use it on both routers.

%DLSWP-3-PLFCHANGE : [chars] [dec]; [chars]

Explanation The largest frame size configured in the DLSW remote peer definition is being changed because the MTU size configured on the interface, used by DLSW, is less than the configured value of the largest frame on DLSW remote peer definition. The largest frame size is being changed to that configured on the interface.

Recommended Action If you wish to use this largest frame size for DLSW, increase the MTU on the interface to a value larger than the configured largest frame size.

%DLSWP-3-PNOCOOKIE : uninitialized peer [chars] from [IP_address]([dec]) to [IP_address]([dec])

Explanation DLSw received a packet on an uninitialized peer connection.

Recommended Action Verify configuration and DLSw peer status on both routers.

%DLSWP-5-PEERUPDOWN : [chars] [chars]

Explanation A DLSW peer is either connected or disconnected

Recommended Action None, informational message only.

%DLSWP-3-PEERFAILURE : [chars] [chars]

Explanation A DLSW peer failed: - keepalive failure, dlsw between cisco peers is sending a peer keepalive by default every 30 sec. After missing 3 consecutive keepalives the peer is taken down. - We are not promiscuous, Rej conn from peer a.b.c.d The local dlsw peer is not configured for promiscuous and we receive a request to open a dlsw peer for which we have no corresponding dlsw remote peer statement. - received tcp fini, dlsw peer code has received a tcp fini from the underlying tcp subsystem. To obey the tcp fini dlsw wring bring down the peer connection for which the tcp fini was received.

Recommended Action - keepalive failure Check end to end connectivity between the DLSW peers - We are not promiscuous, Rej conn from peer a.b.c.d correct your configuration. - received tcp fini, Check the underlying tcp connection between the two dlsw peers.

DMI**%DMI-3-MEM_UNAVAIL :**

Explanation	Insufficient system memory is available to perform the DMI action.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%DMI-5-CONFIG_I :

Explanation	A change to the running configuration was performed using NETCONF or RESTCONF.
Recommended Action	Informational only. No action required.

%DMI-5-SYNC_COMPLETE :

Explanation	An external change (outside of NETCONF or RESTCONF) has been detected thus, the running-config has been sent to ConfD to
Recommended Action	Informational only. No action required.

%DMI-3-SYNC_FAIL :

Explanation	An external change (outside of NETCONF or RESTCONF) has been detected. An attempt to send the running-config to ConfD to repopulate its data store has failed.
Recommended Action	Force a full sync via the 'sync-from' RPC.

%DMI-5-SYNC_START :

Explanation	An external change (outside of NETCONF or RESTCONF) has been detected thus, the running-config will be sent to ConfD to
Recommended Action	Informational only. No action required.

%DMI-5-SYNC_NEEDED :

Explanation	A configuration change that may trigger additional changes has been detected thus, the running-config will be sent to ConfD to
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%DMI-5-SYNC_NEEDED :

Recommended Action Informational only. No action required.

%DMI-3-DIFF_FAIL :

Explanation An operating system error occurred while performing a diff of two files and redirecting to a third file.

Recommended Action Check free space on device. Clean up if necessary. Also, reducing the value of max-diag-messages-saved in the cisco-ia model may help.

%DMI-3-SAVE_FAIL :

Explanation An operating system error occurred while opening or writing to a diagnostic file.

Recommended Action Check free space on device. Clean up if necessary. Also, reducing the value of max-diag-messages-saved in the cisco-ia model may help.

%DMI-3-CLI_ENGINE_WRITE_FAIL :

Explanation A CLI engine error occurred while send a command line to the network element's CLI parser

Recommended Action Enter the command line in question manually via the network element's console or vty. If successful, stop and restart netconf-yang and retry.

%DMI-3-INTERNAL_ERROR :

Explanation An unexpected internal error has occurred.

Recommended Action Consult man page for impacted area to interpret the error code and string.

%DMI-3-DIR_EXISTS :

Explanation A existing file is conflicting with a directory name.

Recommended Action Remove or rename the offending file.

%DMI-3-CDB_START_FAIL :

Explanation A Confd error has occurred attempting to open the DMI data store.

%DMI-3-CDB_START_FAIL :

Recommended Action Stop and restart netconf-yang.

%DMI-3-CDB_SET_NAMESPACE_FAIL :

Explanation A Confd error has occurred attempting to set a specific model namespace for accessing the DMI data store.

Recommended Action Stop and restart netconf-yang.

%DMI-3-CDB_READ_FAIL :

Explanation A Confd error has occurred attempting to read a specific model path from the DMI data store.

Recommended Action Download the model in question from the network element and verify the path exists. Update the model if needed.

%DMI-3-CLI_ENGINE_CONNECT_FAIL :

Explanation DMI cannot connect to the network element in order to interact with its CLI parser.

Recommended Action Check the CLI engine protocol settings.

%DMI-2-CDB_MAN_SUB_FAIL :

Explanation A Confd error has occurred attempting to mark DMI as a mandatory subscriber

Recommended Action Stop and restart netconf-yang.

%DMI-2-NESD_CREATE_FAIL :

Explanation Either an out-of-memory condition has been encountered, or the DMI CLI engine cannot connect to the network element.

Recommended Action Stop and restart netconf-yang.

%DMI-4-SUB_READ_FAIL :

Explanation	A Confd error has occurred attempting to read the subscription socket.
Recommended Action	DMI will reset. No action necessary.

%DMI-3-CDB_SYNC_FAIL :

Explanation	A Confd error has occurred attempting to sync the subscription socket.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-CDB_ABORT_FAIL :

Explanation	A Confd error has occurred attempting to abort a transaction.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-4-CONTROL_SOCKET_CLOSED :

Explanation	The control socket connection to Confd has closed unexpectedly.
Recommended Action	DMI will reset. No action necessary.

%DMI-2-CONTROL_SOCKET_ERROR :

Explanation	The control socket connection to Confd has returned an error.
Recommended Action	DMI will reset. No action necessary.

%DMI-2-WORKER_SOCKET_CLOSED :

Explanation	The worker socket connection to Confd has closed unexpectedly.
Recommended Action	DMI will reset. No action necessary.

%DMI-2-WORKER_SOCKET_ERROR :

Explanation	The worker socket connection to Confd has returned an error.
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%DMI-2-WORKER_SOCKET_ERROR :

Recommended Action DMI will reset. No action necessary.

%DMI-2-NOTIFICATION_READ_FAIL :

Explanation An attempt to read an event from the Confd notification socket failed.
Recommended Action DMI will reset. No action necessary.

%DMI-2-CLI_CHANNEL_CLOSED :

Explanation The CLI engine event channel to the network element closed unexpectedly.
Recommended Action DMI will reset. No action necessary.

%DMI-3-CLI_GEN_FAIL :

Explanation A Confd error has occurred when requesting the CLI change set for a transaction.
Recommended Action Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-4-CLI_ROLLBACK_WARN :

Explanation A Confd induced CLI transaction was aborted and during the rollback CLIs, an error was returned
Recommended Action Confirm that the network element's running configuration is in the original state before the failed transaction

%DMI-4-NETCONF_TRACE_WARN :

Explanation An error occurred saving the Netconf trace information.
Recommended Action Please enable netconfTraceLog in Confd. Check for free file system space.

%DMI-4-CONFD_ROLLBACK_WARN :

Explanation An error occurred saving the Confd rollback information.

%DMI-4-CONFD_ROLLBACK_WARN :

Recommended Action Please enable rollback in Confd. Check for free file system space.

%DMI-4-DIAG_WARN :

Explanation An error occurred saving DMI message diagnostics.

Recommended Action Check for free file system space.

%DMI-2-NESD_INIT_FAIL :

Explanation The nesd daemon failed to initialize.

Recommended Action Stop and restart netconf-yang.

%DMI-2-SD_INIT_FAIL :

Explanation The syncfd daemon failed to initialize.

Recommended Action Stop and restart netconf-yang.

%DMI-2-NESD_PREHOOK_INIT_FAIL :

Explanation The nesd daemon failed to initialize its component-specific add-ons.

Recommended Action Stop and restart netconf-yang.

%DMI-2-MAAPI_CONNECT_FAIL :

Explanation A Confd error has occurred attempting to connect via MAAPI socket.

Recommended Action Stop and restart netconf-yang.

%DMI-3-MAAPI_SAVE_FAIL :

Explanation A Confd error has occurred attempting to save a model path via MAAPI.

Recommended Action Stop and restart netconf-yang.

%DMI-3-MAAPI_START_USER_FAIL :

Explanation	A Confd error has occurred attempting to start a user session via MAAPI.
Recommended Action	Stop and restart netconf-yang.

%DMI-3-MAAPI_START_TRANS_FAIL :

Explanation	A Confd error has occurred attempting to start a transaction via MAAPI.
Recommended Action	via MAAPI. Stop and restart netconf-yang.

%DMI-3-MAAPI_DELETE_FAIL :

Explanation	A Confd error has occurred attempting to delete a model path via MAAPI.
Recommended Action	Stop and restart netconf-yang.

%DMI-3-MAAPI_LOAD_FAIL :

Explanation	A Confd error has occurred attempting to load commands to a model path via MAAPI.
Recommended Action	Stop and restart netconf-yang.

%DMI-3-MAAPI_LOAD_FILE_FAIL :

Explanation	A Confd error has occurred attempting to load commands from a file via MAAPI.
Recommended Action	Stop and restart netconf-yang.

%DMI-3-MAAPI_APPLY_TRANS_FAIL :

Explanation	A Confd error has occurred attempting to apply a transaction via MAAPI.
Recommended Action	via MAAPI. Stop and restart netconf-yang.

%DMI-3-MAAPI_FINISH_TRANS_FAIL :

Explanation A ConfD error has occurred attempting to finish a transaction via MAAPI.
Recommended Action via MAAPI. Stop and restart netconf-yang.

%DMI-3-MAAPI_LOCK_FAIL :

Explanation A ConfD error has occurred attempting to lock the DMI data store via MAAPI.
Recommended Action Stop and restart netconf-yang.

%DMI-3-MAAPI_UNLOCK_FAIL :

Explanation A ConfD error has occurred attempting to unlock the DMI data store via MAAPI.
Recommended Action Stop and restart netconf-yang.

%DMI-3-SYNC_LOCK_FAIL :

Explanation A ConfD error has occurred attempting to lock the DMI data store via MAAPI.
Recommended Action Stop and restart netconf-yang.

%DMI-3-SYNC_UNLOCK_FAIL :

Explanation A ConfD error has occurred attempting to unlock the DMI data store via MAAPI.
Recommended Action Stop and restart netconf-yang.

%DMI-4-CLI_UNLOCK_FAIL :

Explanation An IOS parser error has occurred attempting to unlock the parser lock.
Recommended Action Retry NETCONF operation.

%DMI-4-CLI_LOCK_FAIL :

Explanation An IOS parser error has occurred attempting to obtain a configuration parser lock.

%DMI-4-CLI_LOCK_FAIL :

Recommended Action Retry NETCONF operation.

%DMI-2-MAAPI_WAIT_FAIL :

Explanation Confd did not initialize properly.
Recommended Action Back out any recent yang model updates. Stop and restart netconf-yang.

%DMI-2-CONFD_INIT_FAIL :

Explanation Confd did not initialize properly.
Recommended Action Back out any recent yang model updates. Stop and restart netconf-yang.

%DMI-2-CONFD_CONNECT_FAIL :

Explanation A DMI application cannot connect to Confd via a particular socket type.
Recommended Action Stop and restart netconf-yang.

%DMI-2-CONFD_SUB_FAIL :

Explanation A DMI application cannot subscribe for changes to a particular yang model.
Recommended Action Back out any recent model updates. Stop and restart netconf-yang.

%DMI-2-CONFD_SUB_DONE_FAIL :

Explanation A DMI application cannot complete subscriptions for changes to yang models.
Recommended Action Back out any recent model updates. Stop and restart netconf-yang.

%DMI-2-CONFD_CB_REG_FAIL :

Explanation A DMI application cannot register a particular callback with Confd.
Recommended Action Stop and restart netconf-yang.

%DMI-2-CONFD_CB_REG_DONE_FAIL :

Explanation	A DMI application cannot complete callback registration with Confd.
Recommended Action	Stop and restart netconf-yang.

%DMI-2-NES_RESET_FAIL :

Explanation	The network element synchronizer daemon cannot reset in order to recover from a critical error.
Recommended Action	Stop and restart netconf-yang.

%DMI-2-SD_RESET_FAIL :

Explanation	The syncfd daemon cannot reset in order to recover from a critical error.
Recommended Action	Stop and restart netconf-yang.

%DMI-2-CHG_VRF_FAIL :

Explanation	The DMI application failed to set the correct virtual routing and forwarding network thus, it cannot communicate with Confd.
Recommended Action	Stop and restart netconf-yang.

%DMI-3-CLI_ENGINE_EVENT_FAIL :

Explanation	DMI cannot retrieve its CLI engine event in order to interact with the network element CLI parser.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-CLI_ENGINE_LOG_LVL_FAIL :

Explanation	DMI cannot set its CLI engine logging level.
Recommended Action	Stop and restart DMI.

%DMI-3-CLI_ENGINE_READ_FAIL :

Explanation	DMI cannot read its CLI engine results in order to interact with the network element CLI parser.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-CLI_ENGINE_READ_EVENT_FAIL :

Explanation	DMI cannot read its CLI engine event in order to interact with the network element CLI parser.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. If problem continues, stop and restart netconf-yang

%DMI-3-CLI_ENGINE_POLL_FAIL :

Explanation	DMI cannot read its CLI engine results in order to interact with the network element CLI parser.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. If problem continues, stop and restart netconf-yang

%DMI-4-CLI_ENGINE_STATE_FAIL :

Explanation	DMI cannot read its CLI engine state.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. If problem continues, stop and restart netconf-yang

%DMI-3-CLI_ENGINE_VTY_CREATE_FAIL :

Explanation	The DMI CLI engine cannot create a VTY instance.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%DMI-3-CLI_ENGINE_VTY_OPEN_FAIL :

Explanation	The DMI CLI engine cannot open a VTY.
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%DMI-3-CLI_ENGINE_VTY_OPEN_FAIL :

Recommended Action	Free up available VTY resources by closing unused VTYS. Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. If problem continues, stop and restart netconf-yang
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%DMI-4-CLI_ENGINE_RC_FAIL :

Explanation	DMI cannot read CLI engine return code for the particular command.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. If problem continues, stop and restart netconf-yang

%DMI-3-MODEL_RESTORE_FAIL :

Explanation	DMI failed to restore the model '%s' from the network element's running configuration to the DMI data store.
Recommended Action	Check the netconf-yang section of the network element's running configuration. If populated with non-default values, stop and restart netconf-yang. If problem continues, restore the model's configuration in question via Netconf

%DMI-3-VTY_NUM_FAIL :

Explanation	DMI must keep track of its tty number it uses to send command lines to the network element's parser in order to avoid triggering its own sync events
Recommended Action	Check that the 'show users line' command line is working

%DMI-3-CLI_ENGINE_VTY_TIMEOUT_FAIL :

Explanation	DMI disables the VTY timeout for the network element synchronizer's VTY connection to ensure its number cannot be silently claimed by other VTY sessions.
Recommended Action	None required

%DMI-3-CLI_ENGINE_RECONNECT_FAIL :

Explanation	The CLI engine has lost its connection to the network element and attempted to reconnect with an error occurred.
Recommended Action	Stop and restart netconf-yang.

%DMI-4-CLI_ENGINE_ENABLE_FAIL :

Explanation	DMI cannot enter privileged mode when communicating with the network element's CLI parser.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration. Check AAA settings for the Netconf/Restconf user account.

%DMI-3-CLI_ENGINE_CONNECT_LOSS :

Explanation	DMI has lost connection to the network element.
Recommended Action	No action necessary.

%DMI-3-SYNC_CLI_FILTER_CREAT_FAIL :

Explanation	DMI cannot create a CLI filter to monitor for external CLI changes.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-SYNC_CLI_FILTER_MODE_FAIL :

Explanation	DMI cannot set the mode for its CLI filter to monitor for external CLI changes.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-SYNC_CLI_FILTER_ADD_FAIL :

Explanation	DMI cannot add a CLI filter to monitor for external CLI changes.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-SYNC_SYSLOG_FILTER_CREAT_FAIL :

Explanation	DMI cannot create a syslog filter to monitor for external CLI changes.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-SYNC_SYSLOG_FILTER_ADD_FAIL :

Explanation	DMI cannot add a syslog filter to monitor for external CLI changes.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-SYNC_MODULE_CHECK_ADD_FAIL :

Explanation	DMI cannot add a module up check to monitor for module up status.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-SYNC_OIR_FILTER_CREAT_FAIL :

Explanation	DMI cannot create an OIR filter to monitor for OIR induced configuration changes.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-SYNC_OIR_FILTER_ADD_FAIL :

Explanation	DMI cannot add an OIR filter to monitor for OIR induced configuration changes.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-INIT_SYNC_FAIL :

Explanation	DMI failed to synchronize the network element's running configuration with the DMI data store upon DMI startup.
Recommended Action	Perform a manual sync operation to ensure the DMI data store is in sync with the network element's running configuration.

%DMI-3-LOAD_SCHEMAS_FAIL :

Explanation	DMI failed to load Confd schemas for yang model namespaces.
Recommended Action	Back out any recent yang model updates. Stop and restart netconf-yang.

%DMI-3-VTY_SERVER_CREAT_FAIL :

Explanation	Failed to create VTY server utility instance for DMI operational data use.
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%DMI-3-VTY_SERVER_CREAT_FAIL :

Recommended Action Stop and restart netconf-yang.

%DMI-3-VTY_SERVER_START_FAIL :

Explanation Failed to start VTY server utility instance for DMI operational data use.
Recommended Action Stop and restart netconf-yang.

%DMI-2-VTY_SERVER_RESET_FAIL :

Explanation Failed to reset VTY server utility in order to recover from critical error.
Recommended Action Stop and restart netconf-yang.

%DMI-3-INVALID_PRESERVE_PATH :

Explanation A non-existent XPath has been specified to be preserved during complete syncs.
Recommended Action Remove the offending path from the /native/cisco-ia/preserve-ned-path list.

%DMI-7-GEN_DEBUG :

Explanation A debug message for syslog consumption. For troubleshooting without btrace
Recommended Action Not applicable

%DMI-2-NETCONF_SSH_CRITICAL :

Explanation A critical message from the NETCONF SSH daemon.
Recommended Action Not applicable

%DMI-3-NETCONF_SSH_ERROR :

Explanation An error message from the NETCONF SSH daemon.
Recommended Action Not applicable

%DMI-6-NETCONF_SSH_INFO :

Explanation	An informational message from the NETCONF SSH daemon.
Recommended Action	Not applicable

%DMI-3-INVALID_REG_EXP :

Explanation	An invalid regular expression has been specified which will not compile.
Recommended Action	Remove the offending regular expression from the specified model or via o CLI.

%DMI-3-EDIT_REJECTED :

Explanation	A NETCONF running datastore edit request occurred simultaneously with a database synchronization operation. Thus, the request has been rejected.
Recommended Action	Retry the NETCONF edit again later.

%DMI-5-AUTH_PASSED :

Explanation	A user authenticated successfully and was authorized for a service.
Recommended Action	No action is required.

%DMI-5-AUTHENTICATION_FAILED :

Explanation	A user failed to authenticate.
Recommended Action	No action is required.

%DMI-5-AUTHORIZATION_FAILED :

Explanation	A user was not authorized for the requested service.
Recommended Action	No action is required.

%DMI-3-AUTH_TIMED_OUT :

Explanation	A AAA request timed out.
Recommended Action	Check connectivity to the configured AAA server.

%DMI-3-MAAPI_KILL_SESSION_FAIL :

Explanation	A parser lock timeout has occurred, and DMI attempted to kill the session holding the global lock, but failed.
Recommended Action	Kill the NETCONF user session holding the global lock manually.

%DMI-3-NETCONF_KILL_SESSION :

Explanation	A parser lock timeout has occurred, and DMI has killed the corresponding NETCONF session.
Recommended Action	Establish a new NETCONF session. Adjust your application to hold global locks for a shorter interval -- seconds, not minutes

%DMI-5-NACM_INIT :

Explanation	The running-config under the /nacm tree has been set to its initial configuration.
Recommended Action	No action is required.

%DMI-5-INITIALIZED :

Explanation	process has initialized.
Recommended Action	Informational only. No action required.

%DMI-5-ACTIVE :

Explanation	process is in steady state.
Recommended Action	Informational only. No action required.

%DMI-5-RESET :

Explanation	process internal state reset.
Recommended Action	Informational only. No action required.

%DMI-4-CLI_LOCK_OVERRIDE :

Explanation	An IOS parser lock has been cleared to avoid conflict with NETCONF session.
Recommended Action	Retry CLI operation after NETCONF session completes.

%DMI-4-CDB_MAINTENANCE_MODE :

Explanation	A Cisco-support only NETCONF mode has been enabled as a recovery mechanism for an out-of-sync condition.
Recommended Action	Disable this mode in order to return the device to normal NETCONF operation.

DNET

%DNET-4-MAPCON : Map entry [dec].[dec] conflicts with adjacency to [dec].[dec]

Explanation	Your DECnet configuration is incorrect. A host that is specified as nonlocal is present on your local network.
Recommended Action	Correct the configuration. Call your technical support representative if you need assistance.

%DNET-3-HEARSELF : Hello type [hex] for my address from [dec].[dec] via [chars]

Explanation	The system is receiving its own DECnet packets. Either a serial line is looped back or another host with the same DECnet address is already present on the LAN.
Recommended Action	Check the serial lines (if present) and the DECnet configuration.

%DNET-3-NOMEMORY : Insufficient memory for DECnet accounting entry

Explanation	The traffic information for a particular pair of DECnet nodes cannot be recorded due to a low memory condition.
Recommended Action	LOG_STD_REDUCE_ACTION

%DNET-4-DUPENTRY : Duplicate DECnet Accounting List Entry for nodes [dec].[dec] - [dec].[dec]

Explanation A synchronization problem has occurred whilst a new transit DECnet Accounting List Entry was being added and a duplicate entry has been found.

Recommended Action LOG_STD_SH_CMD_ACTION(show decnet accounting)

DOSFS

%DOSFS-5-DIBERR : [chars] [chars]

Explanation The system cannot boot a image from the Flash disk because the Device Information Block is different. The Flash disk can be read by the router, but will require formatting by the router before an image can be booted from it.

Recommended Action Follow any instructions provided in the error message. Before storing a image in the Flash disk and trying to boot from this device, enter the format command to format the flash disk from the router. Then copy the desired image to the Flash disk and then boot from this device.

%DOSFS-3-RESETEERR : [chars] [chars]

Explanation disk could not be reset while the system is initiated reload. This will cause a transient disk error, disk timeout error, when the ROMMON initialization code tries to reads the DIB. This is a transient error and the system will be able to access the disk and continue normal operation.

Recommended Action No action is required.

%DOSFS-5-DFS_CLOSE_ERR : Error during close of the file [chars]. [chars]

Explanation An error ocured during a file close operation.

Recommended Action Enter the **fsck filesystem prefix:** command to check and attempt to repair the disk. If this does not fix the problem, format the disk.

%DOSFS-4-DFS_FSCK_ERR : Error while running fsck on the file [chars].

Explanation Fsk is running in a loop while walking through the cluster chain of a file and has aborted.

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

DOT1X**%DOT1X-5-SUCCESS :**

Explanation	Dot1x authentication was successful.
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Recommended Action	No action is required.
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%DOT1X-5-FAIL :

Explanation	Dot1x authentication was unsuccessful.
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Recommended Action	No action is required.
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%DOT1X-5-RESULT_OVERRIDE :

Explanation	Authentication result was overridden
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Recommended Action	No action is required.
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%DOT1X-3-PROC_START_ERR :

Explanation	The system failed to create the Dot1x process.
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Recommended Action	Restart Dot1x process by entering <code>dot1x system-auth-control</code> command. If this message recurs, Reload the device.
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%DOT1X-3-UNKN_ERR :

Explanation	The Dot1x process cannot operate due to an internal system error.
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Recommended Action	Reload the device/process
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%DOT1X-4-MEM_UNAVAIL :

Explanation	Insufficient system memory is available to perform the Dot1x Authentication.
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Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.
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%DOT1X-4-INFO_EAPOL_PING_RESPONSE :

Explanation	An EAPOL ping was sent out on this port to determine 802.1x readiness of the client attached. An EAPOL response has been received by the device such as a PC.
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Recommended Action	No action required.
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%DOT1X-5-IGNORE_LARGER_EAPOL :

Explanation	Targetted EAPOL packet size is larger than mtu size of the port on which client is connected and hence ignoring the packet to be sent out
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Recommended Action	Configure AAA server to fragmentation eap-method data so that EAPOL size is smaller than interface MTU size
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DOT1X_SWITCH through DSPDUMP

- [DOT1X_SWITCH](#)
- [DPSS](#)
- [DRIP](#)
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DOT1X_SWITCH

%DOT1X_SWITCH-4-PROC_START_ERR : Unable to start dot1x switch process.

Explanation	The system failed to create the Dot1x switch process.
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Recommended Action	Reload the device
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%DOT1X_SWITCH-5-ERR_VLAN_NOT_FOUND : Attempt to assign non-existent or shutdown VLAN [chars] to 802.1x port [chars] AuditSessionID [chars]

Explanation An attempt was made to assign a VLAN to an 802.1x port, but the VLAN was not found in the VTP database.

Recommended Action Make sure the VLAN exists and is not shutdown or use another VLAN.

%DOT1X_SWITCH-5-ERR_VLAN_RSPAN : Attempt to assign RSPAN VLAN [chars] to 802.1x port [chars]. 802.1x is incompatible with RSPAN AuditSessionID [chars]

Explanation An attempt was made to assign a Remote SPAN VLAN to an 802.1x port. Remote SPAN should not be enabled on a VLAN in which ports are configured with 802.1x enabled.

Recommended Action Either disable Remote SPAN configuration on the VLAN OR disable 802.1x on all the ports in this VLAN.

%DOT1X_SWITCH-5-ERR_VLAN_EQ_VVLAN : Data VLAN [chars] on port [chars] cannot be equivalent to the Voice VLAN AuditSessionID [chars]

Explanation An attempt was made to assign a data VLAN to an 802.1x port that is the same as the voice VLAN.

Recommended Action Change either the Voice VLAN or the access/802.1x assigned VLAN on the interface so they are not equal anymore. This will cause the authentication to proceed normally on the next retry.

%DOT1X_SWITCH-5-ERR_VLAN_INTERNAL : Attempt to assign internal VLAN [chars] to 802.1x port [chars] AuditSessionID [chars]

Explanation An attempt was made to assign an invalid VLAN to an 802.1x port. The VLAN specified is used internally and cannot be assigned to this port.

Recommended Action Update the configuration not to use this VLAN.

%DOT1X_SWITCH-5-ERR_VLAN_RESERVED : Attempt to assign reserved VLAN [chars] to 802.1x port [chars] AuditSessionID [chars]

Explanation An attempt was made to assign an invalid VLAN to an 802.1x port. The VLAN specified is a reserved VLAN and cannot be assigned to this port.

Recommended Action Update the configuration not to use this VLAN.

%DOT1X_SWITCH-5-ERR_VLAN_INVALID : Attempt to assign invalid VLAN [chars] to 802.1x port [chars] AuditSessionID [chars]

Explanation An attempt was made to assign an invalid VLAN to an 802.1x port. The VLAN specified is out of range and cannot be assigned to this port.

Recommended Action Update the configuration to use a valid VLAN.

%DOT1X_SWITCH-5-ERR_INVALID_SEC_VLAN : Attempt to assign invalid secondary VLAN [chars] to PVLAN host 802.1x port [chars] AuditSessionID [chars]

Explanation An attempt was made to assign a non-secondary VLAN to a PVLAN host 802.1x port.

Recommended Action Change the mode of the port so that it is no longer a PVLAN host port or use a valid secondary VLAN.

%DOT1X_SWITCH-5-ERR_INVALID_PRIMARY_VLAN : Attempt to assign primary VLAN [chars] to 802.1x port [chars] AuditSessionID [chars]

Explanation An attempt was made to assign a primary VLAN to an 802.1x port, which is not allowed.

Recommended Action Update the configuration to use a different VLAN.

%DOT1X_SWITCH-5-ERR_PRIMARY_VLAN_NOT_FOUND : Attempt to assign VLAN [chars], whose primary VLAN does not exist or is shutdown, to 802.1x port [chars] AuditSessionID [chars]

Explanation An attempt was made to assign a private VLAN whose primary VLAN does not exist or is shutdown.

Recommended Action Make sure the primary VLAN exists and is not shutdown. Also verify that the private VLAN is associated with a primary VLAN.

%DOT1X_SWITCH-5-ERR_VLAN_ON_ROUTED_PORT : Attempt to assign VLAN [chars] to routed 802.1x port [chars] AuditSessionID [chars]

Explanation An attempt was made to assign a VLAN to a routed 802.1x port, which is not allowed.

Recommended Action Change the mode of the port so that it is no longer a routed port or change the configuration so that no VLAN is assigned.

%DOT1X_SWITCH-5-ERR_VLAN_PROMISC_PORT : Attempt to assign VLAN [chars] to promiscuous 802.1x port [chars] AuditSessionID [chars]

Explanation An attempt was made to assign a VLAN to a promiscuous 802.1x port, which is not allowed.

Recommended Action Change the mode of the port so that it is no longer a promiscuous port or change the configuration so that no VLAN is assigned.

%DOT1X_SWITCH-5-ERR_SEC_VLAN_INVALID : Attempt to assign secondary VLAN [chars] to non-PVLAN host 802.1x port [chars] AuditSessionID [chars]

Explanation An attempt was made to assign a secondary VLAN to a port that is not a PVLAN host port, which is not allowed.

Recommended Action Change the mode of the port so that it is configured as a PVLAN host port or use a different VLAN that is not configured as a secondary VLAN.

%DOT1X_SWITCH-5-ERR_SPAN_DST_PORT : Attempt to assign VLAN [chars] to 802.1x port [chars], which is configured as a SPAN destination AuditSessionID [chars]

Explanation An attempt was made to assign a VLAN to an 802.1x port which is configured as a SPAN destination port

Recommended Action Change the SPAN configuration so that the port is no longer a SPAN destination port or change the configuration so that no VLAN is assigned.

%DOT1X_SWITCH-5-ERR_ADDING_ADDRESS : Unable to add address [enet] on [chars] AuditSessionID [chars]

Explanation The authenticated host's address could not be added. This is likely because either the TCAM is full or the address exists as a secure address on another port.

Recommended Action If the TCAM is full, clear some dynamic addresses to make room for the host's address. If the host's address is secured on another port, manually remove it from that port.

%DOT1X_SWITCH-5-ERR_VLAN_EQ_MDA_INACTIVE : Multi-Domain Authentication cannot activate because Data and Voice VLANs are the same on port AuditSessionID [chars]

Explanation Multi-Domain Authentication host mode cannot activate if the configured Data VLAN on a port is the same as Voice VLAN.

Recommended Action Change either the Voice VLAN or the access VLAN on the interface so they are not equal anymore. This will cause Multi-Domain authentication to activate.

DPSS**%DPSS-3-MEM_INIT_FAILED : Allocation of [chars] memory failed for DPSS**

Explanation DPSS Initialization of channel pool failed.

Recommended Action LOG_STD_ACTION

%DPSS-3-PKT_REPLICA_INIT_FAILED : Register to Generic Packet Replication failed for DPSS

Explanation DPSS Initialization of packet replication registration failed.

Recommended Action LOG_STD_ACTION

%DPSS-3-DPSS_INIT_FAILED : DPSS [chars] Register failed

Explanation DPSS Initialization of registration failed.

Recommended Action LOG_STD_ACTION

%DPSS-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]

Explanation For a request from upper DPSS software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%DPSS-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation For a request from upper DPSS software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%DPSS-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation Registering an IPC message handler for the DPSS feature failed. This will cause the feature to not function.

%DPSS-2-IPC_INIT : IPC message handler registration failure, rc [int]

Recommended Action	This is normally a software issue. The consequences are that the DPSS feature will not function. LOG_STD_ACTION
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DRIP

%DRIP-3-DRIPFAIL : DRIP: Assertion failed: [chars]

Explanation	An internal software error has occurred.
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Recommended Action	LOG_STD_ACTION
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%DRIP-6-DRIP_CONFLICT : DRIP conflict with CRF [dec].

Explanation	A DRIP conflict has occurred. The virtual ring or pseudo ring's CRF is being re-used in the network.
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Recommended Action	Make sure that the CRF vlanid of the virtual ring and the pseudo ring is unique in the network.
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DRP

%DRP-3-SUBNETTED : unable to determine metric for [IP_address], [IP_address] subnetted

Explanation	A software or hardware error occurred.
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%DRP-7-NORROUTE : no route for destination [IP_address]

Explanation	A software or hardware error occurred.
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%DRP-3-NOWRITE : unable to send response to [IP_address]:[dec]

Explanation	A software or hardware error occurred.
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%DRP-3-MULTICOMMAND : multiple DRP commands encountered

Explanation	Multiple DRP commands were found in a single DRP packet.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%DRP-3-NOSOCKET : Unable to open socket

Explanation	The requested operation could not be accomplished because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

DS0_DUMP

%DS0_DUMP-3-MALLOC_PROC_MEM : Process memory allocation failed for PCM capture: size [hex].

Explanation	The free process memory in the system is not enough for the PCM capture session.
Recommended Action	Refer to the user guide for the estimation of process memory needed for PCM capture. Do 'show memory' to make sure there is enough memory before PCM capture starts.

%DS0_DUMP-3-INIT_FAIL : DS0 PCM Tracer is not initialized.

Explanation	DS0 dump process can't be initialized.
Recommended Action	Make sure there is enough memory in the system and IOS is properly installed.

%DS0_DUMP-3-PCM_TRACER_RUNNING : A previous session of PCM capture is in progress.

Explanation	Can't start new PCM capture session since there is one going on now.
Recommended Action	Make sure there is no other PCM capture session going on before start the new capture.

%DS0_DUMP-3-PCM_TRACE_NOT_SUPPORTED : PCM Trace/ds0 dump is not supported on slot [int].

Explanation	Can't execute this command on the slot number specified.
Recommended Action	Refer to the user guide for which slot ds0 dump is supported on.

%DS0_DUMP-3-PCM_TRACE_START_FAILED : PCM capture start failed.

Explanation Failed to start the ds0 dump in the TDM driver.

Recommended Action Make sure there is no hardware defect and there is no other ds0 dump/test tdm dump session going on.

%DS0_DUMP-6-PCM_TRACE_STARTED : PCM capture started.

Explanation

Recommended Action

%DS0_DUMP-6-PCM_TRACE_RSP_STARTED : module start PCM capture for [dec]/[dec]/[dec]/[dec]

Explanation

Recommended Action

%DS0_DUMP-6-PCM_TRACE_RSP_STOPPED : module stop or complete PCM capture for [dec]/[dec]/[dec]/[dec]

Explanation

Recommended Action

%DS0_DUMP-6-PCM_TRACE_RSP_ERROR : module fail and terminate the pcm capture for [dec]/[dec]/[dec]/[dec]

Explanation

Recommended Action

%DS0_DUMP-6-PCM_TRACE_RSP_UNKNOWN : module send unkonwn pcm capture response [dec] for [dec]/[dec]/[dec]/[dec]

Explanation

Recommended Action

%DS0_DUMP-6-PCM_TRACE_STOPPING : stopping PCM capture

Explanation**Recommended
Action**

%DS0_DUMP-6-PCM_TRACE_STOP_FAILED : failed to stop PCM capture

Explanation**Recommended
Action**

%DS0_DUMP-6-PCM_TRACER_NOT_RUNNING : no PCM capture is in progress.

Explanation**Recommended
Action**

DSA_PROXY

%DSA_PROXY-3-PROXY_MEM_EXTEND_FAILED :

Explanation Extending memory failed.**Recommended
Action** LOG_STD_ACTION

%DSA_PROXY-4-PROXY_IPC_INVALID_MSG_LEN : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Invalid IPC message length.**Recommended
Action** LOG_STD_ACTION

%DSA_PROXY-3-PROXY_IPC_INVALID_PARAM :

Explanation IPC Invalid parameters.**Recommended
Action** LOG_STD_ACTION

%DSA_PROXY-4-PROXY_IPC_INVALID_MSG :

Explanation	Invalid IPC message
Recommended Action	LOG_STD_ACTION

%DSA_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Explanation	IPC handler initialization failed.
Recommended Action	LOG_STD_ACTION

%DSA_PROXY-3-PROXY_DEBUG_REG_FAILED :

Explanation	DSA Conditional Debugging registration failed.
Recommended Action	LOG_STD_ACTION

%DSA_PROXY-3-PROXY_IPC_SEND_CLEAR_FAILED : [dec]

Explanation	DSA clear ip cache failed.
Recommended Action	LOG_STD_ACTION

%DSA_PROXY-3-PROXY_IPC_SEND_UNINIT_FAILED : [dec]

Explanation	DSA Send UNINIT IPC failed.
Recommended Action	LOG_STD_ACTION

%DSA_PROXY-3-PROXY_IPC_SEND_INIT_FAILED : [dec]

Explanation	Send initialization IPC failed.
Recommended Action	LOG_STD_ACTION

%DSA_PROXY-3-PROXY_UNINIT_FAILED :

Explanation	UNINIT cleanup failed.
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%DSA_PROXY-3-PROXY_UNINIT_FAILED :

Recommended Action LOG_STD_ACTION

%DSA_PROXY-3-PROXY_IPC_ALLOC_FAILED :

Explanation Generating IPC failed.
Recommended Action LOG_STD_ACTION

%DSA_PROXY-3-PROXY_CHUNK_CLEAR_FAILED :

Explanation Chunk clear failed.
Recommended Action LOG_STD_ACTION

%DSA_PROXY-3-PROXY_CHUNK_CREATION_FAILED :

Explanation Chunk creation failed.
Recommended Action LOG_STD_ACTION

%DSA_PROXY-3-PROXY_LOW_MEM_REQ_FAILED :

Explanation Send low mem IPC failed.
Recommended Action LOG_STD_ACTION

%DSA_PROXY-3-PROXY_RETURN_MEM_FAILED :

Explanation return mem IPC failed.
Recommended Action LOG_STD_ACTION

%DSA_PROXY-3-PROXY_NO_IP_POOL_MEM :

Explanation IP Cache pool is not allocated.
Recommended Action LOG_STD_ACTION

%DSA_PROXY-3-PROXY_TBL_INIT_FAILED :

Explanation IP Cache table init failed.**Recommended Action** LOG_STD_ACTION

%DSA_PROXY-3-PROXY_IP_CLEAR_FAILED : [dec]

Explanation IP Cache clear failed.**Recommended Action** LOG_STD_ACTION

%DSA_PROXY-3-PROXY_IP_CLEAR_TO_FAILED : [dec] [dec]

Explanation IP Cache clear failed.**Recommended Action** LOG_STD_ACTION

DSM

%DSM-6-SESSION_DATABASE_FAILED : Cannot create DSM session database

Explanation Failed to create DSM session.**Recommended Action** Check the size of free memory to make sure there is enough memory.

%DSM-3-MSGSNDFAIL : channel:[chars] DSP ID:[hex] Message ID:[hex]

Explanation A message could not be sent to the DSP. The session continued but may have experienced problems.**Recommended Action** Contact your technical support representative, include the full text of the error message.

%DSM-3-NOEVENT : no free event structure available from [chars] for DSM message

Explanation There were no event structures remaining in the system pools to alert the router of a voice or signaling event.**Recommended Action** Contact your technical support representative, include the full text of the error message.

%DSM-3-DSPALARM : channel [chars], DSP ID [hex]: status=[hex] message=[hex] text=[chars]

Explanation The DSP reported a fatal error. All sessions on the DSP were dropped and a DSP reload was attempted.

Recommended Action Contact your technical support representative, include the full text of the error message.

%DSM-3-DSP_TIMEOUT : DSP timeout on channel [chars], event [hex]: DSP ID=[hex]: [chars]

Explanation Timeout on DSP response.

Recommended Action The DSP has been automatically reset. If problem persists, contact your technical support representative

%DSM-3-INTERNAL : Internal Error : [chars]

Explanation DSM Internal error

Recommended Action Contact your technical support representative

DSMP

%DSMP-6-SESSION_DATABASE_FAILED : Cannot create DSMP session database

Explanation Failed to create DSMP session.

Recommended Action Check the size of free memory to make sure there is enough memory.

%DSMP-3-MSGSENDFAIL : channel:[chars] DSP ID:[hex] Message ID:[hex]

Explanation A message could not be sent to the DSP. The session continued but may have experienced problems.

Recommended Action Contact your technical support representative, include the full text of the error message.

%DSMP-3-NOEVENT : no free event structure available from [chars] for DSMP message

Explanation There were no event structures remaining in the system pools to alert the router of a voice or signaling event.

Recommended Action Contact your technical support representative, include the full text of the error message.

%DSMP-3-DSPALARM : Alarm on DSP [chars]: status=[hex] message=[hex] text=[chars]

Explanation The DSP reported a fatal error. All sessions on the DSP were dropped and a DSP reload was attempted.

Recommended Action Contact your technical support representative, include the full text of the error message.

%DSMP-3-DSP_TIMEOUT : DSP timeout on DSP [chars]: event [hex], [chars]

Explanation Timeout on DSP response.

Recommended Action The DSP has been automatically reset. If problem persists, contact your technical support representative

%DSMP-3-INTERNAL : Internal Error : [chars]

Explanation DSMP Internal error

Recommended Action Contact your technical support representative

%DSMP-4-WARNING : Warning : [chars]

Explanation Resource temporarily not available

Recommended Action Contact your technical support representative if condition lasts

%DSMP-3-INVALID_EVENT : Unhandled event: current state:[chars] event:[chars]

Explanation The event is not handled in the DSMP gateway state machine specification

Recommended Action Contact your technical support representative

%DSMP-3-SUBSYS_UNINITIALIZED : Internal Error : [chars]

Explanation DSMP Subsystem not initialized

Recommended Action Contact your technical support representative

%DSMP-3-PRG_ERROR : Programming Error : [chars]

Explanation	Programing error in DSMP subsys
Recommended Action	Contact your technical support representative

%DSMP-3-NOLICENSE : [chars]:No License available, Tivan Recording could not be Triggered

Explanation	There are no recording license remaining in the license pool
Recommended Action	Check your configuration for smart license availability

DSP

%DSP-5-UPDOWN : DSP [dec] is [chars]

Explanation	DSP device changed state up/down
Recommended Action	No action is required.

%DSP-5-DNLD : DNLD started for device [dec]

Explanation	DSP bootloader DNLD starte
Recommended Action	No action is required.

%DSP-3-FIRMWARE_VER_INFO : Downloading streamware... for device [dec]. DSP firmware(ver:[int].[int]) contained in image has different version from the firmware(ver:[int].[int]) in harddisk or bootflash

Explanation	DSP firmware version check
Recommended Action	No action is required.

%DSP-3-DSP_DNLD : DSP device [dec] DNLD process exited. Trying to recover DSP device by rebooting the DSP

Explanation	A DSP device on DSP-SPA is not responding. The error message indicates the slot, subslot, the SPA type and the name of the hardware device.
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%DSP-3-DSP_DNLD : DSP device [dec] DNLD process exited. Trying to recover DSP device by rebooting the DSP

Recommended Action Software will try to recover by reloading the failed DSP. If the problem persists then perform OIR of the SPA located in the specified subslot. Before removing the SPA, enter the **hw-module subslot stop** command. Remove the SPA, wait 5 seconds, and reinsert the SPA. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show diag** command, contact your Cisco technical support representative and provide the representative with the gathered information.

%DSP-3-TIMER : [chars] timer expired for DSP [dec]

Explanation DSP timer has expired

Recommended Action No action is required.

%DSP-3-DSP_WATCHDOG : DSP device [dec] is not responding. Trying to recover DSP device by reloading

Explanation A DSP device on DSP-SPA is not responding. The error message indicates the slot, subslot, the SPA type and the name of the hardware device.

Recommended Action Software will try to recover by reloading the failed DSP. If the problem persists then perform OIR of the SPA located in the specified subslot. Before removing the SPA, enter the **hw-module subslot stop** command. Remove the SPA, wait 5 seconds, and reinsert the SPA. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show diag** command, contact your Cisco technical support representative and provide the representative with the gathered information.

%DSP-3-DSP_ALARM : DSP device [dec] is not responding. Trying to recover DSP device by reloading

Explanation A DSP device on DSP-SPA is not responding. The error message indicates the slot, subslot, the SPA type and the name of the hardware device.

Recommended Action Software will try to recover by reloading the failed DSP. If the problem persists then perform OIR of the SPA located in the specified subslot. Before removing the SPA, enter the **hw-module subslot stop** command. Remove the SPA, wait 5 seconds, and reinsert the SPA. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show diag** command, contact your Cisco technical support representative and provide the representative with the gathered information.

%DSP-3-DSP_KEEPALIVE : DSP device [dec] is not responding. Trying to recover DSP device by reloading

Explanation	A DSP device on DSP-SPA is not responding. The error message indicates the slot, subslot, the SPA type and the name of the hardware device.
Recommended Action	Software will try to recover by reloading the failed DSP. If the problem persists then perform OIR of the SPA located in the specified subslot. Before removing the SPA, enter the hw-module subslot stop command. Remove the SPA, wait 5 seconds, and reinsert the SPA. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the show diag command, contact your Cisco technical support representative and provide the representative with the gathered information.

DSPDUMP**%DSPDUMP-5-DUMPSTART : DSP [dec] ([hex]) in slot [dec] starting dump**

Explanation	The DSP resource is beginning crash dump collection
Recommended Action	No action is required.

%DSPDUMP-5-RX_CONTROL_DROP : DSP [dec] in slot [dec] Rx Control Message Dropped by DSP

Explanation	The DSP has reported that a Rx Control Message was dropped
Recommended Action	No action is required.

%DSPDUMP-5-TX_CONTROL_DROP : DSP [dec] in slot [dec] Tx Control Message Dropped by DSP

Explanation	The DSP has reported that a Tx Control Message was dropped
Recommended Action	No action is required.

DSPFARM through DYNCMD

- [DSPFARM](#)
- [DSPRM](#)
- [DSPU](#)
- [DSP_SPA](#)
- [DSS](#)

- [DSX](#)
- [DTLS](#)
- [DTP](#)
- [DUAL](#)
- [DYNCMD](#)

DSPFARM

%DSPFARM-3-ERROR : Errors on DSPFARM module [chars]

Explanation	Errors on DSPFARM module
Recommended Action	Check sh dspfarm all

%DSPFARM-4-WARNING : Warning on DSPFARM module [chars]

Explanation	Warning on DSPFARM module
Recommended Action	Check sh dspfarm all

%DSPFARM-4-NOTICE : Failure on DSPFARM module [chars]

Explanation	Failure on DSPFARM module
Recommended Action	Check sh dspfarm

%DSPFARM-4-INFO : Info on DSPFARM module [chars]

Explanation	Info on DSPFARM module
Recommended Action	Check sh dspfarm

DSPRM

%DSPRM-5-UPDOWN : DSP [dec] in slot [dec], changed state to [chars]

Explanation	The DSP resource changed state.
Recommended Action	No action is required.

%DSPRM-5-UP_DOWN : DSP [dec] in subslot [chars], changed state to [chars]

Explanation	The DSP resource changed state.
Recommended Action	No action is required.

%DSPRM-5-KEEPALIVE : DSP [dec] in slot [chars], NOT RESPONDING - auto restart([dec] times)

Explanation	The DSP failed the background keep-alive test.
Recommended Action	No action is required.

%DSPRM-3-INSUFFICIENT : Insufficient DSP resources for timeslot [dec] on port [chars]

Explanation	The configuration requires more DSP resources than are available.
Recommended Action	Change the configuration to specify fewer used timeslots. Install additional DSP resources to allow more complex configurations.

%DSPRM-3-INSUFFICIENT_DSP : voice-port : [chars] Not initialized due to insufficient DSP resources

Explanation	More DSP resources are needed to initialize the analog voice-port
Recommended Action	Install additional DSP resources to allow voice-port initialization

%DSPRM-5-DSPFAIL : DSP [dec] in slot [chars], is in the failed state

Explanation	The DSP entered the FAILED state due to alarm indications.
Recommended Action	Replace the DSP resource.

%DSPRM-5-DSPMSGFAIL : Failed to get dsprm msg for msg id [chars]

Explanation	Unable to get dsprm control message
Recommended Action	No action is required.

%DSPRM-5-JUKEBOX : Jukebox transmit overlay resp [dec] on slot [chars], failed

Explanation	The Jukebox received failed response code.
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%DSPRM-5-JUKEBOX : Jukebox transmit overlay resp [dec] on slot [chars], failed

**Recommended
Action**

%DSPRM-5-JUKEBOX_UPDOWN : DSP Jukebox([dec]) in slot [chars], changed state to [chars]

Explanation The DSP JUKEBOX changed state.

**Recommended
Action** No action is required.

%DSPRM-5-SETCODEC : Configured codec [dec] is not supported with this dsp image.

Explanation Codec negotiation failed.

**Recommended
Action**

%DSPRM-2-DSPALARM : Received alarm indication from dsp ([dec]/[dec]). Resetting the DSP.

Explanation Fatal error detected in DSP.

**Recommended
Action** contact your technical support representative.

%DSPRM-3-DSPALARMINFO : [chars]

Explanation DSP Alarm Data

**Recommended
Action**

%DSPRM-5-NULLIDB_CREATE_FAIL : VoIP Null IDB creation failed.

Explanation VoIP nullidb creation failed.

**Recommended
Action**

%DSPRM-2-FORKFAIL : Process creation of [chars] failed.

Explanation Failed to create the process.

%DSPRM-2-FORKFAIL : Process creation of [chars] failed.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DSPRM-5-DSP_VIC_CONFIG_NAK : Received VIC config NAK from DSP([dec]/[dec]), resetting the DSP.

Explanation	Received NAK message from DSP. Re-attempt initialization.
Recommended Action	No action is required.

DSPU

%DSPU-3-CLSIBadLength : CLSI bad length, header= [chars]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-CLSIBadPrimitiveType : CLSI bad primitive type, header= [chars]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-CLSIBadPrimitiveCmd : CLSI bad primitive command, header= [chars]

Explanation	An internal software error occurred.
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%DSPU-3-CLSIbadPrimitiveCmd : CLSI bad primitive command, header= [chars]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-CLSIbadIdentifierType : CLSI bad identifier type, header= [chars]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-CLSIbadIdentifier : CLSI bad identifier, header= [chars]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-CLSIbadReturnCode : CLSI bad return code: [dec], header= [chars]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-CLSIUnexpctActSapCnf : CLSI unexpected ActivateSapCnf, header= [chars]

Explanation An internal software error occurred.

%DSPU-3-CLSIUnexpctActSapCnf : CLSI unexpected ActivateSapCnf, header= [chars]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-CLSIUnexpctDeactSapCnf : CLSI unexpected DeactivateSapCnf, header= [chars]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-CLSIUnexpctIdStnInd : CLSI unexpected IdStnInd, header= [chars]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-CLSIUnexpctEnableCnf : CLSI unexpected EnableCnf, header= [chars]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-CLSIBadAdptCorr : CLSI bad Adaptor correlator, header= [chars]

Explanation An internal software error occurred.

%DSPU-3-CLSIBadAdptCorr : CLSI bad Adaptor correlator, header= [chars]

Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DSPU-3-DSPU_BufferCorrupted : DSPU could not free buffer - buffer corrupted

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DSPU-3-UnknownXid : XID Format not supported, XID= [chars]

Explanation	Unsupported XID received from the remote station; connection with remote station could not be established.
Recommended Action	Configure the remote station to send supported XID (if possible). Supported XID formats are: XID Format 0 XID Format 3

%DSPU-3-LSXIDNegotiationError : XID Negotiation Error, bad byte= [dec], bad bit= [dec], sense data= [chars]

Explanation	XID3 with an error indication was received from the remote station; connection with the remote station could not be established.
Recommended Action	Determine, from the CV 22 byte or bit information, which field in the XID3 is rejected by the remote station, and correct the link station configuration parameters at either the router or the remote station.

%DSPU-3-LSNoACTPUCapability : Connection attempt failed from XID= [chars], ACTPU not supported

Explanation	The remote station did not request PU 2.0 activation; connection with remote station is terminated.
Recommended Action	Correct link station configuration parameters at the remote station to request a system services control point (SSCP)-PU session with the router.

%DSPU-3-LSInvalidMaxIFrame : Connection attempt failed from XID= [chars], Invalid MaxIFrame= [dec]

Explanation An invalid MaxIFrame value in an exchange identification (XID) was received from the remote station; connection with remote station could not be established.

Recommended Action Correct link station configuration at the remote station.

%DSPU-3-LSInvalidWindowSize : Connection attempt failed from XID= [chars], Invalid WindowSize= [dec]

Explanation An invalid WindowSize value in an exchange identification (XID) was received from the remote station; connection with remote station could not be established.

Recommended Action Correct link station configuration at the remote station.

%DSPU-3-LSConnOutToHostFailed : Connect out to host [chars] failed.

Explanation Connection with the remote host could not be established.

Recommended Action Verify host configuration parameters at the router and at the host. Determine whether the host is active and responding to connection requests.

%DSPU-3-LSConnOutToPuFailed : Connect out to pu [chars] failed.

Explanation Connection with the remote PU could not be established.

Recommended Action Verify PU configuration parameters at the router and at the remote PU. Determine whether the remote PU is active and responding to connection requests.

%DSPU-3-LSConnInFromHostFailed : Connect in from host [chars] with remote address [chars] failed.

Explanation Connection with the remote host could not be established.

Recommended Action Verify host configuration parameters at the router and at the host. Determine whether the router is configured to accept connection from this host.

%DSPU-3-LSConnInFromPuFailed : Connect in from pu [chars] with remote address [chars] failed.

Explanation Connection with the remote PU could not be established.

Recommended Action Verify PU configuration parameters at the router and at the remote PU. Determine whether the router is configured to accept connectIn from this remote PU.

%DSPU-3-LSConnInFailed : Connect in from remote address [chars] failed.

Explanation	Connection with remote station could not be established.
Recommended Action	Verify configuration parameters at the router and at the remote station. Determine whether the router is configured to accept connectIn from this remote station.

%DSPU-3-LSConnInFailedNoMem : Connect in from remote address [chars] failed; insufficient memory.

Explanation	Connection with the remote station could not be established because of insufficient memory in the router.
Recommended Action	Correct low memory problem in the router. If the problem persists, call your technical support representative for assistance.

%DSPU-3-SnaBadData : Bad SNA data received from PU [chars], data= [chars]

Explanation	Unrecognized SNA data was received from the remote PU.
Recommended Action	Correct the problem at the remote PU. If the problem persists, call your Cisco technical support representative for assistance.

%DSPU-3-ActpuNegResponse : ACTPU Neg rsp received from PU [chars]

Explanation	Remote PU rejected the router's request for an SSCP-PU session.
Recommended Action	Verify PU configuration parameters at the router and at the remote PU. Determine whether the problem exists at the remote PU, and correct it. If the problem persists, call your Cisco technical support representative for assistance.

%DSPU-3-NotifyNegResp : LU [dec] received a Notify Neg Resp from host [chars]

Explanation	Remote host rejected the router's request to activate/deactivate an SSCP-LU session.
Recommended Action	Verify host configuration parameters at the router and at the remote host. Determine whether the problem exists at the remote host and correct it. If the problem persists, call your technical support representative for assistance.

DSP_SPA**%DSP_SPA-2-INITFAIL : Not Enough Resources:[chars]**

Explanation	The shared port adaptor failed to complete software initialization.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%DSP_SPA-3-BUFF_FAIL : Not Enough MEM Buffers [chars]

Explanation	Not enough memory buffers for shared port adaptor operation.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%DSP_SPA-3-FILE_OP_FAIL : Failed to open file [chars] : [chars]

Explanation	Failed to open file
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%DSP_SPA-3-FILE_RD_FAIL : Failed to read [int] bytes from file: [chars]

Explanation	Failed to read data from file
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%DSP_SPA-3-NULL_FAIL : Non-Initialized ptr: [chars]

Explanation	About to Access non-initialized pointer
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%DSP_SPA-3-HW_ERROR : [chars]: A Hardware device error was detected. Trying to recover the SPA by reload. Error information : [chars]

Explanation	An internal hardware device error has occurred on the services SPA. The error message indicates the slot, subslot, the SPA type and the name of the hardware device. The SPA has been deactivated and reactivated to resolve the problem. If the error occurs more than five times within an hour, no further attempts to reactivate the SPA will be made. This message is likely due to an unrecoverable hardware failure.
Recommended Action	Perform OIR of the SPA located in the specified subslot. Before removing the SPA, enter the hw-module subslot stop command. Remove the SPA, wait 5 seconds, and reinsert the SPA. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the show diag command, contact your Cisco technical support representative and provide the representative with the gathered information.

%DSP_SPA-3-HW_ERROR_INFO : [chars]: Non fatal hardware device error was detected. Error information : [chars]

Explanation An internal hardware device error has occurred on the services SPA. The error message indicates the slot, subslot, the SPA type and the name of the hardware device. This message is likely due to a recoverable hardware failure.

Recommended Action Perform OIR of the SPA located in the specified subslot. Before removing the SPA, enter the **hw-module subslot stop** command. Remove the SPA, wait 5 seconds, and reinsert the SPA. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show diag** command, contact your Cisco technical support representative and provide the representative with the gathered information.

DSS

%DSS-5-UPDOWN : DSP core [dec] is [chars]

Explanation DSP core changed state up/down

Recommended Action No action is required.

%DSS-3-ACK_FAIL : Ack failed for dsp_id [dec], seq_no [dec]

Explanation DSP core not responding to host messages

Recommended Action No action is required.

%DSS-3-DSPID_INVALID : Invalid DSPID [dec]

Explanation Invalid DSP ID detected in the message

Recommended Action No action is required.

%DSS-3-TIMER : [chars] timer expired for DSPID [dec]

Explanation DSS timer has expired

Recommended Action No action is required.

DSX

%DSX-4-ALARM : [chars] [chars]: [chars]

Explanation	The specified T1/E1 or T3/E3 Alarm has been asserted or cleared
Recommended Action	The recommended action is to isolate and repair the source of the asserted alarm

DTLS

%DTLS-3-REPLAY_ERROR_DTLS : DTLS anti-replay error, src_addr: %Ci, src_port: [dec], dest_addr: %Ci, dst_port: [dec], MSGDEF_LIMIT_GLACIAL

Explanation	Anti-replay error is encountered for this DTLS session.
Recommended Action	LOG_STD_ACTION

%DTLS-3-REPLAY_ERROR_IPV6_DTLS : DTLS anti-replay error, ipv6 src_addr: %Ci, src_port: [dec], ipv6 dest_addr: %Ci, dst_port: [dec], MSGDEF_LIMIT_GLACIAL

Explanation	Anti-replay error is encountered for this DTLS session.
Recommended Action	LOG_STD_ACTION

DTP

%DTP-4-MEM_UNAVAIL : Memory was not available to perform the trunk negotiation action

Explanation	Unable to negotiate trunks because of a lack of memory
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%DTP-4-UNKN_ERR : An unknown operational error occurred

Explanation	Unable to negotiate trunks because an internal operation generated an error which was not expected to ever happen.
Recommended Action	Because of the unexpected nature of the problem, the only recommended action is to reload the device

%DTP-5-TRUNKPORTON : Port [chars] has become [chars] trunk

Explanation The specified port has changed from being an access port to a trunk port using the specified encapsulation.

Recommended Action

%DTP-5-NONTRUNKPORTON : Port [chars] has become non-trunk

Explanation The specified port has changed from being a trunk port to an access port.

Recommended Action

%DTP-5-TRUNKPORTCHG : Port [chars] has changed from [chars] trunk to [chars] trunk

Explanation The specified trunk port has changed the encapsulation type it uses.

Recommended Action

%DTP-5-ILGLCFG : Illegal config(on,isl--on,dot1q) on [chars]

Explanation The two ports on the link are set to the ON mode, but one is set to 802.1Q encapsulation, while the other is set to ISL encapsulation. When both ports on a link are set to the ON mode, their encapsulation types must match.

Recommended Action Configure both ports on the link to have the same encapsulation.

%DTP-4-TMRERR : An internal timer error occurred when trunking on interface [chars]

Explanation There might be some instances in which a timer used by the trunking protocol expires at a time when it is unexpected. This problem is corrected internally.

Recommended Action There is likely no long-term ramifications from this problem. However, if further problems with trunking are seen, it is recommended that you reload the device.

%DTP-5-DOMAINMISMATCH : Unable to perform trunk negotiation on port [chars] because of VTP domain mismatch.

Explanation The two ports involved in trunk negotiation belong to different VTP domains. Trunking is possible only when the ports involved belong to the same VTP domain.

Recommended Action Ensure that the two ports that are involved in trunk negotiation belong to the same VTP domain.

DUAL**%DUAL-3-SIA : Route [chars] stuck-in-active state in [chars] [dec]. Cleaning up**

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-NOMATCH : Nexthop and infosource don't match. N = [chars], I = [chars]

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-NOHANDLE : Handle [dec] is not allocated in pool.

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-LINKSTILLUP : Link [dec] [chars] still exists on [chars]

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-LINKSEXIST : Interface [chars] going down and [dec] links exist

Explanation	An interface is going down or is being removed from routing through IGRP, but not all links (neighbors) have been removed from the topology table.
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%DUAL-3-LINKSEXIST : Interface [chars] going down and [dec] links exist

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DUAL-3-BADCOUNT : Route [chars], [dec] successors, [dec] rdbs

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-6-EVENT : [chars], [chars]

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-NOSOCKET : Unable to open socket for AS [dec]

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-NOBUFFER : No buffers available for [int] byte packet

Explanation	The DUAL software was unable to allocate a packet buffer. The system may be out of memory.
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%DUAL-3-NOBUFFER : No buffers available for [int] byte packet

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DUAL-3-UNKTIMER : Unknown timer type [dec] expiration

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-REFCOUNT : Negative reccount in pakdesc [hex]

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-MULTIFLOW : Flow control error, [chars], on [chars]

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-PEERSEXIST : [dec] peers exist on IIDB [chars]

Explanation	A software or hardware error occurred.
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%DUAL-3-PEERSEXIST : [dec] peers exist on IIDB [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-ANCHORCOUNT : Anchor count negative

Explanation A software or hardware error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-5-NBRCHANGE : [chars] [dec]: Neighbor [chars] ([chars]) is [chars]: [chars]

Explanation A neighbor went up or down.

Recommended Action No action is required.

%DUAL-6-NBRINFO : [chars] [dec]: Neighbor [chars] ([chars]) is [chars]: [chars]

Explanation Information regarding a neighbor.

Recommended Action No action is required.

%DUAL-3-RDBLEFT : Lingering DRDB deleting IIDB, dest [chars], nexthop [chars] ([chars]), origin [chars]

Explanation A software or hardware error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DUAL-3-INTERNAL : [chars] [dec]: Internal Error

Explanation A software or hardware error occurred.

%DUAL-3-INTERNAL : [chars] [dec]: Internal Error

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DUAL-4-PFXLIMITTHR : [chars] [dec]: [chars] threshold prefix level([int]) reached.

Explanation	Number of prefixes in the topology database has reached the configured or default threshold level.
Recommended Action	Take preventive action by identifying the source of the prefixes. Use show ip eigrp accounting for details.

%DUAL-3-PFXLIMIT : [chars] [dec]: [chars] prefix limit reached([int]).

Explanation	Number of prefixes for eigrp has reached the configured or default limit.
Recommended Action	Use show ip eigrp accounting for details on the source of the prefixes and take corrective measures.

%DUAL-3-BADIGRPSAP : Cannot send incremental SAP update to peer on [chars]. tlncreasing output-sap-delay may help

Explanation	An incremental SAP update could not be sent, because this might cause the SAP tables between peers to become out of synch.
Recommended Action	Increase the output SAP delay on the listed interface to reduce buffer usage. If, after changing the delay the message remains, copy the error message exactly as it appears and report it to your technical support representative.

%DUAL-3-BADIGRPSATYPE : Unsupported SAP type for EIGRP being [chars] - type [hex]

Explanation	There are two types of service access points (SAPs)-general queries and general responses. This message is sent when you receive or attempt to send an SAP with a type code which is not a general query or a general response. It is also sent when you receive a general query not addressed to the broadcast address.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative. If possible, also provide the output of the debug ipx sap activity and debug ipx sap event commands for the period during which this message appeared.

DYNCMD**%DYNCMD-3-MSGDISPATCHNULL : Received NULL TDL message**

Explanation	An unexpected condition in which IOS has received a NULL TDL message for Dynamic Commands.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-MSGDISPATCH : Unable to dispatch received TDL messages for Dynamic Commands

Explanation	An unexpected condition has occurred while IOS is trying to dispatch to the TDL message handler functions for received TDL messages for Dynamic Commands.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-MSGMISSINGFIELD : Missing field '[chars]' in TDL message '[chars]' received from the Shell Manager

Explanation	A message missing a required field was received from the Shell Manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-MSGINVALIDFIELDINT : Invalid field '[chars]' in TDL message '[chars]' received: value '[int]' for Dynamic Commands

Explanation	A message with an invalid field value was received for Dynamic Command creation
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-MSGINVALIDFIELDSTR : Invalid field '[chars]' value '[chars]' in TDL message '[chars]' received for Dynamic Commands

Explanation	A message with an invalid field value was received for Dynamic Command creation
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-MSGERROR : Error '[chars]' handling a received TDL message '[chars]' for Dynamic Commands

Explanation	An unexpected condition has occurred while IOS is processing a received Dynamic Command TDL message
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-MSGBUILDERROR : Error '[dec]' building TDL message '[chars]' to send to the Shell Manager

Explanation	An unexpected condition has occurred while IOS is building a TDL message to send to the Shell Manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-MSGMARSHALERROR : Error '[dec]' marshaling TDL message '[chars]' to send to the Shell Manager

Explanation	An unexpected condition has occurred while IOS is marshaling TDL message to send to the Shell Manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-MSGENQUEUEERROR : Error queueing TDL message '[chars]' to send to the Shell Manager

Explanation An unexpected condition has occurred when IOS attempted to queue a TDL message to send to the Shell Manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-MSGBIPCERR : Unable to process received BIPC messages for Dynamic Commands, error: [chars]

Explanation An unexpected condition has occurred while IOS was trying to process a received BIPC message for Dynamic Commands.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-MSGBIPCBUFFER : Unable to acquire a BIPC buffer for sending messages.

Explanation A message was to be sent by IOS, but no BIPC buffer was available. The message to be sent has been discarded and the associated operation failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-TREETOP : Unable to link top-level keyword '[chars]' into parse tree

Explanation IOS received a message to add a command into the CLI. The appropriate location to link in the command could not be found.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-TREETOPNOTKW : The top-level parser transition '[chars]' is not a keyword

Explanation IOS received a message to add a command into the CLI. The top-level node must be a keyword node.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-FLAGSINUSE : New feature flags list [int] invalid while feature flags in use [int]

Explanation IOS received a message to set the feature flags for the CLI. The message received to set the feature flags changed the number of feature flags which is unexpected. The message is ignored.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-FLAGSINVALID : New feature flag list values ([int]) different than expected ([int])

Explanation IOS received a message to set the feature flags for the CLI. The message received does not contain the number of feature flag values that the message list size indicated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-NODEOUTOFSEQ : Create node message received when in mode '[chars]'

Explanation IOS received a message to add a command node into the CLI. The message was received out of sequence

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DNCMD-3-LINKOUTOFSEQ : Create node message received when in mode '[chars]'

Explanation	IOS received a message to add a command node into the CLI. The message was received out of sequence
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DNCMD-3-NODETYPEUNKNOWN : Create node message received for unknown node type '[dec]', '[chars]'

Explanation	IOS received a message to add a command into the CLI. One of the command nodes to be created is of a type unknown to IOS
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DNCMD-3-NODEDUPLICATE : Create node message received for duplicate node '[int]'

Explanation	IOS received a message to add a command into the CLI. One of the command nodes to be created has an identifier of an existing node. The new node is ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DNCMD-3-LINKUNKNOWNNODE : Link node message received for unknown node '[int]'

Explanation	IOS received a message to add a command into the CLI. One of the messages to link nodes referenced a node unknown to IOS
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-LINKUNKNOWNACCEPTNODE : Link node message received for unknown accept ([chars]) node '[int]'

Explanation	IOS received a message to add a command into the CLI. One of the messages to link nodes referenced a node unknown to IOS
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-LINKUNKNOWNALTNODE : Link node message received for unknown alternate node '[int]'

Explanation	IOS received a message to add a command into the CLI. One of the messages to link nodes referenced a node unknown to IOS
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-LINKINVALIDALT : Link alternate node message received for node '[chars]', which cannot have an alternate.

Explanation	IOS received a message to add a command into the CLI. One of the messages to link nodes instructed IOS to link nodes which would result in an invalid construction.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-LINKINVALIDTRANS : Link transition '[chars]' message received for node '[chars]', which cannot have such a transition.

Explanation	IOS received a message to add a command into the CLI. One of the messages to link nodes instructed IOS to link nodes which would result in an invalid construction.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-CHAINADDFAIL : Parse chain link add failed for '[chars]'

Explanation An error has occurred when a dynamic command is being added to the IOS command set. The commands specified will not be available.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-CHAINDELFAIL : Parse chain link delete failed for '[chars]'

Explanation An error has occurred when a dynamic command is being removed from the IOS command set. The commands specified will stil not be available.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-7-CMDSET_LOADED : The Dynamic Command set has been loaded from the Shell Manager

Explanation IOS has completed loading the set of commands published and processed by components running in packages other than the IOS package.

Recommended Action No action is required.

%DYNCMD-7-CMDSET_UNLOADED : The Dynamic Command set from the Shell Manager has been unloaded

Explanation IOS has completed unloading the Dynamic Command set. This should only occur when a new package has been installed and should shortly be followed by a message indicating that the new Dynamic Command set has been loaded.

Recommended Action No action is required.

%DYNCMD-3-INIT : Dynamic command subsystem failed to initialize '[chars]'

Explanation Some features depend on portions of the dynamic command infrastructure. Such features will be unavailable.

%DYNCMD-3-INIT : Dynamic command subsystem failed to initialize '[chars]'

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DYNCMD-3-PKGINT_LOAD : Failed to load '[chars]': [chars]

Explanation	Some features' configuration depends on a packaging infrastructure. Packaged configuration for the specified package will be unavailable.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_SYMBOL : Package [chars] incompatible: symbol '[chars]' is of type [chars], expected [chars]

Explanation	Some features' configuration depends on a packaging infrastructure. Packaged configuration for the specified package will be unavailable.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_VALIDATE : Failed to validate '[chars]': [chars]

Explanation	Some features' configuration depends on a packaging infrastructure. Packaged configuration for the specified package will be unavailable.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_API : Package interface failure for package '[chars]': [chars]

Explanation	Some features' configuration depends on a packaging infrastructure. Packaged configuration for the specified package will be unavailable.
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%DYNCMD-3-PKGINT_API : Package interface failure for package '[chars]': [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DYNCMD-3-PKGINT_INSTALL : Failed to install '[chars]': [chars]

Explanation	Some features' configuration depends on a packaging infrastructure. Packaged configuration for the specified package will be unavailable.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_ARGS : Incorrect argument count for package '[chars]', operation '[chars]': [dec] not [dec]

Explanation	An error has occurred loading the commandset for a newly installed package. The package is not compatible with the running IOS instance.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_ARG : Incorrect argument type for package '[chars]', operation '[chars]': [chars] ([int])

Explanation	An error has occurred loading the commandset for a newly installed package. The package is not compatible with the running IOS instance.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_ARG_NUMBERVAL : Invalid argument value for package '[chars]', operation '[chars]': [int] ([int])

Explanation	An error has occurred loading the commandset for a newly installed package. The package is not compatible with the running IOS instance.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_ARG_OPAQUEVAL : Invalid argument value for package '[chars]', operation '[chars]': [IPV6 address] ([int])

Explanation	An error has occurred loading the commandset for a newly installed package. The package is not compatible with the running IOS instance.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_OFFSET : Invalid offset argument for package '[chars]', operation '[chars]': [chars] ([int])

Explanation	An error has occurred loading the commandset for a newly installed package. The package is not compatible with the running IOS instance.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGNODE_ADD_FAIL : Parse node add failed for package '[chars]', [chars] ([int])

Explanation	An error has occurred loading the commandset for a newly installed package. The node could not be added and the commandset for the package will not be available.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGHANDLER_FILE_WRITE : Package '[chars]' failed to write: [chars] ([chars])

Explanation An error has occurred when a package was attempting to write a file. The configuration for the package could not be propagated to associated components.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGHANDLER_FILE_REMOVE : Package '[chars]' failed to remove: [chars] ([chars])

Explanation An error has occurred when a package was attempting to remove a file. This should never fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_DIR_CREATE : Package integration failed to create directory: [chars] ([chars])

Explanation An error has occurred when attempting to create a package export directory. This should never fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_DIR_OPEN : Package integration failed to open directory: [chars] ([chars])

Explanation An error has occurred when attempting to open a package export directory. This should never fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_DIR_REMOVE : Package integration failed to remove directory: [chars] ([chars])

Explanation An error has occurred when attempting to remove a package export directory. This should never fail.

%DYNCMD-3-PKGINT_DIR_REMOVE : Package integration failed to remove directory: [chars] ([chars])

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%DYNCMD-3-PKGINT_DIR_MOVE : Package integration failed to move directory: [chars] to [chars] ([chars])

Explanation	An error has occurred when attempting to move a package export directory. This should never fail.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_FILE_OPEN : Package integration failed to open file: [chars] ([chars])

Explanation	An error has occurred when attempting to open a file in a package export directory. This should never fail.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_FILE_REMOVE : Package integration failed to remove: [chars] ([chars])

Explanation	An error has occurred when attempting to remove a package export file. This should never fail.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_LOCK : Failed to acquire package list lock for [chars]: [chars]

Explanation	An error occurred when a configuration package was being installed or removed. This may indicate a timeout which may be a temporary condition.
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%DYNCMD-3-PKGINT_LOCK : Failed to acquire package list lock for [chars]: [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_PKGLOCK : [chars] failed to acquire package lock for [chars]

Explanation An error occurred when locking a configuration package. The package needs to be locked for processing configuration commands or timer-based processing of configuration data.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-3-PKGINT_UNLOCK : Failed to release the package list lock: [chars]

Explanation An error occurred when a configuration package was being installed or removed. This should not occur.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-7-PKGINT_INSTALLED : The command package '[chars]' has been successfully installed

Explanation IOS has completed installation of the specified command package. Configuration commands for the package are now available.

Recommended Action No action is required.

%DYNCMD-7-PKGINT_UNINSTALLED : The command package '[chars]' has been successfully uninstalled

Explanation IOS has completed uninstallation of the specified command package. Configuration commands for the package are no longer available.

Recommended Action No action is required.

%DYNCMD-3-PKGERR_LOG_FAIL : Failed to log errors for package '[chars]'

Explanation	An error has occurred updating the commandset for a newly installed package. The commands which failed to transfer could not be saved for further analysis.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%DYNCMD-4-CMD_DEPRECATION : The command 'platform trace runtime' is being deprecated. Please use the exec mode command 'set platform software trace' instead. Note that using this command and 'set platform software trace' together will lead to indeterministic results

Explanation	The command 'platform trace runtime' is being deprecated.
Recommended Action	No action is required.

E911 through EM_ISSU

- [E911](#)
- [EAP](#)
- [EC](#)
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E911**%E911-4-CALLBACK_UNREACHABLE : Unable to contact the last emergency caller at [chars].**

Explanation	The Public Safety Answering Point is calling an Emergency Line Identification Number (ELIN). The last caller from that ELIN has its calling number saved for three hours from the time the emergency call was originated. If the ELIN cannot be translated to the caller's calling number, then one of the following has happened: 1) The emergency call information has expired. Forwarding has not been set-up when calls have expired. 2) A system reload has occurred, thereby erasing the emergency call information.
Recommended Action	The dial-peer created to accept ELIN calls could set-up Call Forwarding to a corporate operator or main help desk to avoid having the call backs rejected.

%E911-5-EMERGENCY_CALL_HISTORY : calling number[[chars]]; called number[[chars]]; ELIN[[chars]]

Explanation	A call has been made to an emergency response number. This message simply informs system administrators of the call.
Recommended Action	The administrator determines the policy for outbound emergency calls. The administrator may set-up an application to page or email a technician everytime this message is emitted.

%E911-3-MISSING_DEFAULT_NUMBER : It is mandatory to configure an ELIN under 'voice emergency response settings.'

Explanation	The administrator has enabled the Enhanced 911 feature without configuring a default ELIN under 'voice emergency response settings.'
Recommended Action	The administrator should enter the 'voice emergency response settings' mode and configure a value for the 'elin' CLI.

EAP**%EAP-2-PROCESS_ERR :**

Explanation	This is critical condition where the router could not perform EAP process related operation.
Recommended Action	Review SM logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log. Reload the device/process.

%EAP-6-MPPE_KEY :

Explanation	This messages informs that the router received MPPE KEY for the specified host.
Recommended Action	No action is required.

%EAP-3-BADPKT :

Explanation	This messages informs that the router received an invalid or malformed EAP packet from the specified host.
Recommended Action	Check specified host for EAP operation.

%EAP-6-FIPS_UNSUPPORTED_METHOD :

Explanation	This message informs that a method is not supported in FIPS mode.
Recommended Action	Use FIPS supported methods - PEAP, TLS and FAST

EC

%EC-5-MINLINKS_NOTMET : Port-channel [chars] is down bundled ports ([dec]) doesn't meet min-links

Explanation	The administrative configuration of minimum links is greater than the number of bundled ports. Therefore this port channel has been brought down
Recommended Action	Reduce the min-links configuration for this group or add more ports to this port-channel to have them bundle.

%EC-5-MINLINKS_MET : Port-channel [chars] is up as its bundled ports ([dec]) meets min-links

Explanation	The administrative configuration of minimum links is equal or less than the number of bundled ports. Therefore this port channel has been brought up
Recommended Action	None.

%EC-3-BWMISMATCH : [chars] should be removed from the Port-channel[dec]

Explanation	The member-link shouldn't have been part of the port-channel bundle because the bandwidth of the member-link doesn't match the bandwidth of the bundle. This configuration shouldn't have been allowed. This error indicates it was allowed due to some software issue.
Recommended Action	Remove the member-link from the port-channel for proper operation.

ECFM_PROXY**%ECFM_PROXY-3-ECFM_MEM_REQ_FAILED : ECFM IPC subtype: [dec]**

Explanation	Requesting more memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ECFM_PROXY-3-ECFM_MEM_EXTEND_FAILED : ECFM IPC subtype: [dec]

Explanation	Extending memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ECFM_PROXY-4-PROXY_INVALID_MSG_LEN : QFP ECFM Proxy IPC invalid length, [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation	Cisco internal software error. QFP ECFM Proxy received invalid IPC message length from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ECFM_PROXY-4-PROXY_INVALID_MSG : QFP ECFM Proxy received invalid message type [dec]

Explanation	Cisco internal software error. QFP ECFM Proxy received an invalid message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ECFM_PROXY-2-PROXY_IPC_INIT_FAILED : QFP ECFM Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP ECFM Proxy initialization detected that the IPC interface initialization failed. QFP ECFM proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ECFM_PROXY-3-PROXY_BAD_MSG : QFP ECFM Proxy received bad length message type [dec]

Explanation	Cisco internal software error. QFP ECFM Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ECFM_PROXY-3-PROXY_IPC_ALLOC_FAILED : QFP ECFM Proxy [chars] message lost due to message buffer allocation failure.

Explanation	Cisco internal software error. QFP ECFM Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ECFM_PROXY-3-PROXY_IPC_SEND_FAILED : QFP ECFM Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation	Cisco internal software error. QFP ECFM Proxy message processing detected a message sent failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

EDSP

```
%EDSP-6-CEF_WAIT : NULL /* defined elsewhere *//msgdef(CEF_TOOLONG, EDSP, LOG_WARNING, 0, NULL/*
defined elsewhere *//CEF_TOOLONG, EDSP, LOG_WARNING, 0, NULL/* defined elsewhere
*/msgdef(IPV6_ENABLED, EDSP, LOG_INFO, 0, NULL/* defined elsewhere *//IPV6_ENABLED, EDSP, LOG_INFO,
0, NULL /* defined elsewhere *//msgdef(IPV6_FAILED, EDSP, LOG_INFO, 0, NULL /* defined elsewhere
*/IPV6_FAILED, EDSP, LOG_INFO, 0, NULL /* defined elsewhere *//voidedsprm_create_idb_for_vrfs (void
```

Explanation**Recommended
Action**

```
%EDSP-6-VEC_CHANGE : EDSP0's LES switching vector set to [chars]
```

Explanation To monitor CEF initialization for the hidden interface.**Recommended
Action** No action is required.

```
%EDSP-6-CEF_WAIT : Waiting for CEF initialization to complete first ... [dec]
```

Explanation Initialization of CEF RTP sending relies on system's CEF readiness.**Recommended
Action** No action is required.

```
%EDSP-4-CEF_TOOLONG : CEF to SCCP devices may be disabled! See message below.
```

Explanation Given up waiting for CEF initialization to complete.**Recommended
Action** Check the message about CEF and the EDSP0 interface below. If the vector is EVENTUALLY set to Null, CEF RTP sending for SCCP devices is disabled. You may try to recover by restarting ip cef in IOS configuration.

```
%EDSP-6-IPV6_ENABLED : IPv6 on interface [chars] added.
```

Explanation IPv6 capability has been enabled for the (sub-)interface.**Recommended
Action** No action is required.

```
%EDSP-6-IPV6_FAILED : IPv6 on interface [chars] failed.
```

Explanation IPv6 initialization has failed for the (sub-)interface.**Recommended
Action** Please check IPv6 and interface related configurations.

EEM

%EEM-6-SUCCESS : [chars]

Explanation EEM Policy provisioning by the Auto deploy is successful.**Recommended Action** No action is required.

%EEM-6-SUCCESS : [chars]

Explanation EEM Policy provisioning by the Auto-deploy is successful.**Recommended Action** No action is required.

EFP_STORMCTRL

%EFP_STORMCTRL-6-ACTION_DEFAULT : Service Instance [dec] on interface [chars] has dropped packets due to storm-control

Explanation Configured Storm Control Threshold on Ethernet Service Instance Reached**Recommended Action** No Action

EM

%EM-3-EXCEED : EM exceed maximum open events ([dec]).

Explanation The total number of open events exceeded the maximum number of possible open events. The maximum number that the EM server permits is specified in the error message. EM clients are either opening too many events or not closing events within the permitted time period.

%EM-3-EXCEED : EM exceed maximum open events ([dec]).

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show em state inc <em_type> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information. Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show em state inc <em_type> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%EM-3-NULLPTR : The pointer in a specified EM function ([chars]) is incorrectly NULL.

Explanation	The pointer in the specified EM function is incorrectly NULL. This condition might be caused by incorrect logic or a memory corruption.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Enter the show em state command or the show em status command to gather data that may help Cisco technical support to identify the nature of the error. Contact your Cisco technical support representative and provide the representative with the gathered information.

%EM-3-FAIL : The specified EM Function failed ([chars]).

Explanation	The specified EM function failed. This condition might be caused by incorrect logic or a memory corruption.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Enter the show em state command or the show em status command to gather data that may help Cisco technical support to identify the nature of the error. Contact your Cisco technical support representative and provide the representative with the gathered information.

%EM-3-NOMEM : The EM failed to allocate memory resources for the specifiedEM function ([chars]).

Explanation	The EM failed to allocate memory resources for the specified function because memory is running low.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Enter the show memory summary command to gather data that may help Cisco technical support to identify the nature of the error. Contact your Cisco technical support representative and provide the representative with the gathered information.

%EM-4-AGED : The specified EM client ([chars] type=[dec], id=[dec]) did not close the EM event within the permitted amount of time ([dec] msec).

Explanation A timeout occurred. This condition is minor and should not affect the functionality of the switch.

Recommended Action This message should not affect switch functionality but can be sign of a software bug condition. Please check Bug Toolkit on the Cisco web-site for relevant bugs against this message. If you do not find any, please contact the TAC with the output of **show em client**

%EM-4-INVALID : The specified EM function ([chars]) received Invalid operands <[dec]>.

Explanation The EM client used invalid API parameters.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Enter the **show em state** command or the **show em status** command to gather data that may help Cisco technical support to identify the nature of the error. Contact your Cisco technical support representative and provide the representative with the gathered information.

%EM-4-SENDFAILED : The specified EM client (type=[dec]) failed to send messages to standby.

Explanation Because the specified EM client failed to send messages to the standby supervisor engine, the standby supervisor engine is not updated. Do not attempt to failover to standby supervisor engine.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show checkpoint clients** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%EM-4-NOTUP : The EM is not available ([chars]).

Explanation Because some basic initialization failed, the EM is not available. This condition might be caused by failure of a basic infrastructure functionality or a memory corruption.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Enter the **show em state** command or the **show em status** command to gather data that may help Cisco technical support to identify the nature of the error. Contact your Cisco technical support representative and provide the representative with the gathered information.

%EM-4-SEARCH : The EM function ([chars]) searched for the specified open event ([dec]),but the search failed.

Explanation	The specified EM function could not find the specified open event. This condition might be caused by a memory corruption.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Enter the show em state command or the show em status command to gather data that may help Cisco technical support to identify the nature of the error. Contact your Cisco technical support representative and provide the representative with the gathered information.

%EM-4-LIMIT : EM exceed open events limit ([dec]).

Explanation	The EM has exceeded the permitted number of open events. The open event limit is 5000.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

EMD

%EMD-3-PFU_INITIALIZATION : The RP has failed to initialize a Power Supply/Fan module controller because [chars]

Explanation	The route processor (RP) failed to initialize a power supply or a fan module controller. This error could be caused by a hardware defect or a C2W access failure.
Recommended Action	Examine the logs for C2W and hardware errors.

%EMD-3-IDPROM_ACCESS : Failed access or process an IDPROM because [chars]

Explanation	The system failed to access an IDPROM or an IDPROM process failed. This error can occur from a hardware defect, software defect, or incorrect IDPROM content.
Recommended Action	Examine the logs for IDPROM and hardware errors.

%EMD-3-IDPROM_SENSOR : One or more sensor fields from the idprom failed to parse properly because [chars].

Explanation	One or more IDPROM sensor fields failed to parse properly. The most likely reason is a checksum failure in the IDPROM from incorrect IDPROM content.
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%EMD-3-IDPROM_SENSOR : One or more sensor fields from the idprom failed to parse properly because [chars].

Recommended Action Examine the logs for IDPROM and hardware errors.

%EMD-3-SENSOR_INITIALIZATION : Failed to initialize sensor monitoring because [chars].

Explanation The system failed to initialize an IDPROM sensor monitoring process. This error can occur from a hardware defect, software defect, or incorrect IDPROM content.

Recommended Action Examine the logs for IDPROM and hardware errors.

%EMD-0-EVENT_LIBRARY : An event facility initialization or maintenance function failed because [chars]

Explanation An event facility initialization or maintenance function failed. This error could be due to a software defect or system resource limitation.

Recommended Action Restart the card.

%EMD-0-RESOLVE_FRU : Failed to determine [chars] card because [chars]

Explanation The system was unable to to determine a card state. This error could be due to a software defect or system resource limitation.

Recommended Action Restart the card.

%EMD-0-SERVICES_INITIALIZATION : Failed to initialize general application services because [chars]

Explanation The system failed to initialize the application services. This error could be due to a software defect or system resource limitation.

Recommended Action Restart the card.

EM_ISSU

%EM_ISSU-2-INIT : Event Manager ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation The Event Manager ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.

%EM_ISSU-2-INIT : Event Manager ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%EM_ISSU-3-TRANSFORM_FAIL : Event Manager ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation	The Event Manager ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the Event Manager state between the active device and the standby device is not identical.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%EM_ISSU-3-MSG_NOT_OK : Event Manager ISSU client 'Message Type [dec]' is not compatible

Explanation	The Event Manager ISSU client received an incompatible message from the peer device. The message cannot be processed.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%EM_ISSU-3-OPAQUE_MSG_NOT_OK : Event Manager ISSU client 'Opaque Message Type [dec]' is not compatible

Explanation	The Event Manager ISSU client received an incompatible message from the peer device. The opaque message cannot be processed.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%EM_ISSU-3-MSG_SIZE : Event Manager ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation	The Event Manager ISSU client failed to calculate the MTU for the specified message. The Event Manager ISSU client is not able to send the message to the standby device.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%EM_ISSU-3-INVALID_SESSION : Event Manager ISSU client does not have a valid registered session.

Explanation	The Event Manager ISSU client does not have a valid registered session.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%EM_ISSU-2-SESSION_REGISTRY : Event Manager ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The Event Manager ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%EM_ISSU-3-SESSION_UNREGISTRY : Event Manager ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The Event Manager ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%EM_ISSU-2-SESSION_NEGO : Event Manager ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	An ISSU-compliant client transitions through a series of internal states. The Event Manager ISSU client encountered a 'client negotiation done' state that was unexpected. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%EM_ISSU-2-SEND_NEGO_FAILED : Event Manager ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation	The Event Manager ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%EM_ISSU-2-GET_BUFFER : Event Manager ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation The Event Manager ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)



CHAPTER 3

ENT_API through GEN_DB

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ENT_API**%ENT_API-3-NOCREAT : EntityApiProcess not created - Entity MIB will not be initialised**

Explanation	Attempt to start EntityApiProcess failed when the entity subsystem was initialised. The Entity MIB will not be populated.
Recommended Action	The Entity MIB API process was not created, possibly due to lack of memory. If you want to use the Entity MIB API, reconfigure the box so that less memory is used by other features, or add more memory to the system. Reload the box after reconfiguring.

%ENT_API-4-NOPARENT : Parent physical entity [int] did not exist when trying to add child physical entity [int], phyDescr = [chars], phyName = [chars].

Explanation	An attempt to add a physical entity failed, because its parent physical entity did not exist in the entPhysicalTable of the Entity MIB.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information. Using your NMS tool, also provide the content of the Entity MIB table.

%ENT_API-4-NOLPMAP : [chars] entity not found when adding an LPMapping entry with logical index = [int] and physical index = [int] to the Entity MIB

Explanation	An attempt to add an LPMapping entry to the Entity MIB was made. The logical or physical entity with the specified index does not exist, and so the LPMapping entry creation failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information. Using your NMS tool, also provide the content of the Entity MIB table.

%ENT_API-4-NOALIAS : [chars] entity not found when adding an alias with physical index = [int] and logical index = [int] to the Entity MIB

Explanation	An attempt to add an alias entry to the Entity MIB was made. The logical or physical entity with the specified index does not exist, and so the alias entry creation failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information. Using your NMS tool, also provide the content of the Entity MIB table.

%ENT_API-4-NOPORT : Physical entity does not have a Port PhysicalClass when adding an alias with physical index = [int], logical index = [int], phyDescr = [chars], phyName = [chars], phyClass = [int], phyContainedIn = [int], to the Entity MIB

Explanation An attempt to add an alias entry to the Entity MIB was made. The physical entity with the specified index does not have an entPhysicalClass of 10(Port class) and so the alias entry creation failed. See RFC2737 for the definition of the PhysicalClass textual-convention and the aliasMappingEntry object.

Recommended Action Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information. Using your NMS tool, also provide the content of the Entity MIB table.

%ENT_API-4-NOENT : Trying to add or delete an unknown entity to the Entity MIB

Explanation An attempt to add/delete an unknown entity to the Entity MIB was made. The request could not be processed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log, call your Cisco technical support representative and provide the representative with the gathered information. Using your NMS tool, also provide the content of the Entity MIB table.

%ENT_API-4-MULTIPLEREG : Multiple registration request with same entity name = [chars] using entity index [int] and phyDescr = [chars].

Explanation An attempt to register a physical entity happened and failed, because the same entity name is being used, for which a registration has already been done.

Recommended Action Need to raise a DDTS with the component responsible for the for the registration to use different entity names for registering different entities.

ENVIRONMENTAL

%ENVIRONMENTAL-3-TDLERROR : Error processing TDL message. [dec]

Explanation An unexpected condition in which IOS has received a TDL message which it can not process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ENVIRONMENTAL-1-ALERT : [chars], Location: [chars], State: [chars], Reading: [dec] [chars]

Explanation	One of the sensors in the system is reading an out of normal value.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ENVIRONMENTAL-6-NOTICE : [chars], Location: [chars], State: [chars], Reading: [dec] [chars]

Explanation	Informational message on the sensor reading
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ENVIRONMENTAL-5-SENSOROK : [chars], Location: [chars], State: normal

Explanation	One of the sensors in the system had been in a failure condition but is now operating normally.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ENVIRONMENTAL-1-SENSORFAIL : [chars], Location [chars], State: fail

Explanation	One of the sensors in the system has detected a failure condition from which it can not recover. This sensor is no longer reporting readings to the environmental monitoring subsystem.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ENVIRONMENTAL-3-CHASFERR : Sensor [chars] on FRU [chars] has an invalid chasfs device state [chars]

Explanation	The system does not understand the state that the sensor is reporting. This is most likely a filesystem corruption or ISSU problem. You may try rebooting the router to see if the problem corrects itself.
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%ENVIRONMENTAL-3-CHASFSERR : Sensor [chars] on FRU [chars] has an invalid chasfs device state [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%ENVIRONMENTAL-6-INFO : [chars]

Explanation	Informational message of ambient sensor reading
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

EPBR_PROXY**%EPBR_PROXY-2-EPBR_MSG_PROXYINIT_FAILURE : EPBR - Failed to register IPC message handler, result code [int]**

Explanation	QFP EPBR feature failed to register an IPC message handler for communication with control plane. This will cause the feature not to function.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EPBR_PROXY-3-EPBR_MSG_PROXY_UNKNOWN_IPCMMSG : EPBR - Received an unknown type (code [int]), IPC message

Explanation	QFP EPBR feature received an unknown message from another layer of EPBR feature's software stack.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EPBR_PROXY-3-EPBR_MSG_PROXY_INVALID_MSGLEN : EPBR - Received an invalid length IPC message

Explanation QFP EPBR feature received an incorrect length of IPC message from another layer of EPBR feature's software stack, m_enum %d, m_subtype %d, m_len %d, m_flags 0x%x, m_source %d.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EPBR_PROXY-3-EPBR_MSG_PROXY_ALLOC_FAILURE : EPBR - Failed to get [int] bytes space for IPC reply message

Explanation QFP ET-Analytics feature detected buffer allocation failure while sending reply to a message from another layer of EPBR feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EPBR_PROXY-3-EPBR_MSG_PROXY_OPENREPLY_FAIL : EPBR - Failed to open reply message part of IPC packet

Explanation QFP EPBR feature failed to open message part of IPC packet while sending a reply to another layer of EPBR feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EPBR_PROXY-3-EPBR_MSG_PROXY_IPCSEND_FAIL : EPBR - Failed to send IPC message, result code [dec]

Explanation QFP EPBR feature failed to send IPC message to another layer of EPBR feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EPBR_PROXY-3-EPBR_MSG_PROXY_DEBUG_REG_FAILED :

Explanation	EPBR Conditional Debugging Registration failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EPBR_PROXY-4-PROXY_IPC_INVALID_MSG_LEN : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation	Invalid EPBR IPC message length.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

EPC**%EPC-3-MEM_INIT_FAILED : Allocation of [chars] memory failed for EPC**

Explanation	EPC Initialization of channel pool failed.
Recommended Action	LOG_STD_ACTION

%EPC-3-PKT_REPLICA_INIT_FAILED : Register to Generic Packet Replication failed for EPC

Explanation	EPC Initialization of packet replication registration failed.
Recommended Action	LOG_STD_ACTION

EPM**%EPM-6-POLICY_REQ :**

Explanation	This message indicates that a policy application/remove request has been received by the EPM
Recommended Action	No action required

%EPM-6-POLICY_APP_SUCCESS :

Explanation This message indicates that the displayed policy for the client has been applied successfully by the EPM

Recommended Action No action required

%EPM-4-POLICY_APP_FAILURE :

Explanation This message indicates that the displayed policy for the client could not be applied by the EPM

Recommended Action Policy application failure could happen due to multiple reasons. The reason for the failure is notified to the client and the client has to take appropriate action based on it

%EPM-6-AAA :

Explanation This message indicates a download request has been sent/downloaded successfully for the specified dACL

Recommended Action No action required

%EPM-4-ACL_CONFIG_ERROR :

Explanation This message indicates that adding an ACE to the specified ACL was ignored because of wrong configuration

Recommended Action Change ACE configuration for the specified ACL

%EPM-6-IPEVENT :

Explanation This message indicates the IP event Wait/Release/Assignment that has occurred with respect to the specified host

Recommended Action No action required

%EPM-6-AUTH_ACL :

Explanation This message indicates a AUTH_DEF_ACL or AUTH_DEF_ACL_OPEN has been applied or removed

Recommended Action No action required

EPM_PLUGIN**%EPM_PLUGIN-5-ERR_VLAN_NOT_FOUND :**

Explanation	An attempt was made to assign a VLAN to an 802.1x port, but the VLAN was not found in the VTP database.
Recommended Action	Make sure the VLAN exists and is not shutdown or use another VLAN.

EPOCH**%EPOCH-6-EPOCH_REJECTED : Peer [chars] has rejected epoch: [chars]**

Explanation	This error occurs if epoch from shell-manager has been rejected by the peer.
Recommended Action	Check the epoch and peer state.

ERM**%ERM-6-NOTIFY : Owner: [chars](%01x), User: [chars](%01x), Threshold Type: [chars], Level: [chars], Direction: [chars], Limit: [int], Usage: [int], Policy ID: [dec]**

Explanation	A notification has been sent out by the resource owner because of a threshold violation.
Recommended Action	This is just informational message only. This message appears because a threshold has been violated. Do 'show running' and look for the configuration under the mode 'resource manager' and check the thresholds that has been set. This is just a notification that the threshold has been violated - nothing to stop the resource exhaustion is being done here.

ERSPAN**%ERSPAN-3-MEM_INIT_FAILED : Allocation of [chars] memory failed for ERSPAN**

Explanation	ERSPAN Initialization of channel pool failed.
Recommended Action	LOG_STD_ACTION

%ERSPAN-3-PKT_REPLICA_INIT_FAILED : Register to Generic Packet Replication failed for ERSPAN

Explanation	ERSPAN Initialization of packet replication registration failed.
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%ERSPAN-3-PKT_REPLICA_INIT_FAILED : Register to Generic Packet Replication failed for ERSPAN

Recommended Action LOG_STD_ACTION

ESS_FEATURE

%ESS_FEATURE-3-ESF_STUB : CPP ESS per-session feature ([chars]) executes stub entry in [chars] direction

Explanation Cisco internal software error. CPP ESS per-session feature stub entry got executed. The packet will be dropped.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_FEATURE-4-ESF_DROP_POLICY : CPP ESS feature encountered unexpected linktype=[dec]

Explanation Cisco internal software error. CPP ESS per-session feature encountered unexpected linktype when executing output drop policy

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

ESS_IPSUB through ETHERNET_PMLACP

- [ESS_IPSUB](#)
- [ESS_PROXY](#)
- [ESS_SWITCH](#)
- [ETC](#)
- [ETHERCHANNEL](#)
- [ETHERCHANNEL_LB](#)
- [ETHERNET_LACP](#)
- [ETHERNET_MLACP](#)
- [ETHERNET_OAM](#)
- [ETHERNET_PMLACP](#)

ESS_IPSUB**%ESS_IPSUB-3-ESS_IPSUB_STUB : CPP ESS IPSUB executes stub entry in [chars] direction**

Explanation	Cisco internal software error. CPP ESS IPSUB stub entry got executed. The packet will be dropped.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_IPSUB-3-FSOL_THROTTLE_ERR : Allocation of [chars] memory failed for ESS IP Subscriber

Explanation	Allocation of memory resource demanded by ESS IPSUB FSOL throttle failed. This is a serious problem at the ESS IPSUB FSOL initialization for throttling.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

ESS_PROXY**%ESS_PROXY-2-IPC_THROTTLE_ERR : Allocation of [chars] memory failed for ESS Proxy unsolicited event throttling**

Explanation	Allocation of memory resource demanded by ESS Proxy throttle failed. This is a serious problem at the ESS Proxy IPC initialization for unsolicited event throttling.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_PROXY-2-PROXY_IPC_INIT_FAILED : CPP ESS Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. CPP ESS Proxy initialization detected that the IPC interface initialization failed. CPP ESS proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_PROXY-3-PROXY_BAD_MSG : CPP ESS Proxy received bad length message type [dec]

Explanation	Cisco internal software error. CPP ESS Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_PROXY-3-PROXY_INV_MSG : CPP ESS Proxy received invalid message type [dec]

Explanation	Cisco internal software error. CPP ESS Proxy received an invalid message type from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_PROXY-3-PROXY_IPC_ALLOC_FAILED : CPP ESS Proxy [chars] message lost due to message buffer allocation failure., MSGDEF_LIMIT_MEDIUM

Explanation	Cisco internal software error. CPP ESS Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_PROXY-3-PROXY_IPC_SEND_FAILED : CPP ESS Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation	Cisco internal software error. CPP ESS Proxy message processing detected a message sent failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_PROXY-3-PROXY_IPC_NO_HDLR : CPP ESS Proxy received unregistered message type [dec]

Explanation	Cisco internal software error. CPP ESS Proxy received a message from control plane but there is no registered handler. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_PROXY-2-KA_CHANNEL_ALLOC_FAILED : CPP ESS Proxy Session Keepalive channel creation failure.

Explanation	Cisco internal software error. CPP ESS Proxy Session Keepalive detected that the channel creation failed. CPP ESS proxy session keepalive will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_PROXY-2-KA_PKT_REPLICA_REG_FAILED : CPP ESS Proxy Session Keepalive packet replication registration failure (result: [dec]).

Explanation	Cisco internal software error. CPP ESS Proxy Session Keepalive detected that the packet replication registration failed. CPP ESS proxy session keepalive will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_PROXY-2-KA_TIMER_INIT_FAILED : CPP ESS Proxy Session Keepalive timer initialization failure.

Explanation	Cisco internal software error. CPP ESS Proxy Session Keepalive detected that the timer initialization failed. CPP ESS proxy session keepalive will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_PROXY-2-KA_PKT_TMPL_BFR_ALLOC_FAILED : CPP ESS Proxy Session Keepalive packet template allocation failure ([chars] buffer length: [dec]).

Explanation	Cisco internal software error. CPP ESS Proxy Session Keepalive detected that the packet template buffer allocation failed. CPP ESS proxy session keepalive will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

ESS_SWITCH

%ESS_SWITCH-3-ESS_STUB : CPP ESS switching ([chars]) feature executes stub entry in [chars] direction

Explanation	Cisco internal software error. CPP ESS Switching feature stub entry got executed. The packet will be dropped.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ESS_SWITCH-3-STATS_INVALID_PTR : CPP ESS Switching invalid statistics block for session [chars],. MSGDEF_LIMIT_GLACIAL

Explanation	Cisco internal software error. CPP ESS Switching session contains an invalid statistics block. The session statistics is lost.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

ETC

%ETC-4-NOMEM : Not enough memory available for [chars]

Explanation	The PAgP/LACP Shim/EC could not obtain the memory it needed.
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%ETC-4-NOMEM : Not enough memory available for [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.
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%ETC-5-NOPAGP : Invalid EC mode, PAgP not enabled

Explanation	PAgP is not included in the image. Cannot set EC mode to desirable/auto
Recommended Action	Get an image with PAgP included or set mode to On

%ETC-5-ERRPROT : Channel protocol mismatch for interface [chars] in group [dec]: the interface can not be added to the channel group

Explanation	The interface can not be added to the channel-group with the specified mode
Recommended Action	Change the channel-group or the mode for the interface

%ETC-5-ERRPROT2 : Command rejected: the interface [chars] is already part of a channel with a different type of protocol enabled

Explanation	The interface can not be selected for the specified protocol, since is already part of a channel with a different type of protocol enabled
Recommended Action	Remove the interface from the channel group

%ETC-5-ERRPROT3 : Command rejected: the interface [chars] is already part of a channel

Explanation	The interface can not be unselected for the specified protocol, since is already part of a channel
Recommended Action	Remove the interface from the channel group

%ETC-5-PORTDOWN : Shutting down [chars] as its port-channel is admin-down

Explanation The administrative state of the port is controlled by the administrative state of its aggregate port. If the administrative state of the aggregate port is down, the administrative state of the port will also be forced to be down

Recommended Action Enter the **no shutdown** command on the aggregate port to activate (unshut) the aggregation port.

%ETC-5-DONTBNDL : [chars] suspended: incompatible remote port with [chars]

Explanation The configuration of the remote port is different from the configuration of other remote ports in the bundle. A port can only join the bundle when the configuration of the local port and the configuration of the remote port are the same as other ports already in the bundle.

Recommended Action Ensure that the configuration of the remote ports is the same for all ports in the bundle

%ETC-5-L3DONTBNDL1 : [chars] suspended: PAgP not enabled on the remote port.

Explanation PAgP is enabled on an L3 interface, but it has been detected that the remote port does not have PAgP enabled. In this mode, the port is put in a suspended state.

Recommended Action Enable PAgP on remote side

%ETC-5-L3DONTBNDL2 : [chars] suspended: LACP currently not enabled on the remote port.

Explanation LACP is enabled on an L3 interface, but it has been detected that the remote port does not have LACP enabled. In this mode, the port is put in a suspended state.

Recommended Action Enable LACP on the remote side

%ETC-5-STAYDOWN : [chars] will remain down as its port-channel [chars] is admin-down

Explanation The administrative state of the aggregation port overrides that of the port. If the aggregation port is administratively down, all ports in the aggregation port will also be forced to be administratively down.

Recommended Action Enter the **no shutdown** command on the aggregation port to activate (unshut) the the aggregation port.

%ETC-5-MINLINKS_NOTMET : Port-channel [chars] is down bundled ports ([dec]) doesn't meet min-links

Explanation	The administrative configuration of minimum links is greater than the number of bundled ports. Therefore this port channel has been brought down
Recommended Action	Reduce the min-links configuration for this group or add more ports to this port-channel to create a bundle.

%ETC-5-MINLINKS_MET : Port-channel [chars] is up as its bundled ports ([dec]) meets min-links

Explanation	The administrative configuration of minimum links is equal or less than the number of bundled ports. Therefore this port channel has been brought up
Recommended Action	This is an informational message only. No action is required

%ETC-5-CANNOT_BUNDLE1 : Port-channel [chars] is down, port [chars] will remain stand-alone.

Explanation	The state of the aggregation port is down. The port will remain stand-alone until the state of the aggregation port is up.
Recommended Action	Ensure that the other ports in the bundle have the same configuration.

%ETC-5-CANNOT_BUNDLE2 : [chars] is not compatible with [chars] and will be suspended ([chars])

Explanation	The attributes of the specified port are different from the attributes of the port-channel or the attributes of the ports within the port-channel.
Recommended Action	Match the attributes of the specified port to the attributes of the port-channel so that the specified port can join the bundle.

%ETC-5-CANNOT_BUNDLE_QOS : Removed [chars] from port channel because a QoS policy cannot be supported across multiple DFC cards.

Explanation	The Port specified in the error message cannot join port channel, because the QoS policy attached to the port channel cannot support multiple DFC cards.
Recommended Action	Place the port in another port channel, or remove the QoS policy from the port channel.

%ETC-5-CANNOT_BUNDLE_QOS1 : Removed [chars] from port channel as QoS attributes of port and port-channel are different.

Explanation	The Port specified in the error message cannot join port channel, because the QoS attributes of this port are not consistent with the QoS attributes of the port-channel.
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%ETC-5-CANNOT_BUNDLE_QOS1 : Removed [chars] from port channel as QoS attributes of port and port-channel are different.

Recommended Action Match the QoS attributes of the specified port to the QoS attributes of other member ports in the port channel. Use the **show queueing interface** command to display the QoS attributes of a port.

%ETC-5-CANNOT_BUNDLE_LACP : [chars] is not compatible with aggregators in channel [dec] and cannot attach to them ([chars])

Explanation The port has different port-attributes that of port-channel or ports within the port-channel. For the port to join the bundle, change the ports attributes so that it matches the port.

Recommended Action Match the port-attributes to that of port-channel

%ETC-5-UNSUITABLE : [chars] will not join any port-channel, [chars]

Explanation Configuring any of Port-fast, VMPS, Dest-SPAN are considered unsuitable for etherchannel. Please unconfigure them.

Recommended Action

%ETC-5-BUNDLE : Interface [chars] joined port-channel [chars]

Explanation Interface joined the bundle.

Recommended Action

%ETC-5-UNBUNDLE : Interface [chars] left the port-channel [chars]

Explanation Interface fell off the bundle

Recommended Action

%ETC-5-CANNOT_ALLOCATE_AGGREGATOR : Aggregator limit reached , cannot allocate aggregator for group [dec]

Explanation New aggregator cannot be allocated in the group. Change the port attributes of the ports in the group so that they match and join the same aggregator.

Recommended Action

%ETC-5-COMPATIBLE : [chars] is compatible with port-channel members

Explanation	The specified port was not operational earlier because its attributes were different from the attributes of the port-channel or the attributes of the ports within the port-channel. The system detects that the attributes of the specified port now match the port-channel attributes.
Recommended Action	No action is required.

%ETC-5-NOLACP : Invalid EC mode, LACP not enabled

Explanation	LACP is not included in the image. Cannot set EC mode to active/passive
Recommended Action	Get an image with LACP included or set mode to On

ETHERCHANNEL

%ETHERCHANNEL-2-PROXY_IPC_INIT_FAILED : QFP Etherchannel Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP Etherchannel initialization detected that the Proxy IPC interface initialization failed. The EC Bundle interfaces will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERCHANNEL-3-INV_PROXY_MSG : QFP ETHERCHANNEL Proxy received invalid Message ID [dec]

Explanation	Cisco internal software error. QFP Etherchannel Proxy received an invalid Message ID. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERCHANNEL-3-PROXY_IPC_ALLOC_FAIL : QFP ETHERCHANNEL Proxy ([chars]) response lost due to buffer allocation failure (Interface [chars])

Explanation	Cisco internal software error. QFP ETHERCHANNEL Proxy message processing detected a IPC buffer allocation failure during response processing. The associated ETHERCHANNEL interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERCHANNEL-3-PROXY_SID_UPDATE_LOCK_ERROR : QFP EC Proxy ([chars]) Multiple SID Update Locks to same interface (Interface [chars], SID: [hex])

Explanation	Cisco internal software error. QFP EC Proxy message processing detected a Bundle Schedule SID update sequence error. One or more interface schedules could have been affected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERCHANNEL-3-PROXY_SID_UPDATE_COMPLETE_ERROR : QFP EC Proxy ([chars]) SID Update Complete w/o Preceding Lock (Interface [chars], SID: [hex])

Explanation	Cisco internal software error. QFP EC Proxy message processing detected a Bundle Schedule SID update sequence error. One or more interface schedules could have been affected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERCHANNEL-3-LOCK_ERROR : QFP EC Lock Failure: retval:[dec] tries[dec]

Explanation	Cisco internal software error. QFP EC Lock Failure locking attempt failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERCHANNEL-3-LOCK_STATE_ERROR : QFP EC Lock State Failure: retval:[dec]

Explanation	Cisco internal software error. QFP EC Lock State Failure Illegal lock state
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

ETHERCHANNEL_LB

%ETHERCHANNEL_LB-3-MSG_SEND_FAIL : The load-balance message [dec] has failed to send

Explanation	The load-balancing feature has detected an error while trying to send an internal message.
Recommended Action	If this message was the result of performing a configuration command, then try unconfiguring and reconfiguring the same command. If the error message continues to be displayed then it may indicate that the system is low on memory. The show memory free command should be used to check if the system has sufficient available memory. If the system appears to have available memory and the error continues to be displayed, then please contact your Cisco technical support representative and provide the representative with the exact error message being seen as well as the version of IOS being used.

%ETHERCHANNEL_LB-3-XDR_MSG_XMIT_FAIL : Failed to transmit XDR message of size [dec] to slot [dec]

Explanation	An error occurred while attempting to send a load-balancing XDR message to the specified slot.
Recommended Action	Because the message failed to send, the specified slot may now be out of sync with the rest of the system. To correct the issue the card in the specified slot may be rebooted, at which point the full configuration will be re-synced with the card in that slot. If the specified slot is zero, then that message was intended for cards in all slots, and the router should be reloaded to re-sync the entire system.

ETHERNET_LACP

%ETHERNET_LACP-1-ISSU_NOMEMORY : msgtxt_nomemory

Explanation	The requested operation could not be accomplished because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%ETHERNET_LACP-3-ISSU_SENDFAILED : LACP ISSU: send message failed, rc = [dec]

Explanation	The sending of a message has failed. This is an informational message only.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_LACP-4-ISSU_INCOMPATIBLE : lacp-issu-compat: returned FALSE

Explanation	The ISSU compatibility matrix check has failed. This is an informational message only.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_LACP-4-ISSU_XFORM : [chars]: failed, rc=[chars]

Explanation	The ISSU transform has failed. This is an informational message only.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_LACP-4-RF_CLIENT_INIT : LACP HA: Unable to initiate RF client.

Explanation	LACP is unable to initialize as a RF client. This is an informational message only.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_LACP-4-RF_CLIENT_BUNDLE : LACP HA: Unable initiate checkpoint bundle mode.

Explanation	LACP is unable to initialize checkpoint bundle mode. This is an informational message only.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

ETHERNET_MLACP

%ETHERNET_MLACP-3-SYS_CFG_DUPL_ID : Remote mLACP peer has duplicate mLACP node-id [dec]

Explanation	A remote mLACP peer is configured with the same mLACP node-id as this device.
Recommended Action	Reconfigure the mLACP node-id to be unique between the two devices with the mLACP node-id configuration command. Refer to the mLACP configuration section of the Cisco IOS documentation for more information on configuring mLACP.

%ETHERNET_MLACP-3-SYS_CFG_INVALID_ID : Received invalid mLACP node-id [dec] from peer

Explanation	A remote mLACP peer is configured with an invalid mLACP node-id.
Recommended Action	Reconfigure the peer to send a valid mLACP node-id with the mLACP node-id configuration command. Refer to the mLACP configuration section of the Cisco IOS documentation for more information on configuring mLACP.

%ETHERNET_MLACP-3-PEER_ICCP_VERSION_INCOMPATIBLE : Peer ICCP version [dec] is incompatible with local ICCP version [dec].

Explanation	mLACP peer is running with a different version of ICCP. Incompatible ICCP would prevent mLACP from working properly.
Recommended Action	Reboot peer with identical IOS version would correct the issue. Compatible ICCP version between different IOS images can still be achieved by doing show lacp multichassis group on the both devices to check if ICCP versions are compatible. If ICCP versions are incompatible, repeat IOS image loading and CLI above until a compatible image is loaded.

%ETHERNET_MLACP-4-ICRM_CLIENT_RECV_REJ : Received rejected mLACP TLV from peer with message ID [dec]

Explanation	A remote mLACP peer has rejected an mLACP TLV.
Recommended Action	Issue the show version command on the local and remote devices to get the versions of IOS that are running. Reference the mLACP section of the IOS documentation to verify that mLACP is compatible between the IOS versions on the two devices. If the versions are compatible and the message still appears then please contact your Cisco technical support representative and provide the representative with the exact error message being seen as well as the versions of IOS from both devices.

%ETHERNET_MLACP-4-ICRM_CLIENT_RECV_BAD_LEN : Received an mLACP TLV with bad length [dec], total message length [dec]

Explanation	The mLACP TLV length is longer than the total message length.
Recommended Action	Issue the show version command on the local and remote devices to get the versions of IOS that are running. Reference the mLACP section of the IOS documentation to verify that mLACP is compatible between the IOS versions on the two devices. If the versions are compatible and the message still appears then please contact your Cisco technical support representative. Provide the representative with the exact message being seen as well as the output of the following commands, show version , show run , show lacp multi-chassis group , and show lacp multi-chassis port-channel .

%ETHERNET_MLACP-4-ICRM_CLIENT_RECV_NO_TYPELEN : Received an mLACP TLV without a type and/or length field ([dec])

Explanation	mLACP received an improperly formatted TLV from the peer. As a result the local and peer devices may have mismatched state data.
Recommended Action	Issue the show version command on the local and remote devices to get the versions of IOS that are running. Reference the mLACP section of the IOS documentation to verify that mLACP is compatible between the IOS versions on the two devices. If the versions are compatible and the message still appears then please contact your Cisco technical support representative and provide the representative with the exact error message being seen as well as the versions of IOS from both devices.

%ETHERNET_MLACP-4-CORE_ISOLATION : mLACP Core isolation failure: Attempting to failover [dec] LAGs in redundancy group [int]

Explanation	mLACP has detected isolation from the core and has attempted to failover.
Recommended Action	Use the show interchassis redundancy command to determine which core facing interface has triggered the isolation failure. Correct the failure for the given interface, this will clear the mLACP core isolation failure. Reference the mLACP section of the IOS documentation for more information on core isolation failures and related configuration commands.

%ETHERNET_MLACP-4-CORE_CONNECTED : mLACP has recovered from a core isolation failure. Attempting to recover [dec] LAGs in redundancy group [int]

Explanation mLACP has recovered from core isolation and has attempted to recover the LAGs in the redundancy group.

Recommended Action This message may not require any action. However the **show lacp multi-chassis group** and **show lacp multi-chassis port-channel** commands may be used to verify the state of the mLACP port-channels. Reference the mLACP section of the IOS documentation for details on core isolation failures and related configuration commands.

%ETHERNET_MLACP-4-PEER_DOWN : mLACP Peer down failure: Attempting to make [dec] local LAGs active in redundancy group [int]

Explanation mLACP has detected a peer down failure and has attempted to make the local port-channels become active.

Recommended Action The peer down failure should be corrected by re-enabling communication with the peer mLACP device. Use the **show redundancy interchassis** command on both the local and peer mLACP devices to determine which peer member IP has lost communication. Use this information to further debug the network communication issue, and re-enable communication with the peer. Reference the mLACP section of the IOS documentation for more information on peer down failures.

%ETHERNET_MLACP-4-PEER_UP : mLACP has recovered from a peer down failure in redundancy group [int]

Explanation mLACP is now in communication with the peer device, and has recovered from a previous peer down failure.

Recommended Action This message may not require any action. However the **show lacp multi-chassis group** and **show lacp multi-chassis port-channel** commands may be used to verify the state of the mLACP port-channels. Reference the mLACP section of the IOS documentation for details on peer down failures and related configuration commands.

%ETHERNET_MLACP-4-PEER_DISCONNECT : An mLACP peer has disconnected from redundancy group [int], attempting to reconnect

Explanation mLACP has detected that a peer device from the specified redundancy group has disconnected. mLACP will attempt to reconnect to the device until successful.

%ETHERNET_MLACP-4-PEER_DISCONNECT : An mLACP peer has disconnected from redundancy group [int], attempting to reconnect

Recommended Action This message is typically caused by a configuration event on the peer router, and so no action may be necessary. However if this message is unexpected then issue the **show redundancy interchassis** command on both the local and peer mLACP devices to determine which peer member IP has lost communication. Use this information to further debug the network communication issue, and re-enable communication with the peer. Reference the mLACP section of the IOS documentation for more information on peer down failures.

%ETHERNET_MLACP-4-PEER_RECONNECT_FAILED : The attempt to reconnect to the peer in redundancy group [int] has failed

Explanation After an mLACP peer device disconnected, an attempt was made to reconnect, however that attempt has failed.

Recommended Action To reinitialize the connection, unconfigure **mlacp interchassis group** from the port-channel, and then reconfigure it. After doing that, issue **show redundancy interchassis** to get the peer member IP connection status and the mLACP connection state. If the peer member IP connection status is not CONNECTED then there is a more basic communication issue that needs to be fixed. Otherwise if the peer member IP is CONNECTED but the mLACP state is not CONNECTED, then there could be a software issue. In that case collect the output of **show redundancy interchassis**, **show lacp multi-chassis group**, and **show lacp multi-chassis port-channel**. Then please contact your Cisco technical support representative and provide the collected information.

%ETHERNET_MLACP-6-PEER_CONNECT : mLACP peer is now connected in redundancy group [int]

Explanation This message indicates that the local mLACP device is now connected to a peer device in the specified redundancy group.

Recommended Action No action is required. To view the peer information the command **show lacp multi-chassis port-channel** or **show lacp multi-chassis group** may be issued.

%ETHERNET_MLACP-4-PC_CHANGE : mLACP [chars] status changed to [chars]

Explanation A mLACP port-channel state change event has occurred. This might have been caused by a mLACP failure or recovery event on the local or peer POA in the same redundancy group. It is normal to get these messages during provisioning and administrative actions on the mLACP port-channel.

%ETHERNET_MLACP-4-PC_CHANGE : mLACP [chars] status changed to [chars]

Recommended Action	User should debug further to analyze root cause of the event. Use show redundancy interchassis , show lacp multi-chassis port-channel , show lacp multi-chassis group and show lacp internal on both POAs to check mLACP port-channel health. If any failure exists, appropriate actions should be taken to recover port-channel from failure. If failure persists then please contact your Cisco technical support representative and provide the collected information.
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ETHERNET_OAM

%ETHERNET_OAM-2-CRIT_ERR : The Ethernet OAM protocol has encountered the critical error: [chars].

Explanation	The protocol has run into a critical error. The reason should be given in the brackets.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_OAM-6-CRITICAL_EVENT : The client on interface [chars] has received a Critical Event indication from its remote peer (action = [chars])

Explanation	An OAMPDU has been received from the remote client that indicates a Critical Event has occurred. The indicated action will be performed. If the action is error-block the link will go into error-block state, where data traffic is blocked but link-oam can still be exchanged. If the action is error-disable, the link is brought down.
Recommended Action	Investigate the issue on the remote peer

%ETHERNET_OAM-6-DYING_GASP : The client on interface [chars] has received a Dying Gasp indication from its remote peer (failure reason = [chars], action = [chars])

Explanation	An OAMPDU has been received from the remote client that indicates a Dying Gasp, which may signal that the remote client is about to go down. The indicated action will be performed. If the action is error-block the link will go into error-block state, where data traffic is blocked but link-oam can still be exchanged. If the action is error-disable, the link is brought down.
Recommended Action	Investigate the issue on the remote peer

%ETHERNET_OAM-6-LINK_FAULT : The client on interface [chars] has received a Link Fault indication from its remote peer (action = [chars])

Explanation An OAMPDU has been received from the remote client that indicates a Link Fault has been detected. This indicates a fault has occurred in the receive direction of the sending client. The indicated action will be performed. If the action is error-block the link will go into error-block state, where data traffic is blocked but link-oam can still be exchanged. If the action is error-disable, the link is brought down.

Recommended Action Check the wiring between the two interfaces.

%ETHERNET_OAM-6-CRITICAL_EVENT_CLEAR : The client on interface [chars] has received a clear of the Critical Event indication from its remote peer (action = [chars])

Explanation An OAMPDU has been received from the remote client that indicates that the Critical Event condition previously seen has cleared. If the action was error-block, traffic on the link will now be re-enabled. Error-disable state can only be cleared by performing a shut/no shut of the interface.

Recommended Action No action is required.

%ETHERNET_OAM-6-DYING_GASP_CLEAR : The client on interface [chars] has received a clear of the Dying Gasp indication from its remote peer (action = [chars])

Explanation An OAMPDU has been received from the remote client that indicates that the Dying Gasp condition previously seen has cleared. If the action was error-block, traffic on the link will now be re-enabled. Error-disable state can only be cleared by performing a shut/no shut of the interface.

Recommended Action No action is required.

%ETHERNET_OAM-6-LINK_FAULT_CLEAR : The client on interface [chars] has received a clear of the Link Fault indication from its remote peer (action = [chars])

Explanation An OAMPDU has been received from the remote client that indicates that the Link Fault condition previously seen has cleared. If the action was error-block, traffic on the link will now be re-enabled. Error-disable state can only be cleared by performing a shut/no shut of the interface.

Recommended Action No action is required.

%ETHERNET_OAM-5-LINK_MONITOR : [chars] detected over the last [chars] on interface [chars].

Explanation A monitored error has been detected to have crossed the user-specified threshold.

%ETHERNET_OAM-5-LINK_MONITOR : [chars] detected over the last [chars] on interface [chars].

Recommended Action No action is required.

%ETHERNET_OAM-5-EVENTTLV : [chars] is received from the remote client on interface [chars].

Explanation An Event TLV is received from the remote OAM client. It must have detected errors in receiving frames from this local interface.

Recommended Action No action is required.

%ETHERNET_OAM-6-LOOPBACK : Interface [chars] has [chars] the [chars] loopback mode.

Explanation The specified interface has entered or exited loopback mode because of protocol control or an external event, such as the interface link going down.

Recommended Action No action is required.

%ETHERNET_OAM-3-LOOPBACK_ERROR : Loopback operation on interface [chars] has encountered an error([chars]).

Explanation Because of the specified error, the loopback operation has ended abnormally.

Recommended Action No action is required.

%ETHERNET_OAM-6-ENTER_SESSION : The client on interface [chars] has entered the OAM session.

Explanation Ethernet OAM client on the specified interface has detected a remote client and has entered the OAM session.

Recommended Action No action is required.

%ETHERNET_OAM-6-EXIT_SESSION : The client on interface [chars] has left the OAM session.

Explanation Ethernet OAM client on the specified interface has experienced some state change.

Recommended Action No action is required.

%ETHERNET_OAM-6-LINK_TIMEOUT : The client on interface [chars] has timed out and exited the OAM session.

Explanation The Ethernet OAM client on the specified interface has not received any OAMPDUs in the number of seconds for timeout that were configured by the user. The client has exited the OAM session.

Recommended Action No action is required.

%ETHERNET_OAM-4-ISSU_INCOMPATIBLE : ether_oam-issu-compat: returned FALSE

Explanation The compatibility checking has failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_OAM-3-TRANSFORM_FAIL : ETHERNET OAM ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation The ETHERNET OAM ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the ETHERNET OAM state between the active device and the standby device is not identical.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%ETHERNET_OAM-2-GET_BUFFER : ETHERNET OAM ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation The ETHERNET OAM ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%ETHERNET_OAM-3-SESSION_UNREGISTRY : ETHERNET OAM ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The ETHERNET OAM ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%ETHERNET_OAM-2-INIT : ETHERNET OAM ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation	The ETHERNET OAM ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_OAM-2-SEND_NEGO_FAILED : ETHERNET OAM ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation	The ETHERNET OAM ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%ETHERNET_OAM-2-SESSION_REGISTRY : ETHERNET OAM ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The ETHERNET OAM ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%ETHERNET_OAM-3-INVALID_SESSION : ETHERNET OAM ISSU client does not have a valid registered session.

Explanation	The ETHERNET OAM ISSU client does not have a valid registered session.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%ETHERNET_OAM-3-MSG_SIZE : ETHERNET OAM ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation	The ETHERNET OAM ISSU client failed to calculate the MTU for the specified message. The ETHERNET OAM ISSU client is not able to send the message to the standby device.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%ETHERNET_OAM-2-SESSION_NEGO : ETHERNET OAM ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	An ISSU-compliant client transitions through a series of internal states. The ETHERNET OAM ISSU client encountered a 'client negotiation done' state that was unexpected. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

ETHERNET_PMLACP

%ETHERNET_PMLACP-3-SYS_CFG_DUPL_ID : Remote P-mLACP peer has duplicate P-mLACP node-id [dec]

Explanation	A remote P-mLACP peer is configured with the same P-mLACP node-id as this device.
Recommended Action	Reconfigure the P-mLACP node-id to be unique between the two devices with the mLACP node-id configuration command. Refer to the P-mLACP configuration section of the Cisco IOS documentation for more information on configuring P-mLACP.

%ETHERNET_PMLACP-3-SYS_CFG_INVALID_ID : Received invalid P-mLACP node-id [dec] from peer

Explanation	A remote P-mLACP peer is configured with an invalid P-mLACP node-id.
Recommended Action	Reconfigure the peer to send a valid P-mLACP node-id with the mLACP node-id configuration command. Refer to the P-mLACP configuration section of the Cisco IOS documentation for more information on configuring P-mLACP.

%ETHERNET_PMLACP-3-PEER_ICCP_VERSION_INCOMPATIBLE : Peer ICCP version [dec] is incompatible with local ICCP version [dec].

Explanation	P-mLACP peer is running with a different version of ICCP. Incompatible ICCP would prevent P-mLACP from working properly.
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%ETHERNET_PMLACP-3-PEER_ICCP_VERSION_INCOMPATIBLE : Peer ICCP version [dec] is incompatible with local ICCP version [dec].

Recommended Action Reboot peer with identical IOS version would correct the issue. Compatible ICCP version between different IOS images can still be achieved by doing `show lacp multichassis load-balance group` on the both devices to check if ICCP versions are compatible. If ICCP versions are incompatible, repeat IOS image loading and CLI above until a compatible image is loaded.

%ETHERNET_PMLACP-4-ICRM_CLIENT_RECV_REJ : Received rejected P-mLACP TLV from peer with message ID [dec]

Explanation A remote P-mLACP peer has rejected an P-mLACP TLV.

Recommended Action Issue the `show version` command on the local and remote devices to get the versions of IOS that are running. Reference the P-mLACP section of the IOS documentation to verify that P-mLACP is compatible between the IOS versions on the two devices. If the versions are compatible and the message still appears then please contact your Cisco technical support representative and provide the representative with the exact error message being seen as well as the versions of IOS from both devices.

%ETHERNET_PMLACP-4-ICRM_CLIENT_RECV_BAD_LEN : Received an P-mLACP TLV with bad length [dec], total message length [dec]

Explanation The P-mLACP TLV length is longer than the total message length.

Recommended Action Issue the `show version` command on the local and remote devices to get the versions of IOS that are running. Reference the P-mLACP section of the IOS documentation to verify that P-mLACP is compatible between the IOS versions on the two devices. If the versions are compatible and the message still appears then please contact your Cisco technical support representative. Provide the representative with the exact message being seen as well as the output of the following commands, `show version`, `show run`, `show lacp multi-chassis load-balance group`, and `show lacp multi-chassis load-balance port-channel`.

%ETHERNET_PMLACP-4-ICRM_CLIENT_RECV_NO_TYPELEN : Received an P-mLACP TLV without a type and/or length field ([dec])

Explanation P-mLACP received an improperly formatted TLV from the peer. As a result the local and peer devices may have mismatched state data.

Recommended Action Issue the `show version` command on the local and remote devices to get the versions of IOS that are running. Reference the P-mLACP section of the IOS documentation to verify that P-mLACP is compatible between the IOS versions on the two devices. If the versions are compatible and the message still appears then please contact your Cisco technical support representative and provide the representative with the exact error message being seen as well as the versions of IOS from both devices.

%ETHERNET_PMLACP-4-CORE_ISOLATION : P-mLACP Core isolation failure: Attempting to failover [dec] ports in redundancy group [int]

Explanation	P-mLACP has detected isolation from the core and has attempted to failover.
Recommended Action	Use the show interchassis redundancy command to determine which core facing interface has triggered the isolation failure. Correct the failure for the given interface, this will clear the P-mLACP core isolation failure. Reference the P-mLACP section of the IOS documentation for more information on core isolation failures and related configuration commands.

%ETHERNET_PMLACP-4-CORE_CONNECTED : P-mLACP has recovered from a core isolation failure. Attempting to recover [dec] ports in redundancy group [int]

Explanation	P-mLACP has recovered from core isolation and has attempted to recover the ports in the redundancy group.
Recommended Action	This message may not require any action. However the show lacp multi-chassis load-balance group and show lacp multi-chassis load-balance port-channel commands may be used to verify the state of the P-mLACP port-channels. Reference the P-mLACP section of the IOS documentation for details on core isolation failures and related configuration commands.

%ETHERNET_PMLACP-4-PEER_DOWN : P-mLACP Peer down failure: Attempting to make [dec] local ports active in redundancy group [int]

Explanation	P-mLACP has detected a peer down failure and has attempted to make the local port-channels become active.
Recommended Action	The peer down failure should be corrected by re-enabling communication with the peer P-mLACP device. Use the show redundancy interchassis command on both the local and peer P-mLACP devices to determine which peer member IP has lost communication. Use this information to further debug the network communication issue, and re-enable communication with the peer. Reference the P-mLACP section of the IOS documentation for more information on peer down failures.

%ETHERNET_PMLACP-4-PEER_UP : P-mLACP has recovered from a peer down failure in redundancy group [int]

Explanation	P-mLACP is now in communication with the peer device, and has recovered from a previous peer down failure.
Recommended Action	This message may not require any action. However the show lacp multi-chassis load-balance group and show lacp multi-chassis load-balance port-channel commands may be used to verify the state of the P-mLACP port-channels. Reference the P-mLACP section of the IOS documentation for details on peer down failures and related configuration commands.

%ETHERNET_PMLACP-4-PEER_DISCONNECT : An P-mLACP peer has disconnected from redundancy group [int], attempting to reconnect

Explanation	P-mLACP has detected that a peer device from the specified redundancy group has disconnected. P-mLACP will attempt to reconnect to the device until successful.
Recommended Action	This message is typically caused by a configuration event on the peer router, and so no action may be necessary. However if this message is unexpected then issue the show redundancy interchassis command on both the local and peer P-mLACP devices to determine which peer member IP has lost communication. Use this information to further debug the network communication issue, and re-enable communication with the peer. Reference the P-mLACP section of the IOS documentation for more information on peer down failures.

%ETHERNET_PMLACP-4-PEER_RECONNECT_FAILED : The attempt to reconnect to the peer in redundancy group [int] has failed

Explanation	After an P-mLACP peer device disconnected, an attempt was made to reconnect, however that attempt has failed.
Recommended Action	To reinitialize the connection, unconfigure mlacp interchassis group from the port-channel, and then reconfigure it. After doing that, issue show redundancy interchassis to get the peer member IP connection status and the P-mLACP connection state. If the peer member IP connection status is not CONNECTED then there is a more basic communication issue that needs to be fixed. Otherwise if the peer member IP is CONNECTED but the P-mLACP state is not CONNECTED, then there could be a software issue. In that case collect the output of show redundancy interchassis , show lacp multi-chassis load-balance group , and show lacp multi-chassis load-balance port-channel . Then please contact your Cisco technical support representative and provide the collected information.

%ETHERNET_PMLACP-6-PEER_CONNECT : P-mLACP peer is now connected in redundancy group [int]

Explanation	This message indicates that the local P-mLACP device is now connected to a peer device in the specified redundancy group.
Recommended Action	No action is required. To view the peer information the command show lacp multi-chassis load-balance port-channel or show lacp multi-chassis load-balance group may be issued.

ETHERNET_PROXY through EVTMON_PROXY

- [ETHERNET_PROXY](#)
- [ETHER_LMI](#)

- [ETHER_LMI_HA](#)
- [ETHER_PLATFORM_SW](#)
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ETHERNET_PROXY

%ETHERNET_PROXY-2-PROXY_IPC_INIT_FAILED : CPP ETHERNET Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. CPP ETHERNET Proxy initialization detected that the IPC interface initialization failed. CPP ETHERNET proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_PROXY-3-PROXY_BAD_MSG : CPP ETHERNET Proxy received bad length message type [dec]

Explanation	Cisco internal software error. CPP ETHERNET Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_PROXY-3-PROXY_INV_MSG : CPP ETHERNET Proxy received invalid message type [dec]

Explanation	Cisco internal software error. CPP ETHERNET Proxy received an invalid message type from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_PROXY-3-PROXY_IPC_ALLOC_FAILED : CPP ETHERNET Proxy [chars] message lost due to message buffer allocation failure., MSGDEF_LIMIT_MEDIUM

Explanation	Cisco internal software error. CPP ETHERNET Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_PROXY-3-PROXY_IPC_SEND_FAILED : CPP ETHERNET Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation	Cisco internal software error. CPP ETHERNET Proxy message processing detected a message sent failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHERNET_PROXY-3-PROXY_IPC_NO_HDLR : CPP ETHERNET Proxy received unregistered message type [dec]

Explanation	Cisco internal software error. CPP ETHERNET Proxy received a message from control plane but there is no registered handler. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

ETHER_LMI

%ETHER_LMI-6-MISMATCHED_VLAN_CONFIGURED : VLAN [chars] configured but not in VLAN mapping for UNI [chars]

Explanation	VLANs configured on UNI but do not exist according to VLAN mapping received from Network via Ethernet LMI.
Recommended Action	Verify configurations of VLANs on UNI to match those assigned.

%ETHER_LMI-6-MISMATCHED_VLAN_NOT_CONFIGURED : VLAN [chars] not configured but in VLAN mapping for UNI [chars]

Explanation VLAN mapping received from Network via Ethernet LMI do not match those which are configured on the UNI.

Recommended Action Verify configurations of VLANs on UNI to match those assigned.

ETHER_LMI_HA

%ETHER_LMI_HA-2-INIT : Ether LMI ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation The Ether LMI ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHER_LMI_HA-3-TRANSFORM : Ether LMI ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation The Ether LMI ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the Ether LMI state between the active device and the standby device is not identical.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%ETHER_LMI_HA-3-MSG_NOT_OK : Ether LMI ISSU client 'Message Type [dec]' is not compatible

Explanation The Ether LMI ISSU client received an incompatible message from the peer device. The message cannot be processed.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%ETHER_LMI_HA-3-MSG_SIZE : Ether LMI ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation The Ether LMI ISSU client failed to calculate the MTU for the specified message. The Ether LMI ISSU client will not be able to send the message to the standby device.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%ETHER_LMI_HA-3-INVALID_SESSION : Ether LMI ISSU client does not have a valid registered session.

Explanation The Ether LMI ISSU client does not have a valid registered session.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%ETHER_LMI_HA-2-SESSION_REGISTRY : Ether LMI ISSU client failed to register session information. Error: [dec] ([chars])

Explanation The Ether LMI ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%ETHER_LMI_HA-3-SESSION_UNREGISTRY : Ether LMI ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation The Ether LMI ISSU client failed to unregister session information.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%ETHER_LMI_HA-2-SESSION_NEGO : Ether LMI ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation An ISSU-compliant client transitions through a series of internal states. The Ether LMI ISSU client encountered a 'client negotiation done' state that was unexpected. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%ETHER_LMI_HA-2-SEND_NEGO_FAILED : Ether LMI ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation The Ether LMI ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%ETHER_LMI_HA-2-GET_BUFFER : Ether LMI ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation The Ether LMI HA client failed to get buffer space for building chkpt message. Message cannot be sent to standby device. If a problem occurs, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

ETHER_PLATFORM_SW

%ETHER_PLATFORM_SW-3-DOT1AH_DEL_MAP_FAILED : Unable to remove 802.1ah mapping entry for B-MAC [enet], C-MAC [enet].

Explanation The Ethernet Software Platform was unable to remove an 802.1ah mapping entry from the tree of entries.

Recommended Action This error may be transient. If the error persists you may need to reload the router.

%ETHER_PLATFORM_SW-3-DOT1AH_CHNK_LCK_FAILED : Unable to lock memory while learning C-MAC to B-MAC mapping

Explanation The Ethernet Software Platform was unable to lock a particular piece of memory while attempting to learn a C-MAC to B-MAC mapping

Recommended Action This error may be transient. If the error persists you may need to reload the router.

%ETHER_PLATFORM_SW-3-DOT1AH_PROC_ENQ_FAILED : Unable to enqueue a request to learn a C-MAC to B-MAC mapping

Explanation An error occurred while trying to enqueue a request to learn a C-MAC to B-MAC mapping.

Recommended Action This error may be transient. If the error persists you may need to reload the router.

%ETHER_PLATFORM_SW-3-EFP_CANNOT_CLEAR_DIM : Unable to clear EFP's encapsulation data

Explanation	An error occurred while trying to clear the encapsulation data for an EFP.
Recommended Action	Enable debugging with 'debug ethernet service instace'. Retry the operation that caused the error to see if additional debugging messages are provided. If the error persists you may need to reload the router.

%ETHER_PLATFORM_SW-3-REWRITE_FAILED : Unable to apply rewrite to packet

Explanation	An error occurred while trying to perform an ingress rewrite operation on a frame.
Recommended Action	This error may be transient. If the error persists you may need to reload the router.

%ETHER_PLATFORM_SW-3-BD_NULL : Unable to get bridge-domain [dec] information for EFP [dec]

Explanation	The software dataplane was unable to get the bridge-domain information for the EFP.
Recommended Action	This error may be transient. If the error persists you may need to reload the router.

%ETHER_PLATFORM_SW-3-NO_PD_EFP : Unable to find software platform EFP information for EFP ID [dec]

Explanation	The software dataplane was unable to get the platform dependent EFP information for the EFP with the given ID.
Recommended Action	This error may indicate a bug in the software dataplane implementation. If the error occurs after a specific configuration was performed then precisely record those configuration steps. Contact your Cisco technical support representative and provide the gathered information.

ETHER_SERVICE

%ETHER_SERVICE-6-EVC_VLAN_NOT_CONFIGURED : VLANs [chars] not configured at [chars] but is in a CEVLAN/EVC map

Explanation	VLANs part of the CEVLAN/EVC map for an EVC associated to an interface but the interface doesn't have those VLANs configured
Recommended Action	Verify configurations of VLANs on the interface

%ETHER_SERVICE-6-EVC_STATUS_CHANGED : status of [chars] changed to [chars]

Explanation EVC status has changed**Recommended Action** No Action

%ETHER_SERVICE-6-UPDOWN : Service instance [dec] on interface [chars] changed to [chars]

Explanation Service instance shutdown due to errdisable**Recommended Action** No Action

%ETHER_SERVICE-6-ERR_DISABLED : [chars] - shutdown service instance [dec] at [chars]

Explanation Service instance shutdown due to errdisable**Recommended Action** No Action

%ETHER_SERVICE-4-UNSUP_MIRPENABLE : %% Not supported since no ethernet mac-flush notification mirp command is configured.

Explanation no ethernet mac-flush notification mirp is configured.**Recommended Action** Configure ethernet mac-flush notification mirp command.

%ETHER_SERVICE-3-EFP_NO_MEMORY : [chars] : memory allocation failed for [chars]

Explanation memory allocation failed**Recommended Action** 'show proc mem' or 'show buffs' to check if memory or buffer is full. shutdown unused tasks or reset cards usually can recover those memory leak problem. Copy the error and send it to TAC if those actions does not help.

%ETHER_SERVICE-3-EFP_NULL_POINTER : [chars] : [chars] pointer is NULL

Explanation NULL pointer**Recommended Action** Copy the error and send it to TAC

%ETHER_SERVICE-3-EFP_INVALID_TYPE : [chars] : [chars] is INVALID

Explanation	invalid type
Recommended Action	Copy the error and send it to TAC

%ETHER_SERVICE-3-ETHER_CHAN_SERV_INSTANCE_POLICY_REMOVED : [chars] service policy [chars] has been removed from service instance [dec] of ethernet channel [chars] due to failure to install the policy on member link [chars].

Explanation	The member link does not support the service policy or installation failed due to resources limitation at the time.
Recommended Action	Check for any error message that indicates incompatibility between the policy and the member link. Remove the member link from the ethernet channel and reconfigure the policy on the service instance. If the problem persists, copy the error exactly as it appears and report it to your technical support representative.

%ETHER_SERVICE-3-EFP_DEBUG_INIT_FAILURE : The Ether Infra Trace and Debug Library Failed to initialize successfully due to error: [int]

Explanation	All trace and debug may not work
Recommended Action	No Action

ETHER_SERVICE_IPC

%ETHER_SERVICE_IPC-3-IPCPORT_CREATE : Unable to create IPC port ([chars]).

Explanation	Ethernet Service was unable to create an IPC port
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ETHER_SERVICE_IPC-3-IPCPORT_REGISTER : Unable to register IPC port ([chars]).

Explanation	Ethernet Service was unable to register an IPC port
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ETHER_SERVICE_IPC-3-IPCPORT_REMOVE : Unable to remove IPC port ([chars]).

Explanation	Ethernet Service was unable to remove an IPC port
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%ETHER_SERVICE_IPC-3-IPCPORT_REMOVE : Unable to remove IPC port ([chars]).

Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%ETHER_SERVICE_IPC-3-IPCPROCESSES : Unable to create IPC processes on ([chars]).

Explanation	Ethernet Service was unable to create IPC processes
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%ETHER_SERVICE_IPC-4-NOIPCPORT : IPC port is NULL, ([chars])

Explanation	Ethernet Service cannot send the message as the IPC port information is NULL. This is a warning message, no action is required.
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%ETHER_SERVICE_IPC-4-NOMESSAGE : Message is NULL, ([chars])

Explanation	Cannot send the message as the message is NULL. This is a warning message, no action is required
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%ETHER_SERVICE_IPC-4-NOIPCDATA : IPC Message has no data area, ([chars])

Explanation	Cannot find data area in an IPC message. This is a warning message, no action is required
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%ETHER_SERVICE_IPC-3-IPCSSESSION : Unable to open an IPC session for communicating with ([chars]). Error: [chars]

Explanation	This is an internal error
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Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.
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%ETHER_SERVICE_IPC-3-NOIPDESC : Unable to allocate IPC descriptor for Ethernet Service on ([chars]).

Explanation	This is an internal error
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ETHER_SERVICE_IPC-3-NOMEM : Unable to allocate memory for Ethernet Service on ([chars]).

Explanation	This is an internal error
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%ETHER_SERVICE_IPC-3-IPC_TRANSMIT_FAILED : IPC message transmission failure ([chars])

Explanation	An error was detected when transmitting an IPC message between Standby RP and SP. The failure most likely occurred because of a software error. The message output identifies the type of error that occurred.
Recommended Action	This could be a transient error. If this error persists, copy the error message exactly as it appears, and report it to your technical support representative.

%ETHER_SERVICE_IPC-3-IPC_RESP_ERROR : IPC send response error ([chars])

Explanation	An error was detected in the response for an IPC message that was transmitted to the peer.
Recommended Action	This error could be transient. If this error persists, copy the error message exactly as it appears, and report it to your technical support representative.

%ETHER_SERVICE_IPC-3-RMI_FAILED : Ethernet Infra failed to register with the Resource Manager (RMI), [chars]

Explanation	Ethernet Infra registers with the Resource Manager (RMI) to get status notifications about resources (such as IPC) and uses them to throttle the sending of messages to the peer. The Ethernet Infra was unable to register itself with RMI and hence cannot throttle the sending of any messages. The system may still operate normally. This error most likely occurred because of a software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ETHER_SERVICE_IPC-3-RMI_CALLBACK : Ethernet Infra encountered an error while processing a callback from the Resource Manager (RMI), [chars]

Explanation Ethernet Infra registers with the Resource Manager (RMI) to get status notifications about resources (such as IPC) and uses them to throttle the sending of messages to the peer. The Ethernet Infra encountered an error while processing a callback from RMI. This error most likely occurred because of a software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show tech** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

EVENT

%EVENT-3-INSERT_FAILURE : Failed to insert [chars]

Explanation The event process failed to insert the newly created row in its linked list data structure

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%EVENT-3-NULL_STRUCT : Null pointer to the [chars] structure

Explanation The process was woken up with an element, which had a null pointer to the test structure

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%EVENT-3-NULL_ELEMENT : Null pointer in the watched queue for [chars] test

Explanation The process was woken up with an NULL element

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

EVENTLIB

%EVENTLIB-3-CPUHOG : [chars]: [int]ms, Traceback=[chars]

Explanation This error occurs when a particular event consumes an unfair share of the CPU that may degrade overall system response time.

%EVENTLIB-3-CPUHOG : [chars]: [int]ms, Traceback=[chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show platform software process event** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EVENTLIB-3-RUNHOG : [chars]: [int]ms, Traceback=[chars]

Explanation This error occurs when a particular event consumes an overall unfair share of the CPU that may degrade overall system response time.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show platform software process event** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EVENTLIB-3-TIMEHOG : [chars]: [int]ms, Traceback=[chars]

Explanation This error occurs when a particular event takes an unusually long time to complete. This may affect overall system response time.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show platform software process event** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EVENTLIB-3-HISTSUMM : dispatch start: [int]ms elapsed time: [int]ms detected hog: [int] set count: [int]

Explanation This event summary is part of a CPUHOG or TIMEHOG error, providing diagnostic details useful to engineering. Save this summary message along with the HOG error.

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

%EVENTLIB-3-HISTELEM : elem[[int]] event: [chars] [chars] set: [int]ms unset: [int]ms hog check: [dec] caller: [IPV6 address] app-info: [chars]

Explanation This event element is part of a CPUHOG or TIMEHOG error, providing diagnostic details useful to engineering. Save all element messages along with the HOG error.

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

%EVENTLIB-3-EVFDREAD : Event notification read failed with err [chars]

Explanation This occurs when we fail to read a thread notify event

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

EVENT_TRACE

%EVENT_TRACE-6-ENABLE : Trace already enabled.

Explanation Specified event trace has already been enabled

Recommended Action This is a debug message only. No action is required.

%EVENT_TRACE-3-SIZE_ELEM : Size of trace element = [dec] is greater than size = [dec] allowed

Explanation The size of the specified individual trace entry is greater than the allowed size.

Recommended Action Reduce the individual trace entry size so as not to exceed the max while initializing the event trace

%EVENT_TRACE-3-NUM_ELEM : Number of trace element = [dec] is greater than number = [dec] allowed

Explanation The number of trace entries exceed the allowed amount

Recommended Action Reduce the number of trace entries

%EVENT_TRACE-3-NO_MEM : Not enough memory for [dec] trace elements.

Explanation The system memory is insufficient for the number of trace elements specified.

Recommended Action Reduce the size of the event trace

%EVENT_TRACE-3-NO_FILENAME : Dump file not specified.

Explanation	No filename has been specified as output for the event trace.
Recommended Action	You must specify the trace dump filename. To specify the trace dump filename, enter the monitor event-trace comp dump-file filename command in global configuration mode

%EVENT_TRACE-3-SIZE_FILENAME : Trace filename size = [dec] greater than size = [dec] allowed

Explanation	The length of the specified Event Trace filename exceeds the allowed.
Recommended Action	Shorten the filename.

%EVENT_TRACE-3-OPEN_FILE : Couldn't open [chars]...

Explanation	The Event Trace subsystem could not open a file for the specified event trace dump.
Recommended Action	If a file by the same name already exists, rename the dump file or remove the existing file from the file system.

%EVENT_TRACE-3-WRITE_FILE : Error writing to file [chars]

Explanation	Event trace is not able to write to the specified filesystem
Recommended Action	The filesystem might not be available. Try changing the destination filesystem and dumping there. If none work, copy the error message exactly as it and call your Cisco technical support representative

%EVENT_TRACE-3-CLOSE_FILE : Error closing file [chars]

Explanation	The Event Trace subsystem can not close the specified file
Recommended Action	No action required. This will not affect system functionality

%EVENT_TRACE-6-NO_FORMATTER : [chars]: no formatter provided, binary dumping.

Explanation	No formatter function was provided during the initialization of the specified event trace.
Recommended Action	No action is required.

%EVENT_TRACE-3-RESIZE : Enable trace before resizing

Explanation	The specified event trace must be enabled before resizing occurs.
Recommended Action	Enable the specified event trace.

%EVENT_TRACE-3-OPEN : [chars]: Trace failed to open

Explanation	Initialization of the specified event trace has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EVENT_TRACE-3-CONTINUOUS : Enable trace before setting continuous display

Explanation	The specified event trace must be enabled before continuous display could occurs.
Recommended Action	Enable the specified event trace.

%EVENT_TRACE-3-NO_TRACE_NAME : Invalid trace name [chars]

Explanation	There is no trace buffer configured by the name entered.
Recommended Action	Check whether there is an event trace buffer configured by the name entered and then enter the correct trace buffer name.

%EVENT_TRACE-3-GROUP_ID : Duplicate registration of group-id [dec]

Explanation	Software subsystem is trying to register a group id for event trace which has already been used by another subsystem.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

EVTMON_PROXY

%EVTMON_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Explanation	IPC handler initialization failed.
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%EVTMON_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%EVTMON_PROXY-4-PROXY_IPC_INVALID_MSG : [hex]

Explanation	Received an invalid IPC messages subtype.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EVTMON_PROXY-4-PROXY_IPC_EVTMON_FEAT_UPDATE_FAILED : feature user failed to [chars] because of [chars]

Explanation	Event monitor feature user failed to attach or detach.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%EVTMON_PROXY-4-PROXY_IPC_EVTMON_REC_UPDATE_FAILED : event record update failed

Explanation	Event monitor failed to attach or detach event record.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

EVUTIL through FED_L3_ERRMSG

- [EVUTIL](#)
- [EXTASSIGNER](#)
- [FARM_DSPRM](#)

- [FEC_ISSU](#)
- [FED](#)
- [FED_FNF_ERRMSG](#)
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- [FED_L2M_ERRMSG](#)
- [FED_L3M_ERRMSG](#)
- [FED_L3_ERRMSG](#)

EVUTIL

%EVUTIL-6-PREREQUISITE : Preferred library is absent

Explanation	Eventlib has detected that a preferred library is missing from the process.
Recommended Action	This is an informational message.

%EVUTIL-3-PREREQUISITE_INIT : A preferred library has failed to initialize: [chars]

Explanation	Eventlib has detected that a preferred library which provides infrastructure services has failed to fully initialize.
Recommended Action	Review the process logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%EVUTIL-3-PERMISSION : Operation not permitted for pid [dec] tid [dec]

Explanation	Eventlib has detected that a process has attempted to invoke an API that is listed as having a level of permission.
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%EVUTIL-3-PERMISSION : Operation not permitted for pid [dec] tid [dec]**Recommended
Action**

Review the process logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at <http://www.cisco.com/tac>. With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

EXTASSIGNER

%EXTASSIGNER-3-NOCB : Failed to find the skinnyCB**Explanation****Recommended
Action**

%EXTASSIGNER-3-NOACTPHONE : Failed to find the calling phone**Explanation****Recommended
Action**

%EXTASSIGNER-3-NOMEM : Failed to malloc**Explanation****Recommended
Action**

%EXTASSIGNER-3-ERRTAG : Invalid tag([dec])**Explanation****Recommended
Action**

%EXTASSIGNER-3-NULLPTR : Null pointer ([chars]:[dec])

Explanation

**Recommended
Action**

%EXTASSIGNER-3-ERRSYNC : Failed to sync tag([dec]) to standby CME

Explanation

**Recommended
Action**

%EXTASSIGNER-3-ERRSYNC2 : Failed to sync re-assign tag ([dec]) for [dec] to standby CME

Explanation

**Recommended
Action**

%EXTASSIGNER-6-ASSIGNED : Extension assignment successful for phone:SEP[chars]. New pool([dec]). Old pool([dec]).

Explanation Successfully assigned the pool

**Recommended
Action** No action is required.

%EXTASSIGNER-6-UNASSIGNED : Extension unassignment successful for phone:SEP[chars]. Unassigned pool([dec]).

Explanation Successfully unassigned the pool

**Recommended
Action** No action is required.

FARM_DSPRM

%FARM_DSPRM-4-NOC5510WARN : dsp service dspfarm can not be configured for this card type.

Explanation There is C549 NM-HDV card configured for dspfarm service. Only one dspfarm card type is allowed.

**Recommended
Action** If C5510 card type dspfarm is desired then remove C549 NM-HDV dspfarm service and reconfigure dspfarm service for this card.

%FARM_DSPRM-6-CALLDROPINFO : dspfarm active calls on this card dsp [dec] channel [dec] will be dropped.

Explanation The card has been removed. Dspfarm active calls on this card will be dropped.

Recommended Action No action is required.

%FARM_DSPRM-6-CARDREMOVEINFO : dspfarm card slot [dec] is removed.

Explanation dspfarm card type is removed from the slot.

Recommended Action No action is required.

%FARM_DSPRM-6-CARDINSERTINFO : dspfarm card slot [dec] is inserted.

Explanation dspfarm card type is inserted into the slot.

Recommended Action No action is required.

FEC_ISSU

%FEC_ISSU-3-INIT : FEC ISSU client initialization failed at [chars], error [chars]

Explanation FEC ISSU client could not be initialized, this will cause catastrophic failure when ISSU upgrade or downgrade is performed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FEC_ISSU-3-TRANSFORM : FEC ISSU client [chars] transform failed, error [chars]

Explanation FEC ISSU client could not transform the message. If the transmit transformation failed, it means that the checkpoint message can not be sent to the standby unit. If the receive transformation failed, it means that the checkpoint message can not be applied on the standby unit. In both cases the FEC state will not be identical with the active unit.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%FEC_ISSU-3-MSG_NOT_OK : FEC ISSU client message [dec] is not compatible

Explanation	FEC ISSU client received an incompatible message from the peer unit. Since the message is not compatible it can be processed by this unit
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%FEC_ISSU-3-MSG_SIZE : FEC ISSU client failed to get the message size for message [dec]

Explanation	FEC ISSU client failed to calculate message size for the message specified. The OIR ISSU client will not be able to send message to the standby unit.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%FEC_ISSU-3-SESSION : FEC ISSU client [chars]

Explanation	FEC ISSU client observed an error during a session negotiation with the peer unit. When there is a problem with the session the standby unit can not be brought up.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%FEC_ISSU-3-SESSION_UNREGISTRY : FEC ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The FEC ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%FEC_ISSU-3-SEND_FAILED : FEC ISSU client failed to send a negotiation message, error [dec]

Explanation	FEC ISSU client could not send a session negotiation message to the peer. When there is a problem in the negotiation the standby unit can not be brought up.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%FEC_ISSU-3-BUFFER : FEC ISSU client failed to get buffer for message, error [dec]

Explanation	FEC ISSU client failed to get buffer for building a negotiation message. Hence, it can send the negotiation message to the standby unit. When there is a problem in the negotiaiton the standby unit can not be brought up.
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%FEC_ISSU-3-BUFFER : FEC ISSU client failed to get buffer for message, error [dec]

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%FEC_ISSU-3-CAPABILITY : FEC ISSU client [chars]

Explanation FEC SWITCH ISSU client observed an error during capability negotiaiton. When this error happens there is a mismatch between the client capability between the active and standby unit.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%FEC_ISSU-3-POLICY : FEC ISSU client message type [dec] is [chars]

Explanation FEC ISSU client received an message type which it does not support. The policy is applied to make the session compatible.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id>)

FED

%FED-2-INIT_FAILED : Module [chars] failed initialization[chars]

Explanation The specified module failed initialization. The switch will reload.

Recommended Action No action is required

%FED-0-HWSTALL : ASIC [dec] CORE [dec] Packet Buffer Complex Stalled. Switch will be reloaded

Explanation The specified asic/core packet buffer complex stalled. This is a critical error. This switch will reload. If there is a redundant switch, switch over will happen

Recommended Action No action is required

FED_FNF_ERRMSG

%FED_FNF_ERRMSG-6-UNSUPPORTED : [chars] is unsupported

Explanation The requested configuration is not supported.

Recommended Action Please do not use the current configuration.

%FED_FNF_ERRMSG-6-NOTALLOWED : [chars] is not allowed.

Explanation The requested configuration is not allowed.**Recommended Action** Please try to modify your configuration.

%FED_FNF_ERRMSG-3-WDAVCATTACHERROR : Unable to attach flow monitor or IP NBAR to interface [chars]. Flow monitor and IP NBAR are not allowed on the same interface.

Explanation The requested configuration is not allowed.**Recommended Action** Please try to modify your configuration.

%FED_FNF_ERRMSG-3-SGTCATTACHERROR : Detach the existing [chars] before attaching [chars] to interface [chars]. These features cannot co-exist.

Explanation The requested configuration is not allowed.**Recommended Action** Please try to modify your configuration.

%FED_FNF_ERRMSG-3-ATTACHERROR : Failed to attach flow monitor to interface [chars].

Explanation An error occurs when attaching the flow monitor to the interface.**Recommended Action** Find out more about the error by using show mgmt-infra trace messages fed-fnf-config-error switch number command

%FED_FNF_ERRMSG-3-DETACHERROR : Failed to detach flow monitor from interface [chars]

Explanation Error occurs when detaching the flow monitor from the interface.**Recommended Action** Find out more about the error by using show mgmt-infra trace messages fed-fnf-config-error switch number command**FED_IPC_MSG**

%FED_IPC_MSG-5-FAST_RELOAD_COMPLETE : Fast reload operation complete

Explanation This is used to indicate that the fast reload is complete.**Recommended Action** No action needed. This is not an error.

FED_L2M_ERRMSG

%FED_L2M_ERRMSG-3-RSRC_ERR : Failed to allocate hardware resource for group [chars] - resource type: [chars] - reason: [chars]

Explanation Hardware resource allocation has failed and the entry will not be programmed.

Recommended Action Find out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_L2M_ERRMSG-3-COLLISION_LIST_RSRC_ERR : Failed to allocate hardware resource for group [chars] - reason: [chars] - entry collided with groups: [chars] in hash

Explanation Hardware resource allocation has failed and the entry will not be programmed.

Recommended Action Find out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

FED_L3M_ERRMSG

%FED_L3M_ERRMSG-3-RSRC_ERR : Failed to allocate hardware resource for [chars] - rc:[chars]

Explanation Hardware resource allocation has failed and the entry will not be programmed.

Recommended Action Find out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

FED_L3_ERRMSG

%FED_L3_ERRMSG-3-ecr_err : Platform unicast routing ecr module encountered [chars] error in FED

Explanation An error occurred in platform ecr code.

Recommended Action Find out more about this error by using the show platform ipunicast ecr commands.

%FED_L3_ERRMSG-3-fib_err : Platform unicast routing fib module encountered [chars] error in FED

Explanation An error occurred in platform fib code.

%FED_L3_ERRMSG-3-fib_err : Platform unicast routing fib module encountered [chars] error in FED

Recommended Action Find out more about this error by using the show platform ipunicast route commands.

%FED_L3_ERRMSG-3-pbr_err : Platform unicast routing pbr module encountered [chars] error in FED

Explanation An error occurred in platform pbr code.

Recommended Action Find out more about this error by using the show platform ipunicast policy commands

%FED_L3_ERRMSG-3-wccp_err : Platform unicast routing wccp module encountered [chars] error in FED

Explanation An error occurred in platform wccp code.

Recommended Action Find out more about this error by using the show platform ipunicast wccp commands.

%FED_L3_ERRMSG-3-RSRC_ERR : Failed to allocate hardware resource for [chars] - rc:[dec]

Explanation Hardware resource allocation has failed and the entry will not be programmed.

Recommended Action Find out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_L3_ERRMSG-3-mpls_recursive_label_err : Unsupported recursive MPLS label for local_label [int] [chars]

Explanation The specified MPLS local label is recursive and is not yet supported.

Recommended Action Find out more about this error by using the show commands for the specified local_label and modify the config using LDP filters to remove recursive labels.

%FED_L3_ERRMSG-3-UNSUPPORTED_CMD : [chars] is not supported on the interface [chars]

Explanation The specified cli is not yet supported.

Recommended Action Find out more about this unsupported feature from the release documents and remove the command from the interface config mode

%FED_L3_ERRMSG-3-MAX_TUNNEL : The maximum number of Tunnel has been reached

Explanation	Hardware resource allocation has failed and the entry will not be programmed.
Recommended Action	New Tunnels will not be working as expected.

%FED_L3_ERRMSG-3-mpls_ecmp_modify_err : MPLS Load Balance modify is not supported [int]

Explanation	Modification of an ECMP object with MPLS Adjacencies is not supported yet. It is not an expected event
Recommended Action	Find out more about this error by using the show commands for the specified object and identify the possible trigger for the modify.

%FED_L3_ERRMSG-3-mpls_pause_create : Critical limit reached for MPLS [chars] resource. Create paused

Explanation	The specified MPLS local label is recursive and is not yet supported.
Recommended Action	Find out more about this error by using the show commands for the specified local_label and modify the config using LDP filters to remove recursive labels.

%FED_L3_ERRMSG-3-mpls_resume_create : Resuming create for MPLS [chars] resource.

Explanation	The specified MPLS local label is recursive and is not yet supported.
Recommended Action	Find out more about this error by using the show commands for the specified local_label and modify the config using LDP filters to remove recursive labels.

%FED_L3_ERRMSG-3-mpls_out_of_resource : Out of resource for MPLS [chars]. Failed to program [chars] in hardware

Explanation	Running out of Hardware resource to support the scale of this MPLS feature.
Recommended Action	Verify supported scale for the platform from sdm and reduce the scale accordingly. Capture show platform command for mpls summary, team utilization and resource utilization

%FED_L3_ERRMSG-3-mpls_unsupported_feature : Unsupported feature. Failed to program [chars] in hardware

Explanation	The feature is not yet supported.
Recommended Action	Find out more about this unsupported feature from the release documents and remove the command from the interface config mode

%FED_L3_ERRMSG-3-intf_err : [chars] interface [chars]

Explanation	Error in HW programming for Interface.
Recommended Action	Find out more about this failure from ifm show outputs and debugs for the interface

FED_PM through FILESYS

- [FED_PM](#)
- [FED_PTP_ERRMSG](#)
- [FED_PUNJECT](#)
- [FED_QOS_ERRMSG](#)
- [FED_SRVO_ERRMSG](#)
- [FED_STP_ERRMSG](#)
- [FED_VLAN_TRANSLATE_ERRMSG](#)
- [FFP_HW_IRQ](#)
- [FIB](#)
- [FILESYS](#)

FED_PM

%FED_PM-3-HW_ERROR : Port Manager error -[chars] hardware update failed.

Explanation	An error occurred in Port Manager code.
Recommended Action	Find out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_PM-3-RESRC_ERROR : Port Manager error -[chars] resource access failed.

Explanation	An error occurred in Port Manager code.
Recommended Action	Find out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_PM-3-FRU_TRANSCEIVER_TIMEOUT : Transceiver event handling for interface [chars] timed out. Remove and re-insert the FRU module containing this interface to recover.

Explanation	Than handling onf a transceiver event took too long for the given interface.
Recommended Action	Remove and re-insert the FRU module containing this interface. The system should recover from this failure condition after that.

%FED_PM-3-FRU_SWITCH_TIMEOUT : Transeiver update timed out. Remove and re-insert all FRUs in this switch to recover.

Explanation	An FRU update event took too long to process on this switch. The FRUs on this switch may not be recognized or function properly after this.
Recommended Action	Remove and re-insert all FRUs on this switch. The system should recognize and process them correctly after that.

%FED_PM-3-FRU_TIMEOUT : FRU module [dec] bringup timed out. Remove and re-insert it to recover.

Explanation	The given FRU module in the switch in question could not be recognized because it took too long do so.
Recommended Action	Remove and re-insert the specified FRU module. The system should recognize it correctly after that.

FED_PTP_ERRMSG

%FED_PTP_ERRMSG-6-UNSUPPORTED : [chars] is unsupported

Explanation	The requested configuration is not supported.
Recommended Action	Please do not use the current configuration.

%FED_PTP_ERRMSG-6-NOTALLOWED : [chars] is not allowed.

Explanation	The requested configuration is not allowed.
Recommended Action	Please try to modify your configuration.

%FED_PTP_ERRMSG-3-ATTACHERROR : Failed to run PTP [chars].

Explanation	An error occurs when running PTP.
Recommended Action	Find out more about the error by using show mgmt-infra trace messages fed-ptp-config-error switch number command

%FED_PTP_ERRMSG-3-DETACHERROR : Failed to run PTP [chars]

Explanation	Error occurs when running PTP.
Recommended Action	Find out more about the error by using show mgmt-infra trace messages fed-ntp-config-error switch number command

FED_PUNJECT

%FED_PUNJECT-6-PKT_CAPTURE_FULL : Punject pkt capture buffer is full. Use show command to display the punted packets.

Explanation	All the available punt capture buffers have been written with punted packets.
Recommended Action	No action is needed.

FED_QOS_ERRMSG

%FED_QOS_ERRMSG-3-TABLEMAP_INIT_ERROR : Failed to initialize [chars].

Explanation	An error occurred during table-map initialization.
Recommended Action	Find out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-3-TABLEMAP_INGRESS_HW_ERROR : Failed to [chars] for [chars]: code [dec].

Explanation	An error occurred when programming ingress table-map to hardware.
Recommended Action	failed actionFind out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-3-TABLEMAP_EGRESS_HW_ERROR : Failed to [chars] for [chars]: code [dec].

Explanation	An error occurred when programming egress table-map to hardware.
Recommended Action	failed actionFind out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-4-TABLEMAP_OVERFLOW : Failed to attach [chars]. No more table-maps are available.

Explanation	The system supports up to 16 table-maps per direction. This limit has been reached.
Recommended Action	failed actionUnconfigure some of the table-maps to make the resource available.

%FED_QOS_ERRMSG-3-LABEL_2_QUEUE_MAPPING_HW_ERROR : Failed to [chars] for [chars]: code [dec].

Explanation	An error occurred in programming label to queue map.
Recommended Action	failed actionFind out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-4-LABEL_2_QUEUE_MAPPING_OVERFLOW : Failed to [chars]. No more queue-maps are available.

Explanation	The system supports up to 8 queue-maps. This limit has been reached.
Recommended Action	failed actionUnconfigure some of the queuing policies to make the resource available.

%FED_QOS_ERRMSG-3-QUEUE_BUFFER_HW_ERROR : Failed to [chars] for [chars]: code [dec].

Explanation	An error occurred when programming the queue buffer.
Recommended Action	failed actionFind out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-3-QUEUE_SCHEDULER_HW_ERROR : Failed to [chars] for [chars]: code [dec].

Explanation	An error occurred when programming the queue scheduler.
Recommended Action	failed actionFind out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-3-AFD_QUEUE_HW_ERROR : Failed to program AFD [chars] virtual queue for [chars].

Explanation	An error occurred in programming the Approximate Fair Dropping virtual queue.
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%FED_QOS_ERRMSG-3-AFD_QUEUE_HW_ERROR : Failed to program AFD [chars] virtual queue for [chars].

Recommended Action Find out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-4-TCAM_OVERFLOW : Failed to program TCAM for policy-map [chars] on [chars].

Explanation The TCAM resources are exhausted.

Recommended Action Unconfigure features to make TCAM resources available.

%FED_QOS_ERRMSG-4-APPLICATION_ID_OVERFLOW : Failed to allocate application ID for policy-map [chars] on [chars].

Explanation The application IDs are exhausted.

Recommended Action Reduce the number of applications to make application ID available.

%FED_QOS_ERRMSG-4-POLICER_OVERFLOW : Failed to [chars] for [chars]. No policer resource is available.

Explanation The policer resource limit has been reached.

Recommended Action failed actionUnconfigure some policers to make the resource available.

%FED_QOS_ERRMSG-4-NETFLOW_TABLE_OVERFLOW : Failed to program netflow entries for policy-map [chars] for client mac:[chars] iifid:[hex]. No netflow resource is available.

Explanation The netflow resources are exhausted.

Recommended Action Unconfigure features to make the netflow resource available.

%FED_QOS_ERRMSG-3-NETFLOW_TABLE_HW_ERROR : Failed to program netflow entries for policy-map [chars] for client mac:[chars] iifid:[hex]. code:[dec].

Explanation An error occurred in programming netflow table.

Recommended Action Find out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-3-AFD_POLICER_HW_ERROR : Failed to [chars] for [chars].

Explanation An error occurred in programming the Approximate Fair Dropping policer.

Recommended Action failed actionFind out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-3-POLICER_HW_ERROR : Failed to [chars] for [chars]: code [dec].

Explanation An error occurred in programming the policer.

Recommended Action failed actionFind out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-4-POLICER_MAP_TABLE_OVERFLOW : Failed to [chars] for [chars]. No more policer map tables are available.

Explanation The ASIC supports up to 64 policer map tables. This limit has been reached.

Recommended Action failed actionUnconfigure some policer maps to make the resource available.

%FED_QOS_ERRMSG-3-POLICER_MAP_HW_ERROR : Failed to [chars] for [chars]: code [dec].

Explanation An error occurred in programming the policer map.

Recommended Action failed actionFind out more about the error by using the show tech-support privileged EXEC command and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%FED_QOS_ERRMSG-4-OUTPUT_CLIENT_POLICY_ERROR : Unsupported output client policy([chars]) - range operators.

Explanation Unsupported policy.

Recommended Action Range operators are not supported in client output policy

%FED_QOS_ERRMSG-4-OUTPUT_ACS_CLIENT_POLICY_ERROR : Unsupported output client policy([chars]).

Explanation	Unsupported policy.
Recommended Action	Unsupported client output policy

%FED_QOS_ERRMSG-4-CONFIGURE_PORT_TYPE_HW_ERROR : Failed to configure port [chars] as [chars] port in hardware. rc:[dec].

Explanation	The port could not be configured in hardware
Recommended Action	Try to shutdown the port and then unshut the port

FED_SRVO_ERRMSG

%FED_SRVO_ERRMSG-6-UNSUPPORTED : [chars] is unsupported

Explanation	The requested configuration is not supported.
Recommended Action	Please do not use the current configuration.

%FED_SRVO_ERRMSG-6-NOTALLOWED : [chars] is not allowed.

Explanation	The requested configuration is not allowed.
Recommended Action	Please try to modify your configuration.

%FED_SRVO_ERRMSG-3-ATTACHERROR : Failed to run SRVO [chars].

Explanation	An error occurs when running SRVO.
Recommended Action	Find out more about the error by using show mgmt-infra trace messages fed-srvo-config-error switch number command

%FED_SRVO_ERRMSG-3-DETACHERROR : Failed to run SRVO [chars]

Explanation	Error occurs when running SRVO.
Recommended Action	Find out more about the error by using show mgmt-infra trace messages fed-srvo-config-error switch number command

FED_STP_ERRMSG

%FED_STP_ERRMSG-3-MAX_INSTANCES : The maximum number of STP instances has been reached:[dec]

Explanation The maximum number of STP instances that can be programmed has been reached.

Recommended Action Delete or resolve loops manually for the vlans created further.

FED_VLAN_TRANSLATE_ERRMSG

%FED_VLAN_TRANSLATE_ERRMSG-6-UNSUPPORTED : [chars] is unsupported

Explanation The requested configuration is not supported.

Recommended Action Please do not use the current configuration.

%FED_VLAN_TRANSLATE_ERRMSG-6-NOTALLOWED : [chars] is not allowed.

Explanation The requested configuration is not allowed.

Recommended Action Please try to modify your configuration.

%FED_VLAN_TRANSLATE_ERRMSG-3-ATTACHERROR : Failed to run VLAN_TRANSLATE [chars].

Explanation An error occurs when running VLAN_TRANSLATE.

Recommended Action Find out more about the error by using show mgmt-infra \ trace messages fed-vlan_translate-config-error switch number \ command

%FED_VLAN_TRANSLATE_ERRMSG-3-DETACHERROR : Failed to run VLAN_TRANSLATE [chars]

Explanation Error occurs when running VLAN_TRANSLATE.

Recommended Action Find out more about the error by using show mgmt-infra \ trace messages fed-vlan_translate-config-error \ switch number command

FFP_HW_IRQ

%FFP_HW_IRQ-3-NON_FATAL_INTERRUPT : [int] errors in the last [int] seconds, MSGDEF_LIMIT_MEDIUM

Explanation Accumulation of Cavium hardware-generated error

Recommended Action LOG_STD_ACTION

%FFP_HW_IRQ-3-TOO_MANY_NON_FATAL_INTERRUPTS :

Explanation	Aborting due to too many Cavium hardware-generated errors
Recommended Action	LOG_STD_ACTION

FIB

%FIB-2-IDBQINIT : Error initializing CEF IDB queue

Explanation	Initialization of the CEF IDB queue could not be accomplished because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%FIB-2-LINECARDINIT : Error initializing CEF Linecard queue

Explanation	Initialization of the CEF linecard queue could not be accomplished because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%FIB-2-XDRINIT : Error initializing CEF xdr chunks

Explanation	Initialization of the CEF xdr chunks could not be accomplished because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%FIB-2-FIBFEATSEINIT : Error initializing CEF repop feature session queue

Explanation	Initialization of a CEF feature session queue could not be accomplished because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%FIB-2-DFIBSWITCH : Error trying to turn on Distributed CEF without CEF on

Explanation	IPV4FIB_INTERNAL_ERROR
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%FIB-2-DFIBSWITCH : Error trying to turn on Distributed CEF without CEF on

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%FIB-3-FIBXDRLEN : Invalid XDR length. Type [dec][chars]. XDR/buffer len [dec]/[dec]

Explanation	IPV4FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-3-FIBBADXDRSLOT : Invalid XDR slot. Type/len/slot [dec]/[dec]/[chars]. XDR at [hex]

Explanation	IPV4FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-4-FIBSPECIALPREFIX : Invalid Special Prefix Type. Type [dec]

Explanation	IPV4FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-4-FIBEVENT : Invalid event. Type [chars], event [dec]

Explanation	IPV4FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-4-FIBXDRINV : Invalid format. [chars] [chars] ([dec])

Explanation IPV4FIB_INTERNAL_ERROR**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-2-FIBDISABLE : Fatal error, slot [chars]: [chars]

Explanation An internal software error has occurred because of an IPC problem between the LC and the RP. CEF switching has been disabled on the specified slot.**Recommended Action** Enter the `clear cef linecard [slot no]` command, then check the status of the line card by entering the `show cef linecard` command. If the status shows that the line card is still disabled, disable and re-enable DCEF and check the status of the line card again. LOG_STD_RECUR_ACTION

%FIB-3-INVALIDSTATE : Slot [chars] in invalid transition from [chars] to [chars]

Explanation An internal software error occurred. Linecard is in incorrect state**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-4-FIBLCTUNSEQ : [chars] Error Initializing/Updating Linecard Tunnel Configuration

Explanation Configuration of a Tunnel on this linecard may not have been successful because of an internal software error.**Recommended Action** Reconfigure the Tunnel concerned. If problem persists copy the message exactly as it appears, and report it to your technical support representative.

%FIB-6-FIBLCTUNDELSEQ : Update received on a linecard for a deleted tunnel([chars]) - ignored.

Explanation An update was received on a linecard for a tunnel that has already been deleted and the update was ignored.**Recommended Action** No action is required.

%FIB-4-FIBCBLK : Missing cef table for tableid [dec] during [chars] event

Explanation	IPV4FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-2-FIBDOWN : CEF has been disabled due to a low memory condition. It can be re-enabled by configuring ip cef [distributed]

Explanation	CEF was disabled because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade the RP so that it has more DRAM.

%FIB-2-FIB_OVERLENGTH_XDR : Overlength CEF XDR message - len [dec] > [dec] from [chars]

Explanation	An internal software error occurred preventing the sending of an CEF XDR message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-3-FIBSBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation	Initialization of the specified CEF subblock data structure could not be accomplished.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-3-FIBSBNOFN : Missing [chars] subblock [chars] function for [chars]

Explanation	Functions for distributing this subblock are missing from the image.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-3-FIBPENDINGLIST : Error queueing interface [chars] to CEF pending event list.

Explanation	Queueing an interface to the CEF pending up event list failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-3-MAC_ACCT : [chars]: [chars]

Explanation	IPV4FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FIB-3-PREC_ACCT : [chars]: [chars]

Explanation	IPV4FIB_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

FILESYS

%FILESYS-5-DEV : PCMCIA flash card [chars] [chars]

Explanation	A file system's status has changed. Follow any instructions provided with the message.
Recommended Action	No action is required.

%FILESYS-5-IFLASH : Internal Flash [chars] [chars]

Explanation	A file system's status has changed. Follow any instructions provided with the message.
Recommended Action	No action is required.

%FILESYS-5-UNKNDEV : Unknown device [chars] [chars]

Explanation	A file system's status has changed. Follow any instructions provided with the message.
Recommended Action	No action is required.

%FILESYS-3-FLASH : [chars] [chars] error [dec]

Explanation	A file system error has occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FILESYS-4-RCSF : [chars] ([dec]) <[chars]>

Explanation	A Running config sync file error has occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FILESYS-5-MISMATCH : [chars] device programming algorithm mismatch detected, reformat is recommended

Explanation	The flash device programming algorithm written to the device when the flash was formatted is different from what the current running software detected. A reformat of the flash device will solve the problem.
Recommended Action	No action is required.

%FILESYS-3-IPC : [chars] [chars]: IPC error [[chars]]

Explanation	RFS operation failed due to an IPC error.
Recommended Action	

%FILESYS-5-CFLASH : Compact flash card [chars] [chars]

Explanation A file system's status has changed. Follow any instructions provided with the message.

**Recommended
Action**

%FILESYS-4-CLPDINT : Management interrupts are [chars] for pcmcia device in socket [dec]. [chars]

Explanation A faulty PCMCIA flash device might be generating spurious insert or remove interrupts continuously. The pcmcia controller will be set temporarily to disable interrupt generation and will be reenabled after a few seconds. This is to avoid storming CPU with spurious interrupts. If the (alternate) pcmcia device is inserted while the interrupts are disabled, sometimes the device may not be readable. You have to remove and reinsert the pcmcia device once again.

**Recommended
Action** Replace the pcmcia flash device with an alternate one

FILESYS_RFS through FMANRP_ACL

- [FILESYS_RFS](#)
- [FILTER](#)
- [FILTER_BINARY_NOTIFICATION](#)
- [FLASH_CHECK](#)
- [FLEXDSPRM](#)
- [FLEX_DNLD](#)
- [FLOWSPEC](#)
- [FMANFP](#)
- [FMANRP](#)
- [FMANRP_ACL](#)

FILESYS_RFS

%FILESYS_RFS-3-IPC : [chars] [chars]: msg_type [[dec]] sub_type [[dec]]: IPC error [[chars]]

Explanation RFS operation failed due to an IPC error.

**Recommended
Action**

%FILESYS_RFS-4-RFS_REQUEST_TIMEOUT : Timeout has occurred while executing the RFS request on file [chars] [[dec]].

Explanation A RFS request is sent to server from the client. While executing the request on the server side, timeout has occurred at the client side.

Recommended Action No action is required.

FILTER

%FILTER-3-EWLC_APFILTER_REGEX_CREATE_ERR : Error in [chars]Error in [chars]

Explanation General Wireless LAN Controller Error Message.APFilter regular expression error

Recommended Action Recreate regular expression correctly

FILTER_BINARY_NOTIFICATION

%FILTER_BINARY_NOTIFICATION-5-MERGE_COMPLETED : Merged logs generation completed.

Explanation Notification to user that merged logs are generated

Recommended Action Go to bootflash and view the merged logs

FLASH_CHECK

%FLASH_CHECK-3-DISK_QUOTA : Flash disk quota exceeded [free space is [dec] kB] - Please clean up files on bootflash.

Explanation The remaining free space on the flash disk is below the recommended threshold of at least 30 percent of the installed RP memory. This limits the system from core files necessary to root cause critical system faults.

Recommended Action Please remove unneeded files from bootflash: device. Any core files under the bootflash:/core directory should be reported and then deleted.

FLEXSPRM

%FLEXSPRM-5-CB_UPDOWN : Channel Bank [chars] state is [chars]

Explanation Channel Bank status has been changed

%FLEXDSPRM-5-CB_UPDOWN : Channel Bank [chars] state is [chars]

Recommended Action See if the voice ports in the channel bank are UP

%FLEXDSPRM-5-OUT_OF_RESOURCES : [chars]

Explanation Flex DSPRM temporarily fail to allocate a DSP for this call. A oversubscription has happened and the current free DSP MIPS/Credits are not sufficient to admit a new call.

Recommended Action Check availability of router DSP resource and DSP sharing configurations

%FLEXDSPRM-6-DSP_USAGE : DSP [chars] usage has reached [dec]%%

Explanation Usage of DSP resources has reached a certain percentage.

Recommended Action Examine whether or not enough DSP resources are reserved.

%FLEXDSPRM-3-TDM_CONNECT : failed to connect voice-port ([dec]/[dec]/[dec]) to dsp_channel([dec]/[dec]/[dec])

Explanation TDM connection between Analog/VWIC and the DSP has failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FLEXDSPRM-5-TDM_SLOT : voice channel is being shared from slot [dec]. Configure network-clock-participate slot [dec]

Explanation Configure network-clock-participate slot for sharing DSPs

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FLEXDSPRM-3-UNSUPPORTED_CODEC : codec [chars] is not supported on dsp [dec]/[dec]

Explanation Call failed due to the dsp does not support the codec.

%FLEXDSPRM-3-UNSUPPORTED_CODEC : codec [chars] is not supported on dsp [dec]/[dec]

Recommended Action Check dsp capability and make the call on supported dsp

FLEX_DNLD

%FLEX_DNLD-1-NOPCIMEMORY : VPM ([dec]/[dec]), PCI memory unavailable.

Explanation The router or access server could not allocate memory for the descriptors.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%FLEX_DNLD-1-INCORRECT_DSP_ID : AIM VOICE at slot [dec] receives data from incorrect DSP-ID [dec].

Explanation The DSP ID provided by FPGA for download is not valid.

Recommended Action Call your technical support representative for assistance.

%FLEX_DNLD-3-ERROR_FIRMWARE_DNLD : DSP firmware download fails for slot [dec] dsp_id [dec]

Explanation Error initializing the DSP with the application firmware.

Recommended Action Power down, reinsert Port Module and reboot. If message recurs, call your technical support representative for assistance.

%FLEX_DNLD-3-NO_FIRMWARE_DNLD : No DSP firmware download invoked for slot [dec], no DSPs on the card

Explanation No DSP on the card.

Recommended Action Plug in DSP on the Network Module

%FLEX_DNLD-1-TOOBIG : [chars], packet(size [dec]) too big.

Explanation A packet greater than the 264 bytes received on this interface.

Recommended Action The system should recover. No action is required. If the problem reoccurs, it indicates an error that might be related to data traffic patterns. Copy the error message exactly as it appears, and report it to your technical support representative.

%FLEX_DNLD-3-ERROR_ANALYZE : Error analyzing the device in slot [dec].

Explanation	The Port module in this slot could not be recognized.
Recommended Action	Power down, reinsert Port Module and reboot. If message recurs, call your technical support representative for assistance.

%FLEX_DNLD-1-NO_RING_DESCRIPTOR : No more ring descriptors available on slot [dec] dsp [dec].

Explanation	The dspfw dnld driver cannot queue messages upto the egress queue for FPGA to transmit.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative. Reset the DSP's on this port module.

FLWSPEC

%FLWSPEC-3-CLIENT_ALLOC : Failed to alloc ([int] hdr) + ([int] items)*([int] bytes) = ([int] total bytes) for '[chars]', errno [dec]:[chars].

Explanation	The FlowSpec client infra has failed to allocate memory. This may be due to lowmemory conditions on this particular RP/LC, or this client may be using morememory than it is allowed.
Recommended Action	Reduce system scale.

%FLWSPEC-3-CLIENT_ENABLE : Failed to initialize '[chars]' when enabling FlowSpec feature, [hex]:[chars].

Explanation	When 'flowspec' configuration is first added, the FlowSpec client infrainitializes in client processes, namely BGP. Something has failed in thisprocess any may prevent FlowSpec from functioning.
Recommended Action	Remove and re-add 'flowspec' configuration. If the problem repeats, contactCisco support.

%FLWSPEC-3-MGR_ALLOC : Failed to alloc ([int] hdr) + ([int] items)*([int] bytes) = ([int] total bytes) for '[chars]', errno [dec]:[chars].

Explanation	The FlowSpec Manager process (flowspec_mgr) has failed to allocate memory. This may be due to low memory conditions on this particular RP/LC, or this process may be using more memory than it is allowed.
Recommended Action	Reduce system scale.

%FLOWSPEC-3-MGR_CLASS_CREATE : Failed to create inline-class for flow [chars] with actions [chars] in table [chars], overall:[hex]:[chars], [hex]:[chars].

Explanation FlowSpec failed to create the inline-class representing the flow in the table (VRF+AFI). This will prevent the flow from functioning in this table.

Recommended Action Unconfigure and reconfigure local-install for this table. FlowSpec can further be entirely unconfigured and reconfigured. If the problem persists, contact Cisco support.

%FLOWSPEC-3-MGR_EVM : FlowSpec Manager failed to receive event from [chars] EVM, [hex]:[chars].

Explanation The event processing infra has returned a fatal error.

Recommended Action Allow FlowSpec Manager to restart. If the problem persists, contact Cisco support.

%FLOWSPEC-3-MGR_GEN_ERR : FlowSpec internal error: [chars], [hex]:[chars].

Explanation An internal software error occurred.

Recommended Action *SUPPORT*

%FLOWSPEC-3-MGR_INIT : FlowSpec Manager failed to initialize '[chars]', [hex]:[chars].

Explanation When 'flowspec' configuration is first added, the FlowSpec Manager (flowspec_mgr) process starts and initializes. Something has failed in this procedure and may prevent FlowSpec from functioning.

Recommended Action Allow FlowSpec Manager to restart. You can further remove and re-add 'flowspec' configuration. If the problem persists, contact Cisco support.

%FLOWSPEC-3-MGR_LOCK : FlowSpec Manager lock operation [chars] failed, error %#d.

Explanation An internal lock has failed.

Recommended Action FlowSpec manager may be restarted, if it doesn't restart automatically. If the problem persists, contact Cisco support.

%FLOWSPEC-3-MGR_POLICY_ATTACH : Failed to attach policy-map [chars] for table [chars], [hex]:[chars].

Explanation FlowSpec failed to attach the policy-map for this table (VRF+AFI). This will prevent flows from functioning on this table.

Recommended Action Unconfigure and reconfigure local-install for this table. FlowSpec can further be entirely unconfigured and reconfigured. If the problem persists, contact Cisco support.

%FLOWSPEC-3-MGR_POLICY_CREATE : Failed to create policy-map [chars] for table [chars], [hex]:[chars].

Explanation FlowSpec failed to create the policy-map for this table (VRF+AFI). This will prevent flows from functioning on this table.

Recommended Action Unconfigure and reconfigure local-install for this table. FlowSpec can further be entirely unconfigured and reconfigured. If the problem persists, contact Cisco support.

%FLOWSPEC-3-MGR_POLICY_DELETE : Failed to delete policy-map [chars] handle %#llx for table [chars], [hex]:[chars].

Explanation FlowSpec failed to delete the policy-map for this table (VRF+AFI). This may leave the system in an inconsistent state for this table and prevent FlowSpec from recreating the table.

Recommended Action Unconfigure and reconfigure local-install for this table. FlowSpec can further be entirely unconfigured and reconfigured. If the problem persists, contact Cisco support.

FMANFP

%FMANFP-6-IPACCESSLOGP : list [chars] [chars] [chars] [chars]([int]) [chars]-> [chars]([int]), [int] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-IPACCESSLOGNP : list [chars] [chars] [int] [chars] [chars]-> [chars], [int] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-IPACCESSLOGDP : list [chars] [chars] [chars] [chars] [chars]-> [chars] ([int]/[int]), [int] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-IPV6ACCESSLOGP : list [chars] [chars] [chars] [chars]([int]) [chars]-> [chars]([int]), [int] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-IPV6ACCESSLOGDP : list [chars] [chars] [chars] [chars] [chars]-> [chars] ([int]/[int]), [int] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-IPV6ACCESSLOGNP : list [chars] [chars] [int] [chars] [chars]-> [chars], [int] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-FMANACLLOGMISSMSG : access-list logging datapath rate-limited or missed [int] packet[chars]

Explanation Some packet matching logs were missed because the access list log messages were rate-limited or no access list log buffers were available.

Recommended Action No action is required.

%FMANFP-6-CRYPTO_DEVICE_REQUEST_COMPLETE : Crypto-device is ready to process packets

Explanation Crypto-device is load with new core based on user request. Now it is ready to process packets

Recommended Action No action is required.

%FMANFP-3-CRYPTO_DEVICE_REQUEST_FAILED : Crypto-device is busy processing last request. This request will be discarded

Explanation Crypto-device is still processing previous reload request or still processing crypto feature packets. New request will not be applied

Recommended Action No action is required.

%FMANFP-6-CRYPTO_DEVICE_NOT_PRESENT : Hardware crypto-device is not present. Request aborted

Explanation Hardware crypto-device is not present on the system. User request doesn't apply or be executed. This may not be an error.

Recommended Action No action is required.

%FMANFP-3-LICENSE_THPUT_INVALID : Invalid throughput [int]kbps

Explanation The throughput value is invalid. The forwarding engine will not operate at the throughput value.

Recommended Action Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

%FMANFP-3-CRYPTO_LICENSE_THPUT_THRESHOLD_EXCEED : Average crypto throughput rate exceeded [dec] percent of licensed crypto bandwidth of [int] bps during [dec] sampling periods in the last 24 hours, sampling period is [dec] seconds

Explanation To monitor crypto throughput and, to generate notification/warning if the average throuput utilization over a longer time are approaching or exceeding the cypro licensed bandwidth

Recommended Action No action is required.

%FMANFP-3-CRYPTO_LICENSE_THPUT_MAX_APPROACHED : Average crypto throughput rate approached the licensed crypto bandwidth of [int] bps during [dec] sampling periods in the last 24 hours, sampling period is [dec] seconds

Explanation To monitor crypto throughput and, to generate notification/warning if the average throuput utilization over a longer time are approaching or exceeding the cypro licensed bandwidth

Recommended Action No action is required.

%FMANFP-6-IPACCESSLOGSGP : ingress_interface='[chars]' sgACL_name='[chars]' action='[chars]' protocol='[chars]' src-ip='[chars]' src-port='[int]' dest-ip='[chars]' dest-port='[int]' sgt='[int]' dgt='[int]' logging_interval_hits='[int]'

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-IPACCESSLOGSGNP : ingress_interface=[chars] sgACL_name=[chars] action=[chars] protocol=[int] src-ip=[chars] dest-ip=[chars] sgt=[int] dgt=[int] logging_interval_hits=[int]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-IPACCESSLOGSGDP : ingress_interface=[chars] sgACL_name=[chars] action=[chars] protocol=[chars] src-ip=[chars] dest-ip=[chars] type=[int] code=[int] sgt=[int] dgt=[int] logging_interval_hits=[int]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-IPV6ACCESSLOGSGP : ingress_interface=[chars] sgACL_name=[chars] action=[chars] protocol=[chars] src-ip=[chars] src-port=[int] dest-ip=[chars] dest-port=[int] sgt=[int] dgt=[int] logging_interval_hits=[int]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-IPV6ACCESSLOGSGNP : ingress_interface=[chars] sgACL_name=[chars] action=[chars] protocol=[int] src-ip=[chars] dest-ip=[chars] sgt=[int] dgt=[int] logging_interval_hits=[int]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%FMANFP-6-IPV6ACCESSLOGSGDP : ingress_interface=[chars] sgACL_name=[chars] action=[chars] protocol=[chars] src-ip=[chars] dest-ip=[chars] type=[int] code=[int] sgt=[int] dgt=[int] logging_interval_hits=[int]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

FMANRP**%FMANRP-4-INVALID_CCE_POSITION : Invalid position '[dec]' prevented [chars]**

Explanation	A messaging error has occurred during service-policy modification and the configuration could not be downloaded properly
Recommended Action	Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

%FMANRP-3-OBJ_DWNLD_TO_FP_FAILED : [chars] download to FP failed

Explanation	An object has failed to download to the forwarding processor (FP)
Recommended Action	Examine the process logs to identify the cause for object download failure

FMANRP_ACL**%FMANRP_ACL-4-NOSWIDB : Sub-interface is null**

Explanation	An unexpected condition has occurred which is due to the absence of a swidb structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-NOSB : Subblock on interface [chars] ([hex]) is null

Explanation	An unexpected condition has occurred which is due to the absence of a subblock structure on interface.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-NOACL : ACL is null

Explanation	An unexpected condition has occurred which is due to the absence of an ACL structure.
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%FMANRP_ACL-4-NOACL : ACL is null

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip access-list** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-NOV4ACE : v4 ACE is null

Explanation An unexpected condition has occurred which is due to the absence of an v4 ACE structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip access-list** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-NOV6ACE : v6 ACE is null

Explanation An unexpected condition has occurred which is due to the absence of an v6 ACE structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ipv6 access-list** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-NOMACACE : mac ACE is null

Explanation An unexpected condition has occurred which is due to the absence of an mac ACE structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show access-list** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-INVALIDV4ACETYPE : v4 ACE type is invalid

Explanation	An unexpected condition has occurred which is due to the type of v4 ACE created
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip access-list command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-INVALIDV6OP : Operation is invalid

Explanation	An unexpected condition has occurred which is due to the operation performed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ipv6 access-list command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-UPDV4STATSERR : Update v4 ACL statistics error

Explanation	An unexpected condition has occurred when updating v4 ACL statistics
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip access-list command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-UPDV6STATSERR : Update v6 ACL statistics error

Explanation	An unexpected condition has occurred when updating v6 ACL statistics
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ipv6 access-list command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-UPDMACSTATSERR : Update mac ACL statistics error

Explanation	An unexpected condition has occurred when updating mac ACL statistics
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show access-list command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-TMPLACLINITERR : Template ACL initialization error

Explanation	An unexpected condition has occurred on template ACL initialization
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show memory command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-TMPLACLNOMEMERR : Template ACL no memory error

Explanation	An unexpected condition has occurred on template ACL processing
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show memory command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-4-TMPLACLDISABLEERR : Not enough resources to disable template ACL

Explanation	Not enough resurces to store individual ACLs
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip access-list template summary command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_ACL-3-EXPOGACLLIMITERR : Expanded OGACL ([chars]) size ([dec]) exceeded MAX ACL limit ([dec])

Explanation	Expanded OGACL size exceeded the maximum ACL limit. Command rejected
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the Reduce # of ACEs in the ACL command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_DPSS through FMANRP_QOS

- [FMANRP_DPSS](#)
- [FMANRP_EVPN](#)
- [FMANRP_IPSEC](#)
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FMANRP_DPSS

%FMANRP_DPSS-3-DPSSFOIPCALLOC : Failed to alloc IPC buffer for dpss feature object [hex] config message

Explanation	This operation to allocate IPC buffer for dpss feature object configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_DPSS-3-DPSSFOTDLMSGMARSHAL : Failed to copy dpss feature object config message to IPC buffer for fo_hdl [hex]

Explanation	This operation to build a TDL message for dpss feature object configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_DPSS-3-DPSSFOIOSDENQUEUE : Failed to enqueue dpss feature object [hex] config message for transmission

Explanation	This operation to enqueue an IPC message for sending has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_DPSS-3-DPSSFOTDLCREATE : Failed to create tdl msg for dpss feature object [hex] config message

Explanation	This operation to create an TDL message has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_DPSS-3-DPSSFOTDLSET : Failed to set tdl msg detail for dpss feature object [hex] config message

Explanation	This operation to set an TDL message has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_DPSS-3-DPSSGLOBALTDLCREATE : Failed to create tdl msg for dpss global config message

Explanation	This operation to create an TDL message has failed.
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%FMANRP_DPSS-3-DPSSGLOBALDLCREATE : Failed to create tdl msg for dpss global config message

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%FMANRP_DPSS-3-DPSSGLOBALDLSSET : Failed to set tdl msg detail for dpss global config message

Explanation	This operation to set an TDL message has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_DPSS-3-DPSSGLOBALIPCALLOC : Failed to alloc IPC buffer for dpss global config message

Explanation	This operation to allocate IPC buffer for dpss global configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_DPSS-3-DPSSGLOBALDLSMSGMARSHAL : Failed to copy dpss global config message to IPC buffer

Explanation	This operation to build a TDL message for dpss global configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_DPSS-3-DPSSGLOBALIOSDENQUEUE : Failed to enqueue dpss global config message for transmission

Explanation	This operation to enqueue an IPC message for sending has failed.
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%FMANRP_DPSS-3-DPSSGLOBALIOSDENQUEUE : Failed to enqueue dpss global config message for transmission

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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FMANRP_EVPN

%FMANRP_EVPN-3-UNSPOP : Unsupport operation

Explanation	An unexpected operation is get during EVPN configuration
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_IPSEC

%FMANRP_IPSEC-6-HAPI_PCP_NACK : [chars]: PCP NACK (trans [hex], opcode [hex], errcode [hex]): crypto hardware configuration may be out of sync.

Explanation	A failure has occurred during security policy downloading in crypto hardware. The command is rejected.
Recommended Action	The configuration may be ignorable or recovered automatically in crypto hardware. The session may still be functional but less than optimal performance. If you determine that the system is adversely affected then Embedded Services Processor (ESP) tracelog should be collected. LOG_STD_ACTION

%FMANRP_IPSEC-3-HAPI_PCP_UNEXP_REPLY : [chars]: PCP (trans [hex], opcode [hex]): unexpected reply from crypto hardware.

Explanation	An unexpected internal software error. Engineering must be reported and investigate this occurrence.
Recommended Action	Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

FMANRP_MFR**%FMANRP_MFR-3-TDLFAIL : Unable to send [chars] [chars] message to Forwarding Manager Process ([chars])**

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_MFR-3-BNDLFAIL : Unable to [chars] bundle [chars]

Explanation An unexpected condition has occurred at Bundle configuration

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_MFR-3-BLFAIL : Unable to [chars] link [chars] [chars]

Explanation An unexpected condition has occurred at Bundle link configuration %s

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_MFR-3-BLCFGFAIL : Unable to [chars] link [chars] [chars]

Explanation An unexpected condition has occurred at Bundle link configuration %s

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_MPLS**%FMANRP_MPLS-3-NOOBJ : Object entry is null**

Explanation An unexpected condition has occurred which is due to the absence of an object entry structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show mpls** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_MPLS-3-ENQUEFAIL : Unable to send [chars] [chars] message to Forwarding Manager Process

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Processes.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_MPLS-3-UNSPTYPE : Not supported bundle type [dec]

Explanation An unexpected condition has occurred which is due to an operation request to an unsupported bundle type is received.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_NAT**%FMANRP_NAT-4-NOSWIDB : Sub-interface is null**

Explanation An unexpected condition has occurred which is due to the absence of a swidb structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-IFTDLMSGMARSHAL : Failed to copy interface config essage to IPC buffer for Interface [chars] ([hex]), domain [chars], operation [chars]

Explanation	This operation to build a TDL message for interface configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-4-NONATSERVICE : Service structure is null

Explanation	An unexpected condition has occurred which is due to the absence of a NAT service structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the <code>show</code> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-SERTDLMSGMARSHAL : Failed to copy service config message to IPC buffer for application type [dec], protocol type [dec], port [dec]

Explanation	This operation to build a TDL message for service configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-SERVICERM : Failed to delete NAT services for appl type [chars], protocol [chars], port [dec]

Explanation	An unexpected condition has occurred which is due to the failure to remove data structures for NAT special services.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-4-NOPOOL : Pool structure is null

Explanation	An unexpected condition has occurred which is due to the absence of a NAT pool structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the <code>show</code> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-4-NOMAPPING : A mapping structure is null

Explanation	An unexpected condition has occurred which is due to the absence of a NAT mapping structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the <code>show</code> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-4-BADACTION : Invalid action [dec] for NAT configuration

Explanation	An unexpected condition has occurred which is invalid action for a NAT configuration.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the <code>show</code> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-POOLTDLMSGMARSHAL : Failed to copy pool config message to IPC buffer for pool [chars] (id [dec])

Explanation	This operation to build a TDL message for pool configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-MAPPINGTDLMSGMARSHAL : Failed to copy mapping config message to IPC buffer for mapping id [dec] (vrf table id [dec])

Explanation	This operation to build a TDL message for mapping configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-IFADDRTDLMSGMARSHAL : Failed to copy interface address change message to IPC buffer for interface [chars], new address [IP_address]

Explanation	This operation to build a TDL message for NAT interface address configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-VRFDELTDLMSGMARSHAL : Failed to copy VRF delete message to IPC buffer for vrf table id [dec]

Explanation	This operation to build a TDL message for vrf deletion configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-TIMEOUTTDLMSGMARSHAL : Failed to copy timeout config message to IPC buffer for timeout type [dec]

Explanation	This operation to build a TDL message for timeout configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-4-NORANGE : Pool address range structure is null

Explanation	An unexpected condition has occurred which is due to the absence of a NAT pool address range structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the <code>show ip nat</code> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-RANGETDLMSGMARSHAL : Failed to copy pool address range config message to IPC buffer for pool [chars], range start [IP_address], range end [IP_address]

Explanation	This operation to build a TDL message for address range configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-PORTLISTTDLMSGMARSHAL : Failed to copy portlist config message to IPC buffer for addr [IP_address], proto [dec], start_port [dec], end_port [dec]

Explanation	This operation to build a TDL message for portlist add/delete has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-4-NOACL : Access list is null

Explanation	An unexpected condition has occurred which is due to the absence of an access list structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the <code>show ip access-lists</code> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-MAXENTRYTDLMSGMARSHAL : Failed to copy max entry config message to IPC buffer for type [chars], entry data [hex], max_limit [dec]

Explanation	This operation to build a TDL message for max entry add/delete has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-STATSUPDTDL : Failed to update NAT [chars] statistics

Explanation	An unexpected condition has occurred when updating statistics
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-IPALIASTDL : Error with ipalias message received from data path

Explanation	An unexpected condition has occurred with received ipalias message from data path
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-IPALIATYPE : Received ipalias message from data path with unsupported address type [dec]

Explanation	An unexpected condition has occurred with received ipalias message from data path with unsupported address type
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-IPSTATICROUTETDL : Error with static ip route message received from data path

Explanation	An unexpected condition has occurred with received static ip route message from data path
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%FMANRP_NAT-3-IPSTATICROUTETDL : Error with static ip route message received from data path

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%FMANRP_NAT-3-IPSTATICROUTETYPE : Received ip static route message from data path with unsupported address type

Explanation	An unexpected condition has occurred with received static ip route message from data path with unsupported address type
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-PORTLISTTDL : Error with portlist allocation request message received from data path

Explanation	An unexpected condition has occurred with received portlist allocation request message from data path
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-PORTLISTTYPE : Address type [dec] for global address in the portlist allocation request is not supported

Explanation	An unexpected address type has occurred with received portlist allocation request message from data path
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-PORTLISTPROTO : Protocol type [dec] for global addr [IP_address] in the portlist allocation request is not supported

Explanation	An unexpected protocol type has occurred with received portlist allocation request message from data path
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-DEBUGTDLMSGMARSHAL : Failed to copy debug NAT request message to IPC buffer

Explanation	This operation to build a TDL message for debug NAT command has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-IOSDENQUEUE : Failed to enqueue NAT [chars] message for transmission

Explanation	This operation to enqueue an IPC message for sending has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-AVLTREEWALK : Failed to walk NAT [chars] database for [chars]

Explanation	This operation to perform stale processing has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-AVLDELETE : Failed to delete node from NAT [chars] database for [IP_address]

Explanation	This operation to perform delete processing has failed.
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%FMANRP_NAT-3-AVLDELETE : Failed to delete node from NAT [chars] database for [IP_address]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%FMANRP_NAT-3-WLANSESSTDL : Error with WLAN session message received from data path

Explanation	An unexpected condition has occurred with received WLAN session message from data path
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-WLANSESSTYPE : Received WLAN session message from data path with unsupported address type [dec]

Explanation	An unexpected condition has occurred with received WLAN session message from data path with unsupported address type
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-WLANSESSIDB : Received WLAN session message from data path with nil input interface for inside local host [IP_address]

Explanation	An unexpected condition has occurred with received WLAN session message from data path with nil input interface
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-4-NOLOGGINGPARAM : Highspeed logging structure is nil

Explanation	An unexpected condition has occurred which is due to the absence of a logging parameter structure.
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%FMANRP_NAT-4-NOLOGGINGPARAM : Highspeed logging structure is nil

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show running** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-4-LOGGING_PARAM : Highspeed logging export [chars] [int]nsupported

Explanation An unsupported exporting parameter for highspeed logging on data path is received.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show running** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-4-NOREPLICATEPARAM : Session replication structure is nil

Explanation An unexpected condition has occurred which is due to the absence of a session replication parameter structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show running** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-MIBEVENT : Failed to get NAT MIB response message: [chars]

Explanation An unsupported error occurred with waiting for NAT MIB response message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-INVALID_ADDRESS : Received an invalid address [IP_address]

Explanation	An unsupported address for the given config was received.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-MSGALLOCERR : Failed to allocate message

Explanation	When attempting to send message to dataplane, there was not enough memory to allocate the message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NAT-3-NATSETTDLMSGFAIL : When download [chars], failed to set a field in message

Explanation	software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_NETFLOW**%FMANRP_NETFLOW-3-CACHETDLMSGMARSHAL : Failed to copy cache config message to IPC buffer for cache type [dec]**

Explanation	The operation of building a TDL message for cache configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-AGGRCACHENULL : The pointer for aggregation cache type [dec] is NULL

Explanation	An unexpected condition has occurred which is due to the absence of an aggregation cache data structure.
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%FMANRP_NETFLOW-3-AGGRCACHENULL : The pointer for aggregation cache type [dec] is NULL

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip cache flow command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%FMANRP_NETFLOW-3-UNKNOWNCACHETYPE : Unknown cache type [dec] received

Explanation	The cache configuration command has failed due to unknown cache scheme type.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-UNKNOWNCACHECMD : Unknown aggregation cache command [dec] received

Explanation	The aggregation cache configuration command has failed due to unknown command.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-4-NOSWIDB : Sub-interface is null

Explanation	An unexpected condition has occurred which is due to the absence of a swidb structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-4-NOFIBIDB : fibdb for interface [chars] is null

Explanation	An unexpected condition has occurred which is due to the absence of a fibidb structure.
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%FMANRP_NETFLOW-4-NOFIBIDB : fibdb for interface [chars] is null

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-IFFLOWTDLMSGMARSHAL : Failed to copy interface flow config message to IPC buffer for [chars]

Explanation The operation of building a TDL message for interface flow configuration has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-NOSAMPLERNAME : Sampler-map name is null

Explanation An unexpected condition has occurred which is due to the absence of a sampler-map name.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show sampler** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-NOSAMPLER : Sampler for sampler-map name [chars] is null

Explanation An unexpected condition has occurred which is due to the absence of a sampler-map structure

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show sampler** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-SAMPLERTDLMSGMARSHAL : Failed to copy sampler-map config message to IPC buffer for [chars]

Explanation	The operation of building a TDL message for sampler-map configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-EXPORTERTDLMSGMARSHAL : Failed to copy exporter config message to IPC buffer for cache type [dec]

Explanation	The operation of building a TDL message for exporter configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-4-EXPORTERVERSION : Failed to change default exporter version to [dec]

Explanation	The operation of changing the default exporter version has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip flow export command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-CLRSTATSTDLMMSGMARSHAL : Failed to copy clear statistics message to IPC buffer

Explanation	The operation of building a TDL message for clearing statistics in the data path has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-STATSUPDTDL : Failed to update netflow [chars] statistics

Explanation	An unexpected condition has occurred when updating statistics
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-INVALIDFLOWDFCPP : CPP Flow definition can not be created [int]

Explanation	The operation of building a flow definition using flow fields received from CPP has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-EXPORTERSRCIFINVALID : Management interface ([chars]) cannot be used as source for an exporter

Explanation	Exporter configuration failed because the management interface cannot be configured as source interface
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_NETFLOW-3-EXPORTERVRFINVALID : Management vrf ([chars]) cannot be used as exporter destination

Explanation	Exporter configuration failed because management vrf cannot be used as exporter destination
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_PBR

%FMANRP_PBR-3-RTMAPNULL : The route-map structure for [chars] is NULL

Explanation An unexpected condition has occurred due to the absence of an internal route-map data structure.

Recommended Action show route-map

%FMANRP_PBR-3-RTMAP_NAME_NULL : The route-map name for [chars] is NULL

Explanation An unexpected condition has occurred due to the absence of an internal route-map data structure.

Recommended Action show route-map

%FMANRP_PBR-3-INVALIDIF : The interface specified for '[chars]' is not valid

Explanation A non-existent interface is specified for the policy based routing route-map operation specified in the message.

Recommended Action show interface

%FMANRP_PBR-3-UNSUPPORTED_RMAP : Route-map [chars] has unsupported options for Policy-Based Routing. It has been removed from the interface, if applied.

Explanation The route-map attached to an interface for policy routing contains an action that is not supported on this platform. This is a hardware limitation.

Recommended Action Reconfigure the route-map. Use only 'permit' entries and 'set ip next-hop' action in the route-map.

%FMANRP_PBR-3-UNSUPPORTED_RMAP_COMMAND : This Policy-Based Routing command is not supported on this platform. Use the no form of this command to remove it from configurations

Explanation Policy-Based Routing is not supported on this platform

Recommended Action Remove this command

FMANRP_PFR**%FMANRP_PFR-4-NULLINPUT : NULL input, [chars]**

Explanation	An unexpected condition has occurred which is due to the NULL value of the input parameter.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show oer border command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_PFR-4-NOINTF : Pfr Interface [chars] not exist, can't be [chars]

Explanation	An unexpected condition has occurred which is due to the absence of MCP Pfr interface info.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show oer border command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_PFR-4-UNSUPPORTED : Unsupported action, [chars]

Explanation	An unexpected condition has occurred which is due to and unsupported action being executed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show oer border command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_QOS**%FMANRP_QOS-3-ACTNOCLASSMAP : Class-map information not found**

Explanation	An unexpected condition has occurred when trying to determine class-map information for one of the classes in a policy-map.
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%FMANRP_QOS-3-ACTNOCLASSMAP : Class-map information not found

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show policy-map** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-ACTNOPOLICYMAP : Policy-map information not found

Explanation An unexpected condition has occurred when trying to determine policy-map information for one of the service policies attached to an interface.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show policy-map** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-QOSTDLMARSHAL : Failed to copy more than [dec] bytes of message [chars], length [dec] into IPC buffer

Explanation An internal error occurred when trying to build an IPC message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-QOSAPIPARAM : Internal QOS API error.

Explanation An internal API error occurred. QOS configuration may be limited.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-QOSIDBSP : Service policy [[chars]] installation error: invalid interface type [dec]

Explanation	An invalid interface type was encountered when trying to configure a service policy. This service policy could not be installed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show policy-map command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-QOSGIDBSP : Service policy [[chars]] installation error: invalid interface type [dec]

Explanation	An invalid interface type was encountered when trying to configure a service policy. This service policy could not be installed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show policy-map command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-4-QOSSTACK : Failed to install all classes for policymap [chars], excessive stack usage

Explanation	An operation to configure the classes within a policymap has failed due to a resource issue. QoS configuration for this policymap is unlikely to work.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show policy-map command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-QOSCLASSDEL : Error trying to remove class [chars] from policymap [chars]

Explanation	An operation to remove a class from a policy has failed due to an internal error.
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%FMANRP_QOS-3-QOSCLASSDEL : Error trying to remove class [chars] from policymap [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show policy-map** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-6-QOSCLASSEXIST : class [chars] (id [int]) in policymap [chars] (id [int]) already exists

Explanation This is an informational message and no action is required.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show policy-map** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-NOPOLICERSTATS : policer stats entry not found for class [int].[int], target [int]

Explanation An internal error occurred when looking up policer statistics.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show policy-map interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-NOACCOUNTSTATS : account stats entry not found for class [int].[int], target [int]

Explanation An internal error occurred when looking up account statistics.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show policy-map interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-NOSETSTATS : set stats entry not found for class [int],[int], target [int]

Explanation	An internal error occurred when looking up set statistics.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show policy-map interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-4-QIDGENFAIL : qid generation failed, reverting to default

Explanation	An internal error occurred during platform qos initialization.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-4-QOSUBR : qos can not be attached to the target with UBR configured

Explanation	An error occurred to attach qos to ATM VC/VP target with UBR configured
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-4-NOFAIRQONVC : fair-queue can not be configured on the parent queue of an ATM VC, use child queue instead

Explanation	Configuring fair-queue on the parent queue of an ATM VC is not supported
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-4-CLMODIFYFAIL : classmap [chars] is currently used by policymap, please remove policymap from all targets before the modification

Explanation	An internal error occurred when classmap being modified
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%FMANRP_QOS-4-CLMODIFYFAIL : classmap [chars] is currently used by policymap, please remove policymap from all targets before the modification

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%FMANRP_QOS-3-CLPOLFAIL : No support for client policy with policing in class-default and marking in custom class

Explanation	An internal error occurred during installing qos policy.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-4-MPOLDMVPNGRE : Only Shape and/or BRR is allowed on the QoS policy on GRE tunnel on MPoL hierarchy

Explanation	An error occurred during MPoL check between DMVPN and GRE tunnel QoS policy
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-QOSTMPLCREATEFAIL : QoS template interface creation failed for policy [chars]: [chars]

Explanation	An error occurred during template interface creation
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-QOSTMPLDELETEFAIL : QoS template interface deletion failed for policy [chars]: [chars]

Explanation	An error occurred during template interface deletion
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%FMANRP_QOS-3-QOSTMPLDELETEFAIL : QoS template interface deletion failed for policy [chars]: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%FMANRP_QOS-3-QOSTMPLNONEXIST : QoS template does not exist in [chars] for policymap [chars]

Explanation	QoS template information does not exist
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-QOSTMPLDBERROR : Failed to [chars] record for policymap [chars], err [chars]

Explanation	Database operation failed for record of the policymap
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-QOSTMPLINUSE : [chars]: [chars]

Explanation	record of the policymap is already in use
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-PRILEVELSUPPORT : Priority with level 3 is not supported. Service-policy : [chars]

Explanation	Priority level 3 support is only for AVB policy. Hence configuration is rejected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-MARKDOWNCHECK : Only markdown with a table-map is supported.

Explanation	Error occurred while performing exceed action check on the policy attached
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-CONFACTCHECK : Conform-action in a policer can only be transmit. Policy Rejected.

Explanation	Error occurred while performing conform action check on the policer.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-SHAPEBWSUPPORT : Shape and bandwidth in the same class is unsupported. Policy Rejected. Service-policy : [chars]

Explanation	Error occurred while performing qos policy check.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-QBUFFERSCHECK : Sum of configured qbuffer ratios should be less than 100. Configuration not accepted. Service-policy : [chars] Info : classes for which qbuffer ratio is not configured is given a buffer ratio 1

Explanation	Error occurred while performing queue buffers policy install check. Wrong configuration
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-HWIDBCHECK : Configuring service-policy on interface [chars] is not allowed

Explanation	Error occurred while attaching policy on gigethernet0/0.
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%FMANRP_QOS-3-HWIDBCHECK : Configuring service-policy on interface [chars] is not allowed

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%FMANRP_QOS-3-HIERPOLICYCHECK : Hierarchical Policy must have child under all user defined classes for wired ports. Service-policy : [chars]

Explanation	Error occurred while attaching a hierarchical policy
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-3-CHILDPOLICYCHECK : Only 2 level policy is supported. Service-policy : [chars]

Explanation	Error occurred while attaching a hierarchical policy
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-4-COPPMODIFY : Police rate modification for COPP system class ([chars]) is discouraged. User can go to default rate by running 'cpp system-default' CLI.

Explanation	User modified police rate for COPP system classes.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-4-COPPREMOVE : Police rate removal for COPP system class ([chars]) is discouraged. User can go to default rate by running 'cpp system-default' CLI. The system will be reconfigured with default rates post reload.

Explanation	User removed police rate for COPP system classes.
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%FMANRP_QOS-4-COPPREMOVE : Police rate removal for COPP system class ([chars]) is discouraged. User can go to default rate by running 'cpp system-default' CLI. The system will be reconfigured with default rates post reload.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-4-COPPMODRANGE : Police rate modification for COPP system class ([chars]) is out-of-range. User can go to default rate by running 'cpp system-default' CLI.

Explanation User modified police rate for COPP system classes.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_QOS-4-STACKBUFFER : Stack-buffer configuration has been modified. Current setting is stack-buffer [chars]. This change will take an effect once the configuration is written in flash (write memory) and then reload the switch.

Explanation Stack-buffer configurations in Catalyst 9300D switches.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_SC through FMFP_URPF

- [FMANRP_SC](#)
- [FMANRP_SSLVPN](#)
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- FMFP_CXSC
- FMFP_QOS
- FMFP_URPF

FMANRP_SC

%FMANRP_SC-3-SCTXTDLMSGMARSHAL : Failed to copy service context config message to IPC buffer for sctx_name id [dec]

Explanation	This operation to build a TDL message for service context configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SC-3-DBGTDLMSGMARSHAL : Failed to copy debug SC request message to IPC buffer

Explanation	This operation to build a TDL message for debug SC command has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SC-3-SCIOSDENQUEUE : Failed to enqueue SC [chars] message for transmission

Explanation	This operation to enqueue an IPC message for sending has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SC-3-INTFTDLMSGMARSHAL : Failed to copy interface config message to IPC buffer for Interface [chars] ([hex]), operation [chars]

Explanation	This operation to build a TDL message for interface configuration has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SC-4-SCNOSWIDB : Sub-interface is null

Explanation	An unexpected condition has occurred which is due to the absence of a swidb structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SC-4-NOSERVICECTX : A mapping structure is null

Explanation	An unexpected condition has occurred which is due to the absence of a SC mapping structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SC-4-SCBADACTION : Invalid action [dec] for SC configuration

Explanation	An unexpected condition has occurred which is invalid action for a SC configuration.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

FMANRP_SSLVPN

%FMANRP_SSLVPN-3-STATSCLEARERR : Unable to send clear WEB VPN context stats message. [chars] ([dec])

Explanation	This operation to build a TDL messages for WEB VPN context stats clearing has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SSLVPN-3-STATSGUPDERR : Update WEB VPN context stats error. [chars] ([dec])

Explanation	An unexpected condition has occurred when updating global sslvpn statistics
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SSLVPN-3-STATSWVUPDERR : [chars]: [chars]

Explanation	An unexpected condition has occurred when updating ssl web vpn context statistics
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SSLVPN-3-CFGSTATUSERR : [chars]: [chars]

Explanation	An unexpected condition has occurred when got status of configuration
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SSLVPN-3-GWERR : Failed [chars]: [chars]

Explanation	An unexpected condition has occurred in configuration processing causing configuration failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SSLVPN-3-VWCONFERR : Failed [chars]: [chars]

Explanation	An unexpected condition has occurred during WebVPN Context configuration causing failure.
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%FMANRP_SSLVPN-3-VWCONFERR : Failed [chars]: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%FMANRP_SSLVPN-3-PKIERR : Failed [chars]: [chars]

Explanation	An unexpected condition has occurred in configuration processing causing configuration failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SSLVPN-3-AAATDLERR : [chars][chars]. [chars]

Explanation	An unexpected condition has occurred in processing AAA request/reply message causing AAA handling failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SSLVPN-4-AAAFRIPWARN : [chars]Invalid framed ip address [IP_address] received from AAA. Not sending user config

Explanation	Wrong AAA server config.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SSLVPN-3-RRITDLERR : [chars][chars]. [chars]

Explanation	An unexpected condition has occurred in processing of SSLVPN route inject/remove message
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%FMANRP_SSLVPN-3-RRITDLERR : [chars][chars]. [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SSLVPN-3-RRICHUNKERR : [chars]

Explanation Error has occurred when requested memory for SSLVPN route handling

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FMANRP_SSLVPN-3-CONDDEBERR : [chars]. [chars]

Explanation An unexpected condition has occurred in processing conditional debug message

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

FMD

%FMD-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]

Explanation For a request from upper FMD software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck binding that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%FMD-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation For a request from upper FMD software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck binding that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%FMD-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation	Registering an IPC message handler for the FMD feature failed. This will cause the feature to not function.
Recommended Action	This is normally a software issue. The consequences are that the FMD feature will not function. LOG_STD_ACTION

FME

%FME-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]

Explanation	For a request from upper FME software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%FME-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation	For a request from upper FME software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%FME-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation	Registering an IPC message handler for the FME feature failed. This will cause the feature to not function.
Recommended Action	This is normally a software issue. The consequences are that the FME feature will not function. LOG_STD_ACTION

FME_DP

%FME_DP-3-DEBUG_REG_FAILED : Flow Metric Engine fails to registrate with Conditional Debugging.

Explanation	Flow Metric Engine fails to registrate with Conditional Debugging infra.
Recommended Action	LOG_STD_ACTION

FMFP**%FMFP-3-INTERFACE_OBJECT_NOT_FOUND : Interface object lookup by [chars] not found for interface [int]**

Explanation	The desired interface object was not found.
Recommended Action	Examine the interface state in the operating system, route processor (RP) and forwarding processor (FP) forwarding manager logs.

%FMFP-3-OBJ_DWNLD_TO_DP_FAILED : [chars] download to DP failed

Explanation	An object has failed to download to the data plane
Recommended Action	Examine the list of error objects in the forwarding processor (FP) forwarding manager asynchronous object logs.

%FMFP-3-OBJ_DWNLD_TO_DP_STUCK : AOM download to Data Plane is stuck for more than [int] seconds [chars]

Explanation	An object download from FMAN-FP to lower layer has taken long time. It can be caused by incomplete configuration or software defects
Recommended Action	Run show platform software object-manager fp [active standby] [pending-issue-update pending-issue-batch] sorted <min_pending_time> to see the sorted list of update/batch/ command in pending state for more than the min_pending_time. For incomplete configuration, use show platform platform software object fp [active standby] resolve to see if there is any resolve object

%FMFP-6-OBJ_DWNLD_TO_DP_RESUME : AOM download of objects to Data Plane is back to normal

Explanation	An object download from FMAN-FP to lower layer has finished after a temporary stuck. It can be caused by incomplete configuration or software defects
Recommended Action	check if there is any functional impact after recovery

%FMFP-3-OBJ_ACK_FROM_DP_STUCK : AOM ack download to Data Plane is stuck for more than [int] seconds [chars]

Explanation	An object ack from lower layer to FMAN-FP has taken long time. It can be caused by incomplete configuration or software defects
Recommended Action	Run show platform software object-manager fp [active standby] [pending-ack-update pending-ack-batch pending-ack-commands] sorted <min_pending_time> to see the sorted list of update/ batch/command in pending state for more than the min_pending_time. For incomplete configuration, use show platform platform software object fp [active standby] resolve to see if there is any resolve object

%FMFP-6-OBJ_ACK_FROM_DP_RESUME : AOM ack of objects to Data Plane is back to normal

Explanation An object ack from lower layer to FMAN-FP has finished after a temporary stuck. It can be caused by incomplete configuration or software defects

Recommended Action check if there is any functional impact after recovery

%FMFP-3-DP_NOMEM : DP not enough memory. [chars]

Explanation An object download to DP failed because the memory of DP is not enough.

Recommended Action Run show platform resource to see the memory usage

FMFP_ACL

%FMFP_ACL-3-ACL_OBJECT_DOWNLOAD : [chars][chars] fail to download because [chars].

Explanation The access control list (ACL) object has failed to download. This could be due to a hardware or software resource limitation or a software defect.

Recommended Action Check the logs for information on the relevant object download states. Remove the ACL attachment to the interface or delete the ACL. Reboot the forwarding processor (FP).

%FMFP_ACL-3-ACL_LIMIT_EXCEEDED : ACL [chars] exceeded limitation of [int] ACEs per ACL

Explanation A software limitation has been exceeded.

Recommended Action Reduce the access control list (ACL) configuration. A reboot of the forwarding processor (FP) is recommended.

%FMFP_ACL-3-ACL_PROTOCOL_CHECK : ACL [chars] protocol does not match what was previously configured

Explanation The error occurs for one of two reasons. An access control list (ACL) reference was made to an ACL of a different protocol or an ACL was added or edited when there were similarly named ACL references of a different protocol

Recommended Action Remove the conflicting ACL or the conflicting ACL references.

%FMFP_ACL-3-ACL_MODIFY_FAILED : ACL:[chars] modification through object group edit failed

Explanation Object-group used in the ACL was modified. Those changes could not be accommodated in the ACL

Recommended Action Fix the object-group changes. Delete ACL and reconfigure it

%FMFP_ACL-3-SGACL_OBJECT_DOWNLOAD : SGACL Cell ([dec] [dec]) policy [chars] fail to download because [chars].

Explanation The SGACL policy has failed to download. This could be due to a hardware or software resource limitation or a software defect.

Recommended Action Check the logs for information on the relevant object download states. Remove the SGACL policy for that cell, correct the error and reconfigure it

FMFP_CXSC**%FMFP_CXSC-3-CXSC_INITIALIZATION : [chars] Returned: [chars]**

Explanation The CXSC INITIALIZATION has FAILED. This could be due to a hardware or software resource limitation or a software defect.

Recommended Action Check memory usage and router configuration and try to re-activate virtual service again. If it shows the same results then please contact TAC.

%FMFP_CXSC-3-CXSC_DEINITIALIZATION : [chars] Returned: [chars]

Explanation The CXSC DEINITIALIZATION has FAILED. This could be due to a hardware or software resource limitation or a software defect.

Recommended Action Check memory usage and router configuration and try to re-activate virtual service again. If it shows the same results then please contact TAC.

%FMFP_CXSC-3-CXSC_DOMAIN_CONFIG : [chars] Returned: [chars]

Explanation The CXSC DOMAIN CONFIG DOWNLOAD has FAILED. This could be due to a hardware or software resource limitation or a software defect.

Recommended Action Check memory usage and router configuration and try to re-activate virtual service again. If it shows the same results then please contact TAC.

%FMFP_CXSC-3-CXSC_POLICY_DOWNLOAD : [chars] Returned: [chars]

Explanation The CXSC POLICY DOWNLOAD has FAILED. This could be due to a hardware or software resource limitation or a software defect.

%FMFP_CXSC-3-CXSC_POLICY_DOWNLOAD : [chars] Returned: [chars]

Recommended Action	Check memory usage and router configuration and try to re-activate virtual service again. If it shows same results then please contact TAC.
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%FMFP_CXSC-6-CXSC_POLICY_DOWNLOAD_SUCCESS : New policy version: [int] has now been installed and is active

Explanation	The CXSC POLICY DOWNLOAD of the numbered version has succeeded.
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Recommended Action	This an informational message only, no action is required. Note that policy version is not monotonically increasing so there is nothing to be concerned about if the current installed policy version is less than the previous installed policy version.
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FMFP_QOS

%FMFP_QOS-6-QOS_STATS_STALLED : statistics stalled

Explanation	QoS statistics are temporarily stalled. This is an informational message.
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Recommended Action	No action is required.
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%FMFP_QOS-6-QOS_STATS_PROGRESS : statistics are progressing

Explanation	QoS statistics are now progressing normally. This is an informational message.
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Recommended Action	No action is required.
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FMFP_URPF

%FMFP_URPF-3-OBJECT_DOWNLOAD : Unicast RPF [chars] on interface [chars] fail to download because [chars].

Explanation	The unicast reverse path forwarding (URPF) operation failed to download. This can be caused by a hardware or software resource limitation or a software defect.
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Recommended Action	Check the logs for information on the relevant download states. Remove the uRPF feature enabled on any interface. Reboot the forwarding processor (FP).
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%FMFP_URPF-3-LIST_DOWNLOAD : Unicast RPF list [chars] for list [int] fail to download because [chars].

Explanation	The unicast reverse path forwarding (URPF) list failed to download. This can be caused by a hardware or software resource limitation or software defect.
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%FMFP_URPF-3-LIST_DOWNLOAD : Unicast RPF list [chars] for list [int] fail to download because [chars].

Recommended Action Check the logs for information on the relevant download states. Reboot the forwarding processor (FP).

FNF through FR_HA

- [FNF](#)
- [FNF_PROXY](#)
- [FPD_MGMT](#)
- [FR](#)
- [FRAG](#)
- [FRAG_DESC_PROXY](#)
- [FRR_OCE](#)
- [FR_ELMI](#)
- [FR_FRAG](#)
- [FR_HA](#)

FNF

%FNF-6-AGER_OVERRIDE : Flow [chars] time modified by [chars] to [dec]

Explanation The aging timer has been modified and may be different from configured value.

Recommended Action No action is required.

%FNF-6-ERROR : FNF error: [chars]

Explanation An FNF error occurred.

Recommended Action For more information, repeat the action with FNF debugging enabled.

%FNF-6-CONFIGURATION : Invalid FNF configuration: [chars]

Explanation An invalid FNF configuration was detected.

Recommended Action Review the FNF configuration before repeating the action.

%FNF-3-LC_STATUS : Flow monitor [chars] can not be added to [chars], rejected on module [chars] : [chars]

Explanation The flow monitor has been rejected on the specified module. It will have been removed from the RP configuration too. This can happen for example when a monitor is removed and added again immediately before the tidy has been completed, or in the case where a flow monitor is waiting at automore when the monitor is removed from the interface then reapplied

Recommended Action Check the configuration of the Flow Monitor that was applied for errors. If the rejection was due to the LC not having finished cleaning up after a previous removal of a Flow Monitor, wait until the cleaning up has finished then reapply the config.

%FNF-3-PROVISIONING : [chars] failed to provision '[chars] flow monitor [chars] [chars]' on [chars]: [chars]

Explanation The attachment of the Flow Monitor to has had a problem on the device identified. It may be working on other devices, and the configuration is retained.

Recommended Action Check the device identified is working as expected and that it can support the configuration of the Flow Monitor to the chosen attachment point.

%FNF-3-KEY_SIZE_INVALID : Unexpected key fields size: [dec], MSGDEF_LIMIT_SLOW

Explanation Netflow attempted to install a flow with an invalid key fields size.

Recommended Action LOG_STD_ACTION

%FNF-4-FREE_LIST_EMPTY : Monitor: [hex], MSGDEF_LIMIT_MEDIUM

Explanation Netflow attempted to install a flow but no free flow records were available.

Recommended Action LOG_STD_ACTION

%FNF-3-FREE_LIST_ADD : Failed for record: [hex], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to return a record to the free list.

Recommended Action LOG_STD_ACTION

%FNF-3-CLEANUP_ENTRY : Failed, MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to clean up a record for reuse.

%FNF-3-CLEANUP_ENTRY : Failed, MSGDEF_LIMIT_MEDIUM

Recommended Action LOG_STD_ACTION

%FNF-3-UNSUPPORTED_PROT : [chars], MSGDEF_LIMIT_MEDIUM

Explanation This protocol is unsupported.

Recommended Action LOG_STD_ACTION

%FNF-3-INVALID_CMD : Flow builder encountered an invalid command: [dec]., MSGDEF_LIMIT_MEDIUM

Explanation Flow builder doesn't support the command encountered in the instruction stream.

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_UNSUPPORTED_AGG_FMT : Format: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow doesn't support this aggregation type.

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_UNSUPPORTED_EXP_FMT : Format: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow doesn't support this export format.

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_UNSUPPORTED_OPTION : Option: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow doesn't support this export option.

Recommended Action LOG_STD_ACTION

%FNF-3-IPFIX_UNSUPPORTED_MON_TYPE : Monitor type: [dec], MSGDEF_LIMIT_MEDIUM

Explanation IPFIX doesn't support this monitor type.

Recommended Action LOG_STD_ACTION

%FNF-3-REFCNT_TIMEOUT : never reached 0 for entry [hex], MSGDEF_LIMIT_SLOW

Explanation Netflow timed out waiting for an flow cache entries refcnt. to hit 0. The entry was forced out

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_UNSUPPORTED_MMA_FIELD : MMA global ID [dec] (Netflow field [dec]) is not supported by MMA, MSGDEF_LIMIT_SLOW

Explanation Netflow field that is marked as MMA (Metric Mediation Agent) controlled field is not supported by MMA

Recommended Action LOG_STD_ACTION

%FNF-3-REFCNT_UNDERFLOW : refcnt underflow for entry [hex], MSGDEF_LIMIT_SLOW

Explanation Netflow error caused flow cache entry reference count to go negative. The decrement was rescinded

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_FIELD_LIST_VAR_INVALID : Unknown field variety [dec] for field_id [dec], MSGDEF_LIMIT_MEDIUM

Explanation Internal error, Netflow field list entry mapped to unknown field variety

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_FIELD_UNEXPECTED_SIZE : Unexpected size for field_id [dec], expected [dec]/got [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow specified unexpected size for field_id

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_FIELD_LIST_TS_CNT_KEY : Field_id [dec] must be non-key, MSGDEF_LIMIT_MEDIUM

Explanation Netflow Field list specified timestamp/counter field as a key field, which is not supported

%FNF-3-FNF_FIELD_LIST_TS_CNT_KEY : Field_id [dec] must be non-key, MSGDEF_LIMIT_MEDIUM

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_FIELD_LIST_TOO_LARGE : Field_list too large, max [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow field list contains too many fields. At most 32 fields are supported, including any hidden fields automatically added as necessary for record keeping

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_FREQ_LAYOUT_TOO_LARGE : Flow record layout too large, max [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow field list results in a flow record layout which is too large. At most 128 bytes of flow record data is supported, including any padding, and any hidden fields automatically added as necessary for record keeping

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_FIELD_LIST_MEM_INSUFFICIENT : Insufficient memory [dec] for field_list, MSGDEF_LIMIT_MEDIUM

Explanation Internal error, netflow client provided insufficient memory to process a field list

Recommended Action LOG_STD_ACTION

%FNF-3-INVALID_FO : FNF FO is not valid, MSGDEF_LIMIT_MEDIUM

Explanation FNF feature object is not valid.

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_CWALK_FLEXIBLE_UNEXPECTED_LAYOUT : Failed copy to CLI buffer , PI will receive zero buffer, MSGDEF_LIMIT_MEDIUM

Explanation Failed copy to CLI buffer during the walk process ,fill the buffer with 0

Recommended Action LOG_STD_ACTION

%FNF-6-DYNAMIC_MONITORS_OVER_SUBSCRIPTION : Interface [chars] (dir=[chars]): the number of monitors that should run on the packet([dec]) exceeds QFP limit([dec]), [dec] monitor[chars] won't run, MSGDEF_LIMIT_GLACIAL

Explanation QFP maximum supported number of monitors per packet was exceeded. As a result the excess number of monitors will not run on the packet. Static monitors always take priority over policy-map monitors.

Recommended Action LOG_STD_DBG_ACTION

%FNF-6-SYNC_CACHE_TOO_MANY_RECS_FOR_INTERVAL : For synchronized cache the number of records is larger than can be exported in configured interval., MSGDEF_LIMIT_MEDIUM

Explanation The number of records is too large for the configured interval. As a result some records may not be exported in a timely manner. Consider reducing cache size or increasing interval length.

Recommended Action LOG_STD_DBG_ACTION

%FNF-3-DEBUG_REG_FAILED : FNF fails to registrate with Conditional Debugging.

Explanation FNF fails to registrate with Conditional Debugging infra.

Recommended Action LOG_STD_ACTION

%FNF-3-CFT_REG_FAILED : FNF fails to connect to CFT infra.

Explanation FNF fails to connect to CFT infra.

Recommended Action LOG_STD_ACTION

%FNF-3-FNF_EXPORT_BUILD_TYPE_FAILED : Format: [dec], MSGDEF_LIMIT_MEDIUM

Explanation FNF Exporter build failed. unknown type.

Recommended Action

FNF_PROXY

%FNF_PROXY-3-IPC_UNHANDLED : type [dec]

Explanation An unknown message was received by the Netflow Client Proxy.

%FNF_PROXY-3-IPC_UNHANDLED : type [dec]

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-MON_CACHE_FREE_LIST_INIT : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to initialize the free list.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-MON_CACHE_FREE_LIST_POOL_ADD : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to populate the free list.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-MON_CACHE_AGER_INIT : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to initialize the ager.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-MON_CACHE_AGER_SHUT : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to shutdown the ager.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-MON_CACHE_FORCE_FLUSH : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to force a cache flush.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-EXPORTER_INIT : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to initialize the exporter.

%FNF_PROXY-3-EXPORTER_INIT : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-EXPORTER_SHUT : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to shutdown the exporter.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-EXPORTER_OPTION_TEMPLATE_BIND : Failed for exporter: [hex] with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to bind an option template.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-EXPORTER_OPTION_TEMPLATE_UNBIND : Failed for exporter: [hex] with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to unbind an option template.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-EXPORTER_OPTION_TIMER_START : Failed for exporter: [hex] with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to start an option timer.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-EXPORTER_OPTION_TIMER_STOP : Failed for exporter: [hex] with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to stop an option timer.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-EXPORTER_FORCE_TEMPLATE_REFRESH : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to force a template refresh for an exporter.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-FLOW_CACHE_WALK : Failed for session: [hex] with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to process a flow cache walk request.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-OBJ_MODIFY : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to process an object modify request.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-STATS : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to process a stats request.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-EVAL_FREQ_FIELD_LIST : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to process an evaluate flow record field list request.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-PROCESS_FREQ_FIELD_LIST : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to process a process flow record field list request.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-FLOW_CACHE_WALK_FLEXIBLE : Failed for session: [hex] with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to process a flow cache walk/flexible request.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-PROXY_IPC_PAK_ALLOC_FAILED :

Explanation Allocation of IPC packet failed.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-PROXY_IPC_SEND_FAILED : [dec]

Explanation Could not send IPC reply for proxy request.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-MON_CACHE_CLEAN : Failed with return code: [dec], MSGDEF_LIMIT_MEDIUM

Explanation Netflow failed to perform cache cleanup.

Recommended Action LOG_STD_ACTION

%FNF_PROXY-3-FNF_CWALK_TOP_TALKERS_INVALID_SORT : This field can't be used for sort, MSGDEF_LIMIT_MEDIUM

Explanation Show Top Talkers command contains sort field specification that is not supported.

Recommended Action LOG_STD_ACTION

FPD_MGMT

%FPD_MGMT-6-BUNDLE_DOWNLOAD : Downloading FPD image bundle for [chars] card in [chars] ...

Explanation The system is downloading the field programmable device image bundle to the system main memory.

Recommended Action No action is required.

%FPD_MGMT-6-UPGRADE_TIME : Estimated total FPD image upgrade time for [chars] card in [chars] = %TS.

Explanation The estimated total time for all FPD images to be upgraded is displayed for the indicated card.

Recommended Action No action is required.

%FPD_MGMT-6-UPGRADE_START : [chars] (FPD ID=[int]) image upgrade in progress for [chars] card in [chars]. Updating to version [int].[int]. PLEASE DO NOT INTERRUPT DURING THE UPGRADE PROCESS (estimated upgrade completion time = %TS) ... FPD upgrade in progress on hardware, reload/configuration change on those hardware is not recommended as it might cause HW programming failure and result in RMA of the hardware.

Explanation The FPD image upgrade process has started. Do not interrupt the upgrade operation as any interruption could render the target card unusable. Avoid actions like removing the target card from the system, powering off the system, or using commands that can power-cycle the target card during the upgrade process.

Recommended Action No action is required.

%FPD_MGMT-6-UPGRADE_PASSED : [chars] (FPD ID=[int]) image in the [chars] card in [chars] has been successfully updated from version [chars] to version [int].[int]. Upgrading time = %ITE

Explanation The FPD image upgrade process has completed successfully for the indicated device.

Recommended Action No action is required.

%FPD_MGMT-6-OVERALL_UPGRADE : All the attempts to upgrade the required FPD images have been completed for [chars] card in [chars]. Number of successful/failure upgrade(s): [int]/[int].

Explanation All the FPD image upgrades have completed for the indicated card.

Recommended Action No action is required.

%FPD_MGMT-6-UPGRADE_RETRY : Attempting to recover from the failed upgrades ...

Explanation Because of an image upgrade failure, the system will attempt again the upgrade operation for the same FPD image.

Recommended Action No action is required.

%FPD_MGMT-6-PENDING_UPGRADE : [int] more FPD image upgrade operation will be required on [chars] in [chars] after additional power-cycle operation on the target card.

Explanation All upgrade operations have not completed, and additional power-cycle operations are required before the upgraded or new FPD image will be applied to the system configuration. The message text indicates the number of pending upgrade operations that will be performed. More than one power-cycle operation might be required to complete the overall upgrade process.

Recommended Action No action is required.

%FPD_MGMT-5-UPGRADE_ATTEMPT : Attempting to automatically upgrade the FPD image(s) for [chars] card in [chars]. Use 'show upgrade fpd progress' command to view the upgrade progress ...

Explanation The automatic FPD image upgrade feature is enabled with the `upgrade fpd auto` global configuration command. The system is currently upgrading an incompatible image version automatically.

Recommended Action No action is required. The upgrade process can take a long time. The FPD_MGMT-6-UPGRADE_TIME message gives an estimate of the total upgrade time.

%FPD_MGMT-5-CARD_POWER_CYCLE : [chars] card in [chars] is being power cycled for the FPD image upgrade to take effect.

Explanation The indicated card is being power cycled after the FPD image upgrade. This action allows the target card to be operational with the new upgraded FPD image or images.

Recommended Action No action is required.

%FPD_MGMT-5-POST_UPGRADE_REMINDER : [chars] card in [chars] will require a [chars] for the FPD image upgrade to take effect.

Explanation The indicated card will require manual intervention after the FPD image upgrade. The specified operation is required for the upgraded FPD image to take effect.

Recommended Action No action is required.

%FPD_MGMT-4-BYPASS_AUTO_UPGRADE : The automatic FPD image upgrade feature is not enabled, bypassing the image upgrade for [chars] card in [chars].

Explanation	The automatic FPD image upgrade feature is not enabled. The incompatible image will not be automatically upgraded. The card will be disabled until the image is upgraded to a compatible version.
Recommended Action	Enable the automatic FPD image upgrade with the upgrade fpd auto global configuration command or use the upgrade hw-module privileged EXEC command for a manual upgrade operation. For more information about these commands, refer to the FPD_DOCUMENT_NAME .

%FPD_MGMT-4-UPGRADE_EXIT : Unexpected exit of FPD image upgrade operation for [chars] card in [chars].

Explanation	The FPD image upgrade operation was interrupted by the physical removal of the card from the system or by the use of other commands that have interrupted the normal operation of the target card. The partial upgrade operation might have left the card unusable because of corrupted FPD images.
Recommended Action	If the card does not come up after reinserting into the system, then perform the recovery upgrade operation by using the upgrade hw-module privileged EXEC command. With this command the system will attempt the reprogramming of the image to recover from the previous partial upgrade operation. For more information about performing a recovery upgrade operation, refer to the FPD_DOCUMENT_NAME .

%FPD_MGMT-4-VERSION_CHECK_ABORTED : FPD image version check operation has been aborted for [chars] card in [chars] because manual upgrade has already being started.

Explanation	The FPD image version check operation required for the automatic upgrade feature is not being performed for the indicated card because the upgrade hw-module privileged EXEC command has already being executed. These two operations cannot be performed at the same time.
Recommended Action	If an automatic upgrade operation is required, do not enter the upgrade hw-module privileged EXEC command for the manual upgrade while the target card is initializing. Enter the show hw-module subslot fpd command and ensure that the target card is displayed in the command output before proceeding with the manual upgrade.

%FPD_MGMT-4-CFG_NOT_SYNCED : Failed to sync [chars] command to standby: [chars]

Explanation	A FPD configuration command failed to get synced to standby RP due to the indicated error condition. Usually this can happen if the standby RP hardware doesn't support the type of filesystem supported on the active one.
Recommended Action	Configure again the command with a filesystem that is supported on both standby and active RP. To find out if a specific filesystem is also supported on standby RP, the dir ? command can be used to display a list of filesystem supported on both standby and active RP.

%FPD_MGMT-3-INVALID_IMG_VER : Invalid [chars] (FPD ID=[int]) image version detected for [chars] card in [chars].

Explanation The indicated field programmable device contains an invalid version for the FPD image, because the system was not able to extract this information from the indicated card. A failed upgrade attempt might have corrupted the FPD image identification on the device.

Recommended Action If the automatic upgrade feature is not enabled, then the affected card will be disabled. If this happens, then follow the recommended action described for the FPD_MGMT-3-CARD_DISABLED message.

%FPD_MGMT-3-IMG_VER_NOT_FOUND : FPD image version information is not available for [chars] card in [chars]. All the FPD images will be upgraded to recover from this error.

Explanation The FPD image version information for the indicated card is not available because the system was not able to extract this information for all the FPDs in the card. This could be the result of a corrupted FPD image from a power failure.

Recommended Action If the automatic upgrade feature is not enabled, then the affected card will be disabled. If this happens, then follow the recommended action described for the FPD_MGMT-3-CARD_DISABLED message.

%FPD_MGMT-3-INCOMP_IMG_VER : Incompatible [chars] (FPD ID=[int]) image version detected for [chars] card in [chars]. Detected version = [int].[int], minimum required version = [int].[int]. Current HW version = [int].[int].

Explanation An incompatible FPD image version has been detected. The FPD image needs to be upgraded either automatically, or manually, to make the card operational. If the automatic upgrade feature is not enabled, or if the system cannot find the necessary FPD image package file, then the card will be disabled.

Recommended Action If the automatic upgrade feature is not enabled, then the affected card will be disabled. If this happens, then follow the recommended action described for the FPD_MGMT-3-CARD_DISABLED message.

%FPD_MGMT-3-MAJOR_VER_MISMATCH : Major image version mismatch detected with [chars] (FPD ID=[int]) for [chars] card in [chars]. Image will need to be [chars] from version [int].[int] to at least a minimum version of [int].[int]. Current HW version = [int].[int].

Explanation A major image version mismatch has been detected. This incompatibility will need to be resolved by doing an upgrade or downgrade operation either automatically, or manually, to make the card operational. If the automatic upgrade feature is not enabled, or if the system cannot find the necessary FPD image package file, then the card will be disabled.

%FPD_MGMT-3-MAJOR_VER_MISMATCH : Major image version mismatch detected with [chars] (FPD ID=[int]) for [chars] card in [chars]. Image will need to be [chars] from version [int].[int] to at least a minimum version of [int].[int]. Current HW version = [int].[int].

Recommended Action If the automatic upgrade feature is not enabled, then the affected card will be disabled. If this happens, then follow the recommended action described for the FPD_MGMT-3-CARD_DISABLED message.

%FPD_MGMT-3-OPEN_FAILED : Failed to open [chars] ([chars]). Please make sure that the required file is in a valid path.

Explanation The system cannot access the required file from the indicated URL.

Recommended Action Make sure that the indicated URL is a valid path, and the system has access to the filesystem where the file has been placed.

%FPD_MGMT-3-OUT_OF_MEMORY : Could not allocate the required [dec] bytes of memory.

Explanation The system does not have enough free main memory to download the bundle file.

Recommended Action Make sure that the system main memory size meets the minimum requirement that is specified in the Cisco IOS software release note. If the system meets the minimum requirement for this Cisco IOS software release, make sure that the amount of free main memory in the system also meets the minimum memory required to use this software feature. Use the **show memory** command to find out this information and add more main memory if it is necessary. If the system meets all the memory requirements, copy the error message exactly as it appears on the console and gather the output of the **show tech-support** command and contact your technical support representative with this information.

%FPD_MGMT-3-READ_ERROR : Could not read the [chars] file.

Explanation The system cannot read the required file from the indicated URL.

Recommended Action Make sure that the indicated URL is a valid path, and the system has access to the filesystem where the file has been placed.

%FPD_MGMT-3-BNDL_WRONG_MAGIC_NUM : The [chars] file contains a wrong magic number for the image bundle: [hex] (expected [hex]). Please make sure that this is a valid FPD image [chars] file for card in [chars].

Explanation The indicated file might not be a valid FPD image bundle or package file for the target card or the file could be corrupted.

%FPD_MGMT-3-BNDL_WRONG_MAGIC_NUM : The [chars] file contains a wrong magic number for the image bundle: [hex] (expected [hex]). Please make sure that this is a valid FPD image [chars] file for card in [chars].

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd**, **show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-BNDL_WRONG_HDR_LEN : The [chars] file contains wrong header length for the image bundle: [int] bytes (expected [int] bytes). Please make sure that this is a valid FPD image [chars] file for card in [chars].

Explanation The indicated file might not be a valid FPD image bundle or package file for the target card.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd**, **show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-BNDL_WRONG_SIZE : The [chars] file contains incorrect image bundle size: [int] bytes (expected [int] bytes). Please make sure that this is a valid FPD image [chars] file for card in [chars].

Explanation The indicated file might not be a valid FPD image bundle or package file for the target card.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd**, **show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-BNDL_CRC_CHECK_FAIL : The [chars] file contains a corrupted image bundle - CRC mismatch: current value [hex], expected value [hex]. Please make sure that this is a valid FPD image [chars] file for card in [chars].

Explanation	The file failed the CRC checking process. This failure indicates a corrupt FPD image bundle or package file.
Recommended Action	Try to download again the required package from the Cisco Software Center website as the indicated one might be corrupted. If the problem persists, copy the error message exactly as it appears and gather the output of the show hw-module subslot fpd , show upgrade fpd table and show upgrade fpd file fpd-pkg-url commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-BNDL_CARD_TYPE_MISMATCH : The [chars] file does not contain the card type ([hex]) in the image bundle to indicate the support of the target card. Please make sure that this is a valid FPD image [chars] file for card in [chars].

Explanation	The image bundle in the indicated file does not contain a correct card type value for the target card.
Recommended Action	Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the show hw-module subslot fpd , show upgrade fpd table and show upgrade fpd file fpd-pkg-url commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-BNDL_NAME_PREFIX_MISMATCH : The [chars] file contains a bundle name prefix ([chars]) that does not match with the expected value of [chars] for the image bundle. Please make sure that this is a valid FPD image [chars] file for card in [chars].

Explanation	The content of the selected FPD image bundle does not match its filename.
Recommended Action	Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the show hw-module subslot fpd , show upgrade fpd table and show upgrade fpd file fpd-pkg-url commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-INCOMP_BNDL_VER : The selected [chars] file contain an image bundle that has a version number that is incompatible for this IOS release - [chars]. Selected version = [int].[int], minimum compatible version = [int].[int]. Please make sure that this is a valid FPD image [chars] file for card in [chars]. The SPA type is [chars].

Explanation The version of the selected FPD image bundle does not contain a valid version number that is compatible for the IOS release. The major version number should be the same and the minor version number should be at least equal to the minimal required version.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd**, **show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-MISSING_IMAGE : Could not find the required [chars] image (FPD ID=[int] and FPD version=[int].[int] compatible with HW version=[int].[int]) from the [chars]-fpd.bundle in [chars] file. Please make sure that this is a valid FPD image [chars] file for [chars] card in [chars].

Explanation The indicated FPD image bundle or package file might not be the correct one. If this is a FPD image package file, then an incompatible package file might have been renamed with a filename that matched with the one that the system is expecting for this Cisco IOS software release. You should never rename an FPD image package file name.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd**, **show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-WRONG_IMG_MAJOR_VER : The selected FPD image for upgrade contains wrong FPD image major version number = '[int]' (expected number = '[int]') for [chars] (FPD ID [int]). Please make sure that the file being used for upgrade is a valid FPD image [chars] for card in [chars].

Explanation The file used for upgrade might not be a valid FPD image bundle or package file for the card.

%FPD_MGMT-3-WRONG_IMG_MAJOR_VER : The selected FPD image for upgrade contains wrong FPD image major version number = '[int]' (expected number = '[int]') for [chars] (FPD ID [int]). Please make sure that the file being used for upgrade is a valid FPD image [chars] for card in [chars].

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd, show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-WRONG_IMG_MAGIC_NUM : The FPD image for [chars] (FPD ID [int]) in [chars] file contains wrong magic number: [hex] (expected [hex]). Please make sure that this is a valid FPD image bundle or package file for card in [chars].

Explanation The indicated file might not be a valid FPD image bundle or package file for the card.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd, show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-WRONG_IMG_HDR_LEN : The FPD image for [chars] (FPD ID [int]) in [chars] file contains wrong header length: [int] bytes (expected [int] bytes). Please make sure that this is a valid FPD image bundle or package file for card in [chars].

Explanation The indicated file might not be a valid FPD image bundle or package file for the card.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd, show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-WRONG_IMG_DATA_LEN : The FPD image for [chars] (FPD ID [int]) in [chars] file contains wrong data length: total data length (with padding) = [int] bytes, data length = [int] bytes. Please make sure that this is a valid FPD image bundle or package file for card in [chars].

Explanation The indicated file might not be a valid FPD image bundle or package file for the card.

%FPD_MGMT-3-WRONG_IMG_DATA_LEN : The FPD image for [chars] (FPD ID [int]) in [chars] file contains wrong data length: total data length (with padding) = [int] bytes, data length = [int] bytes. Please make sure that this is a valid FPD image bundle or package file for card in [chars].

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd**, **show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-IMG_CRC_CHECK_FAILED : The FPD image for [chars] (FPD ID [int]) in [chars] file is corrupted - CRC mismatch: current value [hex], expected value [hex]. Please make sure that this is a valid FPD image bundle or package file for card in [chars].

Explanation The image failed the CRC checking process, this indicates a corrupt FPD image bundle or package file.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd**, **show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-FPD_UPGRADE_FAILED : [chars] (FPD ID=[int]) image upgrade for [chars] card in [chars] has FAILED.

Explanation The FPD image upgrade process has failed for the indicated device.

Recommended Action Retry the upgrade operation again. If the affected card remains disabled by the system after attempts to retry the upgrade, then copy the error message exactly as it appears and gather the output of **show hw-module subslot fpd** and contact your technical support representative with the gathered information.

%FPD_MGMT-3-FPD_UPGRADE_CANCELED : Rest of the FPD upgrade sequence for [chars] card in [chars] has been canceled due to upgrade failure with [chars] (FPD ID=[int]) image.

Explanation The FPD image upgrade process for additional FPD images has been canceled due to upgrade error in the indicated device.

Recommended Action Retry the upgrade operation again. If the affected card remains disabled by the system after attempts to retry the upgrade, then copy the error message exactly as it appears and gather the output of **show hw-module subslot fpd** and contact your technical support representative with the gathered information.

%FPD_MGMT-3-SEND_IMG_FAILED : [chars] (FPD ID=[int]) image for [chars] card in [chars] has failed to be sent for upgrade operation - [chars]

Explanation	The FPD image was not able to be sent for the upgrade operation. The system might be too busy to handle this operation. The affected card will be disabled by this failure.
Recommended Action	Wait until the system load is lower to try again with the manual upgrade procedure by using the upgrade hw-module privileged EXEC command. If the symptom persists, copy the error message exactly as it appears and gather the output of the show tech-support command and contact your technical support representative with the gathered information.

%FPD_MGMT-3-IMG_DATA_UNCOMPRESS_ERROR : Could not uncompress [chars] FPD image for [chars] in [chars].

Explanation	An error has been detected during the uncompress operation of the compressed FPD image data.
Recommended Action	Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the show hw-module subslot fpd, show upgrade fpd table and show upgrade fpd file fpd-pkg-url commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-BUNDLE_EXTRACT_ERROR : Cannot extract the [chars] bundle from [chars] - [chars]

Explanation	Bundle file extraction error. The cause of the failure is indicated in the error message. The indicated file might not be a valid FPD image package file.
Recommended Action	Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the show hw-module subslot fpd, show upgrade fpd table and show upgrade fpd file fpd-pkg-url commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-PKG_VER_FILE_EXTRACT_ERROR : Cannot extract the [chars] version file from [chars] - [chars]

Explanation	Package version file extraction error. The cause of the failure is indicated in the error message. The indicated file might not be a valid FPD image package file.
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%FPD_MGMT-3-PKG_VER_FILE_EXTRACT_ERROR : Cannot extract the [chars] version file from [chars] - [chars]

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd, show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-INVALID_PKG_FILE : The indicated file ([chars]) is not a valid FPD image package file - [chars]

Explanation The file format does not appear to be a valid FPD image package.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd, show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-INVALID_PKG_FILE_SIZE : The indicated file ([chars]) does not have a valid FPD image package file size, minimum size = [dec] bytes.

Explanation The file size of the indicated FPD image package does not meet the required minimum size. The file is too small to be a valid FPD image package file.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd, show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-READ_BNDL_HDR_ERROR : Failed to read the FPD bundle header from [chars] file.

Explanation The indicated file might not be a valid FPD image bundle or package file.

%FPD_MGMT-3-READ_BNDL_HDR_ERROR : Failed to read the FPD bundle header from [chars] file.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd, show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-INVALID_IMAGE_SIZE : The [chars] FPD image from [chars] file does not have a valid image size: expected size = [dec] bytes, actual size = [dec] bytes.

Explanation The size of the indicated FPD image does not have the expected size. The FPD image bundle or package might not be a valid file.

Recommended Action Make sure that the version of the FPD image package, which is stated in the package filename, matches or is compatible with the Cisco IOS software release that the system is running. If the version is not the correct one, try to obtain the right one from the Cisco Software Center website. If the problem persists, copy the error message exactly as it appears and gather the output of the **show hw-module subslot fpd, show upgrade fpd table** and **show upgrade fpd file fpd-pkg-url** commands, then contact your technical support representative with the gathered information.

%FPD_MGMT-3-MISSING_DEV_INFO : Could not find [chars] (FPD ID=[int]) in the list of FPD IDs populated for [chars] card in [chars].

Explanation FPD_INTERNAL_SW_ERR_STD_EXPLANATION

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FPD_MGMT-3-MISSING_BUNDLE_ENTRY : Failed to find a matching entry in the programmable device bundle information table for [chars] in [chars]. Card type or HW version ([int].[int]) might not have FPD support.

Explanation FPD_INTERNAL_SW_ERR_STD_EXPLANATION

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FPD_MGMT-3-CLOSE_FAILED : Failed to close [chars] file.

Explanation FPD_INTERNAL_SW_ERR_STD_EXPLANATION**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FPD_MGMT-3-UNKNOWN_BNDL_HDR_FORMAT : Unknown header format version: [hex]

Explanation FPD_INTERNAL_SW_ERR_STD_EXPLANATION**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FPD_MGMT-3-INVALID_UPGRADE_RESULT : Invalid upgrade result '[int]' received for the FPD image upgrade of [chars] (FPD ID=[int]) for [chars] card in [chars].

Explanation FPD_INTERNAL_SW_ERR_STD_EXPLANATION**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FPD_MGMT-3-TOO_MANY_FPD_ENTRIES : Too many FPD entries for the FPD Bundle Info Table. Required number of entries = [int], maximum number of entries allowed = [int].

Explanation FPD_INTERNAL_SW_ERR_STD_EXPLANATION**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FPD_MGMT-3-DUPLICATE_UPGRADE_RESULT : Upgrade result already received for the FPD image upgrade of FPD ID [int] for [chars] card in [chars].

Explanation FPD_INTERNAL_SW_ERR_STD_EXPLANATION

%FPD_MGMT-3-DUPLICATE_UPGRADE_RESULT : Upgrade result already received for the FPD image upgrade of FPD ID [int] for [chars] card in [chars].

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%FPD_MGMT-3-UPGRADE_LIST_FULL : Could not add a new entry in the FPD Management Upgrade List. No upgrade will be performed for the [chars] card in [chars].

Explanation	FPD_INTERNAL_SW_ERR_STD_EXPLANATION
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FPD_MGMT-3-SW_ERROR : NULL

Explanation	FPD_INTERNAL_SW_ERR_STD_EXPLANATION
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FPD_MGMT-3-IPC_FAILED : Failed to send IPC message to [chars] in [chars] - [chars]

Explanation	The system failed to send a message via IPC to the indicated card. The cause of the specific IPC failure is indicated in the message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FPD_MGMT-3-PKG_FILE_SEARCH_FAILED : FPD image package ([chars]) cannot be found in system's flash card or disk to do FPD upgrade.

Explanation	By default, if the upgrade fpd path <i>fpd-pkg-url</i> global configuration command is not configured, then the system will try to locate the required FPD image package file from removable flash cards or disks that are accessible by the system for FPD upgrade. This message indicates that the system could not find the package file.
Recommended Action	Make sure that the indicated FPD image package file is copied into a flash card or disk that is accessible by the system, then restart the FPD upgrade by reinsertion of the target card to the system or use of a system command to reload or power-cycle the target card.

%FPD_MGMT-3-CARD_DISABLED : [chars] card in [chars] is being disabled because of an incompatible FPD image version. Note that the [chars] package will be required if you want to perform the upgrade operation.

Explanation	The indicated card contains an incompatible FPD image version, and is being disabled to avoid operational problems with the existing Cisco IOS software. This can happen if the automatic upgrade feature has not been enabled with the upgrade fpd auto global configuration command or if the automatic upgrade operation failed to perform the required upgrade or because it could not find the necessary FPD image package file. The incompatible image will need to be upgraded in order for the system to enable the card.
Recommended Action	The FPD image upgrade can be performed automatically by making sure that the automatic upgrade feature is enabled with the upgrade fpd auto global configuration command and the necessary FPD image package file is located in the system's default filesystem (e.g. disk0:) or in a location indicated by the upgrade fpd path <i>directory-url</i> global configuration command. When the automatic upgrade feature is enabled, then the upgrade is triggered by the reinsertion of the card to the system or the use of a system command to reload or power-cycle the target card. Another way to perform the upgrade is through the use of the upgrade hw-module privileged EXEC command. For more information about these commands, refer to the FPD_DOCUMENT_NAME .

%FPD_MGMT-3-PKG_VER_MISMATCH_NOTE : The FPD image package being used ([chars]) is not the right version for this IOS version (it appears that a '[chars]' package was renamed to '[chars]'). An attempt to find the required FPD image will still be performed with this package.

Explanation	The indicated FPD image package that is being used in FPD automatic upgrade does not contain the correct version information for the IOS version that is running in the system. This condition can occur if a different version of the FPD image package was renamed to match the filename that the IOS image is expecting to use. The upgrade operation will still be performed by trying to find the required FPD image from the renamed package file.
Recommended Action	If the upgrade operation fails because the required FPD image cannot be found with the renamed FPD image package, replace the wrong package file with a valid one and perform the upgrade operation again.

%FPD_MGMT-3-INVALID_IMG_FORMAT : Invalid image format '[chars]' detected for FPD ID=[int].

Explanation	The selected FPD image to upgrade the indicated field programmable device does not have the right image format that can be used by the system to perform the upgrade operation.
Recommended Action	Please check if the FPD image package used in the upgrade is for the correct platform. This can be checked by using the show upgrade fpd package default privileged EXEC command.

%FPD_MGMT-2-CREATE_FAIL : Couldn't create [chars].

Explanation	The system does not have enough free main memory to create the specified resource.
Recommended Action	Make sure that the system main memory size meets the minimum requirement that is specified in the Cisco IOS software release note. If the system meets the minimum requirement for this Cisco IOS software release, make sure that the amount of free main memory in the system also meets the minimum memory required to use this software feature. Use the show memory command to find out this information and add more main memory if it is necessary. If the system meets all the memory requirements, copy the error message exactly as it appears on the console and gather the output of the show tech-support command and contact your technical support representative with this information.

FR

%FR-5-DLCICHANGE : Interface [chars] - DLCI [dec] state changed to [chars]

Explanation	The state of the Frame Relay PVC specified by the DLCI changed.
Recommended Action	Notification message only. No action required.

%FR-3-BQ_ENQ_ERR : fr_oqueue: Invalid datagramstart [hex] [hex], pak dropped

Explanation	A broadcast packet was detected in the Frame Relay output queue that contained an invalid datagram header. The packet has been dropped.
Recommended Action	If the router or some features are not operational due to this condition, attempt to disable the Frame Relay broadcast queue by entering the no frame-relay broadcast-queue command in interface configuration mode for a immediate workaround. And LOG_STD_ACTION

%FR-3-BQ_DEQ_ERR : fr_bq_proc: unknown packet on broadcast queue, packet dropped!

Explanation	Invalid packet on FR broadcast queue, packet dropped!
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%FR-3-BQ_DEQ_ERR : fr_bq_proc: unknown packet on broadcast queue, packet dropped!

Recommended Action If the router or some features are not operational due to this condition, attempt to disable the Frame Relay broadcast queue by entering the **no frame-relay broadcast-queue** command in interface configuration mode for an immediate workaround. And LOG_STD_ACTION

%FR-3-BQ_DEQ_PTR : fr_br_proc: hdr-[hex] size-[dec] dlci-[hex] [hex] [hex]

Explanation The Frame Relay broadcast queue contains a datagram that is invalid. The packet has been dropped.

Recommended Action Inform Cisco technical support representative

%FR-4-DLCIDELETE : Interface [chars] - DLCI [dec] - PVC use count [dec]

Explanation Trying to remove PVC DLCI while it is still being used.

Recommended Action If this error can be easily recreated, enter the **debug frame-relay event** command and recreate the condition that caused this error. Copy all the debug messages text and the system message text exactly as it appears on the console or in the system log, enter the show tech-support command, contact your Cisco technical support representative, and provide the representative with the gathered information.

%FR-3-NOMEMORY : No memory for [chars]

Explanation The requested operation could not be accomplished because of a low memory condition.

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%FR-4-NNISUBINTF : Subinterface not supported on Frame Relay NNI

Explanation Trying to change the state of a subinterface on FR NNI.

Recommended Action Reconfigure the Frame Relay link type or remove the subinterface.

%FR-3-FRTSZEROCIR : FRTS: attempt to configure zero CIR

Explanation It should not be possible to configure a zero CIR. To do so would prevent data transmission on the VC.

Recommended Action Inform Cisco technical support representative

%FR-5-CONVERT_ROUTE : Converting route pair to connect

Explanation A pair of Frame Relay routes are being converted to connections.

Recommended Action No action is required.

%FR-3-NULL_PTR_DEREF : Dereferencing NULL pointer [chars]

Explanation Dereferencing a NULL pointer

Recommended Action Inform Cisco technical support representative

%FR-3-MLPOFR_ERROR : MLPoFR not configured properly on Link [chars] Bundle [chars] :[chars]

Explanation The configuration of MLPoFR on the FR PVC is either incorrect or incomplete.

Recommended Action Ensure that FRTS has been configured on physical interface and that the service policy has been attached to the Virtual Template. To verify the configuration, use the **show running-config serial interface** and **show running-config virtual-template** commands.

%FR-3-SVC_SETUP : [chars]: interface [chars]: DLCI [dec]

Explanation An error occurred while attempting to setup a Frame-Relay SVC. There may have been an attempt to setup a SVC using a DLCI thats already in use

Recommended Action Check if the DLCI is already in use. For example: A PVC may be configured to use the same DLCI (use **show frame-relay pvc** to verify). If so, please remove the configuration

%FR-3-MFR_UNEXPECTEDEVENT : MFR Timer process error: event table is NULL for event [dec], state [dec]

Explanation The event was ignored because the state transition table is NULL. Normal processing continue.

Recommended Action Please refer to Bug Toolkit on CCO to check for existing bugs. If you need further assistance, please provide 'show version' and 'show running' and any configurations that were being done at the time the message was seen. Copy the message text exactly as it appears on the console or in the system log. Inform Cisco technical support representative, and provide the representative with the gathered information.

%FR-3-FR_PVC_STATUS_Q_CREATE_ERROR : FR PVC status event queue error: failed to create queue

Explanation Unable to create FR PVC status event queue**Recommended Action** LOG_STD_ACTION

%FR-3-MAP_DELETE_ERROR : [chars]

Explanation An error occurred while deleting a frame-relay map**Recommended Action** LOG_STD_ACTION

%FR-3-FR_INV_OUTPUT_VECTOR : An invalid output vector detected on interface [chars]

Explanation An invalid internal function vector is installed on a Frame Relay interface, which affects the ability of processing outbound traffic on the device.**Recommended Action** Remove and re-apply Frame Relay encapsulation on the interface to recover from the error.

FRAG

%FRAG-3-FRAG_STATE_MEM_REQ_FAILED :

Explanation IPC failure occurred when attempting to request more fragment state pool memory.**Recommended Action** LOG_STD_ACTION

%FRAG-3-FRAG_STATE_MEM_INIT_FAILED :

Explanation Failure occurred initializing fragment state pool.**Recommended Action** LOG_STD_ACTION

%FRAG-3-FRAG_DESC_MEM_REQ_FAILED :

Explanation IPC Failure occurred when attempting to request more fragment descriptor pool memory.**Recommended Action** LOG_STD_ACTION

%FRAG-3-FRAG_DESC_MEM_INIT_FAILED :

Explanation	Failure occurred initializing fragment descriptor pool.
Recommended Action	LOG_STD_ACTION

%FRAG-3-REASSEMBLY_ERR : Reassembly/VFR encountered an error: [chars]

Explanation	Reassembly/VFR encountered a runtime error as indicated
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FRAG-3-REASSEMBLY_DBG : Reassembly/VFR encountered an error: [chars], [chars] [int], [chars] [int]

Explanation	Reassembly/VFR encountered a runtime error as indicated in the message with parameter data for debug
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FRAG-2-UNENABLED : [chars] feature not enabled at interface [chars], packet cannot be processed, MSGDEF_LIMIT_SLOW

Explanation	Reassembly or fragmentation feature as indicated not enabled by the control plane. This is a critical problem.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FRAG-3-INVALID_MTU : [chars] feature failed at interface [chars] due to invalid L3 MTU [int], MSGDEF_LIMIT_SLOW

Explanation	Fragmentation was not able to be performed due to invalid adj L3 MTU given by the control plane.
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%FRAG-3-INVALID_MTU : [chars] feature failed at interface [chars] due to invalid L3 MTU [int], MSGDEF_LIMIT_SLOW

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%FRAG-3-INVALID_QFP_NO : Invalid qfp device no.: [chars]

Explanation Invalid qfp device no.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

FRAG_DESC_PROXY

%FRAG_DESC_PROXY-3-PROXY_IPC_FRAG_MEM_INIT_FAILED :

Explanation Initialization of fragment descriptor pool failed.

Recommended Action LOG_STD_ACTION

%FRAG_DESC_PROXY-3-PROXY_IPC_VFR_MEM_INIT_FAILED :

Explanation Initialization of vFR state pool failed.

Recommended Action LOG_STD_ACTION

%FRAG_DESC_PROXY-3-PROXY_IPC_FRAG_MEM_EXTEND_FAILED :

Explanation Increasing of fragment descriptor pool failed.

Recommended Action LOG_STD_ACTION

%FRAG_DESC_PROXY-3-PROXY_IPC_VFR_MEM_EXTEND_FAILED :

Explanation Increasing of vFR state pool failed.

%FRAG_DESC_PROXY-3-PROXY_IPC_VFR_MEM_EXTEND_FAILED :

Recommended Action LOG_STD_ACTION

%FRAG_DESC_PROXY-4-PROXY_IPC_INVALID_MSG : [hex]

Explanation Invalid IPC message subtype.
Recommended Action LOG_STD_ACTION

%FRAG_DESC_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Explanation IPC handler initialization failed.
Recommended Action LOG_STD_ACTION

FRR_OCE

%FRR_OCE-3-GENERAL : [chars]

Explanation An internal software error occurred.
Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release.

%FRR_OCE-3-NULLPOINTER : [chars]

Explanation An internal software error occurred.
Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release.

%FRR_OCE-3-INVALIDPAR : Parent OCE [IPV6 address]([chars]) is [chars]

Explanation An internal software error occurred.
Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release.

%FRR_OCE-3-INVALID_ADDRTYPE : addrtype to xdr: [dec] [dec]

Explanation An internal software error occurred.

%FRR_OCE-3-INVALID_ADDRTYPE : addrtype to xdr: [dec] [dec]

Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release.
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%FRR_OCE-3-INVALID_BFD_HNDL : [chars] bfd notification handle is [IPV6 address]

Explanation	An internal software error occurred.
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Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release.
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%FRR_OCE-3-INVALID_BFD_EVT : Error in BFD event retrieval bfd notification handle is [IPV6 address], session handle is [IPV6 address]

Explanation	An internal software error occurred.
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Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release.
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%FRR_OCE-3-INVALID_BFD_SESSION : BFD session db node mismatch: bfd context db node is [IPV6 address], frr db node is [IPV6 address]

Explanation	An internal software error occurred.
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Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release.
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%FRR_OCE-3-ERROR_BFD_SESSION : [chars]BFD returned [dec] node [IPV6 address] handle [IPV6 address] interface [dec]

Explanation	An internal software error occurred.
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Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release.
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%FRR_OCE-4-INVALID_BACKUP_OCE : Invalid backup oce is found because interface [int] is removed or reloading

Explanation	The interface or line card is reloading or removed.
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Recommended Action	Check whether the line card is present and the interface is up.
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%FRR_OCE-4-NULL_PRIMARY_OCE : [chars]

Explanation	The interface or line card is reloading or pulled off.
Recommended Action	Check whether the line card is in online and the interface is up.

%FRR_OCE-5-ISSULOG : FRR is not ISSU compatible, notified by [chars]

Explanation	ISSU negotiation results for FRR not compatible
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

FR_ELMI

%FR_ELMI-3-INCORRECT_ID : Incorrect ID

Explanation	Incorrect ID in QOS parameter message.
Recommended Action	

%FR_ELMI-3-INCORRECT_IE : Incorrect IE

Explanation	Enhanced LMI is not configured on the interface. The frame was dropped.
Recommended Action	

FR_FRAG

%FR_FRAG-3-BADPAK : Inconsistent packet: size [dec], linktype [chars], input [chars], output [chars]

Explanation	A packet being fragmented has inconsistent size and data
Recommended Action	Inform Cisco technical support representative

FR_HA**%FR_HA-3-SYNC : [chars]: code [dec]**

Explanation	An error occurred when syncing Frame Relay state to the Standby Route Processor. This may affect Non-Stop Forwarding capability on Frame Relay interfaces during and after switchover until the state is recovered through normal protocol operation.
Recommended Action	Reset the standby processor to attempt the sync again. LOG_STD_RECUR_ACTION

%FR_HA-3-ISSU : [chars]: [chars]

Explanation	A Frame Relay ISSU error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

FR_LMI through GEN_DB

- [FR_LMI](#)
- [FR_VCB](#)
- [FW](#)
- [FWALL_PROXY](#)
- [GBIC_SECURITY](#)
- [GBIC_SECURITY_CRYPT](#)
- [GBIC_SECURITY_UNIQUE](#)
- [GDOI](#)
- [GENERIC_SUBBLOCK](#)
- [GEN_DB](#)

FR_LMI**%FR_LMI-3-INCORRECT_IE : Enhanced LMI not configured, incorrect IE**

Explanation	An unexpected LMI information element has been received.
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%FR_LMI-3-INCORRECT_IE : Enhanced LMI not configured, incorrect IE

Recommended Action	Verify the configuration for enhanced LMI on the switch matches the configuration on the router.
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%FR_LMI-3-MSG_TOO_BIG : [chars] ([chars]) Status message too big, status of PVCs with dlci values from [dec] will not be reported.

Explanation	LMI STATUS message size is too big to fit into interface MTU.
Recommended Action	LMI type - cisco - does not support segmentation of STATUS message, so either increase the interface MTU or use LMI types - ansi or q933a.

FR_VCB**%FR_VCB-3-PROCESS_SWITCHING : Switching error - vcb [chars] - [chars]**

Explanation	An error occurred while switching packet(s) across vc-bundle
Recommended Action	As a workaround, delete the vc-bundle and employ a PVC to substitute for the vc-bundle

%FR_VCB-3-FIBSW_MISSING_TABLE_ENTRY : FIB switching error - vc-bundle [chars]

Explanation	An error occurred while FIB switching packet(s) across vc-bundle
Recommended Action	As a workaround, delete the vc-bundle and employ a PVC to substitute for the vc-bundle

%FR_VCB-3-CONFIG : Configuration error - vcb [chars] - [chars]

Explanation	An error occurred while interpreting vc-bundle configuration
Recommended Action	Try reconfiguring the vc-bundle

%FR_VCB-3-BUMPING : Bumping error - vcb [chars] - [chars]

Explanation	An error occurred while bumping traffic in a vc-bundle
Recommended Action	As a workaround, reconfigure the vc-bundle to avoid bumping

%FR_VCB-5-UPDOWN : FR VC-Bundle [chars] changed state to [chars]

Explanation	The state of a frame-relay vc-bundle changed to up/down
Recommended Action	Notification message only. No action required

%FR_VCB-3-ADJ_SRC_ERROR : Error sourcing adjacency - vc-bundle [chars] dlci [dec]

Explanation	An error occurred while setting up the adj for a member pvc
Recommended Action	Try reconfiguring the vc-bundle

FW

%FW-4-ALERT_ON : [chars][chars], count ([dec]/[dec]) current 1-min rate: [dec]

Explanation	Either the max-incomplete high threshold of half-open connections or the new connection initiation rate has been exceeded. This error message indicates that an unusually high rate of new connections is coming through the firewall, and a DOS attack may be in progress. This message is issued only when the max-incomplete high threshold is crossed.
Recommended Action	This message is for informational purposed only, but may indicate a security problem.

%FW-4-ALERT_OFF : [chars][chars], count ([dec]/[dec]) current 1-min rate: [dec]

Explanation	Either the number of half-open connections or the new connection initiation rate has gone below the max-incomplete low threshold. This message indicates that the rate of incoming new connections has slowed down and is issued only when the max-incomplete low threshold is crossed.
Recommended Action	This message is for informational purposed only, but may indicate that an attack has stopped.

%FW-4-HOST_TCP_ALERT_ON : [chars]Max tcp half-open connections ([dec]) exceeded for host [IP_address].

Explanation	The max-incomplete host limit of half-open TCP connections has been exceeded. This message indicates that a high number of half-open connections is coming to the protected server, and may indicate that a SYN flood attack is in progress and is targeted to the specified server host.
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%FW-4-HOST_TCP_ALERT_ON : [chars]Max tcp half-open connections ([dec]) exceeded for host [IP_address].

Recommended Action This message is for informational purposes only, but may indicate that a SYN flood attack was attempted. If this alert is issued frequently and identified to be mostly false alarms, then the max-incomplete host threshold value is probably set too low, and there is a lot of legitimate traffic coming in to that server. In this case, the max-incomplete host parameter should be set to a higher number to avoid false alarms.

%FW-2-BLOCK_HOST : [chars]Blocking new TCP connections to host [IP_address] for [dec] minute[chars] (half-open count [dec] exceeded).

Explanation This message indicates that any subsequent new TCP connection attempts to the specified host will be denied because the max-incomplete host threshold of half-open TCP connections is exceeded, and the blocking option is configured to block the subsequent new connections. The blocking will be removed when the configured block-time expires.

Recommended Action This message is for informational purposes only, but may indicate that a SYN flood attack was attempted.

%FW-4-UNBLOCK_HOST : [chars]New TCP connections to host [IP_address] no longer blocked

Explanation New TCP connection attempts to the specified host are no longer blocked. This message indicates that the blocking of new TCP attempts to the specified host has been lifted.

Recommended Action This message is for informational purposed only, but may indicate a SYN flood attack was attempted to the host.

%FW-3-NOTFOUND : [chars]Session context for ([IP_address]:[dec]) => ([IP_address]:[dec]) not found.

Explanation The CBAC code was searching its database for information for a particular inspection session, but this information was not found.

Recommended Action If this message recurs, copy it down exactly as it appears and contact your technical support representative for assistance.

%FW-6-SESS_AUDIT_TRAIL_START : [chars]Start [chars] session: initiator ([IP_address]:[dec]) -- responder ([IP_address]:[dec])

Explanation This message documents the opening of an inspection session. The message is issued at the start of each inspected session and it records the source/destination addresses and ports.

Recommended Action This message is for informational purposed only, and can be used to collect the basic accounting for inspected sessions.

%FW-6-SESS_AUDIT_TRAIL : [chars]Stop [chars] session: initiator ([IP_address]:[dec]) sent [int] bytes -- responder ([IP_address]:[dec]) sent [int] bytes

Explanation This message documents the per-session transaction log of network activities. The message is issued at the end of each inspected session and it records the source/destination addresses and ports, as well as the number of bytes transmitted by the client and server.

Recommended Action This message is for informational purposes only, and can be used to collect the basic accounting for the inspected sessions.

%FW-3-FTP_SESSION_NOT_AUTHENTICATED : [chars]Command issued before the session is authenticated -- FTP client [IP_address] FTP server [IP_address]

Explanation An FTP client attempted to use the PORT command or an FTP server attempted to use the response to a PASV command to open a data channel in the firewall prior to the client's successful authentication with the server. This is a suspicious attempt by the client/server to trick the firewall into opening a hole so that outside attackers can take advantage of the firewall opening. This message indicates that a suspicious violation was detected, and the PORT or PASV command/response is rejected by the firewall. The data channel in the firewall will not be opened until the authentication is done successfully.

Recommended Action This message is for informational purposes only, but may indicate that an illegal attempt was made to modify the firewall security policy.

%FW-3-FTP_PRIV_PORT : [chars]Privileged port [dec] used in [chars] -- FTP client [IP_address] FTP server [IP_address]

Explanation An FTP client attempted to use a PORT command or the FTP server attempted to use the response to a PASV command to trick the firewall into opening access to a privileged port. This message indicates that a suspicious violation was detected from the FTP client/server attempting to modify the security policy in the firewall. The command is rejected and the connection is reset by the firewall.

Recommended Action This message is for informational purposes only, but may indicate that an attempt was made to gain access to privileged ports.

%FW-3-FTP_NON_MATCHING_IP_ADDR : [chars]Non-matching address [IP_address] used in [chars] -- FTP client [IP_address] FTP server [IP_address]

Explanation An FTP client attempted to use a PORT command or the FTP server attempted to use the response to a PASV command to trick the firewall into opening access to a third-party host that is different from the two hosts engaged in the FTP connection. This message indicates that a suspicious violation was detected while attempting to modify the security policy in the firewall. The command is rejected and the connection is reset by the firewall.

%FW-3-FTP_NON_MATCHING_IP_ADDR : [chars]Non-matching address [IP_address] used in [chars] -- FTP client [IP_address] FTP server [IP_address]

Recommended Action This message is for informational purposes only, but may indicate that an attempt was made to grant or open access to unauthorized hosts.

%FW-3-SMTP_INVALID_COMMAND : [chars]Invalid SMTP command ([chars])(total [dec] chars) from initiator ([IP_address]:[dec])

Explanation The CBAC code detected an invalid SMTP command in the inspected SMTP connection. This message indicates that a suspicious violation was detected that may be an attack to the mail server system. The command is rejected and the connection is reset by the firewall immediately.

Recommended Action This message is for informational purposes only, but may indicate a security problem.

%FW-3-SMTP_UNSUPPORTED_PARAMETER : [chars]Unsupported SMTP parameter ([chars]) from initiator ([IP_address]:[dec])

Explanation The CBAC code detected an invalid/unsupported parameter in an SMTP command. The parameter "data size" means that the initiator is trying to send a huge data which is more than the default or configured firewall threshold (max-data). The parameter "@ or # to ETRN" means that the initiator is trying to send an invalid ETRN command.

Recommended Action This message is for informational purposes only, but may indicate a security problem.

%FW-3-HTTP_JAVA_BLOCK : [chars]JAVA applet is blocked from ([IP_address]:[dec]) to ([IP_address]:[dec]).

Explanation A Java applet was seen in the HTTP channel, and the firewall configuration indicates that the applet from this Web site should be prohibited. The message indicates that the applet is being downloaded from one of the prohibited sites and its entrance to the protected network is not allowed. The connection is reset and the transmission of the detected applet is aborted immediately.

Recommended Action This message is for informational purposes only, but may indicate a security problem.

%FW-4-TCP_SENDMAIL_BAD_TO_SIG : [chars]Sendmail Invalid Recipient - from [IP_address] to [IP_address]

Explanation Triggers on any mail message with a 'pipe' (|) symbol in the recipient field.

Recommended Action For security reasons users should not be allowed to execute programs via e-mail servers. This is a very serious indication that your network may be under attack and the source should be shunned immediately.

%FW-4-TCP_SENDMAIL_BAD_FROM_SIG : [chars]Sendmail Invalid Sender - from [IP_address] to [IP_address]

Explanation	Triggers on any mail message with a "pipe" () symbol in the "From:" field.
Recommended Action	For security reasons users should not be allowed to execute programs via e-mail servers. This is a very serious indication that your network may be under attack and the source should be shunned immediately.

%FW-4-TCP_SENDMAIL_OLD_SIG : [chars]Archaic Sendmail Attacks - from [IP_address] to [IP_address]

Explanation	Triggers when "wiz" or "debug" commands are sent to the SMTP port.
Recommended Action	For security reasons users should not be allowed to execute programs via e-mail servers. This is a very serious indication that your network may be under attack and the source should be shunned immediately.

%FW-4-TCP_SENDMAIL_DECODE : [chars]Sendmail Decode Alias - from [IP_address] to [IP_address]

Explanation	Triggers on any mail message with ": decode@" in the header. The decode alias is used to udecode files and is primarily implemented as a convenience for system administration.
Recommended Action	For security reasons users should not be allowed to execute programs via e-mail servers. This is a very serious indication that your network may be under attack and the source should be shunned immediately.

%FW-4-TCP_MAJORDOMO_EXEC_BUG : [chars]Majordomo Execute Attack - from [IP_address] to [IP_address]

Explanation	A bug in the Majordomo program will allow remote users to execute arbitrary commands at the privilege level of the server.
Recommended Action	For security reasons users should not be allowed to execute programs via e-mail servers. This is a very serious indication that your network may be under attack and the source should be shunned immediately.

%FW-4-TCP_SENDMAIL_INVALID_COMMAND : [chars]Invalid SMTP command - [IP_address] to [IP_address]

Explanation	Triggers on an invalid SMTP command in the SMTP connection. This message indicates that a suspicious violation was detected that may be an attack to the mail server system.
Recommended Action	This is unusual traffic and may warrant investigation.

%FW-6-PRE_ALLOCATED_MEDIA_CHANNEL : [chars]Pre-Allocated [chars] channel from [IP_address][[dec]:[dec]] to [IP_address][[dec]:[dec]]

Explanation	CBAC inspection has pre-allocated data-structures and created ACEs to allow the data/media traffic to flow through the Firewall.
Recommended Action	This message is for informational purposes only. It may be used to verify whether data/media sessions are being created.

%FW-4-SKINNY_INSPECTION_DISABLED : Skinny Inspection Disabled; Error = [chars]

Explanation	Skinny inspection is disabled due to internal errors and hence firewall will not inspect any Skinny protocol traffic. This will be caused when firewall does not have enough memory to allocate initial skinny data-structures.
Recommended Action	Verify the memory usage to see if any process has used large amounts of memory and see if any corrective action can be taken for it. Otherwise, upgrade the memory. In any case, the firewall/router needs to be restarted to enable Skinny inspection.

%FW-6-INIT : Firewall inspection startup completed; beginning operation.

Explanation	Firewall inspection is configured on at least one interface in the startup config.
Recommended Action	This message is for informational purposes only. It may be used to verify whether firewall inspection is on at startup.

%FW-6-DROP_PKT : Dropping [chars] pkt [IP_address]:[int] => [IP_address]:[int]

Explanation	Packet dropped by firewall inspection.
Recommended Action	This message is for informational purposes only. It may be used to verify that packets were dropped by the firewall.

%FW-5-POP3_INVALID_COMMAND : [chars]Invalid POP3 command from initiator ([IP_address]:[dec]): [chars]

Explanation	The CBAC code detected an invalid POP3 command in the inspected POP3 connection. This message indicates that a suspicious violation was detected that may be an attack to the mail server system. The command is rejected and the connection is reset by the firewall immediately.
Recommended Action	This message is for informational purposes only, but may indicate a security problem.

%FW-5-POP3_NON_SECURE_LOGIN : [chars]LOGON POP3 command from initiator ([IP_address]:[dec]): [chars]

Explanation The CBAC code detected a cleartext logon attempt in the inspected POP3 connection while secure-login is configured. The command is rejected and the connection is reset by the firewall immediately.

Recommended Action This message is for informational purposes only, but may indicate a security problem.

%FW-5-IMAP_INVALID_COMMAND : [chars]Invalid IMAP command from initiator ([IP_address]:[dec]): [chars]

Explanation The CBAC code detected an invalid IMAP command in the inspected IMAP connection. This message indicates that a suspicious violation was detected that may be an attack to the mail server system. The command is rejected and the connection is reset by the firewall immediately.

Recommended Action This message is for informational purposes only, but may indicate a security problem.

%FW-5-IMAP_NON_SECURE_LOGIN : [chars]LOGON IMAP command from initiator ([IP_address]:[dec]): [chars]

Explanation The CBAC code detected a cleartext logon attempt in the inspected IMAP connection while secure-login is configured. The command is rejected and the connection is reset by the firewall immediately.

Recommended Action This message is for informational purposes only, but may indicate a security problem.

%FW-4-SESSION_THRESHOLD_EXCEEDED : [chars]Number of sessions for the firewall rule '[chars]' applied on interface '[chars]' exceeds the configured threshold [dec]

Explanation This message indicates that the number of established CBAC sessions have crossed the configured threshold.

Recommended Action This message is for informational purpose only, but may indicate a security problem. This might also mean that the session threshold is set to a low value, in which case the threshold value could be increased through CLI command

%FW-5-EMAIL_DROP_FRAGMENT : [chars]Dropping [chars] command fragment from initiator ([IP_address]:[dec])

Explanation The CBAC code detected a pipelined POP3/IMAP command fragment, in the inspected POP3 connection. This message indicates that a suspicious violation was detected that may be an attack to the mail server system. The fragment is dropped by the firewall immediately.

%FW-5-EMAIL_DROP_FRAGMENT : [chars] Dropping [chars] command fragment from initiator ([IP_address]:[dec])

Recommended Action This message is for informational purposes only, but may indicate a security problem.

%FW-3-INTERNAL_ERROR : IP Firewall internal failure -- [chars]

Explanation This message indicates the misc errors in the IP FW subsystem

Recommended Action This message indicates the misc errors in the IP FW subsystem

%FW-3-TIMER_WHEEL_INIT_FAILED : Timer Wheel initialization failed

Explanation This message indicates that Timer Wheel initialization is failed in the FW subsystem

Recommended Action This message indicates a series problem with IOS Firewall. On seeing this error message, copy the message exactly as it appears, and report it to your technical support representative.

%FW-3-RESPONDER_WND_SCALE_INI_NO_SCALE : Dropping packet - Invalid Window Scale option for session [IP_address]:[dec] to [IP_address]:[dec] (Initiator scale [int] Responder scale [int])

Explanation Firewall detected the packet from Responder to Initiator has windows scaling option but did not have the scaling option in the SYN packet from Initiator to responder. This is an error according to RFC 1323

Recommended Action Turn on window scaling option on both Initiator and Responder, or Turn off window scaling on the Responder

FWALL_PROXY

%FWALL_PROXY-3-PROXY_SCB_MEM_INIT_FAILED :

Explanation Initialization of session control block pool failed.

Recommended Action LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_ICMP_ERROR_MEM_INIT_FAILED :

Explanation Initialization of ICMP Error control block pool failed.

Recommended Action LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_SCB_MEM_EXTEND_FAILED :

Explanation Increasing of session control block pool failed.**Recommended Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_ICMP_ERROR_MEM_EXTEND_FAILED :

Explanation Increasing of ICMP Error pool failed.**Recommended Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HA_MEM_INIT_FAILED :

Explanation Initialization of ha retry pool failed.**Recommended Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HA_MEM_EXTEND_FAILED :

Explanation Increasing of ha retry pool failed.**Recommended Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HOSTDB_MEM_INIT_FAILED :

Explanation Initialization of host database pool failed.**Recommended Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HOSTDB_MEM_EXTEND_FAILED :

Explanation Increasing of host database pool failed.**Recommended Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_TEARDOWN_MEM_INIT_FAILED :

Explanation	Initialization of teardown pool failed.
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_TEARDOWN_MEM_EXTEND_FAILED :

Explanation	Increasing of teardown pool failed.
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_FWALL_INIT_FAILED : [dec]

Explanation	Firewall initialization failed.
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_SEND_INIT_FAILED : [chars] [dec]

Explanation	IPC failed to reply for firewall initialization status.
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_FAILED : [chars] [dec]

Explanation	IPC message allocation for firewall failed.
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_TBL_INIT_FAILED : [chars]

Explanation	Failed to initialize table.
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_SEND_STATS_FAILED : [dec]

Explanation	IPC send failed to reply for firewall status.
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%FWALL_PROXY-3-PROXY_IPC_SEND_STATS_FAILED : [dec]

Recommended Action LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_SEND_SESSION_FAILED : [dec]

Explanation IPC send failed to reply for firewall session query.
Recommended Action LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_SEND_CLEAR_FAILED : [dec]

Explanation IPC send failed to reply for firewall session clear.
Recommended Action LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_SEND_DEBUG_FAILED : [dec]

Explanation IPC send failed to reply for firewall session debug.
Recommended Action LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_SEND_SCB_QUERY_FAILED : [dec]

Explanation IPC send failed to reply for firewall scb query.
Recommended Action LOG_STD_ACTION

%FWALL_PROXY-4-PROXY_IPC_INVALID_MSG : [hex]

Explanation Invalid IPC message subtype.
Recommended Action LOG_STD_ACTION

%FWALL_PROXY-4-PROXY_IPC_INVALID_MSG_LEN : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Invalid IPC message length.
Recommended Action LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Explanation IPC handler initialization failed.**Recommended
Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_ALLOC_FAILED : [int]

Explanation IPC allocation failed.**Recommended
Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_SEND_FAILED : [int]:[chars]

Explanation IPC send failed.**Recommended
Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HSL_CREATE_FAILED :

Explanation HSL creation failed.**Recommended
Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HSL_ADD_DEST_FAILED :

Explanation HSL add destination failed.**Recommended
Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HSL_BIND_FAILED :

Explanation HSL bind failed.**Recommended
Action** LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HSL_ENABLE_FAILED :

Explanation	HSL enable failed.
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HSL_BIND_TEMPLATE_FAILED : [dec]

Explanation	HSL bind tempalte failed at given index.
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-4-PROXY_HSL_ALREADY_INIT :

Explanation	HSL logger already initialized
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-4-PROXY_HSL_NOT_INIT : [int]

Explanation	HSL logger not initialized
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HSL_MODIFY_FAILED :

Explanation	HSL modification failed.
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_HSL_MODIFY_DEST_FAILED :

Explanation	HSL modify destination failed.
Recommended Action	LOG_STD_ACTION

%FWALL_PROXY-4-PROXY_IPC_UNINIT_POOL_FAILED : [chars]: [dec]

Explanation	Could not destroy chunk pool
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%FWALL_PROXY-4-PROXY_IPC_UNINIT_POOL_FAILED : [chars]: [dec]

Recommended Action LOG_STD_ACTION

%FWALL_PROXY-4-PROXY_UNINIT_SESSIONS : in use [int] [int]

Explanation Not all sessions freed

Recommended Action LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_IPC_ERM_CONF_CHANGE_FAILED : [dec]

Explanation FW IPC send failed to reply for event rate monitoring configuration change.

Recommended Action LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_DEBUG_REG_FAILED : [dec]

Explanation FW Conditional Debugging registration failed.

Recommended Action LOG_STD_ACTION

%FWALL_PROXY-3-PROXY_FWALL_VFR_REG_FAILED : [chars] err: [dec]

Explanation FW VFR registration failed.

Recommended Action LOG_STD_ACTION

GBIC_SECURITY

%GBIC_SECURITY-4-GBIC_INTERR : Internal error occurred in setup for GBIC interface [chars]

Explanation The system could not allocate resources, or had some other problem, in the setup for the specified GBIC interface.

Recommended Action Reload the system. If the problem persists, contact TAC.

%GBIC_SECURITY-4-EEPROM_READ_ERR : Error in reading GBIC serial ID in [chars]

Explanation Error when reading GBIC type from EEPROM

Recommended Action Please remove GBIC from this Port

%GBIC_SECURITY-4-EEPROM_CRC_ERR : EEPROM checksum error for GBIC in [chars]

Explanation The GBIC in the port specified in the error message has invalid EEPROM data.

Recommended Action Remove the GBIC from the specified port.

%GBIC_SECURITY-4-EEPROM_SECURITY_ERR : GBIC in [chars] failed security check

Explanation The GBIC in the port specified in the error message has invalid EEPROM data.

Recommended Action Remove the GBIC from the specified port.

GBIC_SECURITY_CRYPT

%GBIC_SECURITY_CRYPT-4-UNRECOGNIZED_VENDOR : GBIC in port [dec] manufactured by an unrecognized vendor

Explanation The GBIC was identified as a Cisco GBIC, but the system was unable to match its manufacturer with one on the known list of Cisco GBIC vendors

Recommended Action Check to see if the Cisco IOS software running on the system supports the GBIC. If the GBIC is newer, a system software upgrade might be required.

%GBIC_SECURITY_CRYPT-4-VN_DATA_CRC_ERROR : GBIC in port [dec] has bad crc

Explanation The GBIC was identified as a Cisco GBIC, but it does not have valid CRC in the EEPROM data.

Recommended Action Check to see if the Cisco IOS software running on the system supports the GBIC. If the GBIC is newer, a system software upgrade might be required. Even if the GBIC is unrecognized by the system, the GBIC may still operate properly, but might have limited functionality.

%GBIC_SECURITY_CRYPT-4-ID_MISMATCH : Identification check failed for GBIC in port [dec]

Explanation The GBIC was identified as a Cisco GBIC, but the system was unable to verify its identity

%GBIC_SECURITY_CRYPT-4-ID_MISMATCH : Identification check failed for GBIC in port [dec]

Recommended Action	Check to see if the Cisco IOS software running on the system supports the GBIC. If the GBIC is newer, a system software upgrade might be required. Otherwise, verify that the GBIC was obtained from Cisco or from a supported vendor.
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GBIC_SECURITY_UNIQUE

%GBIC_SECURITY_UNIQUE-4-DUPLICATE_SN : GBIC interface [dec]/[dec] has the same serial number as another GBIC interface

Explanation	The GBIC was identified as a Cisco GBIC, but its serial number matches that of another interface on the system.
Recommended Action	Cisco GBICs are assigned unique serial numbers. Verify that the GBIC was obtained from Cisco or a supported vendor

%GBIC_SECURITY_UNIQUE-3-DUPLICATE_GBIC : GBIC interface [dec]/[dec] is a duplicate of GBIC interface [dec]/[dec]

Explanation	The GBIC was identified as a Cisco GBIC, but its vendor ID and serial number match that of another interface on the system.
Recommended Action	Cisco GBICs are assigned unique serial numbers. Verify that the GBIC was obtained from Cisco or a supported vendor

GDOI

%GDOI-1-GDOI_ACL_NUM : The ACL has too many entries. GDOI will honor only the first 100 ACL entries specified.

Explanation	The ACL has too many entries. GDOI will honor only the first 100 ACL entries specified.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-3-GDOI_ACL_RANGE : The ACL [chars] contains port range which is NOT supported. WARNING: No TEK policy will be created.

Explanation	GDOI does not support port range in the ACL policy.
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%GDOI-3-GDOI_ACL_RANGE : The ACL [chars] contains port range which is NOT supported. WARNING: No TEK policy will be created.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%GDOI-1-GDOI_ACE_DENY : A Group Member ACL policy containing deny was attempted. This is not supported.

Explanation	A Group Member ACL policy containing deny was attempted. This is not supported.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-1-UNREGISTERED_INTERFACE : Group [chars] received registration from unregistered interface.

Explanation	Receiving registration from unregistered interface. Stop processing it.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-1-UNAUTHORIZED_IDENTITY : Group [chars] received registration from unauthorized identity: [chars]

Explanation	The registration request was dropped because the requesting device was not authorized to join the group.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-1-UNAUTHORIZED_IPADDR : Group [chars] received registration from unauthorized ip address: [chars]

Explanation	The registration request was dropped because the requesting device was not authorized to join the group.
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%GDOI-1-UNAUTHORIZED_IPADDR : Group [chars] received registration from unauthorized ip address: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%GDOI-4-GM_RE_REGISTER : The IPSec SA created for group [chars] may have expired/been cleared, or didn't go through. Re-register to KS.

Explanation	The IPSec SA created for one group may have expired/been cleared, or didn't go through, need to re-register to KS.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_REGS_COMPL : Registration to KS [chars] complete for group [chars] using address [chars] fvrf [chars] ivrf [chars]

Explanation	Complete registration
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_FAILED_TO_INSTALL_POLICIES : FAILED: Installation of Reg/Rekey policies from KS [chars] for group [chars] & gm identity [chars]

Explanation	Failed Policy installation
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_INSTALL_POLICIES_SUCCESS : SUCCESS: Installation of Reg/Rekey policies from KS [chars] for group [chars] & gm identity [chars] fvrf [chars] ivrf [chars]

Explanation	Policy Installation Success
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%GDOI-5-GM_INSTALL_POLICIES_SUCCESS : SUCCESS: Installation of Reg/Rekey policies from KS [chars] for group [chars] & gm identity [chars] fvrf [chars] ivrf [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_RECV_REKEY : Received Rekey for group [chars] from [chars] to [chars] with seq # [dec], spi [hex][hex]

Explanation Received Rekey

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-KS_SEND_MCAST_REKEY : Sending Multicast Rekey [chars]for group [chars] from address [chars] to [chars] with seq # [dec] spi: [hex][hex]

Explanation Sending Multicast Rekey

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-KS_SEND_UNICAST_REKEY : Sending Unicast Rekey [chars]for group [chars] from address [chars] with seq # [dec] spi: [hex][hex]

Explanation Sending Unicast Rekey

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-3-KS_BAD_ID : Registration: [chars] config mismatch between KS and the GM [IP_address], in the group [chars].

Explanation During GDOI registration protocol, a configuration mismatch between local key server and group member.

%GDOI-3-KS_BAD_ID : Registration: [chars] config mismatch between KS and the GM [IP_address], in the group [chars].

Recommended Action Contact the Group member's administrator.

%GDOI-3-GDOI_REKEY_FAILURE : Processing of REKEY payloads failed on GM [chars] in the group [chars], with peer at [chars]

Explanation During GDOI rekey the payload parsing failed on this GM from the Key Server.

Recommended Action Contact the Group member's administrator.

%GDOI-3-GDOI_REKEY_SEQ_FAILURE : Failed to process rekey seq # [int] in seq payload for group [chars], last seq # [int]

Explanation During GDOI rekey the seq payload parsing failed on this GM from the Key Server.

Recommended Action Contact the Group member's administrator.

%GDOI-4-KS_GM_REJECTS_SA_PAYLOAD : Registration: GM [IP_address] rejected a policy in the SA proposal sent by KS, in the group [chars].

Explanation During GDOI registration protocol, a proposal sent by the key server was refused by the group member.

Recommended Action Contact the Group member's administrator.

%GDOI-4-GM_REJECTING_SA_PAYLOAD : Registration: Policy in SA payload sent by KS [IP_address] rejected by GM in the group [chars] reason [chars].

Explanation During GDOI registration protocol, a proposal sent by the key server was refused by the local group member.

Recommended Action Contact the Key server's administrator.

%GDOI-4-KS_HASH_FAIL : Registration: Bad(No) Hash in Message sent by the GM [IP_address] to KS in the group [chars].

Explanation During GDOI registration protocol, a message sent by the Group member has bad or no hash .

%GDOI-4-KS_HASH_FAIL : Registration: Bad(No) Hash in Message sent by the GM [IP_address] to KS in the group [chars].

Recommended Action Contact the Group member's administrator.

%GDOI-4-GM_HASH_FAIL : Registration: Bad(No) hash in message sent by the KS [IP_address] to GM in the group [chars].

Explanation During GDOI registration protocol, a message sent by the Key server has bad or no hash .

Recommended Action Contact the Key Server's administrator.

%GDOI-3-KS_UNAUTHORIZED : Registration: Unauthorized [IP_address] tried to join the group [chars].

Explanation During GDOI registration protocol, an unauthorized member tried to join a group
Some might consider this a hostile event.

Recommended Action Contact the Key Server's administrator.

%GDOI-3-KS_GM_REVOKED : Re-Key: GM [IP_address] revoked by KS in the group [chars].

Explanation During Re-key protocol, an unauthorized member tried to join a group. Some might consider this a hostile event.

Recommended Action Contact the Key Server's administrator.

%GDOI-5-KS_GROUP_ADD : Config: KS [IP_address] added to the Group [chars].

Explanation A Config command has been executed to add a Key Server in a group

Recommended Action Informational message.

%GDOI-5-KS_GROUP_DELETE : Config: KS [IP_address] removed from the Group [chars].

Explanation A Config command has been executed to remove a Key Server from a group

Recommended Action Informational message.

%GDOI-6-KS_FIRST_GM : Re-key: First GM [IP_address] seen by KS in the group [chars].

Explanation	Local key server has received the first group member joining the group
Recommended Action	Informational message.

%GDOI-6-KS_LAST_GM : Re-key: Last GM [IP_address] left the group [chars].

Explanation	Last group member has left the group on the local key server
Recommended Action	Informational message.

%GDOI-5-GM_CM_ATTACH : Crypto map attached for GM in group [chars].

Explanation	A crypto map has been attached for the local group member.
Recommended Action	Informational message.

%GDOI-5-GM_CM_DETACH : Crypto map detached for GM in group [chars].

Explanation	A crypto map has been detached for the local group member.
Recommended Action	Informational message.

%GDOI-5-GM_UNREGISTER : GM left the group [chars].

Explanation	A Group member has left the group.
Recommended Action	Informational message.

%GDOI-4-GM_RECV_POLICY_REPLACE_NOW : GM received policy replace now rekey from KS in group [chars].

Explanation	A messages sent by the KS to immediately replace SAs policies on the GM has been received.
Recommended Action	Informational message.

%GDOI-4-GM_RECV_DELETE_IMMEDIATE : GM receive REMOVAL-NOW in group [chars] to cleanup downloaded policy now. Re-registration will start in a randomly chosen period of [dec] sec

Explanation A messages sent by the KS to delete the GM has been received.

Recommended Action Informational message.

%GDOI-4-GM_RECV_RE_AUTH : GM received Re-auth-msg from KS in group [chars]. re-registration will start before SA expiry

Explanation A message sent by the KS to have a GM re-auth has been received.

Recommended Action Informational message.

%GDOI-4-GM_RECV_DELETE : GM received delete-msg from KS in group [chars]. TEKs lifetime are reduced and re-registration will start before SA expiry

Explanation A messages sent by the KS to delete the GM has been received.

Recommended Action Informational message.

%GDOI-5-GM_CLEAR_REGISTER : Config: GM cleared gdoi configuration for the group [chars].

Explanation clear crypto gdoi command has been executed by the local GM

Recommended Action Informational message.

%GDOI-5-KS_CLEAR_REGISTER : Config: KS cleared gdoi configuration for the group [chars].

Explanation clear crypto gdoi command has been executed by the local KS

Recommended Action Informational message.

%GDOI-3-COOP_KS_UNREACH : Cooperative KS [chars] Unreachable in group [chars]. IKE SA Status = [chars]

Explanation The reachability between the configugred cooperative key servers is lost. Some might consider this a hostile event.

Recommended Action Contach the Administrator(s) of the configured key servers.

%GDOI-5-COOP_KS_REACH : Reachability restored with Cooperative KS [chars] in group [chars].

Explanation The reachability between the configured cooperative key servers is restored.**Recommended Action** Informational message

%GDOI-5-COOP_KS_ADD : [chars] added as COOP Key Server in group [chars].

Explanation A key server has been added to the list of cooperative key servers in a group**Recommended Action** Informational message

%GDOI-5-COOP_KS_REMOVE : [chars] removed as COOP Key Server in group [chars].

Explanation A key server has been removed from the list of cooperative key servers in a group**Recommended Action** Informational message

%GDOI-4-COOP_KS_UNAUTH : Contact from unauthorized KS [chars] in group [chars] at local address [chars] (Possible MISCONFIG of peer/local address)

Explanation An authorized remote server tried to contact the local KS may be at different key server address in a group. Some might consider this a hostile event.**Recommended Action** Informational message

%GDOI-5-COOP_KS_ELECTION : KS entering election mode in group [chars] (Previous Primary = [chars])

Explanation The local Key server has entered the election process in a group**Recommended Action** Informational message

%GDOI-5-COOP_KS_TRANS_TO_PRI : KS [chars] in group [chars] transitioned to Primary (Previous Primary = [chars])

Explanation The local Key server transitioned to a primary role from being a secondary server in a group**Recommended Action** Informational message

%GDOI-5-COOP_KS_ADMN_USRP_PRI : Primary role Usurped by KS [chars] in group [chars].

Explanation A network administrator has made the local KS as primary, by means of a CLI command. Currently Unimplemented.

Recommended Action Informational message

%GDOI-5-GM_REKEY_TRANS_2_MULTI : Group [chars] transitioned to multicast rekey.

Explanation GM has transitioned from using unicast rekey mechanism to multicast mechanism

Recommended Action Informational message

%GDOI-5-KS_REKEY_TRANS_2_MULTI : Group [chars] transitioned to multicast rekey.

Explanation Group has transitioned from using unicast rekey mechanism to multicast mechanism

Recommended Action Informational message

%GDOI-5-GM_REKEY_TRANS_2_UNI : Group [chars] transitioned to Unicast Rekey.

Explanation GM has transitioned from using multicast rekey mechanism to unicast mechanism

Recommended Action Informational message

%GDOI-5-KS_REKEY_SYNCUP_2_REPLACE : Group [chars] transitioned to primary but no policy generated yet, continuing with POLICY REPLACE rekey

Explanation KS Group has transitioned to new Primary but no policy generated yet, to recover from this situation, continuing with POLICY REPLACE rekey

Recommended Action Informational message

%GDOI-5-KS_REKEY_TRANS_2_UNI : Group [chars] transitioned to Unicast Rekey.

Explanation Group has transitioned from using multicast rekey mechanism to unicast mechanism

Recommended Action Informational message

%GDOI-4-GM_REKEY_NOT_REC'D : GM did not receive rekey from KS [IP_address] in group [chars].

Explanation GM has not received a rekey message from a key server in a group Currently Unimplemented.

Recommended Action Informational message

%GDOI-5-KS_NACK_GM_EJECT : KS ejected GM [IP_address] in group [chars].

Explanation Key server has reached a condition of not receiving an ACK from GM and has been ejected

Recommended Action Informational message

%GDOI-3-KS_BLACKHOLE_ACK : KS blackholing GM [IP_address] in group [chars].

Explanation Key server has reached a condition of blackholing messages from GM Some might consider this a hostile event.

Recommended Action

%GDOI-4-KS_UN SOL_ACK : KS received unsolicited ACK from GM [IP_address] in group [chars].

Explanation Key server has received an unsolicited ACK from a past GM or is under a DOS attack. Some might consider this a hostile event.

Recommended Action

%GDOI-5-KS_REGS_COMPL : KS completed successful registration in group [chars] with GM [IP_address].

Explanation Key server has successfully completed a registration in a group

Recommended Action

%GDOI-5-GM_ENABLE_GDOI_CM : GM has enabled ACL on GDOI crypto map in group [chars].

Explanation Group member has enabled ACL on a GDOI Crypto map in a group with a key server

Recommended Action

%GDOI-5-GM_ACL_MERGE : ACL between KS and GM in group [chars] merged.

Explanation The ACL differences between GM and KS are resolved and a merge took place

**Recommended
Action**

%GDOI-5-GM_SA_INGRESS : Receive only ACL received from KS [IP_address] in group [chars].

Explanation Received only acl has been received by GM from a KS in a group

**Recommended
Action**

%GDOI-5-KS_CONV_SAS_DUPLEX : IPsec SAs converted to Duplex in group [chars].

Explanation IPsec SAs have been converted to bidirectional mode in a group

**Recommended
Action**

%GDOI-5-KS_CONV_SAS_INGRESS : IPsec SAs converted to Ingress in group [chars].

Explanation IPsec SAs have been converted to receive only mode in a group

**Recommended
Action**

%GDOI-5-GM_CONV_SA_DUPLEX : IPsec SAs converted to Duplex in group [chars] on the GM.

Explanation IPsec SAs have been converted to bidirectional mode in a group on a GM

**Recommended
Action**

%GDOI-5-GM_CONV_SA_DUPLEX_LOCAL : IPsec SAs converted to Duplex in group [chars] on a GM by a local event.

Explanation IPsec SAs have been converted to bidirectional mode in a group on a GM by a CLI command

**Recommended
Action**

%GDOI-5-LKH_ENABLE : LKH enabled in group [chars].

Explanation LKH has been enabled in a group

**Recommended
Action**

%GDOI-5-LKH_DISABLE : LKH disabled in group [chars].

Explanation LKH has been disabled in a group

**Recommended
Action**

%GDOI-4-LKH_GM_DELETE : GM [IP_address] deleted from LKH in group [chars].

Explanation A Group member has been deleted in a group from LKH

**Recommended
Action**

%GDOI-4-TIMEBASED_REPLAY_FAILED : An anti replay check has failed in group [chars]: my_pseudotime = [chars], peer_pseudotime = [chars], replay_window = [dec] (sec), src_ip = [IP_address], dst_ip = [IP_address]

Explanation A Group member or Key server has failed an anti replay check.

**Recommended
Action**

%GDOI-3-PIP_PSEUDO_TIME_ERROR : An Anti-Replay check has failed for PIP in group [chars]: my_pseudotime = [chars], peer_pseudotime = [chars], replay_window = %lld (sec), src_addr = [chars], dst_addr = [chars]

Explanation A Group member has failed PIP anti replay check.

**Recommended
Action**

%GDOI-3-P2P_KGS_INFRA_ERROR : PIP session with [chars] failed because of KGS Infra failure. Reason = [chars]

Explanation A Group Member has encountered a KGS Infra failure.

%GDOI-3-P2P_KGS_INFRA_ERROR : PIP session with [chars] failed because of KGS Infra failure. Reason = [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-4-TIMEBASED_REPLAY_FAILED_IPV6 : An anti replay check has failed in group [chars]: my_pseudotime = [chars], peer_pseudotime = [chars], replay_window = [dec] (sec), src_ip = [IPv6 address], dst_ip = [IPv6 address]

Explanation A Group member or Key server has failed an anti replay check.

Recommended Action

%GDOI-3-GM_FAILED_TO_INITIALISE : GDOI GM Process has failed to initialise

Explanation GDOI Group Member process has failed to initialise on this Network Element

Recommended Action

%GDOI-3-PSEUDO_TIME_LARGE : Pseudotime difference between KS ([dec] sec) and GM ([dec] sec) is larger than expected in group [chars]. Adjust to new PST

Explanation A Group member has received pseudotime which has large difference as compared to own pseudotime

Recommended Action

%GDOI-3-PSEUDO_TIME_TOO_OLD : Rekey received in group [chars] is too old and fail PST check: my_pst is [dec] sec, peer_pst is [dec] sec, allowable_skew is [dec] sec

Explanation A Group member has received pseudotime which has large difference as compared to own pseudotime

Recommended Action

%GDOI-3-GM_INCOMPLETE_CFG : Registration: incomplete config for group [chars]

Explanation Registration can not be completed since the GDOI group configuration may be missing the group id, server id, or both

Recommended Action Contact the Group member's administrator.

%GDOI-1-KS_NO_RSA_KEYS : RSA Key - [chars] : Not found, Required for group [chars]

Explanation Rsa Keys were not found in Key Server and they are required for signing and verifying rekey messages

Recommended Action Contact the Key Server's administrator and ask him to do create the RSA Key pair

%GDOI-4-RSA_KEYS_MODIFIED : WARNING: GMs for group [chars] will re-register due to signature verification failure

Explanation Rekeys will be dropped by GM as signature verification would fail due to modification of RSA Keys

Recommended Action Informational message

%GDOI-3-KS_REKEY_AUTH_KEY_LENGTH_INSUFFICIENT : Rejected [chars] change: using sig-hash algorithm [chars] requires an authentication key length of at least [int] bits ([int] blocks in bytes) - [chars] [chars] key [chars] is only [int] blocks in bytes

Explanation Using a sig-hash algorithm for rekeys requires that the RSA key modulus length for the rekey authentication be at least the length of the hash generated by the sig-hash algorithm plus some padding bytes. If the RSA key modulus length is not large enough, the Key Server administrator needs to generate a new RSA key pair with a sufficient length.

Recommended Action Contact the Key Server's administrator to re-generate the RSA key pair with at least the modulus length given in the syslog.

%GDOI-3-COOP_CONFIG_MISMATCH : WARNING: Group [chars], [chars] configuration between Primary KS and Secondary KS are mismatched

Explanation The configuration between Primary KS and Secondary KS are mismatched

Recommended Action Contact the Key Server's administrator

%GDOI-3-GM_ACL_PERMIT : GM doesn't support permit configured under local access-list. Traffic from [chars] to [chars] will be dropped.

Explanation GM can only support ACL for deny. Any traffic matching the permit entry will be dropped.

Recommended Action Remove the permit entry from the ACL used by GDOI crypto map

%GDOI-3-GM_NO_IPSEC_FLOWS : IPsec FLOW limit possibly reached

Explanation Hardware Limitation for IPsec Flow limit Reached. Cannot create any more IPsec SAs

Recommended Action Contact the Group member's administrator.

%GDOI-3-GM_NO_CRYPTO_ENGINE : No crypto engine is found due to lack of resource or unsupported feature requested

Explanation Failed to select a suitable crypto engine because requested packet path not available, or requested feature not supported

Recommended Action Check policy configured on KS

%GDOI-3-COOP_PACKET_DROPPED : Announcement message dropped due to packet size [dec] bytes.

Explanation Hard limit set on the driver buffer size prevents sending packets of this size or bigger

Recommended Action Informational message

%GDOI-3-UNEXPECTED_SIGKEY : Unexpected Signature Key detected: freeing it

Explanation Unexpected Signature Key found: freeing the signature key

Recommended Action Informational message

%GDOI-3-UNSUPPORTED_TEK_PROTO : Unexpected TEK Protocol : [dec]

Explanation Unexpected TEK PROTOCOL

Recommended Action Informational message

%GDOI-4-GM_DELETE : GM [chars] deleted from group [chars].

Explanation A group member has been deleted in a group from Key Server

Recommended Action Informational message

%GDOI-5-KS_USING_DEFAULT_TRANSFORM : GETVPN is using default transforms for profile [chars]

Explanation Using default transformset

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_REKEY_CIPHER_HASH_CHECK_FAIL : Rekey cipher/hash ([chars]) used in Group [chars] is unacceptable by this client.

Explanation The key-server has chosen KEK rekey cipher/hash algorithms which are not acceptable by this group-member

Recommended Action Contact the Key server's administrator.

%GDOI-5-GM_REKEY_TRANSFORMSET_CHECK_FAIL : The transformset ([chars]) for data-protection in Group [chars] is unacceptable by this client.

Explanation The key-server has chosen a TEK transformset which is not acceptable by this group-member

Recommended Action Contact the Key server's administrator.

%GDOI-3-COOP_ANN_SEQ_FAILURE : COOP Ann msg seq check failed for group [chars], ann seq# [int], sess seq# [int]

Explanation COOP Ann msg seq check failed

Recommended Action Contact Administrator

%GDOI-4-GDOI_ANN_TIMESTAMP_TOO_OLD : COOP_KS ANN from KS [chars] in group [chars] is too old and fail PST check: my_pst is [int] sec, peer_pst is [int] sec, allowable_skew is [dec] sec

Explanation The KS has received an ANN msg from a primary KS in which the timestamp is too old

**Recommended
Action**

%GDOI-4-GDOI_ANN_TIMESTAMP_LARGE : COOP_KS ANN received from KS [chars] in group [chars] has PST bigger than myself. Adjust to new PST: my_old_pst is [int] sec, peer_pst is [int] sec

Explanation The KS receive an ANN from a KS in which the timestamp is bigger than expected; also update my PST to peer's

**Recommended
Action**

%GDOI-4-GDOI_ANN_TIMESTAMP_LARGE_NO_UPDATE : COOP_KS ANN received from KS [chars] in group [chars] has PST bigger than myself: my_pst is [int] sec, peer_pst is [int] sec

Explanation The KS receive an ANN from a KS in which the timestamp is bigger than expected; No update of my PST

**Recommended
Action**

%GDOI-4-GDOI_ANN_INCONSISTENT_TBAR : COOP_KS ANN received from [chars] in group [chars] has inconsistent TBAR setting inconsistent than mine

Explanation The KS has received an ANN msg from a secondary KS in which the timestamp is too old

**Recommended
Action**

%GDOI-5-COOP_KS_VALID_ANN_TIMER_EXPIRED : This sec-KS has NOT received an ANN with valid PST for an extended period in group [chars]. It will block new GMs registration temporarily until a valid ANN is received

Explanation No valid ANN message has been received in this secondary KS for a prolong period. Temporarily blocking new GM registrations until a valid ANN is received

**Recommended
Action** Informational message

%GDOI-5-COOP_KS_BLOCK_NEW_GM_REGISTER_ANN : This KS temporarily blocks GM with ip-addr [chars] from registering in group [chars] as it has not received an ANN with valid PST for prolonged period

Explanation No valid ANN message has been received in this secondary KS for a prolong period. Temporarily blocking new GM registrations until a valid ANN is received

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-COOP_KS_BLOCK_NEW_GM_REGISTER_ELECTION : This KS temporarily blocks GM with ip-addr [chars] from registering in group [chars] as the KS election is underway

Explanation The KS is in the process of electing a primary. Temporarily blocking new GM registrations until the election is complete

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-COOP_KS_BLOCK_NEW_GM_REGISTER_KSSID : This KS is blocking GM with ip-addr [chars] from registering in group [chars] as it has overlapping KS Sender Identifier(s) (KSSID) with another COOP-KS peer (MISCONFIG)

Explanation Another COOP-KS peer in the group has been configured with a KSSID value that is the same as one configured on this KS. GM registration is blocked as a result until the overlap is fixed.

Recommended Action Check the configured KSSID(s) for all COOP-KS peers by issuing 'show crypto gdoi ks coop ident detail' on the primary KS

%GDOI-5-COOP_KS_RESUME_NEW_GM_REGISTER : This KS will now resume new GM registration functionality in group [chars]

Explanation This KS will now resume new GM registration functionality

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-SA_KEK_UPDATED : SA KEK was updated [hex][hex][hex][hex]

Explanation	KEK was updated in the Registration/Rekey and a new KEK SA was created
Recommended Action	Informational message.

%GDOI-5-SA_PIP_UPDATED : SA PIP was updated 0x[chars]

Explanation	PIP was updated in Registration/Rekey and a new PIP SA was created
Recommended Action	Informational message.

%GDOI-3-SA_KEK_INSATALL_FAILED : Failed to install KEK SA

Explanation	KEK SA instalation has failed
Recommended Action	Informational message.

%GDOI-3-P2P_PEER_MIGRATE_FAILED : Failed to install P2P rekey SA with peer [chars] in group [chars]

Explanation	Installation of P2P Rekey SA with an existing peer has failed
Recommended Action	Check the status of all peers using the command 'show crypto gdoi gm p2p peers' and wait for PIP initiation between the failed peers. Traffic distruption may occur.

%GDOI-5-SA_TEK_UPDATED : SA TEK was updated

Explanation	TEK was updated in the Registration/Rekey and a new TEK IPSEC SA was created
Recommended Action	Informational message.

%GDOI-5-TEK_ATD_TIMER_STARTED : TEK ATD Timer started for [dec] seconds, New TEK will be installed once ATD timer expires

Explanation	TEK ATD timer started and new TEK will be installed after atd timer expiry
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-4-GM_MINOR_VERSION_MISMATCH : GM [IP_address] Minor Version mismatch. Use 'show crypto gdoi ks members' to see GM versions

Explanation GM has different minor version.

Recommended Action show crypto gdoi ks members

%GDOI-3-GM_MAJOR_VERSION_MISMATCH : GM [IP_address] registration rejected due to major version mismatch. GM must be using major version [dec] in order to be compatible with this KS

Explanation GM has a non-compatible major version.

Recommended Action Check GDOI version compatibility on KS and GMs

%GDOI-4-KS_MINOR_VERSION_MISMATCH : COOP-KS Minor Version mismatch in group [chars]. My version is [dec].[dec].[dec], peer [chars] has version [dec].[dec].[dec]

Explanation Coop KS has different minor version.

Recommended Action show crypto gdoi ks coop

%GDOI-3-KS_MAJOR_VERSION_MISMATCH : COOP-KS Major Version mismatch in group [chars]. My version is [dec].[dec].[dec], peer [chars] has version [dec].[dec].[dec]

Explanation COOP-KS has a non-compatible major version.

Recommended Action Check GDOI version compatibility on KS

%GDOI-2-COOP_MINOR_VERSION_MISMATCH : COOP-KS Minor version mismatch in group [chars]. My COOP version is [dec].[dec].[dec], peer [chars] has version [dec].[dec].[dec]. Upgrade [chars] [chars] to COOP version [dec].[dec].[dec] to prevent COOP outage.

Explanation Coop KS has different minor version.

Recommended Action show crypto gdoi ks coop

%GDOI-3-COOP_MAJOR_VERSION_MISMATCH : COOP-KS Major Version mismatch in group [chars]. My version is [dec].[dec].[dec], peer [chars] has version [dec].[dec].[dec]

Explanation COOP-KS has a non-compatible major version.

%GDOI-3-COOP_MAJOR_VERSION_MISMATCH : COOP-KS Major Version mismatch in group [chars]. My version is [dec].[dec].[dec], peer [chars] has version [dec].[dec].[dec]

Recommended Action Check COOP version compatibility on KS

%GDOI-3-COOP_LIMIT_REACHED : Peer [chars] has reached COOP limit of maximum number of gms. COOP GM database sync fails. Upgrade to COOP version [dec].[dec].[dec] and above

Explanation COOP-KS has a non-compatible peer.

Recommended Action Check COOP version compatibility on peer KS

%GDOI-5-POLICY_CHANGE : GDOI group [chars] policy has changed. Use 'crypto gdoi ks rekey' to send a rekey, or the changes will be send in the next scheduled rekey

Explanation Reminder message that GDOI configuration has changed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-ESON_POLICY_CHANGE_RESTART1 : ESON group [chars] policy has changed. Must use 'clear crypto gdoi ks members now' to restart the group

Explanation Reminder message that ESON configuration has changed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-ESON_POLICY_CHANGE_RESTART2 : ESON group [chars] policy has changed. Must use 'crypto gdoi ks replace now' to restart the group

Explanation Reminder message that ESON configuration has changed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_DELETE_EXPIRED_KEK : KEK expired for group [chars] and was deleted

Explanation	Deleting Expired KEK
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_DELETE_EXPIRED_PIP : PIP with SPI 0x[chars] expired for group [chars] and was deleted

Explanation	Deleting Expired PIP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_DELETE_EXPIRED_P2P : P2P SA with epoch hash 0x[chars] expired for group [chars] and was deleted

Explanation	Deleting Expired P2P
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-POLICY_CHANGE_TO_SUITEB : Group [chars] changed to Suite-B policy. Use 'crypto gdoi ks rekey' to generate the new Suite-B policy and cause all GMs to re-register to download SIDs, or this will happen in the next scheduled rekey

Explanation	Migrating from non-Suite-B to Suite-B policy requires that the user issues 'crypto gdoi ks rekey' like any other POLICY_CHANGE, but this will cause a re-initialization rather than just a rekey.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-KS_REINIT_GROUP : [chars] for group [chars] and will re-initialize the group.

Explanation KS has reached one of the following conditions (indicated by the first part of the message) requiring re-initialization of the group: - Group Size configuration changed - Previously used KSSID removed from configured KSSID set - KS runs out of KSSIDs & GMSIDs - COOP SID client gets a re-initialization indication from COOP-KS - KSSID overlap detected by COOP is resolved - TEK policy is changed from non-CTR to CTR (SIDs required).

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-KS_REINIT_FINISH : Re-initialization of group [chars] completed.

Explanation A previously triggered re-initialization, as signified by a %GDOI-5-KS_REINIT_GROUP syslog, has completed after the expiry of the old TEK.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-3-KS_NO_SID_AVAILABLE : GMs for group [chars] need SIDs but this KS has no KS SIDs configured or no more SIDs available.

Explanation This KS has a counter-mode transform configured requiring SIDs and either has no KSSIDs configured or has run out of SIDs. Registering GMs will not be able to register successfully until more KSSIDs are configured on this KS.

Recommended Action Check the configured KSSID(s) for this KS by issuing 'show crypto gdoi ks ident detail' and consider configuring more KSSIDs using the 'identifier' sub-mode under 'server local'.

%GDOI-3-COOP_KSSID_OVERLAP : Overlapping KS Sender Identifier(s) (KSSID) {[chars]} with COOP-KS peer [chars] in group [chars] blocking GM registration (MISCONFIG)

Explanation Another COOP-KS peer in the group has been configured with a KSSID value that is the same as one configured on this KS. GM registration is blocked as a result until the overlap is fixed.

Recommended Action Check the configured KSSID(s) for all COOP-KS peers by issuing 'show crypto gdoi ks coop ident detail' on the primary KS

%GDOI-5-COOP_KSSID_OVERLAP_RESOLVED : Resolved overlapping KS Sender Identifier(s) (KSSID) with COOP-KS peer allowing GM registrations once again

Explanation	Another COOP-KS peer in the group had been configured with a KSSID value that was the same as one configured on this KS, but has been resolved so that GM registration is allowed again.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_IV_EXHAUSTED : GM for group [chars] exhausted its IV space for interface [chars] and will re-register.

Explanation	One of the interfaces where a CTR transform (e.g. GCM-AES / GMAC-AES) has been installed as TEK policy with SIDs has exhausted its IV space & must re-register to receive new SIDs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_REKEY_IPV4_POLICY_CHECK_FAIL : Non-IPv4 policies is received in IPv4 Group [chars]; rekey is rejected

Explanation	This GM is registering to an IPv4 group but erroneously receiving IPv6 policies in rekey
Recommended Action	Contact the Key server's administrator.

%GDOI-5-GM_REKEY_IPV6_POLICY_CHECK_FAIL : Non-IPv6 policies is received in IPv6 Group [chars]; rekey is rejected

Explanation	This GM is registering to an IPv6 group but erroneously receiving IPv4 policies in rekey
Recommended Action	Contact the Key server's administrator.

%GDOI-4-UNKNOWN_GM_VERSION_REGISTER : WARNING: GM [chars] with unknown GDOI ver registered to group [chars] (e.g old-IOS or non-Cisco GM please check 'show crypto gdoi ks members' and 'show crypto gdoi feature' to ensure all your GMs can support the GETVPN features enabled.

Explanation A GM is registered with unknown GDOI SW version; cannot determine its feature capability.

Recommended Action Check GMs can support all GETVPN features enabled in KS. Also check output of 'show crypto gdoi feature' and 'debug crypto gdoi ks infra detail' (note: high volume of debugs). msgdef_ddts_component(ipsec-getvpn)

%GDOI-4-NEWER_GM_VERSION_REGISTER : WARNING: GM [chars] registers to group [chars] with newer GDOI version than KS. Please check 'show crypto gdoi ks members' and 'show crypto gdoi feature' to ensure all GMs can support the GETVPN features enabled.

Explanation A GM is registered with newer GDOI SW version; cannot determine its feature capability.

Recommended Action Check GMs can support all GETVPN features enabled in KS. Also check output of 'show crypto gdoi feature' and 'debug crypto gdoi ks infra detail' (note: high volume of debugs). msgdef_ddts_component(ipsec-getvpn)

%GDOI-4-REJECT_GM_VERSION_REGISTER : Reject registration of GM [IP_address] (ver [hex]) in group [chars] as it cannot support these GETVPN features enabled: [chars]

Explanation Reject GM registration because it cannot support the GETVPN features enabled in the group.

Recommended Action Check GMs can support all GETVPN features enabled in KS. Also check output of 'show crypto gdoi feature' and 'debug crypto gdoi ks infra detail' (note: high volume of debugs). msgdef_ddts_component(ipsec-getvpn)

%GDOI-4-GM_RECOVERY_REGISTRATION : GM recovery re-registration for group [chars] will start in a randomly chosen period of [dec] sec

Explanation GM recovery feature detects dataplane error and will re-register to KS to refresh keys and policy

Recommended Action Informational message.

%GDOI-4-GM_RECOVERY_REGISTRATION_POSTPONED : Detects data error in group [chars] but the previous recovery/rekey has occurred within the last recovery-check interval. Postpone recovery registration to start in [dec] sec

Explanation GM recovery feature detects dataplane error and will re-register to KS to refresh keys and policy

%GDOI-4-GM_RECOVERY_REGISTRATION_POSTPONED : Detects data error in group [chars] but the previous recovery/rekey has occurred within the last recovery-check interval. Postpone recovery registration to start in [dec] sec

Recommended Action Informational message.

%GDOI-4-GM_SA_TRACK_SET_EOT_ERROR : Group [chars] encountered error in setting EOT object ID [dec] to state [chars].

Explanation GM SA TRACK state change occur but fail to update EOT object ID accordingly

Recommended Action Informational message. Check to make sure the EOT object ID is configured properly

%GDOI-5-POLICY_CHANGE_ERROR_MULTIPLE_PORTS : Multiple ports detected for ACL [chars] which is not supported. WARNING: No TEK policy will be created.

Explanation Informs user that there is an error in the ACL with regards to the number of ports.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-6-COOP_KS_VER_TRANSIT : Coop KS [chars] protocol version transits from version 1.0.1 to 2.0.0

Explanation The KS is transitioning to a new version.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-4-COOP_KS_RBLY_FAILED : Coop KS [chars] in group [chars] session Reassembly failed in TransID [int]

Explanation The KS COOP had an error reassembling a packet from a peer KS

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-4-COOP_KS_CHECKPT_MISMATCH : Coop KS [chars] in group [chars] received Checkpoint Mismatch message.

Explanation	The KS COOP had received a checkpoint mismatch from a KS COOP peer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-3-COOP_KS_CANNOT_FIND_PROFILE : Coop KS in group [chars] has a configured IKEv2 profile '[chars]' that doesn't exist. The COOP will not come up until this error is fixed.

Explanation	The KS COOP configuration redundancy ikve2-profile specifies a profile that doesn't exist. The COOP will not come up.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-IPSEC_INITIATE_GM_REGISTER : IPSEC initiate GDOI group [chars] to register

Explanation	IPSEC initiate a GM registration for the group
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-3-IPSEC_INITIATE_GM_REGISTER_POSTPONE : IPSEC triggering registration for group [chars] too frequently. Postpone the registration to occur in [dec] msec.

Explanation	GM detects IPSEC triggering registration for the group too frequently. GDOI will rate-limit and postpone the registration.
Recommended Action	Contact the Group member's administrator.

%GDOI-3-IPSEC_INITIATE_GM_REGISTER_IGNORE : IPSEC triggering registration for group [chars] too frequently. Ignore the request as registration has already been scheduled to occur in [dec] msec.

Explanation	GM detects IPSEC triggering registration for the group too frequently. GDOI will ignore the request as registration has already been scheduled.
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%GDOI-3-IPSEC_INITIATE_GM_REGISTER_IGNORE : IPSEC triggering registration for group [chars] too frequently. Ignore the request as registration has already been scheduled to occur in [dec] msec.

Recommended Action Contact the Group member's administrator.

%GDOI-3-COOP_KS_TOO_MANY_GROUPS_SHARE_IKE_SA : The COOP KS has too many groups sharing the same IKE SA for the peer addresses local [chars] remote [chars]. Connectivity could be compromised. Please reduce to [dec].

Explanation There is a limit to the number of COOP KS groups that can share the same IKE SA. This can lead to intermittent connectivity for the COOP KS in congested networks

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-3-COOP_KS_SEND_WINDOW_LIMIT_REACHED : The COOP KS has reached its window limit for the peer addresses local [chars] remote [chars]. This is due to connectivity issues between the key servers in question.

Explanation The COOP KS running over IKEv2 has a limit to the number of pending messages that can be sent. This limit has been reached which is an indication that there is a connectivity issue between the key servers

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-4-REJECT_GM_CKM_REGISTER : Reject registration of GM [IP_address] in group [chars] as it has CKM enabled but this secondaryKS has not sync up all KGS params yet

Explanation Reject GM registration because this is a secondaryKS and it has not received KGS seed and rekey-epoch from primaryKS yet

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-4-COOP_KS_CKM_INCOMPATIBLE : Found incompatible COOP-KS that cannot support CKM in group [chars]. Please check 'show crypto gdoi feature ckm'and upgrade the incompatible KS immediately.

Explanation	Found incompatible COOP-KS that cannot support CKM in the group. Network administrator should check 'show crypto gdoi feature ckm'and upgrade the incompatible KS immediately
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-5-GM_REGISTER_UPDATE_TBAR : Platform HA forwarding-plane comes online, group [chars] gm-identity [chars] fvrf [chars] ivrf [chars] re-register to refresh TBAR info.

Explanation	HA forwarding-plane comes online, group %s gm-identity %s fvrf %s ivrf %s is re-registering to refresh TBAR info.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GDOI-3-GM_IPD3P_NO_IPV6_SUPPORT : GETVPN group-member does not support IP-D3P for IPv6.

Explanation	GETVPN group-member does not support IP-D3P for IPv6.
Recommended Action	Contact the Administrator(s) to correct the key server policy.

%GDOI-3-GM_IPD3P_NO_TRANSPORT_SUPPORT : GETVPN group-member does not support IPD3P transport mode

Explanation	GETVPN group-member does not support IPD3P transport mode
Recommended Action	Contact the Administrator(s) to correct the key server policy.

%GDOI-3-GM_IPD3P_AND_CMD_CANT_COEXIST : GETVPN group-member does not support coexistence of IPD3P and Cisco-metadata features

Explanation	GETVPN group-member does not support the enabling of IPD3P and Cisco-metadata features (e.g TBAR-PST, SGT) at the time
Recommended Action	Contact the Administrator(s) to correct the key server policy.

GENERIC_SUBBLOCK**%GENERIC_SUBBLOCK-2-LATE_REGISTER : Late registration of GSB type [chars], with id [dec]**

Explanation An attempt to register a new generic subblock type was received after subblocks have already been allocated from the control structure with previously registered types

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GENERIC_SUBBLOCK-2-BUILDHDR : Failed to build message for GSB: [chars]

Explanation An attempt to build a message for distribution of generic subblock failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GENERIC_SUBBLOCK-2-UNPACKHDR : Unpacked [dec] bytes and attempted to consume [dec] bytes for GSB: [chars]

Explanation A discrepancy was detected between length of message expected versus length of message received

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GENERIC_SUBBLOCK-2-GSBNOTISSU-AWARE : GSB [chars] is not ISSU aware. Cannot distribute it to ISSU-aware slots

Explanation This GSB is expected to be ISSU aware but it is not. It cannot be distributed safely to ISSU-aware slots as it may not be correctly interpreted

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

GEN_DB**%GEN_DB-3-NULL_TREE_NODE : Node is NULL [chars]**

Explanation	This message indicates that the tree node being examined is NULL
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-INVALID_RECORD_KEY : [chars]: invalid record key *

Explanation	This message indicates that the record key is invalid
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-NO_KEY_FUNC : [chars]: [chars][chars]

Explanation	This message indicates that key functions are missing from the database handle, or key function is a NULL Pointer
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-KEY_FUNC_DOESNT_EXIST : [chars]: Key function does not exist

Explanation	This message indicates that key function being considered does not exist in the database definition
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-INVALID_CLIENT_TYPE : [chars]: Invalid client type, got [dec] (must be between 0 and [dec])

Explanation	This message indicates that client type is outside the expected range
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-NULL_DB_HNDL : NULL Database Handle [chars]

Explanation	This message indicates the database handle was NULL
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-NULL_DB_HNDL_ELEMENT : [chars]: NULL Database Element [chars]

Explanation	This message indicates the database handle element was NULL
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-LIST_FAIL : [chars]:[chars]

Explanation	This message indicates that a list operations such as enqueue, dequeu failed
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-LIST_FAIL_FOR_RECORD : [chars]:[dec]:[chars]

Explanation	This message indicates that a list operations such as enqueue, dequeu failed
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-WAVL_FAIL : [chars]: [chars]

Explanation	This message indicates that a wavl tree operation failed
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-RECORD_DELETE_FAIL : [chars]:[chars]

Explanation	This message indicates that a record could not be deleted
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-PARSER_INIT_FAIL : [chars]:[dec]: Parser Could not be initialized

Explanation	This message indicates that the IOS Parser command could not be initialized
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%GEN_DB-3-UNKNOWN_PARSER_CMD : [chars]:[dec]: Unknown Parser Command

Explanation	This message indicates that the IOS Parser command was not recognized
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%GEN_DB-3-UNKNOWN_PARSER_CMD : [chars];[dec]: Unknown Parser Command

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.



CHAPTER 4

GEN_PROXY through IPV4_FORWARDING

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GEN_PROXY through HFSLIB

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GEN_PROXY

%GEN_PROXY-3-IPC_UNHANDLED : failure

Explanation An unknown message type: %d was received by the Generic Client Proxy.

%GEN_PROXY-3-IPC_UNHANDLED : failure

Recommended Action LOG_STD_ACTION

%GEN_PROXY-3-REPLY_MSG : wrong version [dec]

Explanation An incorrect SBS message was received by the Generic Client Proxy.

Recommended Action LOG_STD_ACTION

%GEN_PROXY-3-STACK_ALLOC_FAILED : Stack allocation for reply failed reply_size [hex]

Explanation Stack space could not be allocated for reply.

Recommended Action LOG_STD_ACTION

%GEN_PROXY-3-GPM_ALLOC_FAILED : GPM allocation for reply failed pak_size [hex] reply_size [hex]

Explanation GPM could not be allocated for reply.

Recommended Action LOG_STD_ACTION

%GEN_PROXY-3-IPC_SEND_FAILED : IPC send reply failed [chars]

Explanation GEN proxy failed to send of reply to IPC msg.

Recommended Action LOG_STD_ACTION

GLBP

%GLBP-4-BADAUTH : Bad authentication received from [chars], group [dec]

Explanation Two routers participating in a Gateway Load Balancing Protocol group disagree on the valid authentication string.

Recommended Action Use the glbp authentication interface command to repair the GLBP authentication discrepancy between the local system and the one whose IP address is reported.

%GLBP-3-MISCONFIG : Cannot add MAC address [enet] to interface [chars] - not supported

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%GLBP-6-STATECHANGE : [chars] Grp [int] state [chars] -> [chars]

Explanation	The GLBP gateway has changed state
Recommended Action	No action is required.

%GLBP-6-FWDSTATECHANGE : [chars] Grp [int] Fwd [int] state [chars] -> [chars]

Explanation	The GLBP forwarder has changed state
Recommended Action	No action is required.

%GLBP-4-DUPADDR : Duplicate address [chars] on [chars], sourced by [enet]

Explanation	The IP address in a GLBP message received on the interface is the same as the router's own IP address. This may be because of misconfiguration, or because of a malfunctioning switch
Recommended Action	Check the configurations on all the GLBP routers, and make sure that any switches you have are functioning properly.

%GLBP-4-DUPVIP1 : [chars] Grp [dec] address [chars] is already assigned to [chars] group [dec]

Explanation	The GLBP virtual IP address contained in the Hello message cannot be learnt as it is already assigned to a different GLBP group.
Recommended Action	Check the configuration on all GLBP routers.

%GLBP-4-DUPVIP2 : [chars] Grp [dec] address [chars] is already assigned on this interface

Explanation	The GLBP virtual IP address contained in the Hello message cannot be learnt as it is already assigned to this interface.
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%GLBP-4-DUPVIP2 : [chars] Grp [dec] address [chars] is already assigned on this interface

Recommended Action Check the configuration on all GLBP routers.

%GLBP-4-DUPVIP3 : [chars] Grp [dec] address [chars] is already assigned to, or overlaps with, an address on another interface or application

Explanation The GLBP virtual IP address contained in the Hello message cannot be learnt as it is already assigned to, or overlaps with, an address on another interface or application.

Recommended Action Check the configuration on all GLBP routers.

%GLBP-4-BADVIP : [chars] Grp [dec] address [chars] is in the wrong subnet for this interface

Explanation The GLBP virtual IP address contained in the Hello message cannot be learnt as it is not within a subnet configured on the interface.

Recommended Action Check the configuration on all GLBP routers and ensure that the virtual IP address is within a configured subnet.

%GLBP-4-DIFFVIP1 : [chars] Grp [dec] active routers virtual IP address [chars] is different to the locally configured address [chars]

Explanation The GLBP virtual IP address contained in the Hello message from the Active router is different to that configured locally.

Recommended Action Check the configuration on all GLBP routers.

GRIP

%GRIP-3-BADPATHS : Invalid number of paths ([dec]) for %q

Explanation An internal inconsistency was detected in the XNS routing table structure.

Recommended Action Note the parameters associated with this message and call your technical support representative for assistance.

%GRIP-2-BADROUTE : Error [chars] route - null table

Explanation A hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

HA**%HA-6-TOOBIG : Running config too big, config sync failed**

Explanation	The running config was too big to be synced
Recommended Action	No action is required.

%HA-6-SWITCHOVER : Route Processor switched from standby to being active

Explanation	This RP switched to become the active RP
Recommended Action	No action is required.

HAL_GENMEM**%HAL_GENMEM-3-HAL_MISMATCHED_GENMEM : VADDR:[int] LINE: [dec]**

Explanation	Mismatched genmem.
Recommended Action	LOG_STD_ACTION

HAL_PACKET**%HAL_PACKET-3-HAL_GATHER_ASYNC_WAIT_TIMEOUT : seqnum=[int] pak-type=[int]**

Explanation	Packet Hardware Transmit Error
Recommended Action	LOG_STD_ACTION

HA_EM**%HA_EM-7-FMCMN_PTHREAD_MUTEX_LOCK : [chars]: Error locking mutex [chars]; [chars]**

Explanation	The pthread_mutex_lock function reported an error while attempting to lock the specified mutex.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMCMN_PTHREAD_MUTEX_UNLOCK : [chars]: Error unlocking mutex [chars]; [chars]

Explanation The pthread_mutex_unlock function reported an error while attempting to unlock the specified mutex.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFDCMN_DM_CREATE : [chars]: could not create dispatch manager: [chars]

Explanation The event detector has failed to create an dispatch manager.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFDCMN_EA_ATTACH : [chars]: could not register for asynchronous message events: [chars]

Explanation The event detector has failed to attach an event handler for asynchronous messages.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFDCMN_INV_TM : [chars]: invalid timer: type=[dec], timer=[IPV6 address]

Explanation Internal error. The timer value is invalid or not as expected.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFDCMN_INV_TM_TYPE : [chars]: invalid timer type: [dec]

Explanation Internal error. The timer type is invalid or not supported.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFDCMN_MSGSEND_EVT : [chars]: error returned from event_send_pulse; [chars]

Explanation The event detector has failed to send a pulse to itself to notify of a pending message send event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFDCMN_PUB_RBLD : [chars]: [chars]

Explanation Internal error. The event detector has failed to rebuild the publish list from the checkpointed records.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFDCMN_XDM_DISPATCH_FAIL : [chars]: XOS Dispatch Manager dispatch error: [dec]

Explanation XOS Dispatch Manager reports an error when dispatching an event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFDCMN_XDM_WAIT_FAIL : [chars]: XOS Dispatch Manager wait error: [dec]

Explanation XOS Dispatch Manager reports an error when waiting for an event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_ADD_PARSER : [chars]: Unable to add [chars] event detector command;

Explanation The Event detector failed to add command.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_CHKPT_INIT : [chars]: [chars]

Explanation Internal error. The event detector has failed to initialize with the checkpointing server.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_CHKPT_TBL_ADD : [chars]: [chars]

Explanation Internal error. The event detector has failed to add a record to the checkpointing table.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_CHKPT_TBL_INIT : [chars]: [chars]

Explanation Internal error. The event detector has failed to initialize a table with the checkpointing server.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_CHKPT_TBL_ITERATE : [chars]: [chars]

Explanation Internal error. The event detector has failed to iterate the checkpointing table.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_CHKPT_TBL_REMOVE : [chars]: [chars]

Explanation Internal error. The event detector has failed to remove a record from the checkpointing table.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_COND_WAIT : [chars]: conditional wait error: [chars]

Explanation Internal error. The event detector has failed to do pthread conditional wait.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_CONNECTION_FAIL : Could not connect to [chars] : [chars]

Explanation Could not connect to event detector on the remote node. Node may be invalid or not available or the process may not be available to accept the connection.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_DE_FETCH : [chars]: [chars][[dec]]

Explanation Internal error. The event detector has failed to fetch a data element from the statistics data engine.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_DE_INIT : [chars]: [chars]

Explanation	Internal error. The event detector has failed to initialize the statistics data engine.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_DM_CREATE : [chars]: could not create dispatch manager: [chars]

Explanation	The event detector has failed to create an dispatch manager.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_EA_ATTACH : [chars]: could not register for asynchronous message events: [chars]

Explanation	The event detector has failed to attach an event handler for asynchronous messages.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMFD_EMPTY_QUEUE : [chars]: The [chars] event detector I/O queue empty.

Explanation	The I/O queue is empty at this point, and should not be.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_ENQUEUE_FAIL : [chars]: Unable to enqueue [chars];

Explanation	The enqueue function reported an error.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_EV_BLOCK : [chars]: [chars]

Explanation	The event_block function reported an error.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_EVM_CREATE : Could not create event manager: [chars]

Explanation	The event detector has failed to create an Event Manager.
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%HA_EM-7-FMFD_EVM_CREATE : Could not create event manager: [chars]

Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_HIST_QERR : [chars]

Explanation	Internal error. The event detector has failed to get a free history listentry.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_HIST_RBLD : [chars]: [chars]

Explanation	Internal error. The event detector has failed to rebuild the history list from the checkpointed records.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_INV_COMPARE_OP : [chars]: invalid comparison operator: [dec]

Explanation	Internal error. The value comparison operator is invalid or notsupported.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_INV_STATS_TYPE : [chars]: invalid statistics value type: [dec]

Explanation	Internal error. The statistics data type is invalid or not supported.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_INV_TM : [chars]: invalid timer: type=[dec], timer=[IPV6 address]

Explanation	Internal error. The timer value is invalid or not as expected.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_INV_TM_TYPE : [chars]: invalid timer type: [dec]

Explanation	Internal error. The timer type is invalid or not supported.
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%HA_EM-7-FMFD_INV_TM_TYPE : [chars]: invalid timer type: [dec]

Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_LOCAL_NODEID : Could not get local nodeid: [chars]

Explanation	Could not get local node identifier.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_MALLOC : [chars]: Unable to allocate [chars]; [chars]

Explanation	The malloc function reported an error.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_MET_ENQUEUE : [chars]: could not enqueue metric data: [chars]

Explanation	Internal error. The system manager event detector has failed to add a metric data entry to the list.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_MET_RBLD : [chars]: [chars]

Explanation	Internal error. The event detector has failed to rebuild the metriclist from the checkpointed records.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_MISC_ERR : [chars]: [chars]

Explanation	An unexpected error occurred.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMFD_MSGSEND_EVT : [chars]: error returned from event_send_pulse; [chars]

Explanation The event detector has failed to send a pulse to itself to notify of a pending message send event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_MSGSEND_RETRY_ERR : [chars]: [dec]

Explanation The event detector has exceeded its maximum number of retries to send apulse to the embedded event manager to notify of an event publish.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_NO_CLOCK : [chars]: unable to read clock using clock_gettime: [chars]

Explanation The clock_gettime function reported an error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_NO_MEM : [chars]: not enough memory: [chars]

Explanation Allocating memory failed due to a low-memory condition.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_OE_CREATE : [chars]: could not create an occurrence entry

Explanation Internal error. The event detector has failed to create an entry for thematched occurrence list.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_OE_REMOVE : [chars]: could not remove an occurrence entry

Explanation Internal error. The event detector has failed to remove an entry for thematched occurrence list.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMFD_OID_UNAVAIL : [chars]: The following oid has become unavailable: [chars]

Explanation	The registered oid is no longer available in the system.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_OPEN_CONF : [chars]: could not open event detector config file: [chars]

Explanation	The event detector has failed to open the config file for event detector type information.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_PTHRD_CREATE : [chars]: could not create a Posix thread

Explanation	The pthread_create function reported an error.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_PUB_RBLD : [chars]: [chars]

Explanation	Internal error. The event detector has failed to rebuild the publish list from the checkpointed records.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_PUB_TM_ALLOC : [chars]: Unable to allocate memory for event publish timer block

Explanation	Internal error. The event detector has failed to allocate memory for the event publish timer block.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMFD_QUEUE_INIT : [chars]: Unable to initialize queue;

Explanation	The queue initialization function reported an error.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_RESOURCE_MONITOR_REGISTER_FAIL : [chars]: resource_monitor_register failed; return code = [dec]

Explanation The resource_monitor_register function reported an error trying to register for RMI notifications.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_RM_ATTACH : [chars]: could not attach resource manager functions to event manager: [chars]

Explanation The event detector has failed to attach a Resource Manager to an Event Manager.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SM_PROC_EXIT : [chars]: [chars]

Explanation The system manager failed to execute the default action of the terminated process.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_ADDR_ILLEGAL : [chars]: Illegal SNMP address type

Explanation The SNMP address is illegal.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_ADDR_IPV6 : [chars]: SNMP IPV6 address is not supported

Explanation The IPV6 address is not supported.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_BUILD_PDU_FAILED : [chars]: SNMP build pdu failed

Explanation The SNMP pdu build has failed.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_COMM_FAIL : [chars]: Unable to create SNMP octet community string; string = [chars]

Explanation The community string was not able to build into a SNMP octet string

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_COMMUNICATE_FAIL : [chars]: [chars] [chars]

Explanation Unable to communicate with SNMPPD process

Recommended Action Check whether SNMP is configured on this Router.

%HA_EM-7-FMFD_SNMP_ERRCODE : [chars]: [chars]

Explanation The SNMP error code.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_MAKE_PDU_FAILED : [chars]: SNMP make pdu failed

Explanation The SNMP pdu make has failed.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMFD_SNMP_MIB_OBJ_REPLACE_FAIL : [chars]: SNMP MIB object info replace failed [dec]

Explanation The SNMP MIB object info replace function has failed.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_MSG_FAIL : [chars]: Unable to create a SNMP message; community = [chars]

Explanation The SNMP message failed to be created

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMFD_SNMP_NO_OBJECT_VALUE : [chars]: SNMP MIB object value not provided

Explanation The SNMP MIB object value is not provided for substitution.

%HA_EM-4-FMFD_SNMP_NO_OBJECT_VALUE : [chars]: SNMP MIB object value not provided

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMFD_SNMP_OBJECT_UNKNOWN_RESPONSE_CODE : [chars]: Unknown SNMP object response code [dec]

Explanation The SNMP MIB object response code is unknown.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_OID_INVALID : [chars]: Invalid SNMP oid length [dec]

Explanation The SNMP oid has invalid length

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_OID_MAKE_FAIL : [chars]: Unable to build an oid string into a SNMP oid; oid = [chars]

Explanation The oid string was not able to build into a SNMP oid

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_REQ_FAILED : [chars]: SNMP request failed

Explanation The SNMP request has failed.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_RESP_CANCEL : [chars]: SNMP response cancelled

Explanation The SNMP response has been cancelled.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_RESP_ERROR : [chars]: SNMP response error; error_status = [dec]

Explanation The SNMP response has error.

%HA_EM-7-FMFD_SNMP_RESP_ERROR : [chars]: SNMP response error; error_status = [dec]

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_RESP_Q_EMPTY : [chars]: SNMP proxy exec got event, but queue is empty

Explanation The SNMP proxy got event but the queue is empty.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_RESP_TIMEOUT : [chars]: SNMP response has timed out

Explanation The SNMP response has timed out.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_UNKNOWN_TYPE : [chars]: Unknown SNMP operation or response type [dec]

Explanation The operation or response type is unknown.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SNMP_VARBIND_FAIL : [chars]: Unable to create a SNMP varbind

Explanation The oid failed to make into a SNMP varbind

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_STATS_VAL_GET_ERR : [chars]: [chars]

Explanation Internal error. The event detector has failed retrieving a valid statistics value.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SYSDB_BIND : [chars]: [chars]

Explanation Failed to bind to SysDB.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SYSDB_GET : [chars]: [chars]

Explanation	Failed to retrieve an item from SysDB.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_SYSDB_REG_NOTIFY : [chars]: [chars]

Explanation	Failed to register for notification of a set of items in SysDB.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_TM_CRTICK_INIT : [chars]: [chars]

Explanation	Internal error. The initialization of the cron-tick function has failed.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_TM_LEAF_NEW : [chars]: could not create a leaf timer

Explanation	Internal error. The event detector has failed to create a managedleaf timer.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMFD_TTY_NUM : [chars]: Error occurred while fetching TTY number.

Explanation	The Embedded Event Manager failed to fetch a TTY number.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_XDM_DISPATCH_FAIL : [chars]: XOS Dispatch Manager dispatch error: [dec]

Explanation	XOS Dispatch Manager reports an error when dispatching an event.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMFD_XDM_WAIT_FAIL : [chars]: XOS Dispatch Manager wait error: [dec]

Explanation XOS Dispatch Manager reports an error when waiting for an event.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_APPL_CBH_PULSE : [chars]: Unable to locate application publish callback entry for pulse code [dec]

Explanation The application publish callback handler was unable to validate the pulse code received.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_APPL_CBH_SEND : [chars]: Unable to send response for FH_MSG_CALLBACK_DONE [chars]

Explanation The registration callback handler was unable to send the FH_MSG_CALLBACK_DONE message to the Embedded Event Manager Server.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_CB_CLOSE : [chars]: fh_close failed [chars]

Explanation The fh_close function reported an error trying to initialize the internal callback connection.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_CB_EV_CREATE : [chars]: event_manager_create failed [chars]

Explanation The event_manager_create function reported an error.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMC_CBH_PROCESS_CREATE : [chars]: callback handler process create failed for eid: [dec]

Explanation The process_create function reported an error trying to create the callback handler process.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_CB_INIT : [chars]:[dec] (thread:[dec]) fh_init failed [chars]

Explanation The fh_init function reported an error trying to initialize the internal callback connection.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_CBS_PT_CREATE : [chars]: pthread_create failed [chars]

Explanation The pthread_create function reported an error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_ENQUEUE_FAIL : [chars]: Unable to enqueue [chars];

Explanation The enqueue function reported an error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMC_FH_INIT : [chars]: fh_init failed : [dec]

Explanation The fh_init function reported an error trying to initialize EEM fora callback process.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_INV_REPLY : [chars]: Application client library unable to handle message receive.

Explanation The API received a msg reply when it was not in a state to acceptsuch messages.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_MALLOC : [chars]: Unable to allocate [chars];

Explanation The malloc function reported an error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_REG_CBH_PULSE : [chars]: Unable to locate reg callback entry for pulse code [dec]

Explanation The registration callback handler was unable to validate the pulse codereceived.

Recommended Action The pthread_create function reported an error.

%HA_EM-7-FMC_REG_CBH_SEND : [chars]: Unable to send response for FH_MSG_CALLBACK_DONE [chars] [dec]

Explanation The registration callback handler was unable to send theFH_MSG_CALLBACK_DONE message to the Embedded Event Manager Server.

Recommended Action The pthread_create function reported an error.

%HA_EM-7-FMC_XDM_DISPATCH_FAIL : [chars]: XOS Dispatch Manager dispatch error: [dec]

Explanation XOS Dispatch Manager reports an error when dispatching an event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMC_XDM_WAIT_FAIL : [chars]: XOS Dispatch Manager wait error: [dec]

Explanation XOS Dispatch Manager reports an error when waiting for an event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_ACTION : [chars]: Error occurred while performing action: [chars].

Explanation The Embedded Event Manager Policy Director failed to perform anaction for the registered event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_ACTION_INFO : [chars]: Error occurred while fetching action information: [dec].

Explanation The Embedded Event Manager Policy Director failed to gather actioninformation registered for the event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_ACTION_NOTRACK : [chars]: unable to set state for tracking object number [int]; object does not exist or is not a stub-object.

Explanation	The Embedded Event Manager applet attempted to set the state of a tracking object that does not exist.
Recommended Action	Only set the state of tracking objects that have already been configured in the system. If the message continues to occur, copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_CHECKSUM_MISMATCH : [chars]: file checksum mismatch

Explanation	The checksum value of an installed policy does not match the value provided by the installation manager.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_CHKPT_INIT : [chars]: could not register the application with the checkpointing server: [chars]

Explanation	Failed to register an application with the checkpointing server.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_CHKPT_ITERATE_END : [chars]: call to chkpt_iterate_end returned unexpected failure.

Explanation	Failed to register an application with the checkpointing server.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_CHKPT_NULL_PTR : [chars]: Got a null [chars] but non-null value was expected

Explanation	Failed to do further processing because we got a null data when a non-null value was expected.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_CHKPT_TBL_ADD : [chars]: could not save a record into a checkpointing table: [chars]

Explanation	Failed to save a record into the given checkpointing table.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_CHKPT_TBL_INFO_READ : [chars]: could not read the existing table information: [chars]

Explanation	Failed to read the existing table information using checkpointing API.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_CHKPT_TBL_INIT : [chars]: failed to initialize [chars]: [chars]

Explanation	Could not initialize a table with the checkpointing server.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_CHKPT_TBL_RECOVER : [chars]: could not recover the checkpointed [chars]: [chars]

Explanation	Failed to recover a checkpointed table.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_CHKPT_TBL_REMOVE : [chars]: could not delete a record from a checkpointing table: [chars]

Explanation	Failed to delete a record from the given checkpointing table.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_CHKPT_TBL_RESET : [chars]: could not reset a record in a checkpointing table: [chars]

Explanation	Failed to reset a record in the given checkpointing table.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_CLI_CONNECT : Unable to establish CLI session: [chars]

Explanation	Unable to establish CLI session.
Recommended Action	

%HA_EM-3-FMPD_CLI_DISCONNECT : Error disconnecting from CLI session: [chars]

Explanation An error occurred while disconnecting from the CLI session.

**Recommended
Action**

%HA_EM-3-FMPD_CLI_NOTTY : Error attempting to access an unopened CLI session: [chars]

Explanation An error occurred attempting to access an unopened CLI session: %s

**Recommended
Action**

%HA_EM-3-FMPD_CLI_READ : Unable to read CLI response: [chars]

Explanation Unable to read CLI response.

**Recommended
Action**

%HA_EM-3-FMPD_CLI_WRITE : Unable to send CLI command: [chars]

Explanation Unable to send CLI command.

**Recommended
Action**

%HA_EM-6-FMPD_CONTEXT_RETRIEVE : Failed to retrieve context for key [chars]: [chars]

Explanation Failed to context retrieve variable information for event.

**Recommended
Action** Ensure context information with the given key is saved. If the message continues to occur, copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-6-FMPD_CONTEXT_SAVE : Failed to save variable context for key [chars]: [chars]

Explanation Failed to context save variable information for event.

**Recommended
Action** Ensure context information with the same key is not already saved. If the message continues to occur, copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_DIRECTORY_NOT_EXIST : User policy directory [chars] could not be found on [chars]

Explanation A policy directory could not be found. Cold start on this location may result in startup configuration failure.

Recommended Action Create the directory on this location.

%HA_EM-6-FMPD_DIVIDE_ZERO : Invalid operand in arithmetic division, cannot divide by zero

Explanation Arithmetic division does not allow divide by zero.

Recommended Action Ensure denominator provided to division action is non-zero.

%HA_EM-4-FMPD_DSIG_TYPE_CHANGE : Cisco Signature not found or invalid. [chars] has been registered as a user policy.

Explanation Cisco Signature not found or invalid.

Recommended Action Sign with Cisco signature.

%HA_EM-6-FMPD_EEM_CONFIG : [chars]: [chars]

Explanation The Embedded Event Manager reports an error on Event Manager configuration

Recommended Action Check the EEM applet or policy configuration

%HA_EM-6-FMPD_EEM_LOG_MSG : [chars]

Explanation The Embedded Event Manager reports errors when registering a TCL policy.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_ERROR : Error executing applet [chars] statement [chars]

Explanation The Embedded Event Manager policy director found an error when processing an applet.

Recommended Action Check syntax of applet statement. If the message continues to occur, copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_EVENT_CREATE : [chars]: failed to create an event: [chars]

Explanation	Failed to create an Embedded Event Manager event.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_EVENT_REG : [chars]: failed to register an event: [chars]

Explanation	Failed to register an Embedded Event Manager event.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_EVENT_TYPE : [chars]: unknown event type [dec]

Explanation	An unknown Embedded Event Manager even type was detected.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_EVM_CREATE : [chars]: could not create event manager: [chars]

Explanation	An internal error was detected when creating Event Manager.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_EVM_EVENT_BLOCK : [chars]: failed to block waiting for Event Manager events: [chars]

Explanation	An internal error was detected when block waiting for Event Manager events.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_EXECUTE_CALLBACK : [chars]: failed to execute callback

Explanation	Failed to execute callback routine.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_FH_INIT : [chars]: could not initialize Embedded Event Manager service: [chars]

Explanation	An internal error was detected when initializing Embedded Event Managerservice.
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%HA_EM-3-FMPD_FH_INIT : [chars]: could not initialize Embedded Event Manager service: [chars]

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_FILE_CLOSE : [chars]: failed to close fd [chars] : [chars]

Explanation Failed to close the given file descriptor due to some internal error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_FILE_DELETE : [chars]: failed to delete file: [chars] : [chars]

Explanation Failed to delete the given file.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_FILE_OPEN : [chars]: failed to open file [chars] : [chars]

Explanation Failed to open the given file due to some internal error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_FILE_READ : [chars]: failed to read from fd [chars] : [chars]

Explanation Failed to read from the given file descriptor due to some internal error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_FILE_WRITE : [chars]: failed to write to fd [chars] : [chars]

Explanation Failed to write to the given file descriptor due to some internal error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_FORMAT_TIME : [chars]: error attempting to format time string

Explanation Format time failure.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_GET_Prio : [chars]: failed to get process priority: [chars]

Explanation	Internal error. A call to get process scheduling priority failed.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_IPC_GET_PAK : [chars]: failed to allocate an IPC buffer

Explanation	Embedded Event Manager failed to allocate a buffer from IPC.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_IPC_PORT_CREATE : [chars]: failed to create an IPC port: [chars]

Explanation	Embedded Event Manager failed to create an IPC port.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_IPC_PORT_OPEN : [chars]: failed to open an IPC port: [chars]

Explanation	Embedded Event Manager failed to open an IPC port.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_IPC_PORT_REGISTER : [chars]: failed to register an IPC port: [chars]

Explanation	Embedded Event Manager failed to register an IPC port.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_IPC_SEND_MSG : [chars]: failed to send an IPC message: [chars]

Explanation	Embedded Event Manager failed to send a message through IPC.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_LAST_POLICY : [chars]: invalid last policy name replied [chars]

Explanation Internal error. The last policy name the script director replied to show fm policy registered command is an invalid policy name.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_MEM_ALLOC : Not enough memory ([dec] bytes)

Explanation Allocating memory failed due to a low-memory condition.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_NO_ACTION : No action configured for applet [chars]

Explanation No action has been configured for this applet.

Recommended Action Configure at least one action for this applet.

%HA_EM-7-FMPD_NO_CLOCK : [chars]: unable to read clock using clock_gettime: [chars]

Explanation The clock_gettime function reported an error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_NOEID : [chars]: No such event id found.

Explanation An internal software error occurred.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_NOESID : [chars]: No such event spec id found.

Explanation The Embedded Event Manager Policy Director could not find the event for the event spec. ID.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_NO_EVENT : No event configured for applet [chars]

Explanation No event has been configured for this applet.**Recommended Action** Configure an event for this applet.

%HA_EM-7-FMPD_NO_MEM : [chars]: not enough memory: [chars]

Explanation Allocating memory failed due to a low-memory condition.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_NO_PROC : [chars]: Failed to create process

Explanation The process create function reports an error**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_NOTAGNAME : [chars]: No tag [chars] found corresponding to this event publish.

Explanation The Embedded Event Manager policy director could not associate the tagname with a published event.**Recommended Action** Only use tagnames in the action info type event reqinfo command which correspond to the published event.

%HA_EM-6-FMPD_OPERAND_INVALID : Invalid operand in action, expected value within range %ld to %ld, received: [chars]

Explanation Arithmetic actions only accept valid long integer values.**Recommended Action** Ensure value provided to action is long integer.

%HA_EM-3-FMPD_OVL_NOTIF_REG : [chars]: could not register for Version Manager notification: [chars]

Explanation An internal error was detected when registering for Version Manager notification.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_OVL_SETUP_ENV : [chars]: [chars]

Explanation	Updating environment variables of the process according to system variables stored in sysdb failed.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_POLICY_APPLY : Could not apply policy '[chars]': [chars]

Explanation	A policy could not be applied. This message signaled an unsuccessful apply of the policy.
Recommended Action	Remove the configuration for the policy (and commit), and then attempt to configure the registration of the same policy.

%HA_EM-6-FMPD_POLICY_CHANGED : [chars]: registered policy [chars] changed by the last installation update

Explanation	A registered policy was changed by the last installation update. If the update used the start option, the old policy was automatically unregistered and the new policy registered. Otherwise, the old policy would remain registered and functional until the user unregisters it manually.
Recommended Action	None.

%HA_EM-4-FMPD_POLICY_CONFIG_INCONSISTENT : Policy '[chars]': [chars]

Explanation	Some policy configuration is potentially inconsistent, and the user should follow the guidelines in the message to amend this.
Recommended Action	Examine the guidelines in the message, and the event manager configuration, to determine the potential problem. Note that this is just a warning message, not an error message, as the configuration is legal - it may be the case that the user has intentionally set this configuration.

%HA_EM-6-FMPD_POLICY_DELETED : [chars]: registered policy [chars] deleted by the last installation update

Explanation	A registered policy was deleted by the last installation update. If the update used the start option, the policy was automatically unregistered. Otherwise, the policy would remain registered and functional until the user unregisters it manually.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_POLICY_HASH : [chars]: The hash computation routine reported an error; [chars]

Explanation	The policy dir checksum function reported the specified error.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_POLICY_NOT_EXIST : Policy file [chars] could not be found on [chars]

Explanation	A policy file could not be found. Cold start on this location may result in startup
Recommended Action	Copy the policy file to this location.

%HA_EM-6-FMPD_POLICY_REG_SUCC : [chars]: Policy '[chars]' registered successfully, by user [chars], with persist time [dec] and type [dec]

Explanation	A new policy has been registered with Embedded Event Manager. This message signaled a successful registration.
Recommended Action	None.

%HA_EM-7-FMPD_POLICY_TBL_REMOVE : [chars]: could not delete a record from a checkpointing table: [chars]

Explanation	Failed to delete a record from the given checkpointing table.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMPD_POLICY_TUPLE_UNPACK : Failed to unpack_tuple to get username (Err: [dec]) for [chars]

Explanation	Failed to unpack sysdb tuple to get the username for the scripts.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_POLICY_UNREG_ERR : [chars]: could not unregister policy [chars]: [chars]

Explanation	A registered policy changed or deleted by the last installation update was detected. Since the update used the start option, the old policy was automatically unregistered. This message signaled an unsuccessful unregistration.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_POLICY_UNREGREG_ERR : [chars]: could not replace policy [chars]: [chars]

Explanation A registered policy changed by the last installation update was detected. Since the update used the start option, the old policy was automatically replaced by the new policy. This message signaled an unsuccessful replacement of the policy.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-6-FMPD_POLICY_UNREGREG_SUCC : [chars]: policy [chars] replaced successfully

Explanation A registered policy changed by the last installation update was detected. Since the update used the start option, the old policy was automatically replaced by the new policy. This message signaled a successful replacement of the policy.

Recommended Action None.

%HA_EM-6-FMPD_POLICY_UNREG_SUCC : [chars]: policy [chars] unregistered successfully

Explanation A registered policy changed or deleted by the last installation update was detected. Since the update used the start option, the old policy was automatically unregistered. This message signaled a successful unregistration.

Recommended Action None.

%HA_EM-3-FMPD_PROCESS_XML : [chars]: error processing xml buffer

Explanation An error occurred processing the event publish information xml buffer.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_QUEUE_INIT : [chars]: could not initialize queue

Explanation An internal error was detected when initializing Embedded Event Managerqueue.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_REFRESHTIMER_INIT : Failed to initialize a refresh timer ([chars]): [chars]

Explanation Failed to initialize a Embedded Event Manager refresh timer.

%HA_EM-7-FMPD_REFRESHTIMER_INIT : Failed to initialize a refresh timer ([chars]): [chars]

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-6-FMPD_REGCOMP : Error compiling regular expression: [chars]

Explanation An error was encountered when compiling the given regular expression.

Recommended Action Check syntax of regular expression pattern. If the message continues to occur, copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_REQINFO : [chars]: Error attempting to fetch event information: [chars].

Explanation The Embedded Event Manager Policy Director failed to receive event infofor a callback.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_SET_INFO : [chars]: Error occurred while fetching variable information: [dec].

Explanation The Embedded Event Manager Policy Director was unable to set thevariable with the requested information.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_SHM_OPEN : [chars]: ERROR opening shared mem IDB

Explanation An internal error was detected when attempting to open the IDB shared memory area

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_SMTP : Error occurred when sending mail to SMTP server: [chars] : [chars]

Explanation An unexpected error occurred when sending mail to SMTP server.

Recommended Action

%HA_EM-3-FMPD_SMTP_SEND : Unable to send notification using all SMTP servers

Explanation An unexpected error occurred when sending mail to all SMTP servers.

%HA_EM-3-FMPD_SMTP_SEND : Unable to send notification using all SMTP servers**Recommended
Action**

%HA_EM-6-FMPD_SNMP_DUP_OID : [chars]: duplicate oid**Explanation** The oid is a duplicate
**Recommended
Action** Check the EEM applet or policy configuration

%HA_EM-6-FMPD_SNMP_NO_VAR : [chars]: No variable [chars]**Explanation** The variable is not defined.
**Recommended
Action** Check the EEM applet or policy configuration

%HA_EM-6-FMPD_SNMP_TRAPVAR_ADD : [chars]: Error adding trapvar to queue [chars]**Explanation** The trap variable was not added to the queue.
**Recommended
Action** Check the EEM applet or policy configuration

%HA_EM-6-FMPD_SNMP_VARS_EXCEEDED : [chars]: number of values exceeded [dec]**Explanation** The number of values per variable exceeded the maximum
**Recommended
Action** Check the EEM applet or policy configuration

%HA_EM-7-FMPD_SWITCH_FAIL : [chars]: The system is unable to switch to standby processor. Switchover cancelled.**Explanation** Switchovers must occur when STANDBY is available and ready.
**Recommended
Action** None Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-6-FMPD_SWITCH_HARDWARE : [chars]: Policy has requested a hardware switchover**Explanation** An Embedded Event Manager policy requested that a hardware switchover occur.

%HA_EM-6-FMPD_SWITCH_HARDWARE : [chars]: Policy has requested a hardware switchover

Recommended Action None

%HA_EM-7-FMPD_SYSDB_VERIFY_REG : Could not register for SysDB verification: [chars]

Explanation An internal error was detected when trying to register verify function and/or apply function for SysDB tuple operations upon the given item within the given namespace.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_THREAD_POOL : [chars]: [chars]

Explanation An internal error was detected while initialization of threadpool.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_UNKNOWN_ENV : [chars]: could not find environment variable: [chars]

Explanation The Embedded Event Manager policy director could not find the environmentvariable specified in the action message.

Recommended Action Only use well known Embedded Event Manager environment variables. If the message continues to occur, copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMPD_UNKNOWNTYPE : [chars]: Unknown event type found in applet.

Explanation The Embedded Event Manager applet had an unknown event type.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-6-FMPD_UPDATE_POLICY_COPY : Policy update has copied [dec] bytes from [chars] to [chars]

Explanation An EEM policy has been copied as a result of an event manager update command

Recommended Action

%HA_EM-6-FMPD_UPDATE_POLICY_REGISTER : Policy update has successfully re-registered policy [chars]

Explanation An EEM policy has been successfully re-registered as a result of an event manager update command

Recommended Action

%HA_EM-6-FMPD_UPDATE_POLICY_REGISTER_FAIL : Policy update has failed to register policy [chars] [chars]

Explanation An EEM policy has failed to be registered as a result of an event manager update command

Recommended Action

%HA_EM-6-FMPD_UPDATE_POLICY_UNREGISTER_FAIL : Policy update has failed to unregister policy [chars] [chars]

Explanation An EEM policy has failed to be unregistered as a result of an event manager update command

Recommended Action

%HA_EM-3-FMPD_WRONGTYPE : [chars]: Published event type does not match event spec.

Explanation The Embedded Event Manager Policy Director detected a mis-match in eventtype between the published event and the event spec.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_XDM_DISPATCH_FAIL : [chars]: XOS Dispatch Manager dispatch error: [dec]

Explanation XOS Dispatch Manager reports an error when dispatching an event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMPD_XDM_WAIT_FAIL : [chars]: XOS Dispatch Manager wait error: [dec]

Explanation XOS Dispatch Manager reports an error when waiting for an event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-ACTION_ADD_PARSER : [chars]: Unable to add action [chars] command;

Explanation Failed to add action command.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-ACTION_CNS_AGENT_UNAVAIL : [chars]: CNS Event Agent not available: [dec]

Explanation The CNS Event Agent is currently not available.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-ACTION_CNS_CLEAR_RESTART : [chars]: Unable to clear restart callback;

Explanation The CNS Action process failed to clear restart callback.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-ACTION_CNS_OPEN_FAIL : [chars]: Unable to open connection to CNS Event Agent: [dec]

Explanation The CNS Action process failed to open CNS handle to Event Agent.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-ACTION_CNS_SET_RESTART : [chars]: Unable to set restart callback;

Explanation The CNS Action process failed to set the restart callback.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-ACTION_ENQUEUE_FAIL : [chars]: Unable to enqueue [chars];

Explanation The enqueue function reported an error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-ACTION_WB_CREATE : [chars]: create_watched_boolean failed: [chars]

Explanation The create_watched_boolean function reported an error trying to create the watched boolean.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-ACTION_WB_DELETE : [chars]: delete_watched_boolean failed: [chars]

Explanation The delete_watched_boolean function reported an error trying to delete the watched boolean.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_ASYNC_ATTACH_CHKPT : [chars]: Failed to attach to handle chkpt asynchronous events; [chars]

Explanation The event_pulse_attach_event function reported an error trying to attach the chkpt pulse handler.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_ASYNC_ATTACH_DEFAULT : [chars]: Failed to attach to handle default asynchronous events; [chars]

Explanation The event_pulse_attach_event function reported an error trying to attach the default pulse handler.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CHKPT_INIT : [chars]: could not register the application with the checkpointing server: [chars]

Explanation Failed to register an application with the checkpointing server.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CHKPT_ITERATE_END : [chars]: call to chkpt_iterate_end returned unexpected failure.

Explanation Unexpected error when iterating over a checkpointing table.

%HA_EM-7-FMS_CHKPT_ITERATE_END : [chars]: call to chkpt_iterate_end returned unexpected failure.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CHKPT_NULL_PTR : [chars]: Got a null [chars] when non-null value was expected

Explanation Failed to do further processing because we got a null data when a non-null value was expected.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CHKPT_TBL_ADD : [chars]: could not add to the checkpointed [chars]: [chars]

Explanation Failed to add a record to the checkpointed table.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CHKPT_TBL_INFO_READ : [chars]: could not read the existing table information: [chars]

Explanation Failed to read the existing table information using checkpointing API.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CHKPT_TBL_INIT : [chars]: failed to initialize [chars]: [chars]

Explanation Could not initialize a table with the checkpointing server.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CHKPT_TBL_RECOVER : [chars]: could not recover for the checkpointed [chars]: [chars]

Explanation Failed to recover a record from the checkpointed table.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CHKPT_TBL_REMOVE : [chars]: could not remove from the checkpointed [chars]: [chars]

Explanation Failed to remove a record from a checkpointed table.

%HA_EM-7-FMS_CHKPT_TBL_REMOVE : [chars]: could not remove from the checkpointed [chars]: [chars]

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CHKPT_TBL_SAVE : [chars]: could not save to the checkpointed [chars]: [chars]

Explanation Failed to save a record to a checkpointed table.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CHKPT_TBL_UNREG : [chars]: could not unregister the checkpointed table [chars]: [chars]

Explanation Failed to unregister a checkpointed table.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMS_CNS_FAIL : [chars]: Failed to perform CNS action: [chars]

Explanation The Embedded Event Manager failed attempting to send a CNS message.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_CREATE_THREAD_POOL : [chars]: Error reported by create_thread_pool function; [chars]

Explanation The create_thread_pool function reported an error while attempting to create the thread pool.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMS_EMPTY_QUEUE : [chars]: The I/O queue empty.

Explanation The I/O queue is empty at this point, and should not be.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMS_ENQUEUE_FAIL : [chars]: The Unable to enqueue packet onto queue.

Explanation The queue is not in a state to handle enqueues.

%HA_EM-3-FMS_ENQUEUE_FAIL : [chars]: The Unable to enqueue packet onto queue.

Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMS_EVM_CREATE : [chars]: event_manager_create failed; [chars]

Explanation	The event_manager_create function reported an error trying to initialize the event manager.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMS_EVM_EVENT_BLOCK : An error occurred while waiting for an event: [chars]

Explanation	The event infrastructure will ignore this error and continue to wait for the next event. If this error is seen repeatedly, the process may not be able to function and will need to be restarted.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMS_FDC_ALLOCATE : [chars]: Failed to allocate Event Detector context control block; [chars]

Explanation	The get_fd function reported an error trying to allocate a Event Detector context control block.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMS_FDC_OPEN : [chars]: Failed to open Event Detector context control block

Explanation	The open_fd function reported an error trying to open a Event Detector context control block.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMS_GET_NODE_NAME : [chars]: platform_get_node_name failed; [chars]

Explanation	The platform_get_node_name function reported an error trying to obtain the node name.
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Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.
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%HA_EM-7-FMS_GET_NODE_STATE : Failed to get the current nodes state: [chars]

Explanation	The call to get the nodes current state failed.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_GET_Prio : [chars]: Failed to get process priority; [chars]

Explanation	The getprio function reported an error trying to obtain the default process priority.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_GUARD_WORD_VER : [chars]: [chars] guard word corrupted; [IPV6 address]

Explanation	The guard word for the specified control block does not contain what is expected.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_INV_ARG_STRING : [chars]: Invalid argument string: [chars]

Explanation	An invalid argument string was passed to the specified function.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_INV_ENV_STRING : [chars]: Invalid environment string: [chars]

Explanation	An invalid environment string was passed to the specified function.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_KILL : [chars]: Unable to kill process [chars]; [chars]

Explanation	The kill function reported an error.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_KILL_RUN : [chars]: Unable to kill run process [dec] for [chars]; [chars]

Explanation	The kill function reported an error.
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%HA_EM-7-FMS_KILL_RUN : [chars]: Unable to kill run process [dec] for [chars]; [chars]

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-6-FMS_LAST_POLICY : [chars]: Cannot change a class [chars] [chars] to priority LAST. LAST is for default policies only

Explanation Embedded Event Manager Scheduler Command can only change a default policy to priority LAST.

Recommended Action The command is applicable to default policies only.

%HA_EM-7-FMS_MALLOC : [chars]: Unable to allocate [chars]; [chars]

Explanation The malloc function reported an error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_MISC_ERR : [chars] ([chars])

Explanation An unexpected error occurred.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-6-FMS_MODIFY_LAST_POLICY : [chars]: Cannot modify a LAST policy to class [chars]. LAST policies are for class default only.

Explanation Embedded Event Manager LAST policy is for default class only.

Recommended Action The command is applicable to default policies only.

%HA_EM-6-FMS_MODIFY_POLICY : [chars]: unable to modify the policy to class [chars]: scheduling rule unavailable.

Explanation There is no scheduler rule configured to service this event class.

Recommended Action Please configure a scheduler rule before modifying the event.

%HA_EM-7-FMS_NO_CLOCK : [chars]: unable to read clock using clock_gettime: [chars]

Explanation The clock_gettime function reported an error.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-4-FMS_NO_SCHED_THREAD : No threads are configured to service event class [chars]

Explanation The Embedded Event Manager has no scheduler threads to service this event class.**Recommended Action** Track ED is not available in this image Configure threads for the event class using the 'event manager scheduler' command.

%HA_EM-3-FMS_NO_TRACK : keyword in the correlate statement is not supported in this image.

Explanation The Embedded Event Manager Track ED is not supported in this image.**Recommended Action** Track ED is not available in this image

%HA_EM-7-FMS_NULL_SCRIPT_NAME : [chars]: The script name is NULL

Explanation An invalid script name was passed as an argument into the specified function.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMS_OPEN : [chars]: Unable to open [chars]; [chars]

Explanation The open function reported an error.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_OVL_NOTIFY_REG : [chars]: ovl_notification_register failed when registering to handle OVL notifications; [chars]

Explanation The ovl_register_notification function reported an error.**Recommended Action** Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_OVL_SETUP_ENV : [chars]: [chars]

Explanation Updating environment variables of the process according to system variables stored in sysdb failed.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMS_POLICY_CHECKSUM : [chars]: Checksum error for policy [chars] - this policy will not be run

Explanation The checksum computed for the specified policy does not match the original checksum computed when the policy was registered.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_POLICY_EXEC : [chars]: Policy execution [chars]

Explanation The Embedded Event Manager policy execution state has been changed to the state named in the message.

Recommended Action

%HA_EM-3-FMS_POLICY_HASH : [chars]: The hash computation routine reported an error; [chars]

Explanation The fh_hash_md5_fd() function reported the specified error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-3-FMS_POLICY_LOOKUP_FAIL : [chars]: Failed to look up in the table the registration specification for policy [chars].

Explanation A table lookup for the registration specification for the policy failed.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_POLICY_MAX_ENTRIES : [chars]: Class [chars]: Maximum number of [dec] [chars] publish entries exceeded; some events have been discarded

Explanation An attempt to publish an event failed because there is no more room in the publish queue

%HA_EM-7-FMS_POLICY_MAX_ENTRIES : [chars]: Class [chars]: Maximum number of [dec] [chars] publish entries exceeded; some events have been discarded

Recommended Action Copy the message exactly as it appears, and report it your technical support representative

%HA_EM-6-FMS_POLICY_TIMEOUT : Policy '[chars]' has hit its maximum execution time of [dec].%9.9ld seconds, and so has been halted

Explanation The policy has exceeded its maximum execution time, and so has been halted part way through execution.If this policy is expected to take a long time to run, it may need to have 'maxrun_sec' added to the policy registration line (or its value increased if it is already specified).

Recommended Action *NONE*

%HA_EM-3-FMS_QUEUE_INIT : [chars]: The Unable to initialize queue.

Explanation The queue cannot be initialized.An attempt to publish an event failed because there is no more room in the publish queue.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_REALLOC_FAIL : [chars]: Unable to reallocate [chars]; [chars]

Explanation The realloc function reported an error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_REG_NODE_STATE_CHANGE : Failed to register for node state changes: [chars]

Explanation The call to register for node state changes failed.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-6-FMS_RELOAD_SYSTEM : [chars]: Policy has requested a system reload;

Explanation An Embedded Event Manager policy requested that the system be reloaded.

Recommended Action

%HA_EM-6-FMS_RUNNING_POLICY : [chars]: cannot [chars] a running policy with jobid [dec].

Explanation Embedded Event Manager Scheduler Command cannot change a running policy.

Recommended Action The command is not applicable to a running policy.

%HA_EM-7-FMS_SPAWN : [chars]: Unable to spawn [chars]; [chars]

Explanation The spawn function reported an error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_STRDUP : [chars]: Failed to duplicate string [chars]; [chars]

Explanation The strdup function reported an error.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_SWITCH_FAIL : [chars]: The system is unable to switch to standby processor. Switchover cancelled.

Explanation Switchovers must occur when STANDBY is available and ready.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-6-FMS_SWITCH_HARDWARE : [chars]: Policy has requested a hardware switchover

Explanation An Embedded Event Manager policy requested that a hardware switchover occur.

Recommended Action

%HA_EM-3-FMS_SWITCH_NOT_RF_ACTIVE : [chars]: This processor is not in ACTIVE state (state = [dec]). Switchover must be performed on ACTIVE processor.

Explanation Switchovers must occur on ACTIVE unit, not STANDBY unit.

Recommended Action

%HA_EM-7-FMS_SYSLOG_SCAN_RESIGN : [chars]: Failed to unload Syslog FD DLL [chars]; return code=[dec]

Explanation	The syslog_scan_resign function reported an error trying to unload the specified Syslog Event Detector DLL library.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_SYSLOG_SCAN_SIGNUP : [chars]: Failed to load Syslog FD DLL [chars]; return code=[dec]

Explanation	The syslog_scan_signup function reported an error trying to load the specified Syslog Event Detector DLL library.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_SYSMGR_RELOAD_FM : [chars]: Failed to load Sysmgr FD DLL [chars]; return code=[dec]

Explanation	The sysmgr_reload_fh_detector function reported an error trying to load the specified Sysmgr Event Detector DLL library.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_THREADPOOL_MAX : Maximum number ([dec]) of callback events exceeded for [chars]; There is no available thread in the threadpool to service the event.

Explanation	An attempt to schedule an event requiring a callback failed because there is no available thread in the threadpool.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_THREAD_POOL_START : [chars]: Error reported by thread_pool_start function; [chars]

Explanation	The thread_pool_start function reported an error while attempting to start the thread pool.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_WB_CREATE : [chars]: create_watched_boolean failed; [chars]

Explanation	The create_watched_boolean function reported an error trying to create the watched boolean.
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%HA_EM-7-FMS_WB_CREATE : [chars]: create_watched_boolean failed; [chars]

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_WDSYSMON_RELOAD_FM : [chars]: Failed to load WDSysMon FD DLL [chars]; return code=[dec]

Explanation The wd_reload_fh_detector function reported an error trying to load the specified WDSysMon Event Detector DLL library.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_WQ_CREATE : [chars]: create_watched_queue failed; [chars]

Explanation The create_watched_queue function reported an error trying to createthe watched queue.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_XDM_DISPATCH_FAIL : [chars]: XOS Dispatch Manager dispatch error: [dec]

Explanation XOS Dispatch Manager reports an error when dispatching an event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_XDM_WAIT_FAIL : [chars]: XOS Dispatch Manager wait error: [dec]

Explanation XOS Dispatch Manager reports an error when waiting for an event.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%HA_EM-7-FMS_XOS_DM_EXECUTE : [chars]: Failed to attach a handler to process child process exit; [chars]

Explanation The xos_dm_execute function reported an error trying to attach the handler to process child process exit.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

HA_PROXY**%HA_PROXY-3-PROXY_IPC_PAK_ALLOC_FAILED :**

Explanation Allocation of IPC packet failed.

Recommended Action LOG_STD_ACTION

%HA_PROXY-2-HA_SESSION_ALLOC_FAILED : [chars]: unable to allocate entry for [chars] binding

Explanation HA could not allocate a control block to manage the service

Recommended Action LOG_STD_ACTION

%HA_PROXY-2-HA_FIND_SERVICE_FAILED : [chars]: unable to find [chars] service

Explanation HA could not find the specified service

Recommended Action LOG_STD_ACTION

%HA_PROXY-3-HA_DUP_SERVICE_NAME : [chars]: Duplicate service name: [chars] on bind

Explanation Duplicate service name on ha service bind

Recommended Action LOG_STD_ACTION

%HA_PROXY-3-HA_DUP_SERVICE_INDEX : [chars]: Duplicate service index: [dec] on bind

Explanation Duplicate service index on ha service bind

Recommended Action LOG_STD_ACTION

%HA_PROXY-3-HA_INVALID_REQUEST : [chars]: Unknown request: [dec]

Explanation HA control services received unknown request

Recommended Action LOG_STD_ACTION

%HA_PROXY-3-HA_MALFORMED_PKT : Malformed packet bad [chars] [hex], MSGDEF_LIMIT_MEDIUM

Explanation	HA Sync packet was malformed, may not have been fully processed
Recommended Action	LOG_STD_ACTION

%HA_PROXY-4-HA_UNKNOWN_SERVICE : Sync msg for unknown service [hex] rg [hex], MSGDEF_LIMIT_MEDIUM

Explanation	HA Sync received a message for an unknown service
Recommended Action	LOG_STD_ACTION

%HA_PROXY-4-HA_PKT_ERROR : Error processing HA sync pkt, rg [hex], MSGDEF_LIMIT_MEDIUM

Explanation	HA Sync packet was dropped while processing
Recommended Action	LOG_STD_ACTION

HDLC

%HDLC-1-ISSU_NOMEMORY : msgtxt_nomemory

Explanation	The requested operation could not be accomplished because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%HDLC-4-ISSU_SENDFAILED : HDLC ISSU: send message failed, rc = [dec]

Explanation	The sending of a message has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HDLC-4-ISSU_INCOMPATIBLE : hdlc-issu-compat: returned FALSE

Explanation	The compatibility checking has failed
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%HDLC-4-ISSU_INCOMPATIBLE : hdlc-issu-compat: returned FALSE

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.
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%HDLC-4-ISSU_XFORM : [chars]: failed, rc=[chars]

Explanation	The transform has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

HFSLIB

%HFSLIB-3-HFSOPEN : Problem accessing the udev generated file: [chars]

Explanation	No explanation.
Recommended Action	No action is required.

%HFSLIB-3-HFSINOFALIED : Inotify failed to initialize : [chars]

Explanation	This error occurs when the inotify sub-system is misbehaving
Recommended Action	No action is required.

%HFSLIB-3-HFSINOWATCH : Inotify failed to add a watch: [chars]

Explanation	This error occurs when the inotify sub-system is misbehaving
Recommended Action	No action is required.

HL_MGR through HW_API

- [HL_MGR](#)
- [HMAN](#)
- [HMAN_CPU](#)
- [HPI](#)
- [HSRP](#)
- [HTSP](#)
- [HTTP](#)
- [HTTTPC](#)
- [HUNTGRP](#)
- [HW_API](#)

HL_MGR

%HL_MGR-3-AP_MAPPING_RESCHEDULE_FAILED : Failed to schedule updating APs mapping for CMX [int].[int].[int].[int], please rejoin CMX to correctly push the Hyperlocation parameters.

Explanation	Hyperlocation was interrupted while updating AP mapping and can not continue.
Recommended Action	Please rejoin CMX.

%HL_MGR-3-NEXTHOP_OUTPUT_INTERFACE_NOT_SVI : CMX [int].[int].[int].[int] is reachable through a routed port with MAC address [hex][hex].[hex][hex].[hex][hex]. This deployment configuration is not supported for Hyperlocation

Explanation	CMX should be reachable via a SVI (VLAN) interface for traffic forwarding to be operational
Recommended Action	Please rejoin CMX.

HMAN

%HMAN-3-CONSOLE_SETUP_FAILED : Failed to setup console service. It should be enabled on [chars]

Explanation	Setup of a console service failed.
Recommended Action	Check the host manager launch parameters and correct as required.

%HMAN-3-HOSTNAME_SET_FAILED : Failed to set hostname: [chars]

Explanation	The host manager received notification that the system hostname has been set. The host manager failed to pass this value to the ASR kernel.
Recommended Action	Repeat the process to configure the hostname. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%HMAN-2-INITIALIZATION_FAILED : Host Manager initialization failed.

Explanation	Initialization of the host manager failed.
Recommended Action	Review Host Manager logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

HMAN_CPU**%HMAN_CPU-3-PAGE_FAULT_HIGH : CPU Usage due to Memory Pressure exceeds threshold on [chars]. Below are the top 5 memory consuming processes: [chars] (PID=[dec] RSS=[dec] MB),**

Explanation	When CPU usage due to Major Page Fault exceeds a pre-defined threshold for a CPU core, this error message is emitted.
Recommended Action	No action is needed if system continues to perform as expected. If system performance deteriorate (and eventually, system reloads due to unspecified reason) around the time when this message is observed, open a case with the Technical Assistance Center via the following Internet link, or contact your Cisco technical support representative: http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl

HPI

%HPI-3-FAILED_START : channel:[chars] DSP ID:[hex], failed mode [dec] for service [dec]

Explanation	Failed to start DSP services
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HPI-3-INVALID_PAYLOAD : wrong payload size, channel:[chars] DSP ID:[hex], failed mode [dec] for service [dec]

Explanation	Failed to start DSP services
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HPI-3-CODEC_NOT_LOADED : channel:[chars] DSP ID:[hex], command failed as codec not loaded [dec]

Explanation	Sending messages to DSP without a loaded codec can result with the DSP failing
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HPI-4-INVALID_CODEC_LOAD : channel:[chars] DSP ID:[hex], invalid hpi mode [dec] for loading codec [dec]

Explanation	Attempt to load codec when the DSP is in an invalid mode which can result with DSP failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HPI-4-NO_CLOSE : channel:[chars] DSP ID:[hex]

Explanation	Attempt to release DSP without sending close message
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%HPI-4-NO_CLOSE : channel:[chars] DSP ID:[hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%HPI-4-INVALID_ECAN_TYPE : [chars] ECAN is not available in voice-card [dec], [chars] ECAN will be used

Explanation	All voice cards participated in DSPFarm must have the same echo canceller type
Recommended Action	Make sure all voice cards participated in DSPFarm have the same echo canceller type configured

%HPI-3-GSMAMRNB_LICENSE_NOT_ACTIVATED :

***** GSM AMR-NB License is not yet activated.
Please configure 'license feature gsmamrnb-codec-pack' and accept the EULA to activate the license.

Explanation	Failed to start DSP services for GSM AMR-NB codec
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HPI-6-SRTP_EVAL_LIMIT : The SRTP bandwidth and tunnels usage exceed the license limits

Explanation	The SRTP bandwidth and tunnels exceed the license limits
Recommended Action	No action is required.

%HPI-3-SRTP_EVAL_FREE_ERROR : Error encountered on release SRTP bandwidth and tunnels reservation

Explanation	Error encountered on release SRTP bandwidth and tunnels
Recommended Action	No action is required.

%HPI-3-NACK_HIGH : DSP to IOS Nack message with severity [chars] [chars] [chars]

Explanation	DSP to IOS Nack message with high severity
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%HPI-3-NACK_HIGH : DSP to IOS Nack message with severity [chars] [chars] [chars]

Recommended Action Check the NACKed message's parameters for configuration errors. These messages tend to affect call flow, thus they are labeled with high severity.

%HPI-4-NACK_MED : DSP to IOS Nack message with severity [chars] [chars] [chars]

Explanation DSP to IOS Nack message with medium severity

Recommended Action Check the NACKed message's parameters for minor configuration errors.

%HPI-6-NACK_LOW : DSP to IOS Nack message with severity [chars] [chars] [chars]

Explanation DSP to IOS Nack message with low severity

Recommended Action Information only, displaying NACKed messages that are for debugging purposes.

%HPI-6-NACK : DSP to IOS Nack message [chars] [chars]

Explanation DSP to IOS Nack message with no severity in order to work with dspware without Nack severity implementation

Recommended Action Information only, displaying NACKed messages.

HSRP

%HSRP-3-NOSOCKET : Unable to open socket

Explanation The system was unable to initialize an IP connection for the Hot Standby protocol.

Recommended Action Make sure that there is at least one interface configured to run IP.

%HSRP-4-BADAUTH : Bad authentication from [chars], group [dec], remote state [chars]

Explanation Two routers participating in HSRP disagree on the valid authentication string.

Recommended Action Use the standby authentication command to repair the HSRP authentication discrepancy between the local system and the one whose IP address is reported.

%HSRP-4-BADAUTH2 : Bad authentication from [chars]

Explanation	Two routers participating in HSRP disagree on the valid authentication string.
Recommended Action	Use the standby authentication command to repair the HSRP authentication discrepancy between the local system and the one whose IP address is reported.

%HSRP-3-MISCONFIG : Attempt to change [chars] MAC address to [enet] when DECNET already running

Explanation	An HSRP group attempted to become active on an interface that can only support a single MAC address and which is running DECnet. If standby use-bia is not configured then HSRP would normally set the interface MAC address to the HSRP virtual MAC address, but this is not allowed if DECnet is running.
Recommended Action	Enable standby use-bia on the interface.

%HSRP-5-STATECHANGE : [chars] Grp [dec] state [chars] -> [chars]

Explanation	The router has changed state
Recommended Action	No action is required.

%HSRP-4-DUPADDR : Duplicate address [chars] on [chars], sourced by [enet]

Explanation	The IP address in an HSRP message received on the specified interface is the same as the IP address of the router. Another router might be configured with the same IP address. The most likely cause is a network loop or a misconfigured switch that is causing the router to see its own HSRP Hello messages.
Recommended Action	Check the configurations on all the HSRP routers to ensure that the interface IP addresses are unique. Check that no network loops exist. If port channels are configured check that the switch is correctly configured for port-channels. Enable standby use-bia so that the error message displays the interface MAC address of the sending router. This can be used to determine if the error message is caused by a misconfigured router or a network loop.

%HSRP-4-DUPVIP1 : [chars] Grp [dec] address [chars] is already assigned to [chars] group [dec]

Explanation	The HSRP virtual IP address contained in the Hello message cannot be learnt as it is already assigned to a different HSRP group.
Recommended Action	Check the configuration on all HSRP routers and ensure that the virtual IP address of each HSRP group is unique.

%HSRP-4-DUPVIP2 : [chars] Grp [dec] address [chars] is already assigned on this interface

Explanation	The HSRP virtual IP address contained in the Hello message cannot be learnt as it is already assigned to this interface.
Recommended Action	Check the configuration on all HSRP routers and ensure that the virtual IP address of each HSRP group is unique.

%HSRP-4-DUPVIP3 : [chars] Grp [dec] address [chars] is already assigned to, or overlaps with, an address on another interface or application

Explanation	The HSRP virtual IP address contained in the Hello message cannot be learnt as it is already assigned to, or overlaps with, an address on another interface or application.
Recommended Action	Check the configuration on all HSRP routers and ensure that the virtual IP address of each HSRP group is unique.

%HSRP-4-BADVIP : [chars] Grp [dec] address [chars] is in the wrong subnet for this interface

Explanation	The HSRP virtual IP address contained in the Hello message cannot be learnt as it is not within a subnet configured on the interface.
Recommended Action	Check the configuration on all HSRP routers and ensure that the virtual IP address is within a configured subnet.

%HSRP-4-DIFFVIP1 : [chars] Grp [dec] active routers virtual IP address [chars] is different to the locally configured address [chars]

Explanation	The HSRP virtual IP address contained in the Hello message from the Active router is different from the virtual IP address configured locally.
Recommended Action	Check the configuration on all HSRP routers in the group and ensure they are all configured with the same virtual IP address.

HTSP

%HTSP-3-NOEVENT : no free event structure available from [chars] for DSP message

Explanation	There were no event structures remaining in the system pools to alert the router of a voice or signaling event.
Recommended Action	Check that the voice port for which the event was reported is still operational. If not, clear the voice port.

%HTSP-3-CAPABILITYMISMATCH : voice port [chars]: call connection id [[hex] [hex] [hex] [hex]]

Explanation	There was a capabilities mismatch between the two call legs. capabilities are negotiated between call legs for CODEC, VAD and FAX rate.
Recommended Action	Check that the dial peer configuration is appropriate for the interface in question. Also check that and configuration on the interface is correct.

%HTSP-3-DSPALARM : voice port [chars]: status=[hex] message=[hex] text=[chars]

Explanation	The DSP reported a fatal error. All calls on the DSP were dropped and a DSP reload was attempted.
Recommended Action	Verify that the DSP reloaded properly by attempting to place a call on the affected voice port. Contact your technical support representative, include the full text of the error message.

%HTSP-3-TRUNKNOTSUPPORTED : voice port [chars]: Ground Start trunking not supported

Explanation	This voice port does not support the 'connection trunk' command when ground start signaling is configured. Trunking mode on this voice is supported when using loop start signaling.
Recommended Action	Shut down the voice port, remove the 'connection trunk' and/or 'signal groundStart' command from the voice port configuration, and unshut the voice port.

%HTSP-5-UPDOWN : Trunk port(channel) [[chars]] is [chars]

Explanation	Trunk port:channel changed state.
Recommended Action	No action is required.

%HTSP-3-CADENCENOTSUPPORTED : voice port [chars]: ring cadence not suitable for caller id. on_time_first=[dec] off_time_first=[dec] on_time_second=[dec] off_time_second=[dec]

Explanation	Ring off period is not sufficient for caller id transmission. If caller id transmission during ring is configured make sure that the ring off duration is long enough.
Recommended Action	If caller id transmission during ring is configured make sure that the ring off duration is long enough. Make sure that the cptone setting and caller-id alerting settings are correct.

%HTSP-5-VPM_BUSYOUT : voice port [chars]: [chars] busyout

Explanation	voice port busyout status changed
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%HTSP-5-VPM_BUSYOUT : voice port [chars]: [chars] busyout

Recommended Action	use SHOW VOICE BUSYOUT to find out the reason why voice port busyout monitoring is triggered
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%HTSP-5-VPM_PCM_CAPTURE : User trigger PCM capture is [chars] on voice port [chars]

Explanation	User trigger PCM capture is enabled or disable on this voice port
Recommended Action	This is just for information only

%HTSP-5-VPM_CABLE_STAT : voice port [chars]: cable [chars]

Explanation	Cable for analog voice port is reconnected or removed
Recommended Action	Check the cable connection for this analog voice port

HTTP

%HTTP-3-PROC_NOCREAT : Unable to create HTTP process.

Explanation	An error occurred during initialization of the HTTP process. The HTTP process that processes all HTTP requests and responses could not be created.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%HTTP-4-SERVER_CONN_RATE_EXCEED : Number of connections per minute has exceeded the maximum limit([dec]) as specified by the platform.

Explanation	The message indicates that the current number of connections requested per minute has exceeded the limit specified by the platform. HTTP server will resume accepting the connections 15 seconds from the time the message is issued. This restriction is done as per the HTTP throttling functionality.
Recommended Action	Reduce connection rate to the server.

%HTTP-3-OUTOF_MEM : HTTP out of memory.

Explanation	An error occurred during initialization of the HTTP process. The HTTP process could not create crucial internal data structures that are required for operation of the HTTP subsystem. The most likely reason for this condition is an exhaustion of system memory.
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%HTTP-3-OUTOF_MEM : HTTP out of memory.

Recommended Action Reduce other system activity to ease memory demands. if conditions warrant, upgrade to a larger memory configuration.

%HTTP-3-INIT_FAIL : HTTP Process Init failed.

Explanation Initialization of the HTTP Subsystem has failed

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%HTTP-6-SERVER_SETUP_FAILED : Server setup failed

Explanation Setup of the HTTP(S) server to listen on the specified port number has failed.

Recommended Action Disable the server, verify that port number is correct and enable the server. Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

HTTPC

%HTTPC-3-PROC_NOCREAT : Unable to create HTTP Client process.

Explanation

Recommended Action

%HTTPC-3-OUTOF_MEM : HTTP Client out of memory.

Explanation

Recommended Action

%HTTPC-3-CACHE_MEM : HTTP Client Cache Init out of memory.

Explanation

Recommended Action

%HTTTPC-3-INIT_FAIL : HTTP Client Process Init failed.

Explanation

**Recommended
Action**

%HTTTPC-3-OUTOF_SYNC : HTTP Client header tables out of sync.

Explanation

**Recommended
Action**

%HTTTPC-6-CONNECT_FAILED : The connection to server [IP_address] failed

Explanation

**Recommended
Action**

%HTTTPC-3-RECEIVE SOCK_READ_EVENT_WHILE_DISABLED : Received socket read event while read interest is disabled callID([dec]) fd([dec]) - closing socket.

Explanation The HTTP Client is receiving the socket READ event while the READ interest is being disabled. Something has gone wrong between the http client and the socket interfaced.

**Recommended
Action** Record the error and report it to the system administrator.

%HTTTPC-3-CONNECT_NULL : NULL connection structure for fd([dec]) - closing socket.

Explanation The HTTP Client is receiving the socket READ event but it fails to locate the connection structure for this file descriptor(fd). If this is seen continuously in a loop, it is an indication that something has gone wrong in the socket code. Since the socket is immediately closed after this event, the HTTP client should stop seeing READ event.

**Recommended
Action** Record the error and traceback and report it to the system administrator.

%HTTTPC-6-REQUEST_FAILED : request URI [chars] failed

Explanation

**Recommended
Action**

%HTTPC-6-CLOSE_SRV_CONNECT : The connection to server [IP_address] appears to be hung and will be closed.

Explanation	Messages are being backed up in the HTTP Client's write queue in the connection with the specified server. The connection is assumed to have gone bad and the HTTP Client is closing the connection.
Recommended Action	Check with the specified server for possible connection error.

%HTTPC-3-COOKIE_MEM : HTTP Client runs out of allowable memory to store cookies.

Explanation	The total memory allocated for storing cookies has run out. All cookies received from the HTTP server will be dropped. Users may no longer be able to interact with a session-based origin server until memory is freed up.
Recommended Action	Users may want to try their requests at a later time or contact the system administrator to increase the maximum RAM allowed for saving HTTP cookies.

HUNTGRP

%HUNTGRP-3-INVALID_URL : Could not open the file provided in URL: <[chars]>

Explanation	URL path provided can't be accessed. This usually indicates that path provided is invalid but may also be because the the path doesn't allow anonymous access to create files or open it in write mode
Recommended Action	Check that the url path provided is valid

%HUNTGRP-3-WRITE_FAIL : Could not write data to the URL: <[chars]>t %bytes written=[dec] out of [dec]

Explanation	Write attempt to the url path provided was unsuccessful. This usually indicates that the file was successfully opened with write and append permissions but writing all the content from buffer or may be some of it to the file failed.
Recommended Action	

HW_API

%HW_API-3-RESILIENCE_NO_HANDLER : No handlers in place for [chars] sw object creation failure.

Explanation	COMMON_HW_API_INTERNAL_ERROR
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%HW_API-3-RESILIENCE_NO_HANDLER : No handlers in place for [chars] sw object creation failure.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%HW_API-3-INVALID_OBJ : Invalid object [hex]

Explanation	HW_API_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_API-3-INVALID_TYPE : Invalid type [dec]

Explanation	HW_API_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_API-3-INVALID_WALK_SPEC : Invalid walk spec [hex]

Explanation	HW_API_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_API-3-WALK_MODE_UNSUPPORTED : Walk mode '[chars]' unsupported

Explanation	HW_API_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_API-3-INVALID_CONTEXT : Invalid context [hex]

Explanation	HW_API_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_API-3-BACKWALK_REQUEST : Backwalk request failed, [chars]

Explanation	A request to walk internal data structures has failed. Depending on criticality of the data, accuracy of forwarding may impacted.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_API-3-BACKWALK_REQUEST_VALUE : Backwalk request failed, [chars] ([hex])

Explanation	A request to walk internal data structures has failed. Depending on criticality of the data, accuracy of forwarding may impacted.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_API-3-VECTOR : Failed to set [chars] vector for [chars], [chars]

Explanation	HW_API_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_API-3-NO_OBJ_TYPE_LIST_ENTRY : Invalid sw_obj_type ([dec]) used with obj_type_list

Explanation	HW_API_INTERNAL_ERROR
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%HW_API-3-NO_OBJ_TYPE_LIST_ENTRY : Invalid sw_obj_type ([dec]) used with obj_type_list

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%HW_API-3-NO_OBJ_TYPE_LIST_ENTRY2 : Invalid sw_obj_link_type ([dec]) used with obj_type_list

Explanation	HW_API_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_API-3-INIT_FAIL : HW-API init [chars] failed[chars]

Explanation	HW_API_INTERNAL_ERROR
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

HW_FLOWDB through IF

- [HW_FLOWDB](#)
- [HW_IDPROM_ENVMON](#)
- [HW_PFU](#)
- [ICC](#)
- [IDBMAN](#)
- [IDB_IDENTITY](#)
- [IDB_SGI](#)
- [IDMGR](#)
- [IEDGE](#)
- [IF](#)

HW_FLOWDB

%HW_FLOWDB-3-HW_FLOWDB_OOM : FlowDB memory usage exceeded 95[int]sage. OOM condition can occur.

Explanation FlowDB running low on memory. Out-of-memory condition can occur

Recommended Action Check sw-distrib for actual utilization of FlowDB memory

HW_IDPROM_ENVMON

%HW_IDPROM_ENVMON-3-HW_IDPROM_FIELD_INVALID : The idprom contains an invalid environmental monitoring field.

Explanation If this error occurs then parsing of the environmental monitoring data is aborted. Environmental monitoring will be either incomplete or absent entirely.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_IDPROM_ENVMON-3-HW_IDPROM_CHECKSUM_INVALID : The idprom contains an invalid checksum in a sensor entry. Expected: [hex], calculated: [hex]

Explanation If this error occurs then parsing of the environmental monitoring data is aborted. Environmental monitoring will be either incomplete or absent entirely.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_IDPROM_ENVMON-2-ACT2_UDI_DATA_INVALID : The act2 udi secure area format mismatch with unsecure area

Explanation This Router may not have been manufactured by Cisco or with Cisco's authorization. This product may contain software that was copied in violation of Cisco's license terms. If your use of this product is the cause of a support issue, Cisco may deny operation of the product, support under your warranty or under a Cisco technical support program such as Smartnet. Please contact Cisco's Technical Assistance Center for more information.

%HW_IDPROM_ENVMON-2-ACT2_UDI_DATA_INVALID : The act2 udi secure area format mismatch with unsecure area

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_IDPROM_ENVMON-3-PS_IDPROM_INVALID_PID : [chars] in slot PFU[dec] has INVALID PID [chars] and it needs to be replaced immediately

Explanation The PID read from the PEM IDPROM is not supported in this hardware configuration. It will be allowed to continue but immediate replacement is required

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

HW_PFU

%HW_PFU-3-PFU_IDPROM_READ_ERR : Could not read the PEM/FM idprom in slot P[dec].The system will run without environmental monitoring for this component

Explanation The idprom contains information required in order to properly operate the environmental monitoring subsystems. The idprom could not be read, therefore no monitoring will take place.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_PFU-3-PFU_IDPROM_CORRUPT : The PEM/FM idprom could be read, but is corrupt in slot P[dec] The system will run without environmental monitoring for this component

Explanation The idprom contains information required in order to properly operate the environmental monitoring subsystems. The idprom could not be read, therefore no monitoring will take place.

%HW_PFU-3-PFU_IDPROM_CORRUPT : The PEM/FM idprom could be read, but is corrupt in slot P[dec] The system will run without environmental monitoring for this component

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%HW_PFU-3-PFU_IDPROM_INVALID_PID : The PEM/FM idprom has invalid PID in slot PFU[dec] The system will run without environmental monitoring for this component

Explanation The idprom contains PID information required in order to properly operate the environmental monitoring subsystems. The idprom PID is invalid, therefore no monitoring will take place.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

ICC

%ICC-2-NOMEM : No memory available for [chars]

Explanation The ICC subsystem could not obtain the memory it needed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ICC-4-CONSISTENCY : Internal consistency check: [chars]

Explanation An internal inconsistency was found in some ICC data structures.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ICC-4-COMM : Communication failure occurred while [chars]

Explanation**Recommended
Action**

%ICC-4-BAD_ACCOUNTING : ICC received a bad class [dec]

Explanation A communication failure has occurred between this card and another card in the system.**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ICC-4-HEARTBEAT : Card [dec] failed to respond to heartbeat

Explanation A communication failure has occurred between the primary and the specified line card.**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ICC-5-WATERMARK : [dec] [chars] [chars] pkts for class [chars] are waiting to be processed

Explanation Processor got packets for the class and are waiting to be processed**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ICC-2-OPEN : ICC Create Session Failed for card <[hex]> Queue <[chars]>

Explanation ICC was not able to create a session for the destination seat

%ICC-2-OPEN : ICC Create Session Failed for card <[hex]> Queue <[chars]>

Recommended Action collect output from 'show oir debug swover_global_mask' from SP

%ICC-2-JOIN : ICC mcast joining failed member <[hex]> to group <[hex]> with ipc error <[chars]>

Explanation ICC was not able to join a member for the mcast group

Recommended Action collect output 'show icc mcast status' from RP

%ICC-5-HUGE_BUFFER : Class [[chars]] with Request id [dec] requested a huge buffer of Size [dec].

Explanation Huge packet requests would deplete the memory at the linecards

Recommended Action ICC client is trying to request huge packet buffer Please use the command Show icc internal to get the traceback and file a DDTs against the component

%ICC-3-MAST_BAD_FREE : ICC multicast memory already freed

Explanation One of the ICC multicast request's memory was found to be free when response arrived

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

IDBMAN

%IDBMAN-3-VLANINUSE : [chars]: Vlan [dec] is in use by [chars]

Explanation Each L3 interface has a Vlan associated with it. This message indicates that the Vlan associated with the interface is being used by some other L3 Interface, which is not anticipated to happen

Recommended Action No action is required.

%IDBMAN-3-INVALIDVLAN : [chars]: trying to use invalid Vlan [dec]

Explanation There is an internal error that caused an invalid Vlan to be used by the software.

%IDBMAN-3-INVALIDVLAN : [chars]: trying to use invalid Vlan [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IDBMAN-3-VLANNOTSET : [chars]: Vlan [dec] not set since it already has Vlan [dec]

Explanation There is an internal error that caused an interface to not have its Vlan set to the requested value

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IDBMAN-6-VLANMAPPED : Vlan [dec] is mapped to [chars]

Explanation Informational message indicating that the given Vlan is mapped to the given interface

Recommended Action	No action is required.
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%IDBMAN-3-AGGPORTMISMATCH : [chars]([dec] / [dec]) does match internal slot/port state [chars]([dec] / [dec])

Explanation There is an internal error that caused an invalid aggregate port to be used by the software.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IDBMAN-3-INVALIDAGGPORTBANDWIDTH : [chars]([dec] / [dec]) has an invalid bandwidth value of [dec]

Explanation There is an internal error that caused an invalid bandwidth to be used for an aggregate port.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IDBMAN-3-DELETEDAGGPORT : [chars]([dec] / [dec]) Group [dec] has been deleted, but is being reused.

Explanation	There is an internal error that caused an interface that has been deleted to be reused for a new aggregate port.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDBMAN-3-NOTANAGGPORT : [chars]([dec] / [dec]) is not an aggregate port

Explanation	There is an internal error that caused an interface that is not an aggregate port to be used for aggregate port operations
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDBMAN-3-INVALIDPORT : [chars]: trying to use invalid port number [dec] (Max [dec])

Explanation	There is an internal error that caused an invalid port number to be used by the software.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDBMAN-4-ACTIVEPORTSINAGGPORT : [chars]([dec]/[dec]) has [dec] active ports, but is being removed

Explanation	There is an internal error that caused an aggregate port with active ports to be removed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDBMAN-3-PORTNOTINAGGPORT : [chars]([dec] / [dec]) is not present in Aggport [chars]([dec] / [dec])

Explanation	There is an internal error that caused an invalid port to be referred to be part of an aggregate port.
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%IDBMAN-3-PORTNOTINAGGPORT : [chars]([dec] / [dec]) is not present in Aggport [chars]([dec] / [dec])

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IDBMAN-4-REMOVED_NONDEFAULT_CONFIG : Removed non default configuration for interfaces in [chars]

Explanation	In SSO mode, the non-default configuration for any removed linecard is not synced to the standby during the bulk sync, and it is removed from the configuration to avoid a config mismatch between active and standby supervisors.
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Recommended Action	No action is required.
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%IDBMAN-3-IIF_ID_REGISTRATION_FAILED : IIF_ID registration failed for Port [chars] due to memory allocation failure. Port has been shutdown

Explanation	The system is low on memory due to which IIF-ID registration failed. This results in failure to apply polices such as QoS and Security acls on this port.
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Recommended Action	LOG_STD_REDUCE_ACTION Once memory is available, run 'no shutdown' on the port.
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IDB_IDENTITY

%IDB_IDENTITY-3-MALLOC : Memory allocation failure for HWIDB type [dec]

Explanation	A memory allocation failure occurred when trying to allocate the identity for this HWIDB. This HWIDB will not be allocated an IF Index which will prevent it from being used for forwarding data.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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IDB_SGI

%IDB_SGI-2-XDRREG : [chars]

Explanation	An internal software error occurred.
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%IDB_SGI-2-XDRREG : [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IDB_SGI-2-MEMREQ : [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDB_SGI-3-BADPTR : [chars] of interface with ifindex [int] is invalid

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDB_SGI-3-MEMFAIL : [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDB_SGI-4-MEMBERREQ : member request failure for interface with ifindex [int] returned err - [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDB_SGI-3-XDRREQ : [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDB_SGI-4-INTERR : [chars] for interface with ifindex [int]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDB_SGI-4-UNEXPINP : [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IDMGR

%IDMGR-3-MALLOC_FAILURE : [chars]

Explanation	A malloc failure occurred in ID Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDMGR-3-INTERRUPT : [chars]

Explanation	An id_get attempted at interrupt level.
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%IDMGR-3-INTERRUPT : [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IDMGR-3-INVALID_ID : bad id in [chars] (id: [hex])

Explanation	An ID Manager error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDMGR-3-INVALID_ID_TABLE_SIZE : bad new ID table size

Explanation	A bad new table request to ID Manager occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IDMGR-3-ID_MANAGER_INTERNAL_ERROR : [chars]

Explanation	Internal Error occurred with ID Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IEDGE

%IEDGE-4-PBHK_DEPLETED_INDICES : No more portbundles can be allocated

Explanation	The source interfaces configured for Portbundle Hostkey feature are not sufficient and the number of portbundles available are all used up. Add more source interfaces in the configuration.
Recommended Action	Check configuration on the ISG

%IEDGE-4-TC_UNDEFINED_ACL : Traffic class ACL [chars] is not defined, creating permit all ACL

Explanation The ACL specified for classification of traffic is not configured on the ISG. Creating a permit all ACL. ACL should be configured on the ISG.

Recommended Action Configure the ACL on the ISG

%IEDGE-4-CLOCK_CHANGE_TIMER_INV : A Local clock change has caused a running timer to be invalid

Explanation A change in local clock has made a currently running timer to be invalid

Recommended Action Check the clock configuration

%IEDGE-3-CH_INTERNAL_ERROR : Internal error in command processing - session handle=[hex]

Explanation There has been an internal error relating to CoA command processing.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%IEDGE-3-CH_REGISTER_ERROR : CoA registration error in command processing - type '[chars]'

Explanation There has been an internal error relating to CoA command processing.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

IF

%IF-3-IDB_LIST_BAD_REF_COUNT : A bad reference count was encountered in an idb list element.

Explanation A software error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%IF-2-IDB_TABLE_INIT : Malloc failed while initializing idb table

Explanation

Recommended Action

%IF-3-BAD_MTU : Internal error. MTU on [chars] too large or negative. Truncating from %ld to [int].

Explanation	An internal software error occurred. The system attempted to set the MTU on an interface to an invalid value.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%IF-3-BADLOCK : Invalid lock use for [chars]: [chars][chars]

Explanation	Application layer code attempted to access an unlocked interface.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IF-3-BADHWUNLOCK : ([chars]) attempted to unlock [chars] ([dec]). Locked by [chars] ([dec]).

Explanation	Attempt to release semaphore held by another process.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IF-3-SEMAHOG : ([chars]) could not get [chars] semaphore. Held by ([chars]).

Explanation	Unable to obtain interface semaphore.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IF-4-BACKWARD_COUNTERS : Corrected for backward [chars] counters ([int] -> [int]) on [chars]

Explanation	The interface specified in the message has a packet counter that has decreased in number. This condition can occur if a packet is counted and then dropped. This event was detected and corrected.
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%IF-4-BACKWARD_COUNTERS : Corrected for backward [chars] counters ([int] -> [int]) on [chars]

Recommended Action	If this condition persists, copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support command to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the show tech-support command output, contact your Cisco technical support representative and provide the representative with the gathered information.
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%IF-3-BADMACADDRTYPE : illegal mac address type, [dec]

Explanation	This is an internal error that was recovered gracefully.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IF-4-NOBGPROCESS : Network background process not running. [chars]

Explanation	A process which manages network interface background processing is not yet running, but another system process has tried to send the process a message.
Recommended Action	An interface on the router may have missed a request to bring itself up. If that happens, it may be necessary to reset the interface using a shutdown operation and then a no shutdown .

IFDAMP through INFRA

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IFDAMP**%IFDAMP-5-UPDOWN : interface [chars] update [chars] state to [chars], interface is [chars]suppressed**

Explanation dampening interface changed state.

Recommended Action No action is required.

%IFDAMP-5-ZERODELAY : dampening reuse timer is updated with 0 delay time

Explanation Inconsistency of dampening reuse timer wheel

Recommended Action No action is required.

IFMAP**%IFMAP-3-CAUSE_CFG : hash table not initialized**

Explanation PAL interface handle to uidb hash table not initialized

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

IFMGR**%IFMGR-3-IFINDEX_PERSIST_ENTRY_CORRUPT : [chars] seems to be corrupted. Trying to read [dec] size**

Explanation The ifIndex-table seems to be corrupted.

Recommended Action Delete the ifindex-table.

%IFMGR-3-INVALID_PERSISTENT_DATA : Invalid persistent data

Explanation Trying to write invalid persistent data

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%IFMGR-3-NOVECTOR : Interface manager failed to allocate IF vector. size [dec]

Explanation The interface vector was not able to be allocated with the number of elements required--initially or resize (see size in the error message).

Recommended Action TBD

%IFMGR-3-VECTOREXD : IF manager attempted to use interface [dec] outside vector range.

Explanation This message indicates that an interface with too large of an ifIndex value was attempted to be added to the IF-MGR DB.

Recommended Action Additional IF-MGR warning and/or error messages should accompany indication of this error. These additional messages should provide more details on the effected interface.

%IFMGR-3-VECTORPOSUSED : IF manager attempted to add interface [dec] which was already added.

Explanation This message comes from the IF-MGR DB when it is trying to add an ifIndex value for this interface which already exists in the ifIndex DB.

Recommended Action TBD

%IFMGR-4-VECTORIFSUSPECT : IF manager added interface [dec] which is unexpectedly large.

Explanation The ifIndex allocation scheme gives out sequential ifIndex values. This message comes from the IF-MGR DB when it is trying to add an ifIndex value much larger than the former greatest ifIndex value in the DB.

Recommended Action TBD

%IFMGR-3-IFDB : IF manager interface database [chars] failure- [dec]

Explanation

Recommended Action TBD

%IFMGR-3-IFTDB : IF manager interface table database [chars] failure- [dec]

Explanation

Recommended Action TBD

%IFMGR-3-NOTYPEVECTOR : Interface manager failed to allocate IF type vector. size [dec]

Explanation The interface type vector was not able to be allocated with the number of elements required--initially or resize.

Recommended Action TBD

%IFMGR-3-NOIMACP : IF manager control process failed to start

Explanation

Recommended Action TBD

%IFMGR-4-NOIFINDEX : All SNMP if indices are exhausted

Explanation All SNMP MIB indices have been exhausted. Interfaces will not be able to obtain an interface index that they can use to register with the interface MIB.

Recommended Action Attempt a system reload. If the problem persists after the system reload, copy the message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

%IFMGR-3-BADIFINDEXTABLE : The file nvram:ifIndex-table is corrupt.

Explanation The file is not in the expected format.

Recommended Action If possible, please delete the file.

%IFMGR-4-NOSYNC : ifIndex not being synced between active and standby

Explanation When the standby comes up, then the tuple of ifIndex and ifDescr is synced so that when interfaces comes up they get the same ifIndex. This error happens when the interface doesn't get the ifIndex for the given ifDescr

Recommended Action Inform the technical support to raise the ddts

%IFMGR-5-RESTART : [chars]

Explanation The IF MGR process has restarted

%IFMGR-5-RESTART : [chars]

Recommended Action This is an informational message. The system should recover on its own.

%IFMGR-4-STACK_RELATIONSHIP_ADD_ERROR : [chars]: Request for creating invalid stack relationship [dec], [dec]

Explanation The IF MGR received the call to add invalid stack relationship. The higher and lower ifIndex are shown in the message. The module of the IF MGR from where this message is generated is also shown in the message

Recommended Action Inform the technical support to raise the ddts

%IFMGR-3-DUP_IFINDEX : Duplicate ifIndex ([dec]) found for ifDescr [chars]; exists in ifTable for ifDescr [chars].

Explanation Interfaces have same ifIndex in IF-MGR assigned list. The 2nd interface registered with IF-MGR will be assigned with new index

Recommended Action 1. No Action, if ifIndex persist is not required. 2. Reload the standby RP, if ERR msg only seen in standby RP 3. Reload the router with the proper ifindex-table and image

%IFMGR-7-NO_IFINDEX_FILE : Unable to open [chars] [chars]

Explanation This is a informational message. This means system found no saved ifIndex information, and ifIndex is not persisted across reboots. The ifIndices will be reassigned.

Recommended Action 1. No Action, if 'snmp-server ifIndex persist' is not configured. 2. If 'snmp-server ifindex persist' is configured then copy the error message exactly as it appears, and report it to your technical support representative.

IFS

%IFS-4-FILEMAX : Failed to open [chars], maximum open files [dec]

Explanation The router has reached the maximum number of files that may be open at one time.

Recommended Action Close some files and try again. If this messages recurs, contact your technical support representative.

%IFS-3-FSMAX : Failed to add [chars], maximum filesystems [dec]

Explanation The router has reached the maximum number of file systems that can be supported at one time.

%IFS-3-FSMAX : Failed to add [chars], maximum filesystems [dec]

Recommended Action Contact your technical support representative.

%IFS-3-FSDUP : Failed to add [chars], filesystem prefix exists

Explanation A file system could not be added because another file system exists with the same name.

Recommended Action Contact your technical support representative.

%IFS-3-FS_CREATE_FAIL : Failed to create [chars] file system, [chars]

Explanation An internal software error occurred.

Recommended Action Call your technical support representative for assistance.

%IFS-3-FS_CREATE_FAIL2 : Failed to create [chars] simple file system, [chars]

Explanation An internal software error occurred.

Recommended Action Call your technical support representative for assistance.

%IFS-3-FS_MISSING_FUNCTIONS : '[chars]' file system missing required functions, not created

Explanation Some file systems require a certain set of function to be present in order to be usable. This file system does not support all the mandatory functionality.

Recommended Action Call your technical support representative for assistance.

%IFS-3-FS_STRUCT_ERROR : Data does not match expected internal representation

Explanation A mismatch exists between the representation of data extracted from the filesystem and the expectation of its formatting. This may occur when running in a dual-RP environment, with different IOS versions running on the two RPs.

Recommended Action Ensure both RPs are running the IOS same version, if running in a dual-RP environment. If not, call your technical support representative for assistance.

IKEV2

%IKEV2-5-OSAL_INITIATE_TUNNEL : NULL

Explanation**Recommended
Action**

%IKEV2-5-RECV_CONNECTION_REQUEST : NULL

Explanation**Recommended
Action**

%IKEV2-3-NEG_ABORT : NULL

Explanation**Recommended
Action**

%IKEV2-1-SEND_COOKIE_CHALLENGE : NULL

Explanation**Recommended
Action**

%IKEV2-5-IPSEC_COLLISION : NULL

Explanation**Recommended
Action**

%IKEV2-5-SA_UP : NULL

Explanation**Recommended
Action**

%IKEV2-5-SA_DOWN : NULL

Explanation**Recommended
Action**

%IKEV2-5-SA_REJECTED_RESOURCE_LOW : NULL

Explanation**Recommended
Action**

%IKEV2-5-SA_REJECTED_LIMIT_REACHED : [chars]

Explanation**Recommended
Action**

%IKEV2-5-INCREASE_PEER_WINDOW_SIZE : NULL

Explanation**Recommended
Action**

ILPOWER

%ILPOWER-3-ILPOWER_INTERNAL_IF_ERROR : Inline Power internal error, interface [chars]: [chars]

Explanation A software check failed during Power over Ethernet (PoE) processing.**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ILPOWER-5-ILPOWER_POWER_DENY : Interface [chars]: inline power denied. Reason: [chars]

Explanation There is not enough power remaining in the switch to supply to the Power over Ethernet (PoE) port.

%ILPOWER-5-ILPOWER_POWER_DENY : Interface [chars]: inline power denied. Reason: [chars]

Recommended Action No action is required.

%ILPOWER-5-ILPOWER_POWER_CDP_SHUT : Interface [chars]: inline power shut

Explanation Inline power is shut because cdp consumption power on this Power over Ethernet (PoE) port is greater than 1. allocation power or 2. hardware interface limit or 3. user configured max power or 4. available power on this switch.

Recommended Action No action is required.

%ILPOWER-3-CONTROLLER_ERR : Controller error, Controller number [dec]: [chars]

Explanation An error reported or caused by the Power over Ethernet (PoE) controller is detected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ILPOWER-3-CONTROLLER_POST_ERR : Inline Power Feature is disabled on this switch because Power On Self Test (POST) failed on this switch. Please consult TECH support for further assistance

Explanation An error reported or caused by the Power over Ethernet (PoE) controller is detected during POST.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ILPOWER-3-CONTROLLER_IF_ERR : Controller interface error, [chars]: [chars]

Explanation An interface error is detected between the Power over Ethernet (PoE) controller and system.

%ILPOWER-3-CONTROLLER_IF_ERR : Controller interface error, [chars]: [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ILPOWER-3-CONTROLLER_PORT_ERR : Controller port error, Interface [chars]: [chars]

Explanation A port error reported by the Power over Ethernet (PoE) controller is detected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ILPOWER-5-POWER_GRANTED : Interface [chars]: Power granted

Explanation There is enough power available in the switch, and the switch is providing power on the interface.

Recommended Action No action is required.

%ILPOWER-5-LINKDOWN_DISCONNECT : Interface [chars]: Link down disconnect

Explanation The powered device is no longer connected to the switch, or the connected powered device is being powered by an external AC power source. The switch is no longer providing power on the interface.

Recommended Action No action is required.

%ILPOWER-5-IEEE_DISCONNECT : Interface [chars]: PD removed

Explanation The powered device is no longer connected to the switch, or the connected powered device is being powered by an external AC power source. The switch is no longer providing power on the interface.

Recommended Action No action is required.

%ILPOWER-5-DETECT : Interface [chars]: Power Device detected: [chars]

Explanation The switch has detected the attached power device.

Recommended Action No action is required.

%ILPOWER-5-INVALID_IEEE_CLASS : Interface [chars]: has detected invalid IEEE class: [dec] device. Power denied

Explanation The power device has invalid IEEE class. switch won't powerup the device

Recommended Action No action is required.

%ILPOWER-3-SHUT_OVERDRAWN : Interface [chars] is shutdown as it is consuming more than the maximum configured power ([dec]) milliwatts.

Explanation Interface is shutdown because it is consuming more than the maximum configured power

Recommended Action Make sure correct power is budgeted for this interface based on the power device electrical specifications or ratings. It is recommended to change the police cutoff power to a higher value to keep the device powered on

%ILPOWER-4-LOG_OVERDRAWN : Interface [chars] is overdrawing power. it is consuming [dec] milliwatts where as maximum configured power is ([dec]) milliwatts.

Explanation

Recommended Action Make sure correct power is budgeted for this interface based on the power device electrical specifications or ratings. Otherwise you might risk overloading the switch. It is recommended to change the police cutoffpower appropriately if needed

%ILPOWER-5-CLR_OVERDRAWN : Interface [chars] is NOT overdrawing power. it is consuming [dec] milliwatts where as maximum configured value is ([dec]) milliwatts.

Explanation

Recommended Action No action is required.

%ILPOWER-5-POLICE_POWER_INVALID : Interface [chars]: invalid power police [dec] milliwatts current [dec] mA voltage [dec] mV

Explanation	power policing current or voltage value is invalid.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ILPOWER-5-SENSE_POWER_INVALID : Interface [chars]: invalid power sense [dec] milliwatts current [dec] mA voltage [dec] mV

Explanation	power sensing current or voltage value is invalid.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ILPOWER-4-ILPOWER_POWER_SUPPLY : PoE Power Supply [chars]: [chars]

Explanation	The power supply for PoE is OIR
Recommended Action	Make sure power supply to PoE input is inserted after removal

%ILPOWER-4-ILPOWER_PS_ABSENCE : PoE module Power Supply not present Inline Power Feature is disabled on [chars] because Power On Self Test (POST) failed : [chars]

Explanation	The power supply for PoE expansion module is not present or not inserted properly or faulty
Recommended Action	Make sure power supply to expansion module is inserted properly and reload the switch with PoE power supply present

%ILPOWER-4-WARNING : Power-over-Ethernet is disabled on this switch PoE functionality requires a power input of 44 to 57 Volts DC

Explanation	The power supply voltage is NOT in range (44 V-57 V) to support PoE/PoE+
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%ILPOWER-4-WARNING : Power-over-Ethernet is disabled on this switch PoE functionality requires a power input of 44 to 57 Volts DC

Recommended Action Make sure the power supply Voltage is in range (44 V-57 V) if intend to use PoE/PoE+

%ILPOWER-5-PWRGOOD_SPARE_PAIR : Interface [chars]: spare pair power good

Explanation Spare pair power request was successful and power is available on spare pair

Recommended Action No action is required.

%ILPOWER-5-TSTART_SPARE_PAIR : Interface [chars]: spare pair power error: TSTART

Explanation spare pair tstart error has occurred, power on spare pair will not be supplied

Recommended Action No action is required.

%ILPOWER-5-PGOOD_TIMEOUT_SPARE_PAIR : Interface [chars]: spare pair power good timeout error

Explanation spare pair power good timeout error has occurred, power on spare pair will not be supplied

Recommended Action No action is required.

%ILPOWER-5-DET_SHORT_SPARE_PAIR : Interface [chars]: spare pair short detected

Explanation spare pair short detect error has occurred, power on spare pair will not be supplied

Recommended Action No action is required.

%ILPOWER-5-DET_TIMEOUT_SPARE_PAIR : Interface [chars]: spare pair detect timeout

Explanation spare pair timeout detect error has occurred, power on spare pair will not be supplied

Recommended Action No action is required.

%ILPOWER-6-SET_ILPOWER : Set power allocated to POE to [dec] for slot [dec]

Explanation The power allocated to POE has changed

%ILPOWER-6-SET_ILPOWER : Set power allocated to POE to [dec] for slot [dec]

Recommended Action No action is required.

%ILPOWER-5-SINGLE_PAIRSET_FAULT : Interface [chars]: shutting down [chars] pairset due to [chars] fault

Explanation The dual signature PD on this port has hit a critical fault on one pairset and hence that pairset will be shutdown

Recommended Action No action is required.

%ILPOWER-5-LLDP_SHUTDOWN : Interface [chars]: PD requested shutdown for [dec] sec via LLDP MDI TLV

Explanation Inline power is removed because PD requested shutdown via LLDP MDI TLV

Recommended Action No action is required.

%ILPOWER-5-IMAX_SPARE_PAIR : Interface [chars]: spare pair power error: IMAX

Explanation spare pair imax error has occurred, power on spare pair will not be supplied

Recommended Action No action is required.

IM

%IM-0-UIPEER_CREATE : Failed to create user interface peer.

Explanation The system failed to create a user interface peer.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%IM-2-INITIALIZATION_FAILED :

Explanation Initialization of IOx Manager process failed.

Recommended Action Review ioxman logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.

%IM-0-EVENT_LIBRARY :

Explanation	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%IM-2-INVALID_ACT_MSG : Virtualization Service[chars]

Explanation	The virtualization service activate message was received, however, the data it contained could not be interpreted
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-INVALID_DEACT_MSG : Failed to process virtualization service deactivate message

Explanation	The virtualization service deactivate message was received, however, the data it contained could not be interpreted
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-ALLOC_VIRT_INST_RCS : Virtualization Service[chars]

Explanation	A memory allocation request failed to allocate a data structure required to activate the virtualization service.
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-START_FAILED : Virtualization Service[chars]

Explanation	The named virtualization service failed to start.
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-VIRT_INST_MEMORY : Virtualization Service[chars]

Explanation	The virtualization service requires physical memory in excess of the free memory available to virtualization services.
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-VIRT_INST_DISK : Virtualization Service[chars]

Explanation	The virtualization service requires Disk Storage in excess of the Free Disk Storage available to virtualization services.
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-MEMORY_LIMIT : Virtualization Service[chars]

Explanation	The virtualization service machine definition file is requesting more memory than the system has available for virtualization services.
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-VCPU_LIMIT : Virtualization Service[chars]

Explanation	The virtualization service machine definition file is requesting more VCPUs than the system has reserved for virtualization services.
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-DISK_IMAGE_PATH : Virtualization Service[chars]

Explanation	The virtualization service machine definition file contains an invalid disk image path for one of the disk devices. This may be a Harddisk, CDROM or USB storage device.
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-VIRT_INST_LOG_UNTHROTTLE : Failed to unthrottle the log for virtualization service [chars]

Explanation	The named virtualization service had sent overwhelming sys log messages and its log had been throttled as a result, but system has failed to unthrottle it for some reason.
Recommended Action	For debugging collect the iox-manager logs and scan them for the cause.

%IM-2-VIRT_INST_STATE : Virtualization Service[chars]

Explanation	The named virtualization service has failed. It is no longer running either because the guest OS has failed, the guest OS has shut down the machine or the emulator has failed.
Recommended Action	An attempt at restarting the virtualization service can be made from the IOS configuration by doing a no activate/activate. For debugging collect the IOx-manager logs and scan them for the cause.

%IM-2-FIND_VIRT_INST_ENTRY : Failed to find virtualization service with id [int] in the IOx-manager list

Explanation	The virtualization service with the ID named could not be located in the IOx-manager list.
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-5-AUX : Virtualization Service[chars]

Explanation	The AUX login to a virtualization service may allow the user access to system functions that may not have been tested or may interact with the system in unintended ways. Use with caution.
Recommended Action	No action is required

%IM-2-INVALID_UNPROV_MSG : Failed to process virtualization service unprovision message

Explanation	The virtualization service unprovision message was received, however, the data it contained could not be interpreted
Recommended Action	Enable the IOx-manager trace logs and repeat the activation followed by deactivation and then unprovision of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-VCPU_INVALID : Virtualization Service[chars]

Explanation	The virtualization service machine definition file is requesting invalid VCPU value.
Recommended Action	Enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-CPUSHARES_LIMIT : Virtualization Service[chars]

Explanation The virtualization service machine definition file is requesting more CPU shares than the system has available for virtualization services.

Recommended Action Deactivate any other virtualization services to free up CPU share resources and activate this virtualization service. If that does not address the problem, then enable the IOx-manager trace logs and repeat the activation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-INSTALL_FAILURE : Virtualization Service[chars]

Explanation The installation of the virtualization service failed.

Recommended Action Enable the IOx-manager trace logs and repeat the installation of the virtualization service. Collect the IOx-manager logs and scan them for the cause.

%IM-2-INSTALL_MEDIA_RETRY : VM install media still unavailable.[chars]

Explanation The install media was not detected. Waiting for udev to complete install media(harddisk) detection.

Recommended Action After IOx-manager exceeds the maximum retry limit, verify if install media (harddisk) is accessible and retry the installation again.

%IM-2-VIRT_INST_MGMT_INTERFACE : Virtualization service [chars] has no management interface defined but it is configured in CLI.

Explanation A management interface is configured but none is defined.

Recommended Action Deactivate the virtualization service, remove the management interface configuration CLI, and reactivate the virtual-service.

%IM-2-GENERAL_FAILURE : Virtualization Service[chars]

Explanation The named virtualization service has triggered the log. Please interpret the log in the context of the virtualization services.

Recommended Action No action is required

%IM-3-SDWRAP_ERR : Description: [chars], errcode: [dec]

Explanation Debug infrastructure error

Recommended Action Collect the IOx-manager logs and scan them for the cause.

%IM-3-PSS_ERR : Purpose: [chars], URI: [chars], errcode: [dec]

Explanation	Persistent Storage Service handling error
Recommended Action	Collect the IOx-manager logs and scan them for the cause.

%IM-3-PSS_SNAPSHOT_ERR : Source URI: [chars], Destination URI: [chars], errcode: [dec]

Explanation	Persistent Storage Service snapshot error
Recommended Action	Collect the IOx-manager logs and scan them for the cause.

%IM-2-NETWORK_CONFIG_ERROR : Virtualization Service[chars]

Explanation	A network configuration error has been detected for the named virtualization service.
Recommended Action	No action is required

%IM-2-INSTALL_LOG : [chars] [chars] [chars] [chars]

Explanation	The installation log of the named virtualization service, is to provide more information about long running operation, that could affect the control of CLI
Recommended Action	No action is required

%IM-2-UPGRADE_LOG : [chars] [chars] [chars] [chars]

Explanation	The upgrade log of the named virtualization service, is to provide more information about long running operation, that could affect the control of CLI
Recommended Action	No action is required

%IM-2-INSTALL_STATE : [chars] '[chars]'[chars] [chars]

Explanation	The installation state of the named virtualization service has changed as notified by IOx-manager.
Recommended Action	In the failed case, check IOx-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.

%IM-2-UNINSTALL_ALL_VMS : All Virtualization Services are being uninstalled [chars][chars] [chars]

Explanation	All virtualization services are being uninstalled by IOx-manager.
Recommended Action	Examine the reason given as to why all virtualization services are being uninstalled for more information. If the reason indicated is due to some error condition, check IOx-manager's logs for the cause of the failure.

%IM-2-ACTIVATION_STATE : [chars] '[chars]' [chars] [chars]

Explanation	The activation state of the named virtualization service has changed as notified by IOx-manager.
Recommended Action	In the failed case, check IOx-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.

%IM-4-WATCHDOG_TIMER : [chars] '[chars]' [chars] [chars]

Explanation	The watchdog timer configured for the named virtual service has expired.
Recommended Action	Check any logs produced by the virtualization service to determine the cause.

%IM-2-HA_SYNC_ERR : [chars] '[chars]' [chars]

Explanation	The ha-sync persistent storage disk for the virtualization service cannot be watched for sync to standby RP.
Recommended Action	Collect the IOx-manager logs and scan them for the cause.

%IM-2-DEACT_FOR_ISSU : [chars] Max ([int]s)

Explanation	An ISSU event is pending. Any active VMs will be automatically deactivated to allow ISSU preprocessing to validate the environment. Any ISSU-deactivated VMs will be automatically restarted if the ISSU is cancelled.
Recommended Action	None. Allow the ISSU to continue and the VMs will restart when the ISSU completes or cancel the ISSU and IOx-manager will automatically

%IM-2-RESET_FORCE : Virtualization Services non-recoverable reset command processed

Explanation	A 'virtualization service reset force' command has been entered and processed. This action initiates a cleanup of last resort. Occasionally a VM will get into an unrecoverable state that prevents it from activating but also from uninstalling. This is a rare event but when it happens the only resort may be to remove the .conf control file and reboot, which forces a cleanup of all previously installed VM files and artifacts. Note that once this command is used, current VMs are considered to be in an unstable or unpredictable state, and all future install, uninstall, upgrade, and activation commands will be blocked.
Recommended Action	Once the command is entered and accepted, there is no recourse but to restart the system.

%IM-2-MOVE_STATE : [chars] '[chars]' [chars] [chars]

Explanation	The move of the core or log file of the named virtualization service has as been successful or failed as notified by IOx-manager.
Recommended Action	In the failed case, check IOx-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.

%IM-2-RSYNC_STATE : [chars] [chars] [chars] [chars]

Explanation	IOx-manager tries to remote sync the virtual-instance configuration file and the OVA repository to all online nodes. If rsync fails even after consecutive retries, this notification would be raised.
Recommended Action	In the failed case, check IOx-manager's logs for the cause of the failure. Check for the rsync error code and root cause the same.

%IM-2-HA_SYNC_THREAD_STATE : HA remote synchronize thread has failed and exited.

Explanation	IOx-manager tries to remote sync the OVA repository to all online nodes using a separate thread. If that thread fails, this notification would be raised.
Recommended Action	In the failed case, check IOx-manager's logs for the cause of the failure. Check for the pthread error msg and root cause the same.

%IM-2-HA_STATE : [chars] [chars] [chars] [chars]

Explanation	IOx-manager tries to detect the role/slot of various nodes on HA events from the platform. If any of those event callbacks fail, this notification would be raised.
Recommended Action	In the failed case, check IOx-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.

%IM-2-HA_SWITCHOVER_STATE : [chars] [chars] [chars] [chars]

Explanation	IOx-manager HA switchover state related messages for a virtual-service whilst it is being recovered on newly active RP after a HA switchover.
Recommended Action	In the failed case, check IOx-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.

%IM-4-HA_SYNC_NEEDED : If using the guest shell, please use 'guestshell sync' if you want to preserve state on standby in case of supervisor switchover

Explanation	Message notifying user that he needs to manually synchronize the Virtualization service contents to standby supervisor in order to preserve these contents in case of a supervisor switchover. Currently only applicable to the guest shell
Recommended Action	User can type the 'guestshell sync' command on active supervisor to synchronize it's contents to the standby supervisor if desired.

%IM-2-RESIZE_OPER_STATE : Virtualization service '[chars]' [chars][chars] to '[int]' [chars]

Explanation	IOx-manager attempts to resize various VM parameters like rootfs size, CPU share, memory if requested by user. Success/failure status messages for these resize operations are communicated by this syslog.
Recommended Action	In the failed case, check IOx-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.

%IM-2-GUESTSHELL_ENABLED : The guest shell has been enabled. The command '[chars]' may be used to access it, '[chars] destroy' to remove it.

Explanation	Informs the user that the guest shell virtualization service has been enabled (which is done by default).
Recommended Action	The user may use or remove the guest shell with the commands specified.

%IM-5-PERMISSION_DENIED : Virtualization Service '[chars]' is not owned by client IOSd

Explanation	An attempt was made to modify a virtual-service that is not owned by the client. The request was rejected.
Recommended Action	No action is required.

%IM-2-IOX_INST_CRIT : IOX SERVICE [chars] LOG: [chars]

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

%IM-3-IOX_INST_ERR : IOX SERVICE [chars] LOG: [chars]

Explanation The named IOX service has triggered the log. Please interpret the log in the context of the IOX services.

Recommended Action No action is required

%IM-4-IOX_INST_WARN : IOX SERVICE [chars] LOG: [chars]

Explanation The named IOX service has triggered the log. Please interpret the log in the context of the IOX services.

Recommended Action No action is required

%IM-5-IOX_INST_NOTICE : IOX SERVICE [chars] LOG: [chars]

Explanation The named IOX service has triggered the log. Please interpret the log in the context of the IOX services.

Recommended Action No action is required

%IM-6-IOX_INST_INFO : IOX SERVICE [chars] LOG: [chars]

Explanation The named IOX service has triggered the log. Please interpret the log in the context of the IOX services.

Recommended Action No action is required

%IM-7-IOX_INST_DEBUG : IOX SERVICE [chars] LOG: [chars]

Explanation The named IOX service has triggered the log. Please interpret the log in the context of the IOX services.

Recommended Action No action is required

%IM-2-IOX_INST_LOG_UNTHROTTLE : Failed to unthrottle the log for IOX service [chars]

Explanation The named IOX service had sent overwhelming sys log messages and its log had been throttled as a result, but system has failed to unthrottle it for some reason.

Recommended Action For debugging collect the ioxman logs and scan them for the cause.

%IM-6-IOX_RECONCILE_INFO : App-hosting application reconcile process [chars]

Explanation Indicates stage of reconcile (application recovery) process.

Recommended Action No action is required

%IM-6-IOX_START_INFO : [chars] cannot be started because it is not installed

Explanation Indicates starting an app before installation.

Recommended Action No action is required

%IM-6-IOX_START_SUCCESS : [chars] is in RUNNING state

Explanation Indicates starting an app after installation.

Recommended Action No action is required

%IM-6-IOX_START_FAIL : [chars] failed to start

Explanation Indicates starting an app after installation.

Recommended Action No action is required

%IM-6-START_MSG : app-hosting: [chars]

Explanation Message for starting an app.

Recommended Action In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.

%IM-6-INSTALL_MSG : app-hosting: [chars]

Explanation	Message for installing an app.
Recommended Action	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.

%IM-6-ACTIVATE_MSG : app-hosting: [chars]

Explanation	Message for activating an app.
Recommended Action	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.

%IM-6-DEACTIVATE_MSG : app-hosting: [chars]

Explanation	Message for deactivating an app.
Recommended Action	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.

%IM-2-IOX_ENABLEMENT : IOX is ready.

Explanation	Message for IOX enablement.
Recommended Action	No action is required

%IM-6-UPGRADE_MSG : app-hosting: [chars]

Explanation	Message for upgrading an app.
Recommended Action	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.

%IM-6-VERIFICATION_MSG : app-hosting: [chars]

Explanation	Message for signature verification
Recommended Action	In the failed case, check Ioxman's trace log for the cause of the failure. In the successful case, this notification can be ignored.

IMGR**%IMGR-0-FIPS_FMFP_BYPASS_TEST : NIST bypass test failed for [chars].**

Explanation	Forwarding Manager IPsec component detected a discrepancy when adding or deleting a security sensitive object. This could be due to a hardware or software resource limitation or a software defect.
Recommended Action	Check the logs for information on the relevant object download states. Remove the object or a parent object in question. If the problem persists reboot the forwarding processor (ESP).

%IMGR-6-FIPS_FMFP_CRNG_TEST : continuous [chars]approved RNG test failed.

Explanation	Forwarding Manager IPsec component detected two identical random number sequences. This could be due to a hardware malfunction or a software defect.
Recommended Action	If the problem persists reboot the forwarding processor (ESP).

%IMGR-6-FIPS_FMFP_OLAP_TEST : FIPS-approved RNG key seed and state overlap.

Explanation	Forwarding Manager IPsec component detected an overlap in FIPS-approved RNG key seed and state. This could be due to a hardware malfunction or a software defect.
Recommended Action	If the problem persists reboot the forwarding processor (ESP).

%IMGR-6-FIPS_FMFP_KAT_TEST : power up cryptographic self-test did not run to completion: [chars].

Explanation	Forwarding Manager power up known answer self-test (KAT) failed. This could be due to a hardware malfunction or a software defect.
Recommended Action	If using ipsec, reboot the forwarding processor (ESP).

%IMGR-0-FIPS_CPP_CLIENT_BYPASS_TEST : CPP Client FIPS bypass test failed for [chars].

Explanation	Forwarding Manager CPP client IPSEC bypass test failed. This could be due to a hardware malfunction or a software defect.
Recommended Action	If the problem persists reboot the forwarding processor (ESP).

%IMGR-6-FIPS_FMFP_N2_ERR_FAIL : Cryptographic coprocessor non-critical failure: [chars].

Explanation Cryptographic coprocessor non-critical operation failed. If the problem persists reboot the forwarding processor(ESP)

Recommended Action If the problem persists reboot the forwarding processor (ESP).

%IMGR-0-FIPS_FMFP_N2_SEVERE_ERR_FAIL : Cryptographic coprocessor severe failure: [chars].

Explanation Cryptographic coprocessor critical operation failed. Further data processing on ESP is halted

Recommended Action forwarding processor (ESP) is rebooted automatically. no action needed

%IMGR-6-FMFP_KAT_TEST_RESULT : crypto self-test for algorithm: ([chars] ... passed).

Explanation Forwarding Manager power up known answer self-test (KAT) success. This is not an error message

Recommended Action No action needed.

%IMGR-6-FMFP_IPSEC_MIN_MTU_INFO : MTU smaller than minimum IPsec MTU, [chars].

Explanation Minimum MTU supported by crypto processor is 256B, MTU lower than 256B is set to 256B

Recommended Action No action needed

%IMGR-6-FMFP_IPSEC_UNSUPPORTED_CIPHER : Cipher [chars] is not supported on this ESP.

Explanation This ESP does not support this IPsec cipher

Recommended Action No action needed

%IMGR-6-FMFP_IPSEC_CRYPTO_CTRL_THROTTLED : IPsec Control Plane Overload Crypto Device: [chars].

Explanation This ESP crypto device is overloaded.

Recommended Action May need to config platform ipsec control-plane medium|heavy

%IMGR-6-FMFP_CRYPTO_DEVICE_BUSY : All Crypto Device cores are busy with data packets.

Explanation	All ESP crypto device are busy.
Recommended Action	May need to lower crypto traffic rate.

INDXOBJ**%INDXOBJ-3-INTERRUPT : index object routine [chars] called from interrupt context**

Explanation	inappropriate index object routine called from interrupt routine.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INDXOBJ-3-ADD_ERROR : index add for [chars] failed: [chars]

Explanation	index object routine error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

INFRA**%INFRA-3-INVALID_GPM_ACCESS : Invalid GPM [chars] at [hex] HAL start [hex] HAL end [hex] INFRA start [hex] INFRA [hex] NET [hex], MSGDEF_LIMIT_MEDIUM**

Explanation	Processing packet went beyond valid packet data, packet was possibly invalid, ppe info and encrypted pkt dump follow
Recommended Action	LOG_STD_ACTION

%INFRA-3-INVALID_GPM_ACCESS_INFO : [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation	Registers associated with previous exception error
Recommended Action	LOG_STD_ACTION

%INFRA-3-INVALID_GPM_ACCESS_DATA :

Explanation	Packet associated with previous exception error The packet data has been encrypted
Recommended Action	LOG_STD_ACTION

INSTALL through IOSXE_ETHERCHAN

- [INSTALL](#)
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- [IOSXE_CXSC](#)
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INSTALL

%INSTALL-5-OPERATION_START_INFO : Started [chars] package [chars]

Explanation	This message is used to indicate the beginning of operations.
Recommended Action	No action required. This is not an error, it is an indication that the system is starting the operation.

%INSTALL-5-OPERATION_COMPLETED_INFO : Completed [chars] package [chars]

Explanation	This message is used to indicate the completion of operations.
Recommended Action	No action required. This is not an error, it is an indication that the system completed the operation.

%INSTALL-3-OPERATION_ERROR_MESSAGE : Failed to [chars] package [chars], Error: [chars]

Explanation	This message is used to inform the failure reason.
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%INSTALL-3-OPERATION_ERROR_MESSAGE : Failed to [chars] package [chars], Error: [chars]

Recommended Action Please refer to the error message to analyze the cause of failure.

%INSTALL-5-INSTALL_START_INFO : Started [chars] [chars] [chars]

Explanation This message is used to indicate the beginning of install operations.

Recommended Action No action required. This is not an error, it is an indication that the system is starting this operation.

%INSTALL-5-INSTALL_COMPLETED_INFO : Completed [chars] [chars] [chars]

Explanation This message is used to indicate the completion of install operations.

Recommended Action No action required. This is not an error, it is an indication that the system completed this operation.

%INSTALL-3-INSTANT_ERROR_MESSAGE : Error Message: [chars]

Explanation This message is used to send a instant error message.

Recommended Action No action required.

%INSTALL-5-INSTALL_AUTO_ABORT : Install auto abort timer expired: initiating abort

Explanation An install operation has been aborted because the auto abort timer has expired.

Recommended Action No user action is needed. If you want to commit the ISSU upgrade, redo the upgrade. Otherwise, this is an informational message only.

%INSTALL-5-INSTALL_AUTO_ABORT_TIMER_PROGRESS : Install auto abort timer will expire in [dec] seconds

Explanation An install operation will be aborted after specified seconds of time.

Recommended Action No user action is needed. If you want to commit the ISSU upgrade, redo the upgrade. Otherwise, this is an informational message only.

INTERCHASSIS_REDUNDANCY**%INTERCHASSIS_REDUNDANCY-4-STDBY_PRESENT : Removal of standby RP in location [chars] is recommended for inter-chassis redundancy configuration**

Explanation	Removal of standby RP from the chassis is recommended for inter-chassis redundancy
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

INTERFACE_API**%INTERFACE_API-4-BADSWIDB : [chars] may not be referencing the correct swidb**

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-4-BADPAKINPUT : pak->if_input is not initialized

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-1-NAMESTRTOOLONG : Interface name [chars],[int] exceeded maximum allowed length [dec]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-3-NOADDSUBBLOCK : The [chars] subblock named [chars] was not added to [chars]

Explanation A software error has occurred, this message is displayed when IDB subblocks cannot be added.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-3-INVALIDSUBBLOCKPARAMETERS : Invalid subblock parameters for [chars] were supplied.

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the show idb and show tech-support commands to gather data that may help identify the nature of the error. Also perform a search of the Bug Toolkit BUG_TOOLKIT . If you still require assistance, open a case with the Technical Assistance Center via the Internet TAC_CASE_OPEN , or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-3-SUBNUMDBERR : subnum [hex] error in [chars]

Explanation A software error has occurred, this message is displayed when a problem has occurred with a sub_number db.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-1-NOMORESUIDB : No more SUIDB can be allocated, maximum allowed [dec]

Explanation No more Interfaces can be created because the maximum number of SUIDB allowed for this platform has been reached

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-1-NOMORE_HASWIDBS : No more IDBS can be created. The maximum allowed numbers, [int], has been reached on Standby Please force redundancy mode to RPR if full Active Capacity, [int], is needed

Explanation No more Software IDB numbers can be Created. The maximum allowed numbers has been reached for this High Available System.

Recommended Action

%INTERFACE_API-1-NOMOREHWIDBNUMBERS : No more hardware IDB numbers can be issued. The maximum allowed numbers, [dec], has been reached for this platform.

Explanation No more hardware IDB numbers can be issued. The maximum allowed numbers has been reached for this platform.

Recommended Action In addition to the following, copy the information from `show idb`.
LOG_STD_ACTION

%INTERFACE_API-1-NOMORESUIDBNUMBERS : No more software IDB numbers can be issued. The maximum allowed numbers, [dec], has been reached for this platform.

Explanation No more software IDB numbers can be issued. The maximum allowed numbers has been reached for this platform.

Recommended Action In addition to the following, copy the information from `show idb`.
LOG_STD_ACTION

%INTERFACE_API-4-BADPAKOUTPUT : pak->if_output is not initialized on interface [chars]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-4-BADPOINTER : Function [chars] detected an invalid [chars] pointer of %08IX, ignoring

Explanation A software error has occurred, this message is displayed when an invalid pointer is detected.

%INTERFACE_API-4-BADPOINTER : Function [chars] detected an invalid [chars] pointer of %08IX, ignoring

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%INTERFACE_API-3-NODESTROYSUBBLOCK : The [chars] subblock named [chars] was not removed

Explanation	A software error has occurred, this message is displayed when IDB subblocks cannot be removed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-3-CANNOTGETMTU : Error [dec] received while getting MTU: [chars]. Using default [int]

Explanation	A software error has occurred while attempting to retrieve the MTU value from the interface.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-3-NOSUBBLOCK : [chars] subblock does not exist on interface [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-4-TBLERROR : A error occurred while using the Index Table utility for [chars].

Explanation	A software error has occurred; this message is displayed when an Index table feature could not be used successfully.
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%INTERFACE_API-4-TBLERROR : A error occurred while using the Index Table utility for [chars].

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%INTERFACE_API-3-BADIDBSTATUSCHANGECALL : Invalid function call at interrupt level.

Explanation	An internal function was illegally called at interrupt level. This error might be caused by incorrectly coded creation or deletion of an interface, or during an OIR operation.
Recommended Action	Perform a search of the Bug Toolkit, BUG_TOOLKIT . If you still require assistance, copy the error message exactly as it appears on the console or in the system log. Issue the show tech command and copy the output. If you performed any actions before the error message appeared, make a note of this. Open a case with the Technical Assistance Center via the Internet TAC_CASE_OPEN , or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-3-IFNUMTOIDBERROR : Error occurred while using the ifnum to idb table for interface [chars], if number [dec], during [chars]

Explanation	A software error has occurred. This message is displayed when an operation on the if_number to idb mapping table could not be performed successfully.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%INTERFACE_API-3-HWIDBQREENTRANT : [chars] in progress of being inserted/removed, ignoring new request to [chars]

Explanation	A software error has occurred while attempting to insert or remove the interface into the system as there's already another attempt in progress to insert or remove this interface. The first attempt must complete before a new attempt can be started. The user should retry this operation at a later time.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOMD_INFRA**%IOMD_INFRA-4-BADPOINTER : Function [chars] detected an invalid [chars] pointer of %08IX, ignoring**

Explanation	A software error has occurred, this message is displayed when an invalid pointer is detected.
Recommended Action	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOMD_INFRA-3-IPCFSENDFAIL : IOMD failed to send a message [chars] reason: [chars]

Explanation	IOMD failed to send message to the RP
Recommended Action	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOMD_INFRA-3-IPCALLOCFAIL : Failed to allocate IPC buffer [chars]

Explanation	The IM failed to allocate a buffer for communication with RSP
Recommended Action	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOMD_INFRA-6-TDLMSG_INCOMPATIBLE : Failed to copy message [chars] to buffer, not allowed for current domain.

Explanation	Failure to marshal a message indicates an incompatibility \ with the intended recipient.
Recommended Action	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOMD_INFRA-3-INVALID_SLOT_NUM : An invalid slot number is specified in one of the internal APIs. slot=[dec] max_slot=[dec]

Explanation	Invalid slot number to find the TDL domain
Recommended Action	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOMD_INFRA-3-INVALID_BAY_NUM : An invalid bay number is specified in one of the internal APIs. bay=[dec] max_bay=[dec]

Explanation	Invalid bay number to find the TDL domain
Recommended Action	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOMD_INFRA-4-INTR_OVER_LIMIT : IOMd main thread disabled interrupt for [int] msec.

Explanation	IOMd main thread process disabled interrupt too long
Recommended Action	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOMD_INFRA-3-INTR_EVENT : IOMd fast thread event ([dec]).

Explanation	IOMd fast thread event
Recommended Action	Examine the logs for IOMD. If the problem persists, copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOMD_INFRA-3-I2C_WRITE : An I2C write has failed because [chars]

Explanation	An I2C write has failed. This could be due to a hardware or software defect.
Recommended Action	Note the time of the error message and examine the logs for I2C errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%IOMD_INFRA-3-I2C_READ : An I2C read has failed because [chars]

Explanation	An I2C read has failed. This could be due to a hardware or software defect.
Recommended Action	Note the time of the error message and examine the logs for I2C errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%IOMD_INFRA-3-LINECARDIAGSFAILED : Module [chars] in Slot [dec] failed online diagnostics. Please use 'show post' for more details

Explanation	Online Diag has failed. This could be due to a hardware or software defect.
Recommended Action	Note the time of the error message and examine the logs for errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

IOSD

%IOSD-3-BIPC_REJECT : Could not accept ipc connection: [chars]

Explanation	This error occurs if shell-manager has denied an ipc connection request from IOS.
Recommended Action	Check the connection request parameters.

%IOSD-3-TDL_PROPERTIES : Could not set message properties for connection: [chars]

Explanation	This error occurs if shell-manager is unable to set message properties for the IOS-smn connection
Recommended Action	Check the connection request parameters.

IOSD_INFRA

%IOSD_INFRA-6-IFS_DEVICE_OIR : Device [chars] [chars]

Explanation	USB inserted/removed
Recommended Action	No action is required.

%IOSD_INFRA-3-IFS_DEVICE_DETECT_FAIL : Device [chars] [chars]

Explanation	USB detection failed
Recommended Action	USB Insertion could not be handled completely. Device needs to be removed and re-inserted

IOSXE_APS**%IOSXE_APS-3-GROUP_CONFIG_FAIL : Group change for interface [chars] Group [dec] failed**

Explanation	Group change for interface has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_APS-3-CONFIG_FAIL : config change for interface [chars] Group [dec] failed

Explanation	config for an interface to forwarding plane has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_APS-3-FLOWIDDELETIONFAILED : Deletion of APS flow ID with manager failed for interface [chars] group [dec]

Explanation	An unexpected condition has occurred that deletion of APS flow ID.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_APS-3-FLOWIDALLOCFAILED : Allocation of APS flow ID with manager failed for interface [chars] group [dec]

Explanation	An unexpected condition has occurred that allocation of APS flow ID. failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_APS-3-PAIR_CONFIG_FAIL : Pair config for interface [chars] Group [dec] failed

Explanation	Pair config for interface has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_APS-3-CCCONFIGFAILED : Pair config for interface [chars] Group [dec] failed

Explanation	Pair config for interface has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_APS-3-FLOWCONFIGTOCCFAILED : Flow id to cc for interface [chars] Group [dec] failed

Explanation	Flow id to cc for an interface has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_APS-3-DOWNLOADFAIL : Unable to download [chars] message to [chars]

Explanation	An unexpected condition has occurred which resulted in a configuration not being sent to the reported process.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_CXSC**%IOSXE_CXSC-3-ALLOC : Failed to allocate message for proposition**

Explanation	When attempting to program the dataplane with a CXSC proposition object, there was no enough memory to allocate the message.
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%IOSXE_CXSC-3-ALLOC : Failed to allocate message for proposition

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_CXSC-3-MESSAGE : Failed to send message for proposition

Explanation	When the proposition was being prepared for sending to the data plane, there was an error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_CXSC-3-ACTION : Unknown proposition action ([dec])

Explanation	When the proposition was being sent to the data plane, the action was unknown error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_CXSC-3-BAD_PROPOSITION : Proposition obj corrupt

Explanation	When the proposition was being sent to the data plane, the object itself is corrupt.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_CXSC-3-BAD_SUMMARY : Summary obj corrupt

Explanation	When the proposition summary was being sent to the data plane, the object itself is corrupt.
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%IOSXE_CXSC-3-BAD_SUMMARY : Summary obj corrupt

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_CXSC-4-DUAL_RP_UNSUPPORTED : Dual RPs are not supported in conjunction with CXSC

Explanation	CXSC is not supported in a dual RP environment. To resolve this warning, either unconfigure CXSC or remove the redundant Route Processor.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_CXSC-3-RF_INIT : Failed to initialize CXSC Redundancy Facility client

Explanation	An unexpected condition occurred where the CXSC Redundancy Facility failed to initialize.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_CXSC-3-STILE_ACTIVATE : Failed to activate NBAR classification: ([dec])

Explanation	An unexpected condition occurred where the CXSC NBAR protocol classification failed to activate.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_CXSC-3-STATISTICS_ALLOCATION : Unable to allocate space for statistics

Explanation	During initialization, there was failure in the allocation of the memory to gather the statistics. It is non fatal, but after seeing this message, the CXSC subsystem will not be able to gather statistics.
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%IOSXE_CXSC-3-STATISTICS_ALLOCATION : Unable to allocate space for statistics

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_CXSC-3-BAD_PROTOCOLPACK : Invalid Protocol Pack object

Explanation	When the Protocol Pack was being sent to the data plane, the object's contents were invalid.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_CXSC-3-FILESYSTEM_ERR : FileSystem Error ([chars]): Unable to Copy File from [chars] to [chars]

Explanation	Unable to copy the NBAR Protocol Pack File to the file system for subsequent loading. The system will revert to the previously loaded Protocol Pack.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_CXSC-3-INSUFFICIENT_ALLOC_IOSXE_VER : Insufficient memory allocated for IOSXE version String

Explanation	The input IOSXE Version String has insufficient memory to hold the IOSXE Version.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_CXSC-3-INSUFFICIENT_ALLOC_NBAR_VER : Insufficient memory allocated for NBAR Engine Version String

Explanation	The input NBAR Engine Version string has insufficient memory to hold the NBAR Engine Version.
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%IOSXE_CXSC-3-INSUFFICIENT_ALLOC_NBAR_VER : Insufficient memory allocated for NBAR Engine Version String

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_CXSC-3-PLATFORM_TYPE : Unrecognised platform type. CPU ID [dec]

Explanation	The platform that the cxsc service is being installed on is not recognised. The most likely cause is that this platform is not supported.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_DNS

%IOSXE_DNS-3-UPDATE_FAILED : Update resolv.conf, vrf [chars], rc [dec]

Explanation	An unexpected condition has occurred while updating the DNS file
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_DNS-3-VRF_FAILED : Operation ([chars]) on /etc/netns/[chars], rc [dec]

Explanation	An unexpected condition has occurred while updating the DNS directory
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_ETHERCHAN**%IOSXE_ETHERCHAN-6-LINK_MTU : Interface [chars] MTU set to port-channel [chars] MTU [dec]**

Explanation	The MTU for the interface mentioned in the message is changed to match the MTU configured on the port channel interface
Recommended Action	No action is required.

%IOSXE_ETHERCHAN-3-LINK_MTU_FAIL : Failure in changing MTU of interface [chars] to port-channel [chars] MTU

Explanation	The MTU for the interface mentioned in the message cannot be changed to match the MTU configured on the port channel interface
Recommended Action	Remove the link mentioned in the message from the port-channel group

IOSXE_EZMENU through IOSXE_FMANRP_URPF

- [IOSXE_EZMENU](#)
- [IOSXE_FMANRP](#)
- [IOSXE_FMANRP_ADJ](#)
- [IOSXE_FMANRP_CCE](#)
- [IOSXE_FMANRP_CEF](#)
- [IOSXE_FMANRP_FPM](#)
- [IOSXE_FMANRP_OBJID](#)
- [IOSXE_FMANRP_OBJID2](#)
- [IOSXE_FMANRP_RTMAP](#)
- [IOSXE_FMANRP_URPF](#)

IOSXE_EZMENU**%IOSXE_EZMENU-3-VIRT_SRVC_REGISTER : Failed to register '[chars]' with virtual service manager**

Explanation	An unexpected error has occurred while trying to register this virtual service with the virtual service manager. This has prevented the virtual service from being enabled/disabled.
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%IOSXE_EZMENU-3-VIRT_SRVC_REGISTER : Failed to register '[chars]' with virtual service manager

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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IOSXE_FMANRP

%IOSXE_FMANRP-4-MSGDISPATCHNULL : TDL messages NULL from IOS.

Explanation	An unexpected condition has occurred while IOS trying to dispatch the TDL message handler functions for received TDL messages from Forwarding Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP-4-MSGDISPATCH : Unable to dispatch received TDL message '[chars]' from Forwarding Manager. LUID: [chars]

Explanation	An unexpected condition has occurred while IOS trying to dispatch the TDL message handler functions for received TDL messages from Forwarding Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP-4-MSGIPCERR : Unable to process received IPC messages from Forwarding Manager, error: [chars].

Explanation	An unexpected condition has occurred while IOS trying to process received IPC message from Forwarding Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP-3-EPOCHDLMSGMARSHAL : Failed to copy epoch TDL message to IPC buffer, epoch number [dec]

Explanation	This operation to build a TDL messages for epoch message has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP-3-MSGMARSHALERR : Unable to copy IPC messages into transport buffer. Message: [chars]

Explanation	An unexpected condition has occurred while IOS trying to copy IPC message to transport buffer in order to send the message from IOSd to Forwarding Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP-3-MSGENQERR : Unable to enqueue IPC messages to IOS IPC queue. Message: [chars].

Explanation	An unexpected condition has occurred while IOS trying to enqueue IPC message to IOS IPC queue in order to send the message to Forwarding Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP-4-MSGNONDLSTATSERR : Unable to process received non-TDL stats message from Forwarding Manager, error: [chars] ([dec]).

Explanation	An unexpected condition has occurred while IOS trying to process received non-TDL stats message from Forwarding Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_ADJ**%IOSXE_FMANRP_ADJ-3-NOADJ : Adjacency entry is null**

Explanation	An unexpected condition has occurred which is due to the absence of an adjacency entry structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show adjacency command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_ADJ-3-NOFIBHWIDB : FIB Interface [chars] is null

Explanation	An unexpected condition has occurred which is due to the absence of a FIB interface structure.
Recommended Action	LOG_STD_SH_CMD_ACTION(show adj)

%IOSXE_FMANRP_ADJ-3-ENQUEFAIL : Unable to send [chars] [chars] message to Forwarding Manager Process

Explanation	An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Process.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_ADJ-3-ENCSIZE : Invalid encap length [dec] which is larger than max allowed [dec] bytes

Explanation	An unexpected condition has occurred which is due to invalid adjacency encapsulation size being larger than the maximum value allowed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_CCE**%IOSXE_FMANRP_CCE-4-CCE_STACK_LIMIT : Failed to create class [dec] filter list**

Explanation An operation to send a filter list to the forwarding processor for a particular class has failed due to a resource issue. This may imply that the notification was dropped.

Recommended Action LOG_STD_SH_CMD_ACTION(show class-map [type <class type> <name>])

%IOSXE_FMANRP_CCE-3-CCE_INVALID_FILTER_RELN : Invalid filter relation [int]

Explanation An internal error occurred when trying to build class-map information for one of the classes in a policy-map.

Recommended Action LOG_STD_SH_CMD_ACTION(show policy-map [type <policy type> <name>])

%IOSXE_FMANRP_CCE-3-CCE_FILTER_OVERFLOW : Filter list overflow at type [chars]

Explanation An internal error occurred when trying to build class-map information for one of the classes in a policy-map.

Recommended Action LOG_STD_SH_CMD_ACTION(show class-map [type <class type> <name>])

%IOSXE_FMANRP_CCE-3-CCE_CLASS_CREATE : Unable to create class [int].[int]

Explanation An error occurred when trying to create a class-map.

Recommended Action LOG_STD_SH_CMD_ACTION(show policy-map [type <policy type> <name>])

%IOSXE_FMANRP_CCE-4-CCE_NESTED_CLASS_LIMIT : Nested class [dec] layers cannot exceed 4

Explanation When configure nested classes as match statements, the total levels of nested classes cannot exceed 4 layers

Recommended Action LOG_STD_SH_CMD_ACTION(show class-map [type <class type> <name>])

IOSXE_FMANRP_CEF**%IOSXE_FMANRP_CEF-3-NOFIB : FIB entry is null**

Explanation An unexpected condition has occurred which is due to the absence of a FIB entry structure.

%IOSXE_FMANRP_CEF-3-NOFIB : FIB entry is null

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip cef** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-3-NOFIBSB : FIB SB entry is null

Explanation An unexpected condition has occurred which is due to the absence of a FIB SB entry structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip cef** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-3-NOFIBTABLE : FIB table is null

Explanation An unexpected condition has occurred which is due to the absence of a FIB table structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip cef** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-3-NOFIBIDB : FIB interface is null

Explanation An unexpected condition has occurred which is due to the absence of a FIB interface structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip cef** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-3-ENQUEFAIL : Unable to send [chars] [chars] message to Forwarding Manager Process

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Process.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-4-UPDFRAGSTATSERR : Update IP Fragmentation statistics error

Explanation An unexpected condition has occurred when updating fragmentation statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-4-UPDREASSSTATSERR : Update IP Reassembly statistics error

Explanation An unexpected condition has occurred when updating reassembly statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-4-UPDSTATSERR : Update CEF statistics error

Explanation An unexpected condition has occurred when updating cef statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-3-ROUTEMSGMARSHAL : Failed to copy route message to IPC buffer for prefix [chars]/[dec] - [chars]

Explanation This operation to build a TDL messages for route download has failed.

%IOSXE_FMANRP_CEF-3-ROUTEMSGMARSHAL : Failed to copy route message to IPC buffer for prefix [chars]/[dec] - [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-3-NOFIBPUSHCNT : FIB push counter is null

Explanation An unexpected condition has occurred which is due to the absence of a FIB push counter structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip cef** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-3-NOFIBSIGNAL : FIB signal is null

Explanation An unexpected condition has occurred which is due to the absence of a FIB signal structure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip cef** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_CEF-3-NONATADDR : NAT address is null

Explanation An unexpected condition has occurred which is due to the absence of an NAT address.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip alias** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_FPM**%IOSXE_FMANRP_FPM-4-INVALIDLENTYPE : Field length type in PHDF file is invalid**

Explanation An unexpected condition has occurred which is due to the invalid field length type in PHDF file.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the `show` command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_FPM-4-INVALIDMATCHTYPE : FPM match type is invalid [dec]

Explanation An unexpected condition has occurred which is due to the invalid FPM match type in one of FPM class-map filter match entry

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the `show` command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_FPM-4-INVALIDACTION : FPM feature action is invalid [dec]

Explanation An unexpected condition has occurred which is due to the invalid action type when trying to bind FPM action with target class group.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the `show` command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_FPM-3-NOSTATUPDATE : Failed to update class-map statistics during periodic update

Explanation A statistics update for a class-map has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_OBJID

%IOSXE_FMANRP_OBJID-5-DUPCREATE : Duplicate forwarding object creation obj_handle [hex], type [int], existing_obj_id [hex], type [int]

Explanation	An unexpected condition has occurred which results in duplicate forwarding object creation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_OBJID2

%IOSXE_FMANRP_OBJID2-3-DUPCREATE : Duplicate forwarding object creation obj_handle [hex], type [int], existing_obj_id [hex], type [int]

Explanation	An unexpected condition has occurred which results in duplicate forwarding object creation with different object types.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_RTMAP

%IOSXE_FMANRP_RTMAP-3-RTMAPNULL : The route-map structure for [chars] is null

Explanation	An unexpected condition has occurred which is due to the absence of a route-map data structure.
Recommended Action	show route-map

%IOSXE_FMANRP_RTMAP-4-UNKOWNCLIANT : Unknown client type [dec] received

Explanation	An unexpected known client type is received for route-map download.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the <code>show route-map</code> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_RTMAP-3-INVALID_LIST : NULL

Explanation	An internal list structure has been detected as invalid.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the <code>show ip interface</code> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_RTMAP-3-RTMAP_UNSUPPORTED : Routemap ([chars]) contain unsupported match/set clause, ignored

Explanation	A map contains unsupported match or set clause
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the <code>show ip interface</code> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_URPF

%IOSXE_FMANRP_URPF-4-NOV4SWIDB : v4 sub-interface is null

Explanation	An unexpected condition has occurred which is due to the absence of a v4 swidb structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the <code>show ip interface</code> command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_URPF-4-NOV6SWIDB : v6 sub-interface is null

Explanation	An unexpected condition has occurred which is due to the absence of a v6 swidb structure.
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%IOSXE_FMANRP_URPF-4-NOV6SWIDB : v6 sub-interface is null

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ipv6 interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_URPF-3-INVALIDIFHDL : Invalid interface handle [int] for interface (number= [int], swidb= [hex], name= [chars])

Explanation An unexpected condition has occurred which is due to an invalid interface handle

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_URPF-4-UPDV4STATSERR : Update v4 URPF statistics error

Explanation An unexpected condition has occurred when updating v4 URPF statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip interface <name>** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_FMANRP_URPF-4-UPDV6STATSERR : Update v6 URPF statistics error

Explanation An unexpected condition has occurred when updating v6 URPF statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ipv6 interface <name>** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_FMANRP_ZONES through IOSXE_RP_CFG_NOT

- [IOSXE_FMANRP_ZONES](#)
- [IOSXE_INFRA](#)
- [IOSXE_MEMPOOL_MIB](#)
- [IOSXE_MGMTVRF](#)
- [IOSXE_MLP](#)
- [IOSXE_OIR](#)
- [IOSXE_PEM](#)
- [IOSXE_QFP](#)
- [IOSXE_RP_ALARM](#)
- [IOSXE_RP_CFG_NOT](#)

IOSXE_FMANRP_ZONES

%IOSXE_FMANRP_ZONES-3-NOSTATUPDATE : Failed to update zone-pair statistics during periodic update (zone [chars], class [int])

Explanation	A statistics update for a zone-pair has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_INFRA

%IOSXE_INFRA-3-INVALID_ERRMSG : Error message type [dec] not defined

Explanation	Error message type used is not defined in IOSXE infrastruaction
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SHIM_INIT_WQ_FAIL : IOSXE shim layer initialization failed: Can not create receiving queues

Explanation	IOSXE IOS shim layer initialization of watched queue failed
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%IOSXE_INFRA-3-SHIM_INIT_WQ_FAIL : IOSXE shim layer initialization failed: Can not create receiving queues

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SHIM_INIT_WQ_CHASFS_FAIL : IOSXE shim layer initialization failed: Can not create receiving chasfs watched queue

Explanation IOSXE IOS shim layer initialization of watched queue failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SHIM_INIT_PROC_FAIL : IOSXE shim layer initialization failed: Dispatch process creation failed

Explanation IOSXE IOS shim layer initialization creating dispatch process failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SHIM_INIT_MEM_FAIL : IOSXE shim layer initialization failed: Memory initialization failed.

Explanation IOSXE IOS shim layer initialization of memory failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SHIM_NO_IPC_DISPATCH_HDL : IOSXE shim layer [chars] process message without IPC dispatch handler.

Explanation IOSXE IOS shim layer has no ipc dispatch handler set

%IOSXE_INFRA-3-SHIM_NO_IPC_DISPATCH_HDL : IOSXE shim layer [chars] process message without IPC dispatch handler.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SHIM_RXMSG_NO_IPC_HDL : IOSXE shim layer without IPC handler for fd [dec], seqnum [dec].

Explanation IOSXE IOS shim layer cannot find ipc handler

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SHIM_INIT_TDL_FAIL : IOSXE shim layer initialization TDL Lib [chars] failed.

Explanation IOSXE IOS shim layer initialization of TDL library

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SHIM_INIT_DISPATCH_INIT_FAIL : IOSXE shim layer initialization, dispatch path init failed.

Explanation IOSXE IOS shim layer initialization of TDL dispatch path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-INVALID_RUNTIME_IDX : Thread runtime index [dec] is not valid

Explanation Export the thread's running time failed.

%IOSXE_INFRA-3-INVALID_RUNTIME_IDX : Thread runtime index [dec] is not valid

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_INFRA-6-THEAD_SELECT_ERR : Inbound message or packet select error, [chars].

Explanation	Socket select operation error in threads
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-INJECT_HDR_LENGTH_ERR : Inject hdr size [int] exceeds limit

Explanation	Inject header length exceeds pak header space
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-INJECT_EMBEDDED_HDR_LENGTH_ERR : Can't allot space needed for embedded inject hdr size [int] exceeds limit

Explanation	Can't allot space needed for embedded inject header, exceeds pak header space
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-INJECT_NO_IF_OUTPUT_ERR : Output intf is NULL, [chars]

Explanation	Output intf is required to proceed, else skip the feautre
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-4-PUNT_KEEPALIVE_LOG_ERR_INV_PARAM : Invalid parameter: [chars]

Explanation	Invalid parameter was passed when generating punt err log
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-4-PUNT_KEEPALIVE_LOG_ERR_GET_FILE_NAME : Failed to get file name: [chars]

Explanation	Could not form a file name when generating punt err logPunt keepalive log error seen
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-4-PUNT_KEEPALIVE_LOG_ERR_INV_FILE_ID : Invalid file descriptor: [dec]

Explanation	Invalid file descriptor was found when generating punt err log
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-PUNT_KEEPALIVE_LOG_ERR_OPEN_FILE : Failed to open file: [chars]

Explanation	Failed to open file when generating punt err log
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-4-PUNT_KEEPALIVE_LOG_ERR_CLOSE_FILE : Failed to close file with descriptor: [dec]

Explanation	Closing of file failed when generating punt err log
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%IOSXE_INFRA-4-PUNT_KEEPALIVE_LOG_ERR_CLOSE_FILE : Failed to close file with descriptor: [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_INFRA-3-PUNT_KEEPALIVE_LOG_ERR_WRITE_TO_FILE : Write to file Id [dec] failed [dec] bytes, expected [dec] bytes

Explanation	Write to file failed when generating punt err log
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-PUNT_KEEPALIVE_LOG_ERR_ALLOC_TTY : Failed to allocate a tty

Explanation	Can't allocate a TTY when generating punt err log
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-PUNT_KEEPALIVE_LOG_ERR_ALLOC_CSB : Failed to allocate a csb

Explanation	Can't allocate a csb when generating punt err log
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-PUNT_KEEPALIVE_LOG_ERR_PARSE_CMD : Failed to parse command: [chars]

Explanation	Failed to parse a command when generating punt err log
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-4-PUNT_KEEPALIVE_LOG_ERR_GET_PROCID : Failed to get process id

Explanation	Can't get identifier of the process generating punt err log
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-4-PUNT_KEEPALIVE_LOG_ERR_INV_PROCID : Invalid proc id [dec], expected [dec]

Explanation	Invalid process trying to generate punt err log
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-4-NO_PUNT_KEEPALIVE : Keepalive not received for [int] seconds

Explanation	Punt Inject keepalive message was not received
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-2-FATAL_NO_PUNT_KEEPALIVE : Keepalive not received for [int] seconds resetting

Explanation	Punt Inject keepalive message was not received
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-2-FATAL_PUNT_LINK_DOWN : Punt Inject link went down resetting

Explanation	Punt Inject link went down
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%IOSXE_INFRA-2-FATAL_PUNT_LINK_DOWN : Punt Inject link went down resetting

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_INFRA-3-INJECT_GSB_CTL_INIT_FAIL : Inject adjacency subblock init failed

Explanation	Adj subblock control or register failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-PUNT_ADDR_RES_ENCAP_ERR : Punted address resolution packet with unknown encap [chars]

Explanation	Punted packet for ARP/ND with encap not supported
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-PUNT_SVC_PROC_ERR : Punt service [chars] create failed

Explanation	Punt service process can not be created
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-VM_PAGE_TABLE_ERR : VM guarded page operation failed, address [hex], [chars]

Explanation	VM guarded page avl tree operation error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-PUNT_SVC_TYPE_UNKNOWN : Punted packet with unknown service type [int]

Explanation	Punted pak with an unsupported service type
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-5-PUNT_SVC_CANT_ENQUEUE : Punted pak can't be enqueued for service

Explanation	Punted pak enqueue failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-5-PUNT_SVC_INVALID_OPT_PKT : Invalid IPv4 options packet punted to RP

Explanation	Invalid IPv4 options packet dropped in RP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-4-INJECT_TUN_NONIP_WARN : pak with linktype [chars] gets into non-ip tunnel

Explanation	IP/IPv6/MPLS packet should to go through GRE tunnel for non-IP payload
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-INJECT_FEATURE_ESS_ERR : ESS segment not found, type [dec] hdl [hex]

Explanation	Packets to be injected to an unsupported ESS segment
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%IOSXE_INFRA-3-INJECT_FEATURE_ESS_ERR : ESS segment not found, type [dec] hdl [hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_INFRA-6-PROCPATH_CLIENT_HOG : IOS shim client '[chars]' has taken %ld msec (runtime: %ld msec) to process a '[chars]' message

Explanation	The specified IOSXE IOS shim client has taken too long to process a received IPC or chasfs message
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-6-AUXTHD_REQUEST : Too many outstanding requests for file system access

Explanation	Resource temporarily unavailable
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-APP_SESS_OPEN_FAILED : An attempt to open [chars] with handle number [dec] has failed ([dec])

Explanation	Application session between processes failed to establish.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-CONSOLE_DEBUG_DROP : System dropped [dec] bytes of console debug messages.

Explanation	Debugging messages are being generated faster than they can be displayed on the console. The messages can not be guaranteed to be seen so this message replaces the lost messages.
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%IOSXE_INFRA-3-CONSOLE_DEBUG_DROP : System dropped [dec] bytes of console debug messages.

Recommended Action Consider using conditional debugging or turning off console logging.

%IOSXE_INFRA-3-PUNT_INCOMP_WRONG_ADJID : Punted address resolution packet linktype [chars], adj-id [dec] is with linktype [chars]

Explanation CPP needs to punt incomplete adjacency for resolution by specifying the adjacency-id, but the included adjacency-id does not match the incomplete adjacency this packet triggered.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-IFS_EXTLINK_ADD_FAIL : Could not add filesystem [chars] to IFS links

Explanation Attempt to add filesystem root to allow for links failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-IFS_UDEV_REMOVE_FAIL : Could not remove udev device [chars]

Explanation Attempt to remove udev device failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-IFS_DFLT_FS_REG_FAIL : Unable to set [chars] as a default file system.

Explanation IOSXE's platform dependent code failed to register the default file system.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-IFS_INIT_HIDDEN_FAIL : IOSXE shim layer initialization failed: Can not create receiving queues

Explanation	IOSXE IOS shim layer initialization of hidden path watch failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-BSO_MSG_HDR_LENGTH_ERR : BSO message header length [int] is incorrect

Explanation	BSO message header length is incorrect
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-BSO_MSG_HDR_MSGTYPE_ERR : BSO message header msgtype [int] is incorrect

Explanation	BSO message header msgtype is incorrect
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-BSO_MSG_UNMARSHAL_ERR : BSO message unmarshalling has failed

Explanation	BSO message unmarshalling has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-BSO_MSG_CACHE_ERR : BSO message query cache update error - [chars]

Explanation	BSO message query cache update error
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%IOSXE_INFRA-3-BSO_MSG_CACHE_ERR : BSO message query cache update error - [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_INFRA-4-BSO_MSG_RIB_WATCH_WARN : BSO message RIB watch start error

Explanation	BSO message RIB watch start error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-RELOAD_INFO_SAVE_FAIL : Unable to save reload information: [dec]: [chars].

Explanation	IOSXE's platform dependent code failed to save the reload information.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SN_IPFRR_PROC_ERR : Static Nexthop IPFRR [chars] create failed

Explanation	SN IPFRR process can not be created
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-6-CONSOLE_ACTIVE : [chars]

Explanation	Indicates that the current instance of IOS is assuming active control of the console. This is informational.
Recommended Action	No action is required.

%IOSXE_INFRA-6-PLATFORM_RELOAD : [chars]

Explanation Indicates that the current instance of IOS is being reset by the platform code. This is part of a normal reset sequence and the message is informational.

Recommended Action No action is required.

%IOSXE_INFRA-6-CHASFS_CLOCK_SET_FAIL : Failed to set Chasfs property on system time change

Explanation Unable to set chasfs property on system time change

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-CYAN_API_ERROR : Failed to retrieve platform dependent value of [chars] (err=[dec])

Explanation CYAN API function failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-6-SHIM_RXMSG_IPC_INFO : IOS shim layer process IPC msg for fd [dec], seq_num [dec], ipc_status [dec]

Explanation

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SHIM_IPC_NOT_PROCESSED : msg handler returned FALSE for IPC msg for fd [dec], seq_num [dec], service [chars]

Explanation

%IOSXE_INFRA-3-SHIM_IPC_NOT_PROCESSED : msg handler returned FALSE for IPC msg for fd [dec], seq_num [dec], service [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SWIFT_ORCH_PROC_FAIL : IOSXE SWIFT Orchestrator process creation failed

Explanation The SWIFT Orchestrator process could not be created

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-BAD_GLIBC_BUF_FREE : An IOS buffer is freed into GLIBC buffer pool, buffer blockmagic [hex], flags [hex]

Explanation An IOS buffer is freed into GLIBC buffer pool.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-BIPC_MGS_ALLOC_FAIL : Allocating [dec] byte for IPC [chars] msg failed: out of memory

Explanation system is out of memory

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SOCKET_PEEK_ERR : Interrupt processing of Punt received packets over socket failed as peek of packet returned error: [chars]

Explanation Peek at incoming message hit error

%IOSXE_INFRA-3-SOCKET_PEEK_ERR : Interrupt processing of Punt received packets over socket failed as peek of packet returned error: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_INFRA-3-GET_BUFFER_ERR : Interrupt processing of Punt received packets over socket failed to get a packet buffer for len [dec]

Explanation	Failed to get a packet buffer from the specified pool.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SOCKET_RECV_ERR : Interrupt processing of Punt received packets over socket failed as receive packet hit error: [chars]

Explanation	Hit error when receives packet from a socket.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-SOCKET_SEND_ERR : Transmit packet to the socket hit error: [chars]

Explanation	Transmit a packet to another socket hit error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-INJECT_HEADER_ERR : Transmit packet to the socket failed as packet header length is greater than datagram size. It's an incorrect packet and cannot proceed sending. header length is [dec], datagram size is [dec].

Explanation	Packet header length is wrong.
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%IOSXE_INFRA-3-INJECT_HEADER_ERR : Transmit packet to the socket failed as packet header length is greater than datagram size. It's an incorrect packet and cannot proceed sending. header length is [dec], datagram size is [dec].

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-IDB_CREATE_ERR : Failed to create IDB(Interface Descriptor Block) for Punt/Inject socket interface

Explanation Creating an idb corresponding to an interface failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-MALLOC_FAST_ERR : Failed to allocate memory for Punt/Inject socket instance

Explanation malloc_fast failed to allocate memory.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-IDB_INIT_ERR : Failed to initialize IDB(Interface Descriptor Block) for Punt/Inject socket interface

Explanation Hit error when we initialize idb.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-PI_SOCKET_RAW_PRE_INIT_ERR : Punt/Inject socket pre-initialization(IDB creation) failed

Explanation PI Socket Raw pre-initialization failed.

%IOSXE_INFRA-3-PI_SOCKET_RAW_PRE_INIT_ERR : Punt/Inject socket pre-initialization(IDB creation) failed

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_INFRA-3-PI_SOCKET_RAW_INIT_ERR : Punt/Inject socket initialization failed

Explanation	PI Socket Raw initialization failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-MCPRP_INIT_PUNTPATH_FD_ERR : Initializing the ipc control for the puntpath fd failed

Explanation	Initializing the ipc control for the puntpath fd failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-LIIN_TUN_MSG_ERR : LIIN error - [chars] [chars] [dec]

Explanation	LIIN in Tunnel mode experiencing error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-PI_TUN_INIT_ERR : Punt/Inject TUN initialization - [chars] failed

Explanation	PI TUN initialization failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-TUN_RECV_ERR : Interrupt processing of Punt received packets over TUN interface failed as read hit error: [chars]

Explanation	Hit error when receives packet from TUN.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-TUN_SEND_ERR : Transmit packet to the TUN interface hit error: [chars]

Explanation	Transmit packet to the TUN interface hit error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_INFRA-3-TLS_TUN_HOST_IF_ERR : TLS tunnel to host interface hit error: [chars]

Explanation	TLS tunnel to host interface hit error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_MEMPOOL_MIB

%IOSXE_MEMPOOL_MIB-3-BUFFPOOL_REG_ERROR : Bufferpool register data exceeds allocated memory; Retrieved only [dec] entries.

Explanation	Memory allocated is not enough
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_MGMTVRF**%IOSXE_MGMTVRF-3-PROCESS_CREATE_FAIL : Management VRF process creation failed, [chars]**

Explanation	Can not create IOS process for mgmt port init
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_MGMTVRF-3-VRF_CREATE_FAIL : Management VRF creation failed [chars]

Explanation	Can not create mgmt vrf during system init
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_MGMTVRF-3-AFI_ATTACH_FAIL : Management VRF AFI [chars] attach failed

Explanation	Can not create afi subblock for mgmt vrf
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_MGMTVRF-3-INTF_ATTACH_FAIL : Management VRF attach to mgmt [chars] failed

Explanation	Can not associate mgmt port to mgmt vrf
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_MGMTVRF-3-SET_TABLEID_FAIL : Installing [chars] Management interface tableid [hex] failed

Explanation	Fail to set mgmt port tableid into Linux kernel
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%IOSXE_MGMTVRF-3-SET_TABLEID_FAIL : Installing [chars] Management interface tableid [hex] failed

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_MGMTVRF-6-CREATE_SUCCESS_INFO : Management vrf [chars] created with ID [dec], ipv4 table-id [hex], ipv6 table-id [hex]

Explanation mgmt vrf and ipv4, ipv6 tables created for mgmt port

Recommended Action

IOSXE_MLP**%IOSXE_MLP-3-ENQUEFAIL : Unable to send [chars] [chars] message to Forwarding Manager Process**

Explanation An unexpected condition has occurred which resulted in a configuration not being sent to the Forwarding Manager Processes.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_MLP-4-UPDSTATSERR : Update MLP statistics error

Explanation An unexpected condition has occurred when updating mlp statistics

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_MLP-2-DB_ENTRY_ALLOC_FAIL : MLP link db entry allocation for link [chars] failed

Explanation MLP link database error. Memory chunk allocation for MLP link database entry has failed.

Recommended Action Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute 'show proc memory' command.

%IOSXE_MLP-2-DB_INSERT_FAIL : MLP link db entry add for interface [chars] failed

Explanation	MLP link database error. Insertion of a new entry into MLP link database has failed.
Recommended Action	Check for accurate memory management. Perform memory leak checks, look for memory corruption causes, verify correct database management. Execute 'show proc memory' command.

%IOSXE_MLP-2-DB_DELETE_FAIL : MLP link db entry delete for link [chars] failed

Explanation	MLP link database error. Removal of entry from MLP link database has failed.
Recommended Action	Check for accurate memory management. Perform memory leak checks, look for mamory corruption causes and check for correct database management. Execute 'show proc memory' command.

%IOSXE_MLP-2-DB_ENTRY_FREE_FAIL : MLP link entry free failed

Explanation	MLP link database error. Memory chunk free of MLP link database entry has failed.
Recommended Action	Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute 'show proc memory' command.

%IOSXE_MLP-2-DB_ALLOC_FAIL : MLP link db allocation failed

Explanation	MLP link database error. Memory chunk creation for MLP link database has failed.
Recommended Action	Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute 'show proc memory' command.

%IOSXE_MLP-2-DB_DESTROY_FAIL : MLP link database destroy failed

Explanation	MLP link database error. Memory chunk destroy has failed for MLP link database.
Recommended Action	Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute show proc memory command.

IOSXE_OIR**%IOSXE_OIR-6-INSCARD : Card ([chars]) inserted in [chars]slot [chars]**

Explanation	The OIR facility detected the insertion of a card in the slot number specified in the message.
Recommended Action	No action is required.

%IOSXE_OIR-6-REMCARD : Card ([chars]) removed from [chars]slot [chars]

Explanation The OIR facility detected the removal of a card from the slot number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-ONLINECARD : Card ([chars]) online in [chars]slot [chars]

Explanation The OIR facility detected the state change to online for the card in the slot number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-OFFLINECARD : Card ([chars]) offline in [chars]slot [chars]

Explanation The OIR facility detected the state change to offline for the card in the slot number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-3-CARDERR : Could not read state property for [chars] slot [dec]

Explanation The OIR facility detected a failure for exceeding the number of retries to find state chasfs property.

Recommended Action No action is required.

%IOSXE_OIR-6-SOFT_STARTSPA : SPA([chars]) restarted in [chars]

Explanation The SPA in the specified subslot is restarted by the command `hw-module subslot slot#/subslot# start`

Recommended Action No action is required.

%IOSXE_OIR-3-SPA_INTF_ID_ALLOC_FAILED : Failed to allocate interface identifiers for SPA([chars]) in slot/bay: [int]/[int]

Explanation	Failed to get CC buffer and flow control identifiers for the SPA in the specified subslot. Traffic cannot flow through the SPA under this failure condition. This can happen if the system runs out of available identifiers.
Recommended Action	Try to reduce the number of interfaces configured in the system either by physically removing the SPAs or by changing the system configuration.

%IOSXE_OIR-6-SOFT_STOPSPA : SPA([chars]) stopped in [chars], interfaces disabled

Explanation	The SPA in the specified subslot is stopped by the command <code>hw-module subslot slot#/subslot# stop</code> . The interfaces on that processor will be administratively shut down and marked as removed. The routing table will be flushed of any routes through the removed interfaces.
Recommended Action	No action is required.

%IOSXE_OIR-6-SOFT_RELOADSPA : SPA([chars]) reloaded on [chars]

Explanation	The SPA in the specified subslot is reloaded by the command <code>hw-module subslot slot#/subslot# reload</code> .
Recommended Action	No action is required.

%IOSXE_OIR-6-SYNCSPA : SPA ([chars]) reloading to come up in [chars] mode

Explanation	The SPA in the specified subslot is reloaded by the command <code>hw-module subslot slot#/subslot# reload</code> .
Recommended Action	No action is required.

%IOSXE_OIR-6-INSSPA : SPA inserted in [chars]/[int]

Explanation	The OIR facility detected the insertion of a SPA in the subslot number specified in the message.
Recommended Action	No action is required.

%IOSXE_OIR-6-REMSPA : SPA removed from [chars]/[int], interfaces disabled

Explanation The OIR facility detected the removal of a SPA from the subslot number specified in the message. The interfaces on that processor will be administratively shut down and marked as removed. The routing table will be flushed of any routes through the removed interfaces.

Recommended Action No action is required.

%IOSXE_OIR-6-INSSSFP : Smart SFP inserted in port [chars]

Explanation The OIR facility detected the insertion of TSoP/VCoP SSFP in the port number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-REMSFP : Smart SFP removed from port [chars]

Explanation The OIR facility detected the removal of TSoP/VCoP SSFP in the port number specified in the message.

Recommended Action No action is required.

%IOSXE_OIR-6-SPARELOAD : SPA reloaded on subslot [int]/[int]

Explanation The SPA in the specified subslot is reloaded.

Recommended Action No action is required.

%IOSXE_OIR-6-CARDRECONCILE : SPA type changed on subslot [int]/[int] from [int] to [int]

Explanation The SPA in the specified subslot has been initialized, and it has been detected that it is of a different type to the SPA that was previously in this subslot.

Recommended Action No action is required.

%IOSXE_OIR-3-OIRTWICE : Subslot [int]/[int] OIR insertion/removal not paired up: [chars]

Explanation An internal OIR-related error occurred for the specified SPA.

%IOSXE_OIR-3-OIRTWICE : Subslot [int]/[int] OIR insertion/removal not paired up: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_OIR-3-QUIESCE_FAIL : Quiesce failed for subslot [int]/[int] (error = [dec])

Explanation	The RP failed to contact the SPA during failover. The SPA will be reset.
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Recommended Action	No action is required.
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%IOSXE_OIR-3-UNQUIESCE_FAIL : Unquiesce failed for subslot [int]/[int] (error = [dec])

Explanation	The RP failed to unquiesce the SPA in the specified subslot. The SPA will be reset.
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Recommended Action	No action is required.
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%IOSXE_OIR-3-POWER_CYCLE_IMMINEENT : The SPA in subslot [int]/[int] will be power cycled in [dec] seconds.

Explanation	The SPA in the specified subslot will be power cycled in the amount of time specified in the error message.
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Recommended Action	No action is required.
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%IOSXE_OIR-3-PROCMSG : Process msg send failed for process[dec]

Explanation	Process message send failed.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_OIR-3-MODULE : Missing [chars] for [chars]

Explanation	A hardware or software error occurred.
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%IOSXE_OIR-3-MODULE : Missing [chars] for [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_OIR-3-SPA_MDR_FAIL : Minimal Disruptive Restart process failed for SPA in subslot [int]/[int], reason [chars].

Explanation	The SPA in the subslot failed Minimal Disruptive Restart. Minimal Disruptive Restart process is aborted and an attempt will be made to recover the SPA by resetting the SPA hardware.
Recommended Action	No action is required.

%IOSXE_OIR-6-CLEAR_FAKE_SPA : Insert Event received for subslot [int]/[int] (FAKE_SPA->NONE)

Explanation	The OIR facility detected the insertion of a SPA from the subslot number specified in the message. SPA insertion happened while standby Supervisor is booting up. This results into config mismatch, which software can't handle and this will cause standby to go for reload.
Recommended Action	No action is required.

IOSXE_PEM

%IOSXE_PEM-6-INSPEM_FM : PEM/FM [chars] inserted

Explanation	The platform detected the insertion of a power/fan module in the slot number specified in the message.
Recommended Action	No action is required.

%IOSXE_PEM-6-REMPER_FM : PEM/FM [chars] removed

Explanation	The platform detected the removal of a power/fan module in the slot number specified in the message.
Recommended Action	No action is required.

%IOSXE_PEM-6-PEMOK : The PEM in [chars] is functioning properly

Explanation	The PEM hardware may have been either switched off, or reporting a failure condition. This message indicates that the PEM is no longer either switched off, or reporting a failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_PEM-3-PEMFAIL : The PEM in [chars] is switched off or encountering a failure condition.

Explanation	The PEM hardware has been either switched off, or is reporting a failure condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_PEM-6-FANOK : The fan in [chars]/[dec] is functioning properly

Explanation	The fan was reporting a failure condition. This message indicates that the fan is no longer reporting a failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_PEM-3-FANFAIL : The fan in [chars]/[dec] is encountering a failure condition

Explanation	The fan's hardware is reporting that the fan is failing. This is most likely because the hardware detects the fan as spinning below the minimum speed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_PEM-3-PEMCHASFSERR : The PEM in [chars] has encountered a system software error.

Explanation	The PEM's underlying software for storing PEM state is not working properly.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_PEM-3-TEMPERATURE_RAISE : Sensor [chars] has reached maximum temperature value, Leads to shutdown of the system

Explanation	The Temperature sensor reaching maximum threshold value working properly.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_PEM-3-FAN_FAIL_SHUTDOWN : More than one [chars] has failed, Leads to shutdown the system

Explanation	The Temperature sensor reaching maximum threshold value working properly.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_PEM-3-SSFP_TEMPERATURE_RAISE : [chars] transceiver temperature reached threshold value, Leads to shutdown of the system

Explanation	The Temperature sensor reaching maximum threshold value working properly.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_PEM-3-PEMREDLOWSTANDBY : Cannot activate [chars] configuration. Total power budget of standby power supplies is [dec]W. Standby power must be greater than or equal to the largest power supply capacity ([dec]W).

Explanation	Operating in unprotected mode Should insert at least one ps in standby slots with a capacity greater than or equal to the largest capacity power supply in the system. The configuration will be applied automatically once requirements are met.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_PEM-3-PEMREDNOPWR : Cannot enable power redundancy mode [chars] because config would create mode with insufficient [chars] power

Explanation	Configuration set by user is not valid as power supplies in the active slots do not contain enough power to meet the power requirements
Recommended Action	Insert additional power supplies and configure them to be active or configure current standby power supplies to active such that power requirements are met

IOSXE_QFP

%IOSXE_QFP-2-LOAD_EXCEED : Slot: [int], QFP:[int], Load [int]%%[hex]ceeds the setting threshold.

Explanation	QFP Load exceeds setting threshold.
Recommended Action	Monitor the traffic load.

%IOSXE_QFP-2-LOAD_RECOVER : Slot: [int], QFP:[int], Load [int]%% recovered.

Explanation	QFP Load recovered.
Recommended Action	No action required (normal operation).

IOSXE_RP_ALARM

%IOSXE_RP_ALARM-6-INFO : [chars] [chars] [chars]: [chars] [chars]

Explanation	
Recommended Action	

%IOSXE_RP_ALARM-6-INFO : [chars] [chars] [chars] [chars] [chars]

Explanation Alarm assertion or deassertion information.

Recommended Action No action is required.

%IOSXE_RP_ALARM-2-PEM : [chars] [chars] [chars]: [chars] [chars]

Explanation

Recommended Action

%IOSXE_RP_ALARM-2-PEM : [chars] [chars] [chars] [chars] [chars]

Explanation Power Entity Module missing information

Recommended Action No action is required.

%IOSXE_RP_ALARM-2-ESP : [chars] [chars] [chars]: [chars] [chars]

Explanation

Recommended Action

%IOSXE_RP_ALARM-2-ESP : [chars] [chars] [chars] [chars] [chars]

Explanation No ESP running alarm information

Recommended Action No action is required.

IOSXE_RP_CFG_NOT

%IOSXE_RP_CFG_NOT-3-MSGNOCAND : Can not construct a candidate entry for configuration export

Explanation This error usually indicates either an out of memory condition or a TDL error. If ample memory is available, then the the TDL error may indicate a version conflict with respect to configuration.

%IOSXE_RP_CFG_NOT-3-MSGNOCAND : Can not construct a candidate entry for configuration export

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_RP_CFG_NOT-3-MSGNOPWARR : Can not construct an array for configuration export

Explanation	This error usually indicates either an out of memory condition or a TDL error. If ample memory is available, then the the TDL error may indicate a version conflict with respect to configuration.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-MSGNOUPDATEMSG : Can not construct an update message for configuration export

Explanation	This error usually indicates either an out of memory condition or a TDL error. If ample memory is available, then the the TDL error may indicate a version conflict with respect to configuration.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-MSGNOREPLMSG : Can not construct a replace message for configuration export

Explanation	This error usually indicates either an out of memory condition or a TDL error. If ample memory is available, then the the TDL error may indicate a version conflict with respect to configuration.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-2-MSGNOEXP : Can not construct a '[chars]' message for configuration export: [chars]

Explanation	This error usually indicates either an out of memory condition or a TDL error. If ample memory is available, then the the TDL error may indicate a version conflict with respect to configuration.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-2-MSGTDLINITERORR : Configuration Notification messaging module initialization failed: Unable to initialize messaging: [chars]

Explanation	The Configuration Notification subsystem has failed to initialize the infrastructure for messaging with the Pluggable Services Daemon. Notification of configuration to critical modules cannot proceed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-2-MSGTDLERROR : Error processing TDL message. [dec]

Explanation	An unexpected condition in which IOS has received a TDL message which it can not process.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-2-MSGIPCINITERORR : Error initializing IPC queue

Explanation	An unexpected condition in which IOS could not initialize a message queue to the PSD.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-MSGIPCTXERROR : IPC transmit error. [dec]

Explanation An unexpected condition in which IOS encountered an error trying to send a message to another process. %d

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-MSGOBJNULL : An unexpected condition in which IOS has received a null pointer that it expects to be non-null.

Explanation An unexpected condition has occurred while IOS is trying to process a username command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-MSGENCRYPTINVALID : The mcprp_cfg_notify subsystem has seen an encryption type it does not recognize. [dec]

Explanation An unexpected condition has occurred while IOS is trying to process a username command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-NVWRITE_EXPORT : Failed to export [chars] notification: [dec]

Explanation When a 'write memory' or 'write erase' operation occurs, the Configuration Notification subsystem exports this event into the chassis file system. This message indicates that the export failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-MCP_DBPERSIST_STAT : Failed to read [chars] property: [dec]

Explanation	When a 'reload' operation occurs, this chasfs property is read to determine the status of the DB persist/restore/delete operation. This message indicates that the read failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-MCP_DBPERSIST_ERROR : System configuration update could not complete

Explanation	When a 'reload' operation occurs, this chasfs property is read to determine the status of the DB persist/restore/delete operation. This message indicates that the operation failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-MCP_FRU_LOCATION : Failed to get local FRU location: [dec]

Explanation	Unable to get local FRU location
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-MCP_FRU_INVALID : Unknow FRU location: [chars]

Explanation	Unknown FRU location
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-BOOT_VAR_NOT_SET : Either the boot variable does not exist or the buffer is too small. Keep it blank.

Explanation	Boot variable either does not exist or buffer is too small. Not able to set boot variable. Ignoring it.Aborting reload.
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%IOSXE_RP_CFG_NOT-3-BOOT_VAR_NOT_SET : Either the boot variable does not exist or the buffer is too small. Keep it blank.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-3-BOOT_IMAGE_NOT_FOUND : Primary image is not found, the system is going to reload as per user request.

Explanation Primary image which is set in boot statement either does not exist or not found. Primary image is not found, it should prompt the user to see if they wish to proceed. Aborting reload.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_CFG_NOT-6-IOX_SERVICE_NOTSUPPORTED : IOx service not supported.

Explanation IOx service is not supported in this platform currently. This may be either due to the feature unavailability or due the current inadequate license level of the system.

Recommended Action

IOSXE_RP_DPIDB through IOSXE_TIMESTAMP_ENGINE

- [IOSXE_RP_DPIDB](#)
- [IOSXE_RP_IF_FLOW_IDS](#)
- [IOSXE_RP_MGMTE](#)
- [IOSXE_RP_NV](#)
- [IOSXE_RP_SPA](#)
- [IOSXE_RP_VTYMGT](#)
- [IOSXE_SERVICE_ENGINE](#)
- [IOSXE_SPA](#)
- [IOSXE_SYS_INFRA](#)

- [IOSXE_TIMESTAMP_ENGINE](#)

IOSXE_RP_DPIDB

%IOSXE_RP_DPIDB-3-IDXBADRANGE : Datapath IDB index [dec] is not in a valid range

Explanation	An unexpected condition has occurred as the index of a datapath IDB is not valid.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-IDXALLOCFAILED : Datapath IDB index allocation failed: [chars]

Explanation	An unexpected condition has occurred as all the available of datapath IDB indices are used.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-IDXINSERTFAILED : Insertion of datapath IDB index [dec] into database failed

Explanation	An unexpected condition has occurred that insertion of datapath IDB indices failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-IDXLOOKUPFAILED : Lookup of datapath IDB index from the database failed ([chars])

Explanation	An unexpected condition has occurred that lookup of datapath IDB indices failed.
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%IOSXE_RP_DPIDB-3-IDXLOOKUPFAILED : Lookup of datapath IDB index from the database failed ([chars])

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-IDXDELETIONFAILED : Deletion of datapath IDB index from the database failed ([chars] - [hex]) rc [dec]

Explanation An unexpected condition has occurred that deletion of datapath IDB indices failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-NOHWSUBBLOCK : HWIDB [chars] does not have a hardware subblock

Explanation An unexpected condition has occurred that no hardware subblock was previously allocated for a HWIDB.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-NOSWSUBBLOCK : SWIDB [chars] does not have a software subblock

Explanation An unexpected condition has occurred that no software subblock was previously allocated for a SWIDB.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-IDBBADTYPE : Datapath IDB type [dec] is not valid

Explanation	An unexpected condition has occurred as the type of a datapath IDB is not valid.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-IDBEXIST : Datapath IDB already exists in this mapping entry: [chars]-[dec]

Explanation	An unexpected condition has occurred that an attempt is made to save datapath IDB in a mapping entry filled by another.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-IDBNONEXIST : Datapath IDB does not exist in this mapping entry: [chars]-[dec]

Explanation	Datapath IDB lookup points to empty mapping entry.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-RF : Datapath IDB RF operation failed - [chars]

Explanation	Failure in some datapath ID RF activity.
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%IOSXE_RP_DPIDB-3-RF : Datapath IDB RF operation failed - [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-CF : Datapath IDB CF operation failed - [chars]

Explanation Failure in some datapath ID CF activity.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-RPC : Datapath IDB RPC operation failed - [chars]

Explanation Failure in some datapath ID RPC activity.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show interface** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-REGISTRATION : ISSU [chars] failed for [chars]; [chars]

Explanation An ISSU registration for the set of initial capabilities and sessions failed due to the reason specified. This will have the effect of the DPIDX ISSU support being unavailable between peers.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-ISSU : [chars] [chars] failed; [chars]

Explanation	An operation pertaining to the ISSU support for DPIDX failed to complete using either the CF or IPC transport context with the reason specified
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-TRANSFORM : [chars] of [chars] via [chars] failed for dpidx [int]

Explanation	An attempt to either encode or decode a versioned synchronization message has failed due to an internal error encountered by the ISSU component.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-RECEIVE : Message via [chars] is [chars]

Explanation	An attempt to receive and process a versioned negotiation or synchronization message has failed due to an internal error being detected by the information received from the IPC or CF components.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-TRANSMIT : Unable to send via [chars] [chars] [chars] [chars]; [chars]

Explanation	An attempt to send a versioned negotiation or synchronization message has failed due to an internal error encountered by the IPC or CF components.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-NEGOTIATION : Failed to start ISSU [chars] session negotiation; [chars]

Explanation The ISSU negotiation with the peer failed to start for either the CF or IPC transport with the reason specified.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-6-READY : [chars] peer not ready, discarding [chars]

Explanation The synchronization attempt for the message has determined that the transport has lost communication with its peer. This is a normal situation which indicates that the standby route-processor is currently out of service implying a simplex redundancy mode.

Recommended Action

%IOSXE_RP_DPIDB-6-RELOAD : [chars], reloading [chars]

Explanation A synchronization attempt between the active and standby RP peers has failed with the reason indicated. The standby peer is reloaded in an attempt to resynchronize when operating in a stateful redundant mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-DECODE : Decode via [chars] of [chars] failed

Explanation A message of the transport and type described failed in its attempt to be decoded on the standby. The resultant action taken by the standby route processor is an attempt to resynchronize.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-PROGRESSION : Unable to inform RF of bulk sync completion; [chars]

Explanation	The active route processor has sent a notification to the standby to inform of the completion of the bulk synchronization of the DPIDX configuration. The standby has failed to respond to the active informing that it received the notification noting the reason for the failure. The resultant action taken by the standby route processor is an attempt to resynchronize.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-BULK_SYNC : Failed to send [chars] information to peer

Explanation	The bulk synchronization of the DPIDX configuration to the standby RP has failed to complete successfully; DPIDX has therefore taken the action which will result in a reload of the peer in order to once more attempt to successfully synchronize the configuration state which may have failed initially to a transient condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-DYN_SYNC : Failed to process [chars] dynamic state

Explanation	The incremental synchronization of the DPIDX configuration to the standby RP has failed to complete successfully. This implies that the configuration state between the active and standby RP is inconsistent.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interfaces command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-6-TIMEOUT : Bulk sync is flow controlled by [chars]

Explanation	The bulk synchronization of the DPIDX configuration to the standby RP has encountered a flow control condition which has effected a timeout awaiting the condition to clear. This will result in a reload of the standby RP to allow the bulk synchronization to restart.
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%IOSXE_RP_DPIDB-6-TIMEOUT : Bulk sync is flow controlled by [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_RP_DPIDB-3-IDBNOTVAI : Invalid API call for [chars]

Explanation	Failure in an internal API
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-NULLTIMER : NULL timer

Explanation	A timer is NULL
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-LIST : List [chars] failed for [chars]

Explanation	List enqueue or removal failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-FASTNOTIFY : Fast notify failed for [chars]

Explanation	A fast notify message failed
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%IOSXE_RP_DPIDB-3-FASTNOTIFY : Fast notify failed for [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_RP_DPIDB-3-DOWNLOADFAIL : Unable to download [chars] message to [chars]

Explanation	An unexpected condition has occurred which resulted in a configuration not being sent to the reported process.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-FRRDLFLOWIDDELETIONFAILED : Deletion of fast-reroute flow ID with manager failed

Explanation	An unexpected condition has occurred that deletion of fast-reroute flow ID.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show interface command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-EFPSTATSFAILED : EFP stats message data get error: ([dec]) for EFP [int] on [chars]

Explanation	An unexpected error occurred extracting fields from an EFP stats message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_DPIDB-3-MTU_ALLOC_FAIL : No hardware resources for [int] byte MTU on [chars]

Explanation	We reached to the threshold of maximum supported unique MTU on this platform.
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%IOSXE_RP_DPIDB-3-MTU_ALLOC_FAIL : No hardware resources for [int] byte MTU on [chars]

Recommended Action No action is required.

%IOSXE_RP_DPIDB-3-IP_MTU_ALLOC_FAIL : No hardware resources for [int] byte IP MTU on [chars]

Explanation We reached to the threshold of maximum supported unique IP MTU on this platform.

Recommended Action No action is required.

IOSXE_RP_IF_FLOW_IDS

%IOSXE_RP_IF_FLOW_IDS-3-NO_BUFF_FOR_SYNC : The Checkpoint Facility reported the error [chars] during a request for a buffer length of [dec]. This [chars] CF client has failed to synchronize a transaction to the Standby RP.

Explanation This error indicates that the buffer management within the Checkpoint Facility has either run out of buffers, or has some other problem. If this occurs during Bulk Sync then Bulk Sync will terminate without completing. Otherwise the incremental Sync will fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-BUFF_OFFSET_NULL : Unable to utilize the memory buffer provided by the Checkpoint Facility. This [chars] CF client has failed to Bulk Sync.

Explanation This error indicates the Checkpoint Facility is having problems recognizing its own buffer layout. If this occurs during Bulk Sync then Bulk Sync will terminate without completing. Otherwise the incremental Sync will fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-CF_SEND_BULK_NONBLOCKED : The Checkpoint Facility reported the error [chars] while attempting to send a message. Bulk Sync of this [chars] CF client is terminating.

Explanation This error indicates the Checkpoint Facility has internal problems related to IPC, and cannot perform a non-blocked send operation.

%IOSXE_RP_IF_FLOW_IDS-3-CF_SEND_BULK_NONBLOCKED : The Checkpoint Facility reported the error [chars] while attempting to send a message. Bulk Sync of this [chars] CF client is terminating.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-DEFERRED_DURING_BULK_SYNC : Encountered error [chars] while trying to place an [chars] transaction on the Deferred list during Bulk Sync for the [chars] CF client.

Explanation Unable to cache a deferred transaction while Bulk Sync is underway. This can adversely impact SSO state on the Standby RP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-CF_SEND_INCR_NONBLOCKED : The Checkpoint Facility reported the error [chars] while attempting to send a non-blocked message. The Incremental Sync transaction for this [chars] CF client cannot be sent to the Standby RP.

Explanation This error indicates the Checkpoint Facility has internal problems related to IPC.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-6-CFPEER_CANNOT_RECV : The Checkpoint Peer is not ready to receive messages. The Incremental Sync transaction for this [chars] CF client will not occur.

Explanation This error indicates the Checkpoint Facility has signalled the peer has gone away.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-SEND_FAIL_RELOAD : Checkpoint Facility Failed to send a [chars] transaction for this [chars] CF client. Reloading the Standby RP.

Explanation This indicates the underlying Checkpoint Facility could not deliver a message sent from the active RP to the standby RP. The process will automatically reload the standby RP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-4-DEF_LIST_REMOVE : Failed to remove one entry from the Deferred Sync list, for the [chars] CF client.

Explanation An unexpected condition occurred during list maintenance.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-CF_CANNOT_REGISTER : The call to add this [chars] CF client to the Checkpoint Facility failed with the error [chars]. This client is unable to proceed and will not be registered.

Explanation For some reason the Checkpoint Facility will not register this client. As a result the Standby will never receive synchronized state from this CF client on the Active RP. The system is not capable of SSO and HA switchover.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-RF_PEER_EVENT_BUFFER : This [chars] RF client is unable to acquire an event buffer to send an RF peer message, the error [chars] was returned.

Explanation This indicates the RF facility is unable to provide a message buffer needed to communicate with the RF peer. As a consequence the RF progression may be compromised.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-RF_SEND_PEER : This [chars] RF client encountered error [chars], when attempting to send a peer message.

Explanation This indicates the RF facility could not send a message to the RF peer. As a consequence the RF progression may be compromised.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-RF_PROCESS_FAILED : This [chars] RF client Failed to create the Bulk Sync Process.

Explanation The background process which performs the RF Bulk Sync failed to be created. As a consequence the Standby will never obtain the relevant SSO state to enable HA switchover.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-RF_POOL_REGEN_PROCESS_FAILED : The [chars] RF client Failed to create the Id Pool Regeneration process.

Explanation The background process which performs Flow Control Id Pool regeneration failed to start. As a consequence the Standby will never obtain the relevant SSO state to enable HA switchover.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-RF_POOL_REGEN_ERROR : Id Pool Regeneration encountered error code [dec], cannot switchover.

Explanation The background process which performs Flow Control Id Pool regeneration encountered an error. As a consequence the Standby does not have valid Flow Id pools and cannot progress to Active state.

%IOSXE_RP_IF_FLOW_IDS-3-RF_POOL_REGEN_ERROR : Id Pool Regeneration encountered error code [dec], cannot switchover.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_RP_IF_FLOW_IDS-3-RF_SPA_ID_REGEN_ERROR : Error code [dec] encountered trying to regenerate spa [chars] identifier in slot/subslot ([int]/[int])

Explanation	The background process which performs Flow Control Id Pool regeneration encountered an error. As a consequence the Standby does not have valid Id pools and cannot progress to Active state.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-RF_IF_ID_REGEN_ERROR : Error code [dec] encountered trying to regenerate interface flow-control identifier. If id [int] resides in slot/subslot/port ([int]/[int]/[int]).

Explanation	The background process which performs Flow Control Id Pool regeneration encountered an error. As a consequence the Standby does not have valid Id pools and cannot progress to Active state.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-RF_ADD_CLIENT_FAILED : The RF facility failed to add this [chars] client, reason given is [chars].

Explanation	This indicates the RF facility could not add the client.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-REGISTRATION : ISSU [chars] failed for [chars]; [chars]

Explanation	An ISSU registration for the set of initial capabilities and sessions failed due to the reason specified. This will have the effect of the SPA MARMOT ID ISSU support being unavailable between peers.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-ISSU_OP : [chars] [chars] failed; [chars]

Explanation	An operation pertaining to the ISSU support for SPA MARMOT IDs failed to complete using the CF transport context with the reason specified
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-TRANSFORM : [chars] of [chars] via CF failed

Explanation	An attempt to either encode or decode a versioned synchronization message has failed due to an internal error encountered by the ISSU component.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-TRANSMIT : Unable to send via [chars] [chars] [chars] [chars]; [chars]

Explanation	An attempt to send a versioned negotiation or synchronization message has failed due to an internal error encountered by the CF component.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-NEGOTIATION : Failed to start ISSU [chars] session negotiation; [chars]

Explanation The ISSU negotiation with the peer failed to start for either the CF or IPC transport with the reason specified.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-6-READY : [chars] peer not ready, discarding [chars]

Explanation The synchronization attempt for the message has determined that the transport has lost communication with its peer. This is a normal situation which indicates that the standby route-processor is currently out of service implying a simplex redundancy mode.

Recommended Action

%IOSXE_RP_IF_FLOW_IDS-3-DECODE : Decode via CF of [chars] failed

Explanation A message sent via the CF transport failed in its attempt to be decoded on the standby. The resultant action taken by the standby route processor is an attempt to resynchronize.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_IF_FLOW_IDS-3-RECEIVE : Client reports message CF is [chars]

Explanation An attempt to receive and process a versioned negotiation or synchronization message has failed due to an internal error being detected by the information received from the CF component.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_RP_MGMTE**%IOSXE_RP_MGMTE-3-MSGCREATENULL : Cannot allocate [chars] TDL message**

Explanation	An unexpected condition in which IOS cannot allocate TDL message for Management ethernet.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_MGMTE-3-MSGTDLINITERROR : Management ethernet interface messaging module initialization failed: Unable to initialize messaging: [chars]

Explanation	The Management ethernet interface subsystem has failed to initialize the infrastructure for messaging with the Pluggable Services Daemon. Configuration of management ethernet modules cannot proceed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_MGMTE-3-PROCESS_CREATE_FAIL : Management ethernet statistics process creation failed

Explanation	Can not create IOS process for RP management ethernet port statistics collection
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_RP_NV**%IOSXE_RP_NV-3-NV_ACCESS_FAIL : Initial read of NVRAM contents failed**

Explanation	This error happens when the contents of the NVRAM cannot be read during system initialization. The failure may be due to data corruption of the NVRAM contents. The initial configuration dialog will be entered and the configuration must be restored.
Recommended Action	LOG_STD_ACTION

%IOSXE_RP_NV-3-BACKUP_NV_ACCESS_FAIL : Initial read of backup NVRAM contents failed

Explanation This error happens when the contents of the backup NVRAM cannot be read during system initialization. The failure may be due to data corruption of the backup NVRAM contents. The primary nvram contents will be backed up here again.

Recommended Action LOG_STD_ACTION

IOSXE_RP_SPA

%IOSXE_RP_SPA-3-SEND_NGIO_MSG_FAIL : NGIO Module message send failed for slot [dec] subslot [dec]

Explanation Failed to send ngio msg to iomd.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-MAC_FILTER_ADD_FAIL : All the available [dec] mac filters for [chars] have been consumed. Failed to add [enet] for interface [chars]

Explanation The hardware cannot support any more filters.

Recommended Action The interface configuration should be reworked to not cross the limit set by the hardware. If the error is still seen please LOG_STD_SH_TECH_ACTION

%IOSXE_RP_SPA-3-SEND_L2_HDR_MSG_FAIL : slot [dec] subslot [dec]

Explanation Failed to send ngio L2 header to iomd.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-NO_HOST_INFO : slot [dec] subSlot [dec], spaType [hex]

Explanation Failed to get information about the host linecard.

%IOSXE_RP_SPA-3-NO_HOST_INFO : slot [dec] subSlot [dec], spaType [hex]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-MAX_SPA : Power to IPSEC-SPA-2G in [chars] is denied because it has exceeded the number allowed([dec])

Explanation The number of IPSEC-SPA-2G in a chassis is limited. This message is displayed when the number of IPSEC-SPA-2G in the chassis has exceeded this limit.

Recommended Action Use only the number of supported IPSEC-SPA-2G

%IOSXE_RP_SPA-3-SPA_NO_HOST_INFO : slot [dec] subSlot [dec], PID [chars]

Explanation Failed to get information about the host linecard.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-HWIDB_FAILURE : Creation: slot [dec] subSlot [dec] port [dec] vc [dec]

Explanation Failed to create an interface hwidb.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-INVALID_PORT_NUM : slot=[dec] port=[dec], hwidbType=[hex], max_port_num=[dec], LCtype=[hex]

Explanation The port number is out of range.

%IOSXE_RP_SPA-3-INVALID_PORT_NUM : slot=[dec] port=[dec], hwidbType=[hex], max_port_num=[dec], LCtype=[hex]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-4-SPA_RESP_CMD_MISMATCH : [chars]: Expecting response to interface configuration command [int] but received response to command [int].

Explanation An internal synchronization error occurred while configuring the interface. The configuration may not have succeeded.

Recommended Action Check that the running configuration for the interface is correct. If this message occurred on the standby, try reloading the standby to ensure that its configuration is in sync. If this message is repeatable, please LOG_STD_SH_TECH_ACTION

%IOSXE_RP_SPA-6-CARDRELOAD : Module [int] reload due to SPA insert in [int]/[int].

Explanation When inserting a SPA on this carrier card, the card is reset.

Recommended Action No action is required.

%IOSXE_RP_SPA-6-CTRLRSWITCH : switching controller type from [chars]([dec]) to [chars]([dec]) for subslot [int]/[int].

Explanation When IOSXE-SIP40 is inserted in the slot previously occupied by IOSXE-SIP10 or vice-versa the controller type of the card is overwritten to reflect the current SIP.

Recommended Action No action is required.

%IOSXE_RP_SPA-4-SPA_CMD_NO_RESP : [chars]: No response for interface configuration command [int]

Explanation A timeout occurred while RP was waiting for a response from line card. This may happen due to line card CPU being too busy to respond to the command.

Recommended Action No action is required.

%IOSXE_RP_SPA-3-IPCALLOCFAIL : Failed to allocate IPC buffer [chars]

Explanation	The RP failed to allocate a buffer for communication with a SPA
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-DPIDX_LKUP_FAIL : Failed to retrieve datapath identifier for interface [chars]

Explanation	The SPA driver is not able to retrieve the datapath identifier for the interface specified in the message. This indicates a software error.
Recommended Action	No action is required.

%IOSXE_RP_SPA-3-FLOWID_ALLOC_FAIL : Failed to allocate a flow control identifier for interface [chars]

Explanation	The SPA driver is not able to allocate the datapath flow control identifier for the interface specified in the message. This indicates a software error.
Recommended Action	No action is required.

%IOSXE_RP_SPA-3-FLOWID_RELEASE_FAIL : Failed to release a flow control identifier for interface [chars] (status = [dec])

Explanation	The SPA driver is not able to release the datapath flow control identifier for the interface specified in the message. This indicates a software error.
Recommended Action	No action is required.

%IOSXE_RP_SPA-3-VC_PROV_FAIL : Failed to provision interface [chars]

Explanation	The SPA driver is not able to provision the interface specified in the message. Verify that the SPA hardware is not provisioned above the supported limit. Otherwise, this indicates a hardware error.
Recommended Action	No action is required.

%IOSXE_RP_SPA-3-CI_UPDATE_FAIL : Failed to update connection identifier for interface [chars]

Explanation The SPA driver is not able to update the datapath connection identifier for the interface specified in the message. This indicates a software error.

Recommended Action No action is required.

%IOSXE_RP_SPA-3-NULL_DATA_STRUCTURE : common_str_empty_str

Explanation A SPA driver is not able to retrieve the data structure mentioned in the message. This indicates a software error.

Recommended Action No action is required.

%IOSXE_RP_SPA-3-HWIDB_INIT_FAIL : Failed to initialize data structure for SPA port [dec]/[dec]/[dec]

Explanation A SPA driver was not able to properly initialize a data structure mentioned in the message. This indicates a software error.

Recommended Action No action is required.

%IOSXE_RP_SPA-3-ERROR : common_str_empty_str

Explanation This message can take many forms. It provides information about a software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-ERROR_INFO : common_str_empty_str

Explanation This message can take many forms. It provides information about a software error without traceback.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-4-LCLOG_TOOLONG : Message too long from slot [int]/[int]: [int] bytes

Explanation	The SPA module passed down a logger message that is too long for the RP to handle.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-4-LCLOG_PARSE_ERR : Error parsing logger message: [chars] from subslot [int]/[int]

Explanation	The SPA module passed down a logger message that could not be parsed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-BAD_IFCOMTYPE : Bad ifcom message type=[int]

Explanation	A SPA module passed down a message that the RP software was not prepared to handle.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-4-IPCFAILED : IPC failed to send RPC message to SPA module

Explanation	The RP failed to send an RPC message via IPC to a SPA module.
Recommended Action	No action is required.

%IOSXE_RP_SPA-3-FOREVER : cmd [int] to [chars] (slot [int]/[int]) took [int]secs, done [hex]

Explanation	A CCB command from the RP to a SPA module took longer than expected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-4-SEMAHOG : Process [dec] ([chars]) hogging [chars]! calling proc [dec] ([chars])

Explanation The RP waited too long for a reply to a command sent to a SPA module.

Recommended Action No action is required.

%IOSXE_RP_SPA-3-IPCPORTFAIL : Failed to open IPC port '[chars]' with error [chars]

Explanation The RP failed to open a port for communication with a SPA module.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-4-CCB_PLAYBACK_ERROR : CCB playback failed for slot [dec].

Explanation The High Availability component for SPA modules failed to synchronize some new state information for the specified slot.

Recommended Action Reload the standby supervisor module to force a fresh bulk synchronization. If this error recurs, LOG_STD_ACTION

%IOSXE_RP_SPA-4-CCB_RECORD_ERROR : CCB record failed for slot [dec].

Explanation The High Availability component for SPA modules failed to record some new state information for the specified slot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-IPCSENDFAIL : Failed to send IPC message [chars]

Explanation The RP failed to send a message to a SPA module.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-IFCFG_NO_UNIQUE_KEY : No unique-key generator registered for interface configuration command [int].

Explanation The High Availability component for SPA modules is unable to properly synchronize state information for the current configuration.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-IFCFG_FOREVER : to [chars] (slot [int]/[int]) took [int]secs, ret_val [int]

Explanation A interface config command from the RP to a SPA module took longer than expected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-4-IFCFG_CMD_TIMEOUT : Interface configuration command ([hex]) to slot [int]/[int] timed out

Explanation The RP sent an configuration command to the slot specified in the error message and received no confirmation for the command.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-IFCFG_CMD_NOT_OWNER : Process '[chars]' waiting for interface configuration command ([hex]) to slot [int]/[int] without acquiring lock owned by process '[chars]'

Explanation A process on the RP sent an configuration command to the slot specified in the error message and a different process waited for the result. This could cause incorrect line card configuration states.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-4-IFCFG_DFLT_LIST_ERROR : For Interface Configuration command [int], default retval list search resulted [hex] for slot [int]/[int]

Explanation	The High Availability component for SPA modules failed to synchronize some new state information for the specified slot.
Recommended Action	LOG_STD_SH_CMD_ACTION(show platform redundancy if-config default-retvals)

%IOSXE_RP_SPA-4-IFCFG_PLAYBACK_ERROR : Interface Configuration command [int] playback failed for slot [int]/[int].

Explanation	The High Availability component for SPA modules failed to synchronize some new state information for the specified slot.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-4-IFCFG_RECORD_ERROR : Interface Configuration command [int] record failed for slot [int]/[int].

Explanation	The High Availability component for SPA modules failed to record some new state information for the specified slot.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-4-INCR_CFG_SYNC_FAIL : [chars] incremental running-config sync for [[dec]/[dec]] failed - [chars]([dec]) , Reload Standby

Explanation	The specified IOSXE incremental running-config sync failed
Recommended Action	Power cycle the redundant supervisor

%IOSXE_RP_SPA-3-IPCPOR : Failed to [chars] IPC port '[chars]', error [chars]

Explanation	The Linecard failed to create a port for communication with the Route Processor (IOSXE-RP).
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%IOSXE_RP_SPA-3-PROGRESSION : Unable to inform RF of bulk sync completion; [chars]

Explanation	The standby has failed to notify the active that its bulks synchronization of the SPA TSM has completed. The resultant action taken by the standby route processor is an attempt to resynchronize.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-VC_FLOWID_ALLOC_FAIL : Failed to allocate a flow control identifier for VC [dec] under interface [chars]

Explanation	The SPA driver is not able to allocate the datapath flow control identifier for the VC/interface specified in the message. This indicates a software error.
Recommended Action	No action is required.

%IOSXE_RP_SPA-3-VC_INGID_ALLOC_FAIL : Failed to allocate a ingress identifier for VC [dec] interface [chars]

Explanation	The SPA driver is not able to allocate the datapath ingress identifier for the VC/interface specified in the message. This indicates a software error.
Recommended Action	No action is required.

%IOSXE_RP_SPA-4-SPA_RESP_CMD_ERR : [chars]: Received response to interface configuration command [chars] with wrong return value [int].

Explanation	An internal error occurred while configuring the interface. The configuration may not have succeeded.
Recommended Action	Check that the running configuration for the interface is correct. If this message is repeatable, please LOG_STD_SH_TECH_ACTION

%IOSXE_RP_SPA-3-FRR_CFG_REC_FAIL : Failed to record fast reroute configuration on [chars]: [chars]

Explanation	This message is displayed when a fast reroute configuration is not properly recorded.
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%IOSXE_RP_SPA-3-FRR_CFG_REC_FAIL : Failed to record fast reroute configuration on [chars]: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_RP_SPA-3-MISSING_SPA_PKG_ERR : sipspa[chars] package is not installed for slot = [dec] and subslot = [dec], SPA bootup failed.

Explanation	This message is displayed when attempting to bootup a SPA without installing a subpackage required for the same.
Recommended Action	Download the sub-package required for the affected SPA from the Cisco CCO software download site and install the same. This SPA can be booted in sub-package mode only. Please refer to the Cisco ASR platform documentation for obtaining and installing sub-packages.

%IOSXE_RP_SPA-3-UNSUPPORTED_SRVCS_SPA : Service SPA ([hex]) in [dec]/[dec] is not supported. SPA bootup failed.

Explanation	This message is displayed when attempting to bootup any service SPA in router running non K9 image, i.e., non-crypto image.
Recommended Action	Download the K9 IOS XE sub-packages and the required sub-package for the given service SPA from the Cisco CCO software download site and install the same. This SPA can be booted in sub-package mode only. Please refer to the Cisco ASR platform documentation for obtaining and installing sub-packages.

%IOSXE_RP_SPA-3-MISSING_SPA_PKG_WARN : sipspa[chars] package is not installed in standby for slot = [dec] and subslot = [dec].

Explanation	This message is displayed in standby console when attempting to bootup or restart or reload a WMA SPA without installing a subpackage in the standby RP, although the SPA is or will be operational due to prior wma spa package installation in active RP. If switchover takes place the WMA SPA will still be operational. But any subsequent soft or hard oir of the SPA will fail due to missing sub package required to boot up the SPA. Hence it is recommended to complete the wma spa package installation in standby also before switchover or immediately after switchover.
Recommended Action	Download the sub-package required for the affected SPA from the Cisco CCO software download site and install the same for the standby RP as is done on active RP. Please refer to the Cisco ASR platform documentation for obtaining and installing sub-packages.

%IOSXE_RP_SPA-3-SPA_WRONGTYPE : Mismatched SPA type ([dec]) in slot [dec]/[dec]. Expected type [dec]. Use 'no card [dec]/[dec]' command to override provisioning and update card type.

Explanation The SPA inserted does not match the currently provisioned SPA type.

Recommended Action Replace wrong SPA with currently provisioned SPA type, or type 'no card' to allow new card type to be discovered.

%IOSXE_RP_SPA-6-MEDIA_AUTOFAILOVER : Media Fail over from ([chars]) to ([chars])

Explanation Gige Media Failover.

Recommended Action This is informational message, Not an error message. Use 'show interface gig' to see the current active media type.

%IOSXE_RP_SPA-3-SONET_ALARM_PROC_ERR : [chars] Error has occurred while processing in the sonet alarm-proc

Explanation Either free/create of the memory failed in SONET alarm proc

Recommended Action

%IOSXE_RP_SPA-3-LIC_REQ_FAILED : [int]/[int]/[int]: Interface enable not allowed - license request failed , err=[hex]

Explanation A 10 Gig License is required to enable this port. License request has been denied by license manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-LIC_REL_FAILED : [int]/[int]/[int]: Failed to release license feature [chars], handle=[hex], err=[hex]

Explanation License release has been denied by license manager

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-LIC_REG_FAILED : [int]/[int]/[int]: Failed to register license feature [chars], err=[hex]

Explanation	License registration has been denied by license manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_SPA-3-IOMD_CONFIG_FAIL : The IOMD return value for CMD ([dec]): code:[hex] msg:[chars]

Explanation	Failed to configure in IOMD.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_RP_VTYMGT**%IOSXE_RP_VTYMGT-3-MSGDISPATCHNULL : Received NULL TDL message**

Explanation	An unexpected condition in which IOS has received a NULL TDL message for Vty Management.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGDISPATCH : Unable to dispatch received TDL messages for Vty Management

Explanation	An unexpected condition has occurred while IOS is trying to dispatch to the TDL message handler functions for received TDL messages for Vty Management.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGMISSINGFIELD : Missing field '[chars]' in TDL Vty Management message '[chars]' received

Explanation	A message missing a required field was received for Vty Management
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGINVALIDFIELDINT : Invalid field '[chars]' in TDL message '[chars]' received: value '[int]' for Vty Management

Explanation	A message with an invalid field value was received for Vty Management
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGINVALIDFIELDSTR : Invalid field '[chars]' value '[chars]' in TDL message '[chars]' received for Vty Management

Explanation	A message with an invalid field value was received for Vty Management
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGERROR : Error '[dec]' handling a received TDL message '[chars]' for Vty Management: [chars]

Explanation	An unexpected condition has occurred while IOS is processing a received Vty Management TDL message
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGBUILDERROR : Error '[dec]' building TDL Vty Management message '[chars]': [chars]

Explanation An unexpected condition has occurred while IOS is building a TDL response message for Vty Management

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGMARSHALERROR : Error '[dec]' marshaling TDL Vty Management message '[chars]': [chars]

Explanation An unexpected condition has occurred while IOS is marshaling TDL response message for Vty Management

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGQUEUEERROR : Error queueing TDL Vty Management message '[chars]'

Explanation An unexpected condition has occurred when IOS attempted to queue a TDL response message for Vty Management

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGBIPCERR : Unable to process received BIPC messages for Vty Management, error: [chars]

Explanation An unexpected condition has occurred while IOS was trying to process a received BIPC message for Vty Management.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGBIPCBUFFER : Unable to acquire a BIPC buffer of length [dec] for sending messages.

Explanation A message was to be sent by IOS, but no BIPC buffer was available. The message to be sent has been discarded and the associated operation failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGEXTAPPUPDATE : Unable to update external application data for line '[dec]'

Explanation An attempt to update the external application for a line failed unexpectedly. The line update failed and if the line number specified is valid, the line was released.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGVTYSVCINIT : Unable to initialize the Vty Management service listen port

Explanation The platform IPC services failed to register the Vty Management service's need for a listen port. The Vty Management service will be unable to process requests. IOS services will be unavailable to external access methods.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-MSGVTYCOUNT : Invalid vty count [dec] detected on initialization

Explanation Upon initialization, the Vty Management subsystem checks that the number of available vtys for the platform is valid.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_RP_VTYMGT-3-SET_ACCESS_FAIL : Installing LIIN interface access control failed

Explanation This error happens when the Vty Management subsystem failed to set the access control function for the LIIN, possibly due to IOS out of memory or corruption. Persistent access features into IOS will not work.

Recommended Action LOG_STD_ACTION

IOSXE_SERVICE_ENGINE

%IOSXE_SERVICE_ENGINE-3-MSGOPENFAIL : Cannot open interface [chars] ([dec])

Explanation During the creation of a Service-Engine interface, it is necessary to program the system parameters in the driver. The driver cannot be opened.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SERVICE_ENGINE-3-MSGSETFAIL : Set id on interface [chars] ([dec])

Explanation During the creation of a Service-Engine interface, it is necessary to program the system parameters in the driver. The failed to accept the programming.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SERVICE_ENGINE-3-MSGINITFAIL : Initialization of interface [chars] failed

Explanation The initialization of the interface mentioned in the error message has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SERVICE_ENGINE-5-SRVENGNOTAVL : Service Engine Not Available

Explanation The Service Engine Not Available.

%IOSXE_SERVICE_ENGINE-5-SRVENGNOTAVL : Service Engine Not Available

Recommended Action No action is required.

IOSXE_SPA

%IOSXE_SPA-3-CREATION_FAILURE : slot=[dec] subslot=[dec], spa_type=[hex], lc_type=[hex].

Explanation Failed to create a SPA object.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-SPA_CREATION_FAILURE : slot=[dec] subslot=[dec], PID=[chars] lc_type=[hex].

Explanation Failed to create a SPA object.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-NULL_VFT : [chars] virtual function table is not initialized. spaType=[hex]

Explanation A required function table is not initialized

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-NULL_VFUNC : [chars] vector is not initialized. spaType=[hex]

Explanation A required function vector is not initialized

%IOSXE_SPA-3-NULL_VFUNC : [chars] vector is not initialized. spaType=[hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_SPA-3-MEM_ALLOC_ERROR : [chars]

Explanation	Memory allocation error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-NULL_SPA_PTR :

Explanation	Pointer to a SPA object is NULL.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-NULL_BAY_PTR :

Explanation	Pointer to SPA bay is NULL.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_SLOT_NUM : slot= [dec], max slot = [dec]

Explanation	An invalid slot number is specified in one of the internal APIs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_SUBSLOT_NUM : subslot= [dec], max subslot = [dec]

Explanation	An invalid subslot number is specified in one of the internal APIs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_DB_NUM : db = [dec], max db = [dec], db intf = [dec], max db intf = [dec]

Explanation	An invalid daughter board number is specified in one of the internal APIs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_RP_SLOT_NUM : slot= [dec], max slot = [dec]

Explanation	An invalid RP slot number is specified in one of the internal APIs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_CPU_NUM : cpu= [dec], max cpu = [dec]

Explanation	An invalid CPU number is specified in one of the internal APIs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_SLOTUNIT_NUM : cardwide-port = [dec], max cardwide-port = [dec]

Explanation	An invalid cardwide-port number is specified in one of the internal APIs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_INDX_RANGE : index1= [dec], index2= [dec], maxIndex= [dec]

Explanation	An invalid index range is specified in one of the internal APIs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_IF_INDEX : index= [dec], spaType=[hex], slot [dec] subSlot [dec] slotunit [dec] vc [dec]

Explanation	Index for the interface is not valid.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_DATA_INSTANCE : interface type [chars], slot [dec] port [dec] vc [dec] : [chars]

Explanation	Data required to support the interface is not available.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-POWER_CYCLE : [chars] occurred on Shared Port Adapter [int]/[int]

Explanation	An error has occurred which will cause the Shared Port Adapter to be power cycled
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-DIAG_CONFIG : [chars] did not complete [dec]/[dec]

Explanation	An error has occurred during diagnostic test.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-UNSUPPORTED_DATA : Data conversion error ([chars], [hex])

Explanation	An internal software error has occurred when converting the data specified in the message from one representation to another.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-IPC_FAILURE : IPC failure while [chars]

Explanation	An error has occurred while preparing or sending an IPC message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-SENDCFGFAIL : Failed to send configuration for [chars] to carrier-card for subslot=[dec]/[dec]

Explanation	Sending configuration failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-CREATE_TDLH_FAILURE : Failed to create SPA [dec]/[dec] handle

Explanation	Failed to create message handle for SPA communication.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-DOMAIN_TDLH_FAILURE : [chars], rc = [dec]

Explanation	Failed to bind message handle for SPA communication.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-SETUP_TDLH_FAILURE : Failed to set the alloc/free handler for SPA [dec]/[dec] handle

Explanation	Failed to set the alloc/free handler for SPA communication.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-DISPATCH_INIT_TDLH_FAILURE : Failed to initialize dispatch path for SPA [dec]/[dec] handle

Explanation	Failed to initialize dispatch path handle for SPA communication.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_SPA_TDL_CCAPI_USAGE :

Explanation	Incorrect usage of an internal API that should only be used on CC.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-6-TDLMSG_INCOMPATIBLE : Failed to copy message [chars] to buffer, not allowed for current domain.

Explanation	Failure to marshal a message indicates an incompatibility with the intended recipient.
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%IOSXE_SPA-6-TDLMSG_INCOMPATIBLE : Failed to copy message [chars] to buffer, not allowed for current domain.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-CREATE_TDLMSG_FAILURE : Failed to create [chars] message for [chars].

Explanation Failed to create/allocate necessary TDL message for SPA communication.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-INVALID_HANDLE : Failed to get a valid IPC handle for type [int], slot [dec], subslot [dec].

Explanation The client handle was found to be NULL for the given type/slot/subslot.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-6-UPDOWN : Interface [chars], link down due to [chars]

Explanation Ethernet link is down due to remote/local fault.

Recommended Action Replace the faulty cable.

%IOSXE_SPA-6-DUAL_RATE_CHANGE : [chars]: [chars]

Explanation Change in rate of the link.

Recommended Action No action is required.

%IOSXE_SPA-3-SPA_SETUP_FAILURE : Failed to properly setup for SPA communication on slot [dec], subslot [dec].

Explanation	Discovery of the linux interface used to communicate with a SPA failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SPA-3-ABANDON_SPA_CONFIGURATION : Abandon configuration for subslot [dec]/[dec], the SPA type([dec]) is NOT match with SUP card.

Explanation	Abandon SPA configuration.
Recommended Action	Please check the startup configuration, use no card command to override wrong card configuration and update card type.

IOSXE_SYS_INFRA

%IOSXE_SYS_INFRA-6-BIPC_READ_ERR : connection read error from [chars], rc [dec], bring down IPC id [dec] for fd [dec] seq [dec]

Explanation	BIPC error during IPC read
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-6-BIPC_READBUF_ERR : process receive buffer error from [chars], rc [dec], bring down IPC

Explanation	BIPC error during IPC read from buffer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-6-BIPC_DISCONNECT : disconnect by application for [chars], bring down IPC

Explanation	BIPC disconnect requested by an application
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-6-BIPC_WRITE_ERR : write bipc error for [chars], rc [dec], bring down IPC

Explanation	BIPC error during IPC read
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-6-BIPC_CREATE : bipc connect succeeded for [chars], ipc_ctl_id [dec], ipc_fd [dec], seq [dec]

Explanation	BIPC connect succeeded
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-BIPC_CREATE_FAIL : Failed to open IPC port '[chars]' for service '[chars]' with error [chars].

Explanation	BIPC connect failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-BIPC_DISCONNECT_FAIL : Failed to disconnect IPC port '[chars]' for service '[chars]' with error [chars].

Explanation	BIPC disconnect failed
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%IOSXE_SYS_INFRA-3-BIPC_DISCONNECT_FAIL : Failed to disconnect IPC port '[chars]' for service '[chars]' with error [chars].

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-4-BIPC_TX_Q_THRESHOLD : BIPC transmit queue threshold reached for the channel '[chars]': ipc_ctl_id [dec] (ipc_fd [dec], seq_num [dec]), Tx Q size [dec]

Explanation Large number of unsent IPC messages are queued in a BIPC send buffer

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-4-BIPC_RX_IN_APPL_THRESHOLD : Number of IPC messages held in the application reached the maximum channel threshold. IPC channel '[chars]': ipc_ctl_id [dec] (ipc_fd [dec], seq_num [dec]), curr IPC msg hel in appl [dec]

Explanation Application is holding large number of received IPC messages

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-EVLIB_EPOLL_ARGS : evGetEpollArgs returned fd [dec]

Explanation Evlib returned a huge FD value that IOS can not handle.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-6-EOBC_ADDR_CACHE : EOBC ip-table cache: [chars]

Explanation Unable to setup internal address for eobc communication

%IOSXE_SYS_INFRA-6-EOBC_ADDR_CACHE : EOBC ip-table cache: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_SYS_INFRA-3-EOBC SOCK : Socket event for [chars]

Explanation	An internal socket level event has returned an error which is indicated. This may have been the result of a bind, peek, receive or send operation with respect to the EOBC interface listed.
Recommended Action	LOG_STD_SH_CMD_ACTION(show eobc, show platform software infrastructure bipc)

%IOSXE_SYS_INFRA-3-EWRITE_EVENT_FD : Write to [chars] wakeup fd failed, errno [dec], current signal/wakeup cnt: [int]/[int]

Explanation	Triggering a thread by writing to its wakeup fd failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-EREAD_EVENT_FD : [chars] read from wakeup fd failed, errno [dec]

Explanation	A thread reading from its wakeup fd failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-EIOS_POLL : IOS thread poll on event lib and wakeup fds failed, errno [dec]

Explanation	IOS thread poll on event lib and wakeup fds failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-EIOS_EVDISPATCH : IOS scheduler event dispatch failed, ev_ret [dec], errno [dec]

Explanation	IOS scheduler event dispatch failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-EIOS_EVGETNEXT : IOS scheduler get next event failed, ev_ret [dec], errno [dec]

Explanation	IOS scheduler get next event failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-EFP_EVDISPATCH : Fastpath thread event dispatch failed, ev_ret [dec], errno [dec]

Explanation	fastpath thread event dispatch failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-EFP_EVGETNEXT : Fastpath thread get next event failed, ev_ret [dec], errno [dec]

Explanation	Fastpath thread get next event failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-EFP_EPOLL_WAIT : Fastpath thread epoll wait failed, errno [dec]

Explanation	Fastpath epoll wait failed
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%IOSXE_SYS_INFRA-3-EFP_EPOLL_WAIT : Fastpath thread epoll wait failed, errno [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_SYS_INFRA-3-EFP_TOP_EPOLL_CTL_FAILED : Fastpath thread top level efd epoll [chars] failed, fd [dec], errno [dec]

Explanation	Fastpath top level efd epoll_ctl operation failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-EFP_IPC_EPOLL_CTL_FAILED : Fastpath thread [chars] [chars] for IPC channel [chars] (ipc id [dec], ipc fd [dec], seqnum [dec]) failed, efd [dec], errno [dec]

Explanation	Fastpath epoll_ctl operation for an IPC channel failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-3-EFP_IPC_EPOLL_NO_IPC_ENTRY : IPC entry not found for ipc fd [dec], seq [dec], events [hex] while processing [chars] from epoll fd [dec]

Explanation	Fastpath failed to find IPC entry after epoll_wait
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-6-FP_IPC_DISCONNECT : IPC channel disconnect for [chars], ipc_ctl_id [dec], fd [dec], seq_num [dec], loc [chars], err [dec] ([chars])

Explanation	An IPC channel in fastpath is terminated
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%IOSXE_SYS_INFRA-6-FP_IPC_DISCONNECT : IPC channel disconnect for [chars], ipc_ctl_id [dec], fd [dec], seq_num [dec], loc [chars], err [dec] ([chars])

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-6-IOS_IPC_CTL_DESTROY : IPC control blk destroy: name [chars], ipc_ctl_id [dec], refcout [dec], need_free [dec]

Explanation An IPC control block is requested to be destroyed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-6-IOS_FREE_IPC_CTL : IPC control blk free: name [chars], ipc_ctl_id [dec], refcount [dec]

Explanation An IPC control block is freed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_SYS_INFRA-4-BIPC_CLEAR_CONN : IPC channel (fd [dec], seq_num [dec]) for service '[chars]' cleared by user

Explanation BIPC disconnect requested by an user with clear command

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_TIMESTAMP_ENGINE

%IOSXE_TIMESTAMP_ENGINE-4-ERROR : NULL

Explanation An unexpected condition has occurred.

%IOSXE_TIMESTAMP_ENGINE-4-ERROR : NULL

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOSXE_TIMESTAMP_ENGINE-3-TSU_ERR : An unexpected condition has occurred at module ([chars])

Explanation	An unexpected condition has occurred at the Interface Module TSU.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_UPGRADE_ROMMON through IPACCESS

- [IOSXE_UPGRADE_ROMMON](#)
- [IOSXE_USB](#)
- [IOSXE_UTD](#)
- [IOSXE_VMAN](#)
- [IOSXE_WCCP](#)
- [IOSXE_WD](#)
- [IOS_LICENSE_IMAGE_APPLICATION](#)
- [IOXN_APP](#)
- [IP](#)
- [IPACCESS](#)

IOSXE_UPGRADE_ROMMON

%IOSXE_UPGRADE_ROMMON-0-ROMMON_UPGRADE_FAIL : ROMMON upgrade failed: partition [chars]

Explanation	An attempt to upgrade the ROMmon failed.
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%IOSXE_UPGRADE_ROMMON-0-ROMMON_UPGRADE_FAIL : ROMMON upgrade failed: partition [chars]

Recommended Action	Check the system messages to see if any messages appeared that might indicate the source of the ROMmon problem. If you do not find any additional information indicating a correctable problem, collect all output on the screen, in particular the console port output after the upgrade rom-monitor command was entered and the output of show rom-monitor, and provide the collected information to a Cisco technical support representative.
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%IOSXE_UPGRADE_ROMMON-0-ROMMON_LOADTEST_FAIL : ROMMON FIPS_140-3 Load test *FAILED*: file [chars]

Explanation	FIPS 140-3 Related Load test failed for the ROMmon.
Recommended Action	Check the system messages to see if any messages appeared that might indicate the source of the ROMmon Load test problem. If you do not find any additional information indicating a correctable problem, collect all output on the screen, in particular the console port output after the upgrade rom-monitor command was entered and the output of show rom-monitor, and provide the collected information to a Cisco technical support representative.

IOSXE_USB

%IOSXE_USB-3-ESHOW_USB : Internal Error locating database for USB Devices.

Explanation	The mcp_usb_devices is incorrect and needs to be changed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_UTD

%IOSXE_UTD-3-ALLOC : Failed to allocate message

Explanation	When attempting to program the dataplane there was not enough memory to allocate the message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_UTD-3-MESSAGE : Failed to send message

Explanation	When the message was being prepared for sending to the data plane, there was an error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_UTD-4-VERSION_INCOMPATIBILITY : UTD package version [chars] does not match recommended UTD package version [chars]

Explanation	The UTD package version does not match the recommended UTD package version embedded in this IOS-XE version.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_UTD-2-VERSION_UNSUPPORTED : UTD package version [chars] is not supported, recommended version is [chars]

Explanation	The UTD package version does not match the required UTD version embedded in this IOS-XE version. This is an unsupported configuration and may behave unexpectedly.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_UTD-4-SIG_UPDATE_CFG : UTD signature updates have been configured - A brief service interruption at the time of update is expected

Explanation	The UTD service will be restarted if a new signature package is found. During this time, if fail-close has been configured (recommended), traffic that would be inspected by UTD will be dropped. Otherwise (default), traffic that would be inspected by UTD will be allowed to pass uninspected. To minimize this service interruption, it is recommended to schedule this operation outside of normal business hours.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_UTD-4-SIG_UPDATE_EXEC : UTD signature update has been executed - A brief service interruption is expected

Explanation	The UTD service will be restarted if a new signature package is found. During this time, if fail-close has been configured (recommended), traffic that would be inspected by UTD will be dropped. Otherwise (default), traffic that would be inspected by UTD will be allowed to pass uninspected. To minimize this service interruption, it is recommended to execute this operation outside of normal business hours.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_UTD-4-MT_CONFIG_DOWNLOAD : UTD MT configuration download has [chars]

Explanation	In UTD multitenancy mode, the configuration download to the container can take a while. Please be patient.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_UTD-4-MT_CONTAINER_MESSAGE_TIMEOUT : UTD message sent to the container has timed out

Explanation	The UTD message sent to the container has timed out.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_UTD-4-MT_CONTAINER_MESSAGE_NAK : Container responded to UTD message with an error: [dec]

Explanation	The container rejected the UTD message
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_UTD-4-MT_CONTAINER_SESSION_TIMEOUT : UTD container download has timed out

Explanation	The container did not respond with an up/down status before the session timed out.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_UTD-4-MT_CONTAINER_STATUS_DOWN : UTD poll: container status is DOWN

Explanation	The container sent a down status to the poll message
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_VMAN

%IOSXE_VMAN-3-MSGINITFAIL : Failed to initialize required Virt-manager resource: [chars]

Explanation	During the initialization of the resources required by Virt-manager, a failure occurred. This has prevented virtual services from being activated.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_VMAN-3-MSGDISPATCH : Unable to dispatch received TDL message from Virt-manager

Explanation	An unexpected condition has occurred while IOS was trying to dispatch a TDL message received from Virt-manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_VMAN-3-RSPMSGHDLR : Failed to deliver response message: [chars]

Explanation	An unexpected condition has occurred while IOS was trying to deliver a response message to a virtual service received from Virt-manager.
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%IOSXE_VMAN-3-RSPMSGHDLR : Failed to deliver response message: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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IOSXE_WCCP

%IOSXE_WCCP-4-NOINPUT : NULL input, [chars]

Explanation	An unexpected condition has occurred which is due to the NULL value of the input parameter.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip wccp command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_WCCP-4-NOSVGRP : [chars] Service Group ([dec], [dec], [int]) NOT exist

Explanation	An unexpected condition has occurred which is due to the absence of the service group structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip wccp command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_WCCP-4-NOACL : Access list is null

Explanation	An unexpected condition has occurred which is due to the absence of an access list structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip access-lists command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_WCCP-4-ACELIMIT : Too many ACEs in MASK ACL, please switch to Hash mode

Explanation	Mask merged ACL generate too many ACEs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip access-lists command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_WCCP-4-BADACE : Access list contains invalid ace

Explanation	An unexpected condition has occurred which is due to an invalid statement in the access list structure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show ip access-lists command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_WCCP-4-NOINTF : No [chars] interface info for Service Group ([dec], [dec], [int])

Explanation	An unexpected condition has occurred which is due to the absence of MCP WCCP interface info for the specific service group.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show platform software wccp command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_WCCP-4-UNKNOWNDIR : Unknown [chars] interface direction [hex] for Service Group ([dec], [dec], [int])

Explanation	An unexpected condition has occurred which is due to the unknown direction has been applied to the interface for the service group.
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%IOSXE_WCCP-4-UNKNOWNDIR : Unknown [chars] interface direction [hex] for Service Group ([dec], [dec], [int])

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show platform software wccp** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_WCCP-4-NOSTATS : WCCP [chars] message error

Explanation An unexpected condition has occurred which is due to the error in receiving WCCP stats update message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show platform software wccp <id> counters** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_WCCP-4-NOSTATSSVC : Service Group ([dec], [dec], [int]) not exist for the stats message

Explanation An unexpected condition has occurred which can't find the service group for the service group stats message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show platform software wccp** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOSXE_WCCP-4-NOSTATSINTF : Interface handle [int] not exist for the stats message

Explanation An unexpected condition has occurred which can't find the interface handle for the interface stats message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show platform software wccp <id> int counters** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

IOSXE_WD**%IOSXE_WD-2-HEARTBEAT_FAIL : Heartbeat is not emitted. Heartbeat count:[dec]**

Explanation	Failure in IOS to generate a heartbeat is an abnormal condition
Recommended Action	This message may be related to an abnormal configuration and system load, or transient high processing demand. When reporting this message, copy the message text exactly as it appears, include the stack trace and report to your technical support representative

%IOSXE_WD-2-HOG_DETECT_FAIL : CPUHOG detection failed to start.

Explanation	Failure in setting up CPUHOG detection mechanism is an abnormal condition
Recommended Action	This message may be related to an abnormal configuration and system load, or transient high processing demand. When reporting this message, copy the message text exactly as it appears, include the stack trace and report to your technical support representative

IOS_LICENSE_IMAGE_APPLICATION**%IOS_LICENSE_IMAGE_APPLICATION-3-FAILED : [chars]**

Explanation	The ios licensing subsystem failed to create a process/watched boolean etc to watch request from the remote show subsys license commands
Recommended Action	please capture the error msg and forward it to the appropriate licensing component

%IOS_LICENSE_IMAGE_APPLICATION-3-UNKNOWN_EVENT : [chars]

Explanation	The ios image licensing subsystem received an event which it does not understand or recognizes
Recommended Action	please capture the error msg and forward it to the appropriate licensing component

%IOS_LICENSE_IMAGE_APPLICATION-3-UNKNOWN_VERSION : [chars]

Explanation	
Recommended Action	

%IOS_LICENSE_IMAGE_APPLICATION-6-NO_LICENSE : No valid license available: [chars] = [chars]; [chars] = [dec]; [chars] = [chars]:[chars]

Explanation	The ios image licensing subsystem received an event for an unknown version of a feature There is no valid license available on the box and we are running on a default feature
Recommended Action	please capture the error msg and forward it to the appropriate licensing component please purchase a license to activate required features

%IOS_LICENSE_IMAGE_APPLICATION-6-LICENSE_LEVEL : Module name = [chars] Next reboot level = [chars] and License = [chars]

Explanation	This is an informational message to display the change in the next reboot license level
Recommended Action	This is an informational message, no action is required

%IOS_LICENSE_IMAGE_APPLICATION-6-LICENSE_LEVEL_CONFIG : Please issue 'license boot' config command to make extension license ([chars]) available for use.

Explanation	This is an informational message to info user that to make extension license available to support image level, licensing image level needs to be configured
Recommended Action	This is an informational message, no action is required

%IOS_LICENSE_IMAGE_APPLICATION-6-LICENSE_CONFIG : EULA must be accepted for license level = [chars]

Explanation	This is an informational message to inform user that the user needs to reissue the command from an interactive terminal
Recommended Action	This is an informational message, no action is required

IOXN_APP

%IOXN_APP-3-INITFAIL : Failed to create chasfs property ioxman (rc =[chars]) or caf (rc = [chars]) is not up

Explanation	An unexpected condition resulted into failure to start an application.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOXN_APP-3-CLEANUPFAIL : Failed to create chasfs property to indicate cleanup of previous app installation (rc = [chars])

Explanation	An unexpected condition resulted in failure to setup the start of an application.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOXN_APP-3-GSFAIL : [chars] [int]

Explanation	An unexpected condition resulted into failure to start an application.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOXN_APP-3-CFGFAIL : [chars] [chars]

Explanation	An unexpected condition resulted into failure to apply auto config
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOXN_APP-3-PREVOPFAIL : Overriding previous operation ([chars] iox) that is taking longer than [int] secs to complete

Explanation	An unexpected condition resulted in failure to apply iox config
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOXN_APP-3-MSGFAIL : Message dispatch failure ([chars]).

Explanation	Message could not be dispatched to an application.
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%IOXN_APP-3-MSGFAIL : Message dispatch failure ([chars]).

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IOXN_APP-6-LICENCE_CHECK_INFO : [chars]

Explanation	Informational log about license.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOXN_APP-6-STARTUP_CONFIG_INFO : [chars]

Explanation	Informational logs for startup config injection.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOXN_APP-6-STARTUP_CONFIG_CHASSIS_INFO : [chars] [dec]/[chars]/[dec]/[dec]

Explanation	Chassis information at startup config injection.
Recommended Action	No action is required.

%IOXN_APP-3-STARTUP_CONFIG_FAIL : [chars] [chars]

Explanation	Error while creating startup config
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOXN_APP-3-IPCINITFAIL : [chars]

Explanation	A critical IPC initialization error occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IOXN_APP-6-SLOT_NOTIFICATION : [chars] [dec]

Explanation	Slot addition or removal information
Recommended Action	No action is required.

IP

%IP-4-CLASS : Bad IP address and mask [IP_address]%m in class_resolve()

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-4-DUPADDR : Duplicate address [IP_address] on [chars], sourced by [enet]

Explanation	Another system is using your IP address.
Recommended Action	Change the IP address of one of the two systems.

%IP-4-ZERO_ADDR : Zero MAC address for [IP_address] in ARP cache

Explanation	An entry in the ARP cache have a NULL MAC address
Recommended Action	If this message recurs, call your technical support representative for assistance.

%IP-3-DESTHOST : src=[IP_address], dst=[IP_address], NULL desthost

Explanation	An internal software error occurred.
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%IP-3-DESTHOST : src=[IP_address], dst=[IP_address], NULL desthost

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IP-3-BADIPALIGN : Invalid alignment in packet for IP. [chars]=[hex]

Explanation	The packet data structure is misaligned. This condition may result in a small amount of overhead in processing IP traffic.
Recommended Action	Enter a show hardware command and report the output, along with this error message, to your technical support representative.

%IP-3-BADSRUTE : Improper source route. Length [dec] Ptr [dec]

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-6-PHYBCASTDROP : Physical broadcast packet detected and dropped, src=[IP_address], dst=[IP_address]

Explanation	Physical broadcast packet was dropped.
Recommended Action	No action is required.

%IP-6-L2MCASTDROP : Layer 2 Multicast packet detected and dropped, src=[IP_address], dst=[IP_address]

Explanation	Layer 2 Multicast packet with Layer3 Unicast Destination was dropped.
Recommended Action	No action is required.

%IP-3-LOPPAK : Looping packet detected and dropped - src=[IP_address], dst=[IP_address], hl=[int], tl=[int], prot=[int], sport=[int], dport=[int] in=[chars], nexthop=[IP_address], out=[chars]options=[chars]

Explanation	A software error occurred.
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%IP-3-LOPPAK : Looping packet detected and dropped - src=[IP_address], dst=[IP_address], hl=[int], tl=[int], prot=[int], sport=[int], dport=[int] in=[chars], nexthop=[IP_address], out=[chars]options=[chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-5-WEBINST_START : Attempting web install from host [IP_address]

Explanation A hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%IP-5-WEBINST_KILL : Terminating DNS process

Explanation A hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-5-WEBINST_COMP : Selected IP address [IP_address]

Explanation A hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-5-WEBINST_RESP : Sending DNS response to [IP_address] (request was for [IP_address])

Explanation A hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-3-CNTRFULL : IP counter block is full (setting protocol [dec])

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-5-TURBOACL : [chars]

Explanation	Error occurred in intialisation of TURBOACL.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show process command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-5-ACL : [chars]

Explanation	Error occurred in IP access checks.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-4-UNICASTRPF : IP unicast reverse-path check disabled on [chars]

Explanation	The IP verify unicast reverse-path feature was disabled because CEF was disabled (either through configuration or due to an internal error).
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-3-LOOPOUTIF : Output interface for packet has been changed for [dec] times and dropped - src=[IP_address], dst=[IP_address], hl=[int], tl=[int], prot=[int], in=[chars], nexthop=[IP_address], out=[chars]

Explanation A software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-3-MAXIRDP : Attempt to send IRDP to proxies exceeding configurable limit: [dec], interface: [chars], secondary = [dec], proxy = [dec]

Explanation The sum of configured secondary addresses and configured proxy addresses exceeds the number of total addresses that the IRDP can support in its implementation.

Recommended Action Reduce the number of either the secondary IP addresses or proxy addresses configured for the interface.

%IP-4-IPPOOLS : Detected a local pool and a DHCP pool with the same name: [chars]

Explanation A local pool and a DHCP pool have been configured with the same name. This may cause conflict during address allocations.

Recommended Action Change the name of one of the two pools

%IP-3-ICMPRATELIMIT : [int]nreachables rate-limited within [int] milliseconds on [chars]. [int] log messages suppressed since last log message displayed on [chars]

Explanation An excessive number of packets are triggering log messages on this interface

Recommended Action change the log threshold with the icmp rate-limit command or find the source of the packets and block the packets from this router

%IP-3-ICMPRATELIMITDF : [int] DF unreachable rate-limited within [int] milliseconds on [chars]. [int] DF log messages suppressed since last log message displayed on [chars]

Explanation An excessive number of packets are triggering log messages on this interface

Recommended Action change the log threshold with the icmp rate-limit command or find the source of the packets and block the packets from this router

%IP-3-NOOUTINTF : Output interface not available. source address: [IP_address], destination address: [IP_address], routing type: [int]

Explanation	The output interface for this packet is not set
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-3-NONALIAS : non-alias address [IP_address] in table [chars] found in IP alias list

Explanation	The IP alias list holds IP aliases only but non-alias entries are found.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-3-IPTOPOID : Topology ID [hex] is invalid, can't get the base topology ID.

Explanation	An internal software error occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IP-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation	Initialization of the specified subblock data structure could not be accomplished.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IPACCESS

%IPACCESS-2-NOMEMORY : Alloc fail for acl-config buffer. Disabling distributed mode on lc

Explanation	Unable to malloc a buffer to send access-list configuration down to linecards.
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%IPACCESS-2-NOMEMORY : Alloc fail for acl-config buffer. Disabling distributed mode on lc

Recommended Action	Enter a show chunks command and report the output, along with this error message, to your technical support representative.
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%IPACCESS-2-WRONGREQUEST : Invalid request to allocate chunk of size [dec]

Explanation	We only allow acl chunks of max size IPACCESS_LARGE_CHUNK_SZ
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Recommended Action	
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%IPACCESS-2-WRONGSIZE : Incorrect length acl ipc xdr of type=[chars] len=[dec] received

Explanation	Received an acl message of the wrong size for that type
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Recommended Action	Report this error message, to your tech support representative.
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%IPACCESS-4-INVALIDACL : Invalid ACL field: [chars] is [dec]

Explanation	An internal software error occurred.
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Recommended Action	Copy the message exactly as it appears, and report it to your technical support representative.
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%IPACCESS-3-SANITY_ERROR : [chars]

Explanation	A sanity error occurred while the ACL was being configured on the RP, or while the ACL configuration was being downloaded to the line card.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IPACCESS-3-XDRREGISTRATION : Failed to register [chars] XDR client due to [chars]

Explanation	Failure to register the said XDR client.
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Recommended Action	Copy the message exactly as it appears, and report it to your technical support representative.
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IPC through IPV4_FORWARDING

- [IPC](#)
- [IPC_LOG](#)
- [IPC_TEST](#)
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- [IPMOBILE](#)
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IPC

%IPC-3-LOG_ERR : [chars] CPP QoS Client Proxy failure

Explanation	QoS proxy failed because of receiving invalid sub-type or failed to allocate ipc response buffer.
Recommended Action	LOG_STD_ACTION

IPC_LOG

%IPC_LOG-3-IPC_LOGWRITE_FAILED : ipc log write [int] bytes failed because [chars]

Explanation	An internal logging mechanism failed to write a message.
Recommended Action	No action is required. However, if router performance is noticeably degraded, contact Cisco Technical Assistance. Copy the message exactly as it appears on the console or in the system log. Research and attempt to resolve the issue using the tools and utilities provided at http://www.cisco.com/tac . With some messages, these tools and utilities will supply clarifying information. Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

IPC_TEST**%IPC_TEST-3-INVALID_SUBTYPE : CPP IPC TEST Proxy subtype [int]**

Explanation IPC test proxy failed because of receiving invalid sub-type.

Recommended Action LOG_STD_ACTION

%IPC_TEST-3-REPLY_FAILED : CPP IPC TEST Proxy send reply

Explanation IPC test proxy failed because the reply failed to send.

Recommended Action

%IPC_TEST-3-MEM_ALLOC_FAILED : CPP IPC TEST Proxy mem alloc

Explanation IPC test proxy failed because the GPM allocation failed.

Recommended Action

IPFAST**%IPFAST-2-RADIXINIT : Error initializing IP fast cache structures**

Explanation A programming error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPFAST-2-IPCACHEINIT : Error initializing IP fast cache structures

Explanation A programming error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%IPFAST-2-MSGDROP : IPC queue limit is reached and message is dropped. queue limit = [dec] cumulative drops = [dec]

Explanation	IPC raw queue limit for IP fast path is reached.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPFAST-6-PAKSHORT : Packet too short from [IP_address], datagram size [dec], tl [dec]

Explanation	An IP packet which is too short was received
Recommended Action	No action is required.

%IPFAST-2-INVALSIZE : The IP fast path received an IPC message with an invalid size(size/type - [dec]/[dec])

Explanation	The IP fast path switching module has received an IPC message with an invalid size.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPFAST-2-FAILOPENIPCPORT : Could not open the IPC ports. [chars]

Explanation	ipfast could not open the ipc port to communicate to the LC/RRP/SP.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IPFLOW**%IPFLOW-2-QUEUEINIT : Error initializing Flow feature queue**

Explanation	Initialization of the Flow feature queue could not be accomplished because of a low memory condition.
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%IPFLOW-2-QUEUEINIT : Error initializing Flow feature queue

Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.
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%IPFLOW-3-DISABLEFLOWEXPORT : NULL

Explanation	Flow export is disabled because export destination address matches with one of the interface's IP addresses
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Recommended Action	IP addresses of all the interfaces must be checked to make sure none of them matches with flow export destination IP address.
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%IPFLOW-2-PROCESSINIT : Error initializing Flow background process

Explanation	Initialization of the Flow background process could not be accomplished because of a low memory condition.
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Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.
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%IPFLOW-2-CACHEINIT : Error initializing IP flow cache

Explanation	Initialization of the Flow cache could not be accomplished because of a low memory condition.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IPFLOW-2-EXPORTINIT : Error initializing Flow Export queue

Explanation	Initialization of the Flow export queue could not be accomplished because of a low memory condition.
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Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.
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%IPFLOW-2-TEMPLATETBL_INIT : Error initializing Flow Export Template Table

Explanation	Initialization of the Flow export template table could not be accomplished because of a low memory condition.
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%IPFLOW-2-TEMPLATETBL_INIT : Error initializing Flow Export Template Table

Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.
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%IPFLOW-4-V9_TEMPLATE_EXPORT : Error creating [chars]

Explanation	Version 9 export template length is zero
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Recommended Action	This is a debug message only. No action is required.
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%IPFLOW-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation	Initialization of the specified subblock data structure could not be accomplished.
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Recommended Action	
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IPMOBILE

%IPMOBILE-6-REDUPDATEFAIL : Too many redundancy update failures ([dec]) in the last minute.

Explanation	The standby HA attempts to update its binding table by contacting the active HA several times each minute. Some or all of these attempts failed and the number of failures exceeded a threshold number.
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Recommended Action	Ensure connectivity between the active HA and the standby HA. Also make sure the clocks are in sync between the two and that the security associations are properly set between the two. If the preemption delay is set, try setting it to a shorter time period.
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%IPMOBILE-6-DUPMOBNET : Unable to [chars] dynamic mobile network [IP_address] [IP_address] for MR [chars]; already [chars] MR [chars]

Explanation	A mobile router's attempt to dynamically add or delete a mobile network failed because that mobile network was already statically configured for or dynamically registered by another mobile router. A mobile network may be configured or registered for only one mobile router.
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Recommended Action	To avoid duplication errors, check the static mobile network configuration on the HA or the dynamic mobile network configuration on the mobile router(s).
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%IPMOBILE-6-DUPVIRTNET : Unable to [chars] dynamic mobile network [IP_address] [IP_address] for MR [chars]; already configured as a virtual network

Explanation	A mobile router's attempt to dynamically add or delete a mobile network failed because that mobile network was already configured as a virtual network in the home agent.
Recommended Action	To avoid duplication errors, make sure that the virtual networks configuration on the home agent and the dynamic mobile network configuration on the mobile router do not have any overlapping network prefixes.

%IPMOBILE-3-NOSOCKET : Unable to open socket

Explanation	The requested operation could not be accomplished because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%IPMOBILE-6-SECURE : Security violation on [chars] from [chars] [chars] - errcode [chars] ([dec]), reason [chars] ([dec])

Explanation	A security violation occurred during registration attempt.
Recommended Action	This is for informational purpose only.

%IPMOBILE-2-ASSERTFAILED : IPMOBILE assertion failed: [chars]

Explanation	The software detected an inconsistency. This is considered a serious error. The router attempts to continue, but IP Mobility processing may be impaired.
Recommended Action	Copy the error message exactly as it appears, noting any IP Mobility problems that you are experiencing, and report it to your technical support representative.

%IPMOBILE-3-CONFIGERROR : Standby FA configuration is not in sync with the active

Explanation	The software detected an inconsistency in configuration between the standby and the active. Standby FA may not proceed with the sync for this visitor.
Recommended Action	Re-configure standby FA and make sure the configuration between the standby and the active is in sync.

%IPMOBILE-3-NOTUNNEL : Maximum number of tunnels [dec] reached

Explanation	The number of Mobile IP tunnels allowed on the box is reached.
Recommended Action	This occurs if the HA/FA is overloaded. If you suspect this condition contact technical support representative with the output of show tech

%IPMOBILE-5-MIP_TUNNELDELETE : Mobile IP tunnel [chars] deleting

Explanation	The Mobile IP tunnel is going to be deleted.
Recommended Action	This occurs if the active mobile ip binding is deleted. If you suspect this condition contact technical support representative with the output of show tech

%IPMOBILE-0-NOPROCESS : [chars]

Explanation	A Process could not be started
Recommended Action	Please contact your technical support representative with the error message you got and with the output of 'show process '.

%IPMOBILE-0-IPMOBILE_DHCP : [chars]

Explanation	Two reasons for this error message, 1. DHCP Client failed to get started, this could be because of malloc failures. 2. IPMOBILE DHCP Process failed to start
Recommended Action	If this error message is seen it is recommended not to use this HA for binding creation with DHCP Address Allocation. Check the available memory in the box and for the first reason try to get 'debug dhcp detail' before the failure. Contact your technical support representative with the error message you got.

%IPMOBILE-3-SA_PARSE_FAILED : Error in parsing the security association for [chars]

Explanation	The Mobile IP Home Agent encountered an error while processing the Security Association in the RADIUS Access-Accept message.
Recommended Action	Check the Radius profile config for the Mobile Node for which the processing of the Security Association failed.

IPNAT

%IPNAT-4-ADDR_ALLOC_FAILURE : Address allocation failed for [IP_address], pool [chars] might be exhausted

Explanation	An address could not be allocated from the IP NAT pool. This condition can cause a translation failure and might result in packets being dropped. The counter for misses will be incremented for these packets.
Recommended Action	Check to see if the NAT pool has been exhausted. To reuse any existing addresses in the NAT pool for new packet flows, clear the current NAT entries using clear ip nat translation *

%IPNAT-3-SYSSTATSNUL : NAT global/system statistics structure from platform is nul

Explanation The structure for passing global/systems statistics from platform is nul which is invalid. This condition can cause the NAT global statistic counters in inaccurate on the RP

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-POOLSTATSNUL : NAT pool statistics structure from platform is nul

Explanation The structure for passing global/systems stats from platform is nul which is invalid. This condition can cause the statistic counters for NAT pool to be inaccurate on the RP

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-BADMAPPINGTYPE : NAT mapping type [dec] for mapping statistics from platform is invalid

Explanation The mapping type for passing mapping statistics from platform is not for static nor dynamic mapping type which is invalid. This condition can cause the statistic counters for NAT mapping to be inaccurate on the RP

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-MAPPINGSTATSNUL : NAT mapping statistics structure from platform is nul

Explanation The structure for passing mapping statistics from platform is nul which is invalid. This condition can cause the statistic counters for NAT mapping to be inaccurate on the RP

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-LIMITSTATNULL : NAT maxentry statistics structure from platform is nul

Explanation	The structure for passing maxentry limit statistics from platform is nul which is invalid. This condition can cause the statistic counters for NAT maxentry limit to be inaccurate on the RP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-PORTNULL : Start port or end port for port block allocation request is nul

Explanation	Start port or end port for port block allocation request is nul, This condition can cause the new translations to fail in the data path
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-PORTLISTNULL : Portlist for address [IP_address] proto [dec] is nul

Explanation	The portlist for the address which requests more port blocks is nul which is invalid. This condition can cause the new translations to fail in the data path
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-WLANSESSNULL : NAT WLAN session structure for session [chars] from platform is nul

Explanation	The structure for passing WLAN session from platform is nul which is invalid. This condition can cause the NAT WLAN session to fail in the data path
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-6-ID : [chars] identifier has wrapped

Explanation The identifier which is assigned to that which is resultant from the configuration in question has cycled through the available number space and is now allocating from its initial value again.

Recommended Action No action is required.

%IPNAT-3-RTMAPNULL : route-map for configuration download is nul

Explanation The route-map structure is nul which is invalid. This condition can cause the new translations to fail in the data path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-CSBNUL : Parser structure for route-map [chars] configuration is nul

Explanation The parser structure for route-map configuraion is nul which is invalid. This condition can cause the new translations to fail in the data path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-RTMAPNAMENUL : Route-map name for [chars] configuration is nul

Explanation The route-map name is nul which is invalid. This condition can cause the new translations to fail in the data path

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-6-ENTRIES : Static translation count reset, inside/outside source/destination [int]/[int] [int]/[int]

Explanation	Upon the removal of the last remaining static translation from the configuration it has been determined that there is a discrepancy with the internal accounting as regards the previous provisioning of inside source/destination versus outside source entries. The internal accounting has been reset to indicate that there are no translations of any type currently.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-CONFIG : Unable to [chars] the configuration of dynamic mappings

Explanation	An internal operation relating to the configuration of the dynamic mappings has failed. This may imply that the mapping has not been installed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-6-PORT_ALLOC : Port allocation via [chars] for [int] [chars] [chars] ports, min [int] max [int]

Explanation	A port allocation request for the specified range of ports has been attempted from the named party on the standby RP. This is an informational message which tracks the request source.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation	Initialization of the specified subblock data structure could not be accomplished.
Recommended Action	

%IPNAT-3-IF_UP : Error in sending interface UP event for [chars] to the ager process

Explanation	An internal operation relating to the interface UP event has failed which is unexpected.
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%IPNAT-3-IF_UP : Error in sending interface UP event for [chars] to the ager process

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IPNAT-3-UNEXPECTED_MAPPING_FLAG : Unexpected mapping flag %#04x received

Explanation	An internal operation relating to notifying the platform about a mapping has provided an unexpected input.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-MAPPING_NULL : Unexpected NULL pointer received as input.

Explanation	An internal operation relating to notifying the platform about a mapping has provided an unexpected input.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT-3-UNEXPECTED_ADDRESS : NULL

Explanation	An address contained an unexpected value.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IPNAT_HA

%IPNAT_HA-3-MISMATCH : [chars] [chars] mismatch with id [int]

Explanation The specified synchronization operation has failed to complete on the standby route processor due to an inconsistency in the internal id which would have resulted in an inconsistent configuration between active and standby. The resultant action taken by the standby route processor is an attempt to resynchronize.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-6-MAPPING_EXISTS : [chars] [chars] [chars] mapping id [int]

Explanation The specified synchronization operation on the standby route processor has detected the presence of an existing matching mapping. This may be associated with any observed PRC failures on the standby.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-6-MAPPING_COMPARE : [chars] [chars] [chars] mapping id [int] comparing [chars] [chars] [chars] mapping id [int]

Explanation The specified synchronization operation on the standby route processor has detected an internal condition with respect to the properties of dynamic mappings. This is informational.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-TRANSFORM : [chars] of [chars] via [chars] failed [chars]

Explanation An attempt to either encode or decode a versioned synchronization message has failed due to an internal error encountered by the ISSU component.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-RECEIVE : Message via [chars] is [chars]

Explanation An attempt to receive and process a versioned negotiation or synchronization message has failed due to an internal error being detected by the information received from the IPC or CF components.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-TRANSMIT : Unable to send via [chars] [chars] [chars] [chars]; [chars]

Explanation An attempt to send a versioned negotiation or synchronization message has failed due to an internal error encountered by the IPC or CF components.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-PROGRESSION : Unable to inform RF of bulk sync completion; [chars]

Explanation The active route processor has sent a notification to the standby to inform of the completion of the bulk synchronization of the NAT configuration. The standby has failed to respond to the active informing that it received the notification noting the reason for the failure. The resultant action taken by the standby route processor is an attempt to resynchronize.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-ISSU : [chars] [chars] failed; [chars]

Explanation An operation pertaining to the ISSU support for NAT failed to complete using either the CF or IPC transport context with the reason specified

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-NEGOTIATION : Failed to start ISSU [chars] session negotiation; [chars]

Explanation	The ISSU negotiation with the peer failed to start for either the CF or IPC transport with the reason specified.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-REGISTRATION : ISSU [chars] failed for [chars]; [chars]

Explanation	An ISSU registration for the set of initial capabilities and sessions failed due to the reason specified. This will have the effect of the NAT ISSU support being unavailable between peers.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-DECODE : Decode via [chars] of [chars] failed

Explanation	A message of the transport and type described failed in its attempt to be decoded on the standby. The resultant action taken by the standby route processor is an attempt to resynchronize.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-BULK_SYNC : Failed to send [chars] information to peer

Explanation	The bulk synchronization of the NAT configuration to the standby RP has failed to complete successfully; NAT has therefore taken the action which will result in a reload of the peer in order to once more attempt to successfully synchronize the configuration state which may have failed initially to a transient condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-DYN_SYNC : Failed to process [chars] dynamic state

Explanation The incremental synchronization of the NAT configuration to the standby RP has failed to complete successfully. This implies that the configuration state between the active and standby RP is inconsistent.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip nat ha** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-DYN_DEFERQ : [chars] failed to defer[chars]

Explanation The incremental synchronization of the NAT dynamic state to the standby RP has failed to add the information to the deferral queue for later processing during the time where the standby RP is progressing to its hot standby redundant state. This implies that the runtime state between the active and standby RP would be inconsistent once the standby has been fully initialized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show ip nat ha** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-6-TIMEOUT : Bulk sync is flow controlled by [chars]

Explanation The bulk synchronization of the NAT configuration to the standby RP has encountered a flow control condition which has effected a timeout awaiting the condition to clear. This will result in a reload of the standby RP to allow the bulk synchronization to restart.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-CLIENT : Failed to register with [chars], [chars]

Explanation The NAT High Availability has failed to register with the specified component during initialization. This is an internal error which indicates that the NAT HA services will be unavailable.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-6-READY : [chars] peer not ready, discarding [chars]

Explanation The synchronization attempt for the message has determined that the transport has lost communication with its peer. This is a normal situation which indicates that the standby route-processor is currently out of service implying a simplex redundancy mode.

Recommended Action

%IPNAT_HA-6-RELOAD : [chars], reloading [chars]

Explanation A synchronization attempt between the active and standby RP peers has failed with the reason indicated. The standby peer is reloaded in an attempt to resynchronize when operating in a stateful redundant mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-6-RELOAD_DISABLED : Standby reload has been disabled, NAT RP state is out of sync and the standby should be reloaded manually

Explanation The active and standby RPs are out of sync and the standby RP would have been reloaded, but this reload was suppressed based on the configured environment.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-ATTRIBUTE : Bulk sync of [chars] via [chars], [chars] is invalid for [chars]

Explanation An attempt to bulk sync an address pool or a dynamic/static translation has detected that the entity which is to be sent to the standby RP when acting in a stateful redundant mode contains an invalid owner property and hence cannot be synchronized. The detection of this case will result in a failure of the bulk sync.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-PURGE : Failed to purge [chars] information

Explanation The synchronization of the NAT configuration state to the standby RP has failed to purge an entry which has been deemed to be stale; NAT has therefore taken the action which will result in a reload of the peer in order to once more attempt to successfully synchronize the configuration state which may have failed initially to a transient condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-6-INTERFACE : [chars] type/slot [hex] uint [int] num [int] channel [int]

Explanation An attempt to sync a dynamic translation or address change has detected that the interface which was encoded on the active RP is not present on the standby RP. The detection of this case may result in a failure of the bulk or LBL sync.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPNAT_HA-3-INTERFACE_TYPE : [chars] type/slot [hex] unit [int] num [int] channel [int] value [int]

Explanation An attempt to sync a dynamic translation or address change has detected that the interface which was encoded on the active RP has a different type the standby RP. The detection of this case will result in a failure of the bulk or LBL sync.

%IPNAT_HA-3-INTERFACE_TYPE : [chars] type/slot [hex] unit [int] num [int] channel [int] value [int]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IPNAT_HA-6-ADDR_CHANGE : [chars] unable to encode data descriptor for interface [chars]

Explanation	An attempt to sync an address change to the standby RP has detected that the interface which was to be encoded on the active RP is no longer present or does not support encoding. The interface may have been removed from the configuration or may not support encoding.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IPSEC

%IPSEC-3-SA_SOFT_BYTE : SA ([hex],[hex])

Explanation	SA Softbyte Lifetime expiry event.
Recommended Action	LOG_STD_ACTION

%IPSEC-3-SA_HARD_BYTE : SA ([hex],[hex])

Explanation	SA Hardbyte Lifetime expiry event.
Recommended Action	LOG_STD_ACTION

%IPSEC-3-IPC_ERR_SA : rc [hex]

Explanation	An error has occurred sending SA Byte Lifetime expiry event.
Recommended Action	LOG_STD_ACTION

%IPSEC-3-ANTI_REPLAY : SA ([hex],[hex])

Explanation Anti Replay check failed for the SA.
Recommended Action LOG_STD_ACTION

%IPSEC-3-SEQNO_OVERFLOW : SA ([hex],[hex])

Explanation Sequence Number overflow for the SA.
Recommended Action LOG_STD_ACTION

%IPSEC-3-UNEXPECTED_ERROR : orh.w0 [hex], error_op [hex], SA ([hex],[hex])

Explanation Unexpected error for the SA.
Recommended Action LOG_STD_ACTION

%IPSEC-3-INVALID_SPI : spi [hex]

Explanation Got an invalid SPI value.
Recommended Action LOG_STD_ACTION

%IPSEC-3-IN_POLICY_MISS : sa [hex], cp sa [hex]

Explanation TCAM miss.
Recommended Action LOG_STD_ACTION

%IPSEC-3-IN_POLICY_FAIL : out sa ([hex],[hex]), out sp ([hex],[hex]), in sa ([hex],[hex]), in sp ([hex],[hex])

Explanation In-Out SP mis-match.
Recommended Action LOG_STD_ACTION

%IPSEC-3-IPC_PAK_ALLOC_SA_EVENT : event [hex], sa [hex]

Explanation IPC pak allocation failed.

%IPSEC-3-IPC_PAK_ALLOC_SA_EVENT : event [hex], sa [hex]

Recommended Action LOG_STD_ACTION

%IPSEC-3-IPC_PAK_SEND_SA_EVENT : rc [hex], event [hex], sa [hex]

Explanation IPC send failed.
Recommended Action LOG_STD_ACTION

%IPSEC-3-IKE_TED_MSG_LIMIT : cnt [dec], sp [hex], cp sp [hex]

Explanation IKE TED Message Limit exceeded.
Recommended Action LOG_STD_ACTION

%IPSEC-3-IKE_TED_MSG_RATE : cnt [dec], sp [hex], cp sp [hex]

Explanation IKE TED Message Rate exceeded.
Recommended Action LOG_STD_ACTION

%IPSEC-3-IPC_PAK_ALLOC : sp [hex], cp sp [hex]

Explanation IPC pak allocation failed.
Recommended Action LOG_STD_ACTION

%IPSEC-3-IPC_PAK_SEND : rc [hex], sp [hex], cp sp [hex]

Explanation IPC send failed.
Recommended Action LOG_STD_ACTION

%IPSEC-3-INVALID_VAL : val [hex]

Explanation Invalid value seen.
Recommended Action LOG_STD_ACTION

%IPSEC-3-IPC_HANDLER_ERR : rc [hex]

Explanation Error setting IPC Handler.**Recommended Action** LOG_STD_ACTION

%IPSEC-3-DROP : result type [hex]

Explanation Classification results in Drop.**Recommended Action** LOG_STD_ACTION

%IPSEC-3-INVALID_SA : sa [hex], cp sa [hex]

Explanation SA is invalid.**Recommended Action** LOG_STD_ACTION

%IPSEC-3-SA_NOT_FOUND :

Explanation SA not found.**Recommended Action** LOG_STD_ACTION

%IPSEC-3-FOR_US_CLEARTEXT_POLICY_FAIL :

Explanation Policy fail for For-Us cleartext packet.**Recommended Action** LOG_STD_ACTION

%IPSEC-3-TRANSIT_POLICY_FAIL :

Explanation Policy fail for transit ipsec packet.**Recommended Action** LOG_STD_ACTION

%IPSEC-3-INTF_NOT_CFG :

Explanation	Got an encrypted packet on an interface on which ipsec is not configured.
Recommended Action	LOG_STD_ACTION

%IPSEC-3-FRAG_MPASS :

Explanation	Multipass Error
Recommended Action	LOG_STD_ACTION

%IPSEC-3-INVALID_PROT : invalid ipsec prot [hex]

Explanation	Got an invalid IPSEC protocol value.
Recommended Action	LOG_STD_ACTION

%IPSEC-3-NO_MEMORY : No memory [hex]

Explanation	No memory to send response back.
Recommended Action	LOG_STD_ACTION

%IPSEC-3-MEM_REQ_FAILED : IPC type [hex]

Explanation	Requesting more memory failed.
Recommended Action	LOG_STD_ACTION

%IPSEC-3-CHUNK_CREATE_FAIL :

Explanation	Chunk creation failed
Recommended Action	LOG_STD_ACTION

%IPSEC-3-CHUNK_DESTROY_FAIL :

Explanation	Chunk destroy failed
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%IPSEC-3-CHUNK_DESTROY_FAIL :

Recommended Action LOG_STD_ACTION

%IPSEC-3-CHUNK_DESTROY_ERROR :

Explanation Chunk destroy error, force cleanup
Recommended Action LOG_STD_ACTION

%IPSEC-3-MEM_EXTEND_FAILED : IPC type [hex]

Explanation Extending memory failed
Recommended Action LOG_STD_ACTION

%IPSEC-3-IPC_INVALID_MSG_LEN : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Invalid IPC message length
Recommended Action LOG_STD_ACTION

%IPSEC-3-MEM_ALLOC_REACHED_LIMIT : IPC type [hex]

Explanation Cannot allocate more memory to store state for IPsec Traffic, reached upper limit.
Recommended Action LOG_STD_ACTION

%IPSEC-3-PKT_TOO_BIG : IPsec Packet size [dec] larger than maximum supported size [dec] hence dropping it, MSGDEF_LIMIT_GLACIAL

Explanation Maximum size for packet with IPSEC encapsulation is 9K, This packet exceeded the size limit hence dropping it.
Recommended Action LOG_STD_ACTION

%IPSEC-3-REPLAY_ERROR : IPsec SA receives anti-replay error, DP Handle [dec], src_addr %Ci, dest_addr %Ci, SPI [hex], MSGDEF_LIMIT_GLACIAL

Explanation Anti-replay error is encountered for this IPsec session.

Recommended Action LOG_STD_ACTION

%IPSEC-3-REPLAY_ERROR_IPV6 : IPsec SA receives anti-replay error, DP Handle [dec], ipv6 src_addr %Ci, ipv6 dest_addr %Ci, SPI [hex], MSGDEF_LIMIT_GLACIAL

Explanation Anti-replay error is encountered for this IPsec session.

Recommended Action LOG_STD_ACTION

%IPSEC-3-RECVD_PKT_NOT_IPSEC : Rec'd packet not an IPSEC packet, dest_addr= %Ci, src_addr= %Ci, prot= [dec], MSGDEF_LIMIT_GLACIAL

Explanation Rec'd packet matched crypto map ACL, but is not IPSEC-encapsulated.

Recommended Action LOG_STD_ACTION

%IPSEC-3-RECVD_PKT_NOT_IPSECV6 : Rec'd packet not an IPSEC packet, dest_addr= %Ci, src_addr= %Ci, prot= [dec], MSGDEF_LIMIT_GLACIAL

Explanation Rec'd packet matched crypto map ACL, but is not IPSEC-encapsulated.

Recommended Action LOG_STD_ACTION

%IPSEC-3-HMAC_ERROR : IPsec SA receives HMAC error, DP Handle [dec], src_addr %Ci, dest_addr %Ci, SPI [hex], MSGDEF_LIMIT_GLACIAL

Explanation HMAC calculation error is encountered for this IPsec session.

Recommended Action LOG_STD_ACTION

%IPSEC-3-HMAC_ERROR_V6 : IPsec SA receives HMAC error, DP Handle [dec], ipv6 src_addr %Ci, ipv6 dest_addr %Ci, SPI [hex], MSGDEF_LIMIT_GLACIAL

Explanation HMAC calculation error is encountered for this IPsec session.

Recommended Action LOG_STD_ACTION

%IPSEC-3-FRAG_ERROR : IPsec SA received fragmented ESP packet, DP Handle [dec], src_addr %Ci, dest_addr %Ci, SPI ([hex]), MSGDEF_LIMIT_GLACIAL

Explanation Fragmented ESP packet is received for this IPsec session.

Recommended Action LOG_STD_ACTION

%IPSEC-3-FRAG_ERROR_IPV6 : IPsec SA received fragmented ESP packet, DP Handle [dec], ipv6 src_addr %CI, ipv6 dest_addr %CI, SPI ([hex]), MSGDEF_LIMIT_GLACIAL

Explanation Fragmented ESP packet is received for this IPsec session.

Recommended Action LOG_STD_ACTION

IPV4_FORWARDING

%IPV4_FORWARDING-2-CAUSE_THROTTLE_ERR : Allocation of ipv4 throttle [chars] memory failed

Explanation Allocation of memory resource use by ipv4 throttle fail

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV4_FORWARDING-3-CAUSE_LINKTYPE_ERR : Unsupported link type - linktype = [dec], dropping packet

Explanation Link type is unsupported at the current time.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV4_FORWARDING-4-CHECKSUM_ERR : Checksum buffer walk failed

Explanation Internal problem occurred during calculating segmented packet checksum.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV4_FORWARDING-3-TABLE_ID_SZ_ERR : Table ID size configured incorrectly: [dec]

Explanation	Table ID size must be less than or equal to 16 or 32 bits.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV4_FORWARDING-3-TRAFFIC_IDX_ERR : Traffic index invalid value: [dec] Buckets allocated: [dec]

Explanation	Traffic index is greater than or equal to the buckets allocated
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.



CHAPTER 5

IPV4_REASS_PROXY through MPLS_TP_MEM

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IPV4_REASS_PROXY through IP_TUNNEL

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IPV4_REASS_PROXY

%IPV4_REASS_PROXY-3-PROXY_IPC_FRAG_INFO_MEM_INIT_FAILED :

Explanation Initialization of fragment information pool failed.

%IPV4_REASS_PROXY-3-PROXY_IPC_FRAG_INFO_MEM_INIT_FAILED :

Recommended Action LOG_STD_ACTION

%IPV4_REASS_PROXY-3-PROXY_IPC_FRAG_INFO_MEM_EXTEND_FAILED :

Explanation Increasing of fragment information pool failed.
Recommended Action LOG_STD_ACTION

%IPV4_REASS_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Explanation IPC handler initialization failed.
Recommended Action LOG_STD_ACTION

%IPV4_REASS_PROXY-4-PROXY_IPC_INVALID_MSG : [hex]

Explanation Received an invalid IPC messages subtype.
Recommended Action LOG_STD_ACTION

IPV6_ACL

%IPV6_ACL-6-ACCESSLOGNP : list [chars]/[dec] [chars] [dec] [IPV6 address] [chars]-> [IPV6 address], [dec] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.
Recommended Action No action is required.

%IPV6_ACL-6-ACCESSLOGDP : list [chars]/[dec] [chars] [chars] [IPV6 address] [chars]-> [IPV6 address] ([dec]/[dec]), [dec] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.
Recommended Action No action is required.

%IPV6_ACL-6-ACCESSLOGSP : list [chars]/[dec] [chars] [chars] [IPV6 address] [chars]-> [IPV6 address], [dec] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%IPV6_ACL-6-ACCESSLOGP : list [chars]/[dec] [chars] [chars] [IPV6 address]([dec]) [chars]-> [IPV6 address]([dec]), [dec] packet[chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

IPV6_ADDRESS

%IPV6_ADDRESS-3-INTERNAL : Internal error, [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_ADDRESS-3-NO_UNIQUE_IDENTIFIER : Cannot determine a unique IPv6 identifier for the system. IPv6 will not be started.

Explanation An unique IPv6 Identifier could not be determined for the system. Therefore the IPv6 process will not be started. This machine will not be able to process any IPv6 packets.

Recommended Action Verify that there is at least one interface in this machine that supports IEEE-style addresses.

%IPV6_ADDRESS-3-NO_PROCESS : Cannot start an IPv6 process; router will not process IPv6 packets.

Explanation An IPv6 process could not be started. This machine will not be able to process any IPv6 packets.

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%IPV6_ADDRESS-3-ADDRESS_CFG : [IPv6 address]/[dec] can not be configured on [chars], [chars]

Explanation	An error was encountered while configuring an IPv6 address
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_ADDRESS-3-NULLIDB : Uninitialized interface pointer - [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_ADDRESS-3-OPINPROGRESS : Operation in progress - [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_ADDRESS-3-RESERVED_INTFID : Removing [IPv6 address] from [chars] - contains reserved interface identifier. [chars]

Explanation	Removing IPv6 global address contains the reserved interface identifier
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IPV6_ADDRMGR

%IPV6_ADDRMGR-3-INTERNAL : Internal error, [chars]

Explanation	An internal software error occurred.
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%IPV6_ADDRMGR-3-INTERNAL : Internal error, [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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IPV6_FORWARDING

%IPV6_FORWARDING-2-CAUSE_THROTTLE_ERR : Allocation of ipv6 throttle [chars] memory failed

Explanation	Allocation of memory resource use by ipv6 throttle fail
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_FORWARDING-3-CAUSE_LINKTYPE_ERR : Unsupported link type [chars], dropping packet

Explanation	Link type is unsupported at the current time.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_FORWARDING-4-CHECKSUM_ERR : Checksum buffer walk failed

Explanation	Internal problem occurred during calculating segmented packet checksum.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_FORWARDING-3-TABLE_ID_SZ_ERR : Table ID size configured incorrectly: [dec]

Explanation	Table ID size must be less than or equal to 16 or 32 bits.
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%IPV6_FORWARDING-3-TABLE_ID_SZ_ERR : Table ID size configured incorrectly: [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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IPV6_POLICY_API

%IPV6_POLICY_API-4-IPV6_POLICY_OVERRIDE : Dynamic policy overriding static on intf:[chars]

Explanation	Static policy and dynamic policy are configured on the interface. The dynamic policy will override the static policy.
Recommended Action	Remove the static policy config if desired.

%IPV6_POLICY_API-4-IPV6_LOCALPOLICY_OVERRIDE : Local dynamic policy overriding static local policy

Explanation	Static policy and dynamic local policy are configured. The dynamic local policy will override the static local policy.
Recommended Action	Remove the static local policy config if desired.

IPV6_REASS_PROXY

%IPV6_REASS_PROXY-3-PROXY_IPC_FRAG_INFO_MEM_INIT_FAILED :

Explanation	Initialization of fragment information pool failed.
Recommended Action	LOG_STD_ACTION

%IPV6_REASS_PROXY-3-PROXY_IPC_FRAG_INFO_MEM_EXTEND_FAILED :

Explanation	Increasing of fragment information pool failed.
Recommended Action	LOG_STD_ACTION

%IPV6_REASS_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Explanation	IPC handler initialization failed.
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%IPV6_REASS_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Recommended Action LOG_STD_ACTION

%IPV6_REASS_PROXY-4-PROXY_IPC_INVALID_MSG : [hex]

Explanation Received an invalid IPC messages subtype.
Recommended Action LOG_STD_ACTION

IPV6_RIP

%IPV6_RIP-3-NULLIDB : Uninitialized interface pointer - RIPv6

Explanation An internal software error occurred.
Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_RIP-3-NULLPAK : Uninitialized packet pointer - RIPv6

Explanation An internal software error occurred.
Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_RIP-3-NULLPDB : Uninitialized PDB pointer - RIPv6

Explanation An internal software error occurred.
Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_RIP-3-NULLIPDB : Uninitialized iPDB pointer - RIPv6

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_RIP-3-NULLPROTO : Uninitialized protocol pointer - RIPv6

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_RIP-3-NULLSOC : Uninitialized socket pointer - RIPv6

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_RIP-3-ALLOC_PDB : Can't alloc PDB structure - RIPv6

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_RIP-3-ALLOC_IPDB : Can't alloc iPDB structure - RIPv6

Explanation	An internal software error occurred.
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%IPV6_RIP-3-ALLOC_IPDB : Can't alloc iPDB structure - RIPv6

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%IPV6_RIP-3-PROCESS_CREATE : Can't create process - RIPv6

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_RIP-3-ALLOC_ERR : Memory allocation problem - RIPv6

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%IPV6_RIP-3-PROCESS_MSG_SEND : Can't send message to process - RIPv6

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

IP_SNMP**%IP_SNMP-3-SOCKET : can't open UDP socket**

Explanation	The SNMP server was unable to open a port for receiving or transmitting SNMP requests. This usually happens when the SNMP server is started using the snmp-server community configuration command on a router or communication server with an interface that has no IP address configured. Another possible cause is low memory.
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%IP_SNMP-3-SOCKET : can't open UDP socket

Recommended Action	Configure at least one interface with an IP address or specify the no snmp-server command to remove the SNMP server process. Call your technical support representative if problems persist or if it becomes necessary to add memory.
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%IP_SNMP-4-NOTRAPIP : SNMP trap source [chars] has no ip address

Explanation	The user entered an snmp-server trap-source command. The interface requested for use as the source address has no ipv4 address associated with it. The SNMP trap is being sent anyway, but without the source address that the user intended.
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Recommended Action	There are two possible solutions. Either enter a no snmp-server trap-source command to disable the request for a specific source IP address, or add an IP address to the interface referenced in the snmp-server trap-source configuration command.
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%IP_SNMP-4-NOTRAPIV6 : SNMP trap source [chars] has no ipv6 address

Explanation	The user entered an snmp-server trap-source command. The interface requested for use as the source address has no ipv6 address associated with it. The SNMP trap is being sent anyway, but without the source address that the user intended.
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Recommended Action	There are two possible solutions. Either enter a no snmp-server trap-source command to disable the request for a specific source IP address, or add an IPV6 address to the interface referenced in the snmp-server trap-source configuration command.
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%IP_SNMP-4-TOOBIG : Oversize message from [IP_address], datagram size [int], udp length [int]

Explanation	An incoming SNMP packet had a length field so large that the system had to assume it was in error. This system made a correct reaction to bad external data. Since SNMP packets should originate from systems under the same administration, this may indicate that the network host used to originate the SNMP request had a problem in its networking layer. Alternatively, if the SNMP packet originated from outside the local administrative domain, it could indicate an failed attempt at security penetration and that site should be watched more closely.
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Recommended Action	If the origin is local, no action is required. If the origin is determined to be malicious, either contact the administrator of the originating site or install filters to prevent access by that site, as circumstances warrant.
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IP_TUNNEL**%IP_TUNNEL-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]**

Explanation	For a request from upper TUNNEL software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%IP_TUNNEL-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation	For a request from upper TUNNEL software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%IP_TUNNEL-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation	Registering an IPC message handler for the Tunnel feature failed. This may cause the feature to not function.
Recommended Action	This is normally a software issue. The consequences are that the tunnel feature may not function. LOG_STD_ACTION

IP_VFR through KERBEROS

- [IP_VFR](#)
- [IRECAGENTSERVER](#)
- [ISDN](#)
- [ISR4000_RP_NGIO_ATM](#)
- [ISR_THROUGHPUT](#)
- [ISSU](#)
- [IVR](#)
- [IVR_MSB](#)
- [IVR_NOSIGNALING](#)
- [KERBEROS](#)

IP_VFR

%IP_VFR-4-TINY_FRAGMENTS : [chars]: from the host [IP_address] destined to [IP_address]

Explanation This message indicates that the router is receiving tiny fragments - meaning the initial fragment does not have complete layer 4 header

Recommended Action This is an informational message

%IP_VFR-3-OVERLAP_FRAGMENTS : [chars]: from the host [IP_address] destined to [IP_address]

Explanation This message is logged whenever the router encounters overlap fragments. Overlap fragment means, offset of one fragment overlaps the offset of another fragment. For example, if first fragment's offset is 0 and length is 800, then the second fragments offset must be 800. If second fragment's offset is less than 800, that means the second fragment overlaps the first fragment.

Recommended Action This could possibly be an attack, configure a static ACL to prevent further overlap fragments from the sender

%IP_VFR-4-FRAG_TABLE_OVERFLOW : [chars]: the fragment table has reached its maximum threshold [dec]

Explanation This means the number of datagrams reassembled at a time reached its maximum limit, increase the value of max-reassemblies using ip virtual-reassembly max-reassemblies <number>

Recommended Action

%IP_VFR-4-TOO_MANY_FRAGMENTS : [chars]: Too many fragments per datagram (more than [dec]) - sent by [IP_address], destined to [IP_address]

Explanation This message indicates the datagram being reassembled has received more fragments than its threshold value

Recommended Action Check if the fragments received are from a genuine source, if so increase the value of max-fragments using the CLI ip virtual-reassembly max-fragments <number>

%IP_VFR-3-INVALID_FRAG_LENGTH : [chars]: fragment length invalid - received from [IP_address], destined to [IP_address]

Explanation This message indicates that the router has encountered a ping-of-death sort of an attack

Recommended Action To prevent further attacks, its highly recommended that an ACL be configured to drop any traffic from the sender

%IP_VFR-3-SYSTEM_ERROR : [chars]: IP VFR System failure - [chars]

Explanation This message indicates the misc errors in the VFR subsystem**Recommended
Action**

IRECAGENTSERVER

%IRECAGENTSERVER-3-NOINIT : Can't initialize iREC agent server

Explanation Internal problems with initializing ports for the iREC agentserver**Recommended
Action** Make sure the iREC agent server port is available on the localmachine.

%IRECAGENTSERVER-3-NOMEM : Can't initialize memory for iREC agent server

Explanation Insufficient Memory for iREC agent server**Recommended
Action** Increase amount of available memory

%IRECAGENTSERVER-3-NOSOCKETS : Max Number of iREC agent Server sockets exceeded

Explanation There are too many iREC agent clients requesting service**Recommended
Action** Reduce number of iREC agent requesting service

%IRECAGENTSERVER-3-NOPROC : Could not start iREC agent Server

Explanation Internal Problem in process creation**Recommended
Action** None

ISDN

%ISDN-6-CONNECT : Interface [chars] is now connected to [chars] [chars]

Explanation This is an informational message sent when a call is connected. The message displays the remote name and number, which it receives from the Point-to-Point Protocol (PPP) authentication or from where the dialer placed the call to.**Recommended
Action** No action is required.

%ISDN-6-DISCONNECT : Interface [chars] disconnected from [chars] [chars], call lasted [int] seconds

Explanation This is an informational message sent when a call is disconnected. The message displays the remote name and number, which it receives from the Point-to-Point Protocol (PPP) authentication or from where the dialer placed the call to. It also shows how long the call lasted.

Recommended Action No action is required.

%ISDN-1-NOMEMORY : no memory for [chars]

Explanation The requested operation could not be accomplished because of a low memory condition.

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%ISDN-4-INVALID_SPID : Interface [chars], Spid[dec] was rejected

Explanation The SPID configured in the router has been rejected by the switch.

Recommended Action Determine the correct SPID, reenter the SPID and clear the BRI interface.

%ISDN-4-INVALID_CALLEDNUMBER : Interface [chars], Ignoring call, LDN and Called Party Number mismatch

Explanation The incoming ISDN call is ignored because the Called Party Number does not match the LDN numbers configured in the router.

Recommended Action Correct the LDN in the router to match the Called Party Number delivered in the incoming setup message.

%ISDN-4-INVALID_EID : Interface [chars], Ignoring call, EndPoint Identifier (EID) mismatch

Explanation The incoming ISDN call is ignored because the EID delivered in the incoming setup message cannot be matched.

Recommended Action If EID is delivered in the setup message, use the `isdn debugs` and `show isdn status` commands to determine the current EID values. You may need to contact the service provider.

%ISDN-6-LAYER2UP : Layer 2 for Interface [chars], TEI [int] changed to up

Explanation This is an informational message. It is sent when an ISDN Layer2 logical link is up. It also shows the TEI associated with this logical link.

%ISDN-6-LAYER2UP : Layer 2 for Interface [chars], TEI [int] changed to up

Recommended Action No action is required.

%ISDN-3-LAYER2_UP : Layer 2 for Interface [chars], TEI [int] changed to up

Explanation This is an informational message but being logged as an ERR at request from some customers. It is sent when an ISDN Layer2 logical link is up. It also shows the TEI associated with this logical link.

Recommended Action No action is required.

%ISDN-6-LAYER2DOWN : Layer 2 for Interface [chars], TEI [int] changed to down

Explanation This is an informational message. It is sent when an ISDN Layer2 logical link is down. It also shows the TEI associated with this logical link.

Recommended Action No action is required.

%ISDN-3-LAYER2_DOWN : Layer 2 for Interface [chars], TEI [int] changed to down

Explanation This is an informational message but being logged as ERR at request from some customers. It is sent when an ISDN Layer2 logical link is down. It also shows the TEI associated with this logical link.

Recommended Action No action is required.

%ISDN-6-CHAN_UNAVAILABLE : Interface [chars] Requested Channel [dec] is not available

Explanation This is an informational message. It is sent when the requested channel is not available.

Recommended Action No action is required.

%ISDN-6-CALL_COLLISION : Interface [chars] Call Cid [hex] Cref [hex] collision on Channel [dec] in_use_cid [hex] cref [hex], Channel awarded to the received call

Explanation This is an informational message. It is sent when a Call is received that collides with an existing call on the same channel.

Recommended Action No action is required.

%ISDN-6-NO_TIMER : No Free Timer Entry, caller [hex], timers used [dec]

Explanation This could be an indication of low memory. It is sent when the ISDN protocol cannot start new timers for it's operation.

Recommended Action capture the show isdn mem, show isdn status output for possible debugging information. Reduce other system activity to ease the memory demands in the system.

%ISDN-6-INVALID_TIMER : [chars]: Invalid Timer Handle, caller [hex] handle %3d

Explanation This could be an indication of low memory. It is sent when an invalid ISDN timer handle is passed on for timer operations

Recommended Action capture the show isdn mem, show isdn status output for possible debugging information. Reduce other system activity to ease the memory demands in the system.

%ISDN-4-INVALID_EVENT : [chars]: Bad Event Received For Current State

Explanation The State Transition for the ISDN L2 Socket Process failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-SPURIOUS_CONNECT : [chars]: Spurious Connection Accepted and Closed on port [int]

Explanation An unknown TCP connection was accepted and refused.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-GET_STATUS_STATE_FAIL : [chars]: isdn_get_status_state: Unknown DSL [int]

Explanation An attempt to retrieve the status of a DSL that is not currently configured.

%ISDN-4-GET_STATUS_STATE_FAIL : [chars]: isdn_get_status_state: Unknown DSL [int]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-ISDN_L2_INTERFACE_NOT_REGISTERED : [chars]: isdn_to_L2: Unknown DSL [int] for command [chars]

Explanation The ISDN Stack has not registered its L2 Message Handler

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-BAD_DSL_FOR_CREATE_DELETE_L2 : [chars]: isdn_create_delete_signalling_channel: Unknown DSL [int] for [chars]

Explanation The Creation/Deletion service for the L2 Signalling handler for the given DSL is missing

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-OPEN_TEMP_SOCKET_FAIL : [chars]: Failed to Open Required Temporary Socket[chars]

Explanation The (Re)Open attempt for a required temporary socket failed, without this socket the L2 socket process will fail

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-ISDN_UNEXPECTED_EVENT : [chars]: Occurred at [chars]:[dec]

Explanation	An unexpected event of significance has occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-4-RLM_STATUS_CHANGE : ISDN SC [chars]: Status Changed to: [chars].

Explanation	ISDN has been notified by the RLM component of a status change in the RLM link
Recommended Action	No action is required.

%ISDN-2-ISDN_GENERAL_TRACEBACK : [chars]:[dec]

Explanation	A debug - traceback condition has occurred
Recommended Action	No action is required.

%ISDN-3-ISDN_RESOURCE_UNAVAILABLE : [chars]: Resource not available, at [chars]:[dec]

Explanation	Hardware resource could not be allocated
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-2-ISDN_FATAL : ISDN FATAL ERROR: file [chars], function [chars], message: [chars]

Explanation	ISDN has detected a fatal system error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISDN-3-ISDN_CCB_FREE : [chars]: CCB with call id [hex] on b channel [dec] was leaked, but has been freed by ISDN Housekeeping. Reason: [chars]

Explanation A data structure internal to ISDN has leaked.

Recommended Action No action is required.

%ISDN-3-ISDN_CCB_FREE_FAILS : [chars]: CCB with call id [hex] on b channel [dec] was leaked (reason: [chars]), and can't be free'd by ISDN Housekeeping.

Explanation A data structure internal to ISDN has leaked and we can't fix it for some reason.

Recommended Action No action is required.

%ISDN-4-ISDN_CCB_LEAK : [chars]: CCB with callid [hex] on b channel [dec] has been leaked. Reason: [chars]

Explanation A data structure internal to ISDN has been leaked

Recommended Action No action is required.

%ISDN-4-SERVICE : Interface [chars] [chars] [chars] message for chan [dec] state [chars]

Explanation This is an informational message but will be logged as a warning message if so configured.

Recommended Action No action is required.

%ISDN-4-RESTART : Interface [chars] [chars] [chars] message with restart class of [chars] chan [dec]

Explanation This is an informational message but will be logged as a warning message if so configured.

Recommended Action No action is required.

%ISDN-4-STATUS : Interface [chars] [chars] [chars] st [hex] ev [hex] cid [hex] cref [hex]

Explanation This is an informational message but being logged as a warning message if so configured.

Recommended Action No action is required.

%ISDN-4-SERV_AUDIT_C1 : Interface [chars] service audit trigger condition [dec] on channel [dec]

Explanation This is an informational message but will be logged as a warning message if so configured.

Recommended Action No action is required.

%ISDN-5-SERV_AUDIT_C2 : Interface [chars] service audit trigger condition [dec] on channel [dec]

Explanation This is an informational message but will be logged as a warning message if so configured.

Recommended Action No action is required.

%ISDN-6-SERV_AUDIT_C3 : Interface [chars] service audit trigger condition [dec] on channel [dec]

Explanation This is an informational message but will be logged as a warning message if so configured.

Recommended Action No action is required.

%ISDN-4-ISDN_NLCB_LEAK : [chars]: NLCB leak detected. nlcb [hex] call id [hex] reason: [chars]

Explanation A data structure internal to ISDN has not been freed

Recommended Action No action is required.

%ISDN-3-ISDN_NLCB_FREE : [chars]: NLCB with call id [hex] was leaked, but has been freed by ISDN Housekeeping. Reason: [chars]

Explanation A data structure internal to ISDN has leaked.

Recommended Action No action is required.

%ISDN-6-REPEATED_SETUP : Interface [chars] Call Cid [hex] Cref [hex] received a retransmitted setup on channel [dec] in_use_cid [hex] cref [hex].

Explanation This is an informational message sent when a duplicate SETUP message is received on a B-channel. This indicates that the rate of calls being received is momentarily greater than the rate calls can be processed. No action is required.

%ISDN-6-REPEATED_SETUP : Interface [chars] Call Cid [hex] Cref [hex] received a retransmitted setup on channel [dec] in_use_cid [hex] cref [hex].

Recommended Action No action is required.

%ISDN-6-NFAS_STATUS_CHANGE : [chars] [chars] [chars] [chars]

Explanation The NFAS D-channel status has changed.

Recommended Action No action is required.

%ISDN-2-ISDN_EXIT : [chars]

Explanation The ISDN task has terminated execution for the specified reason, and may cause CISCO IOS to terminate.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

ISR4000_RP_NGIO_ATM

%ISR4000_RP_NGIO_ATM-4-SETUPVC : Interface [chars], VC ([dec]) setup failed, reason = [dec]

Explanation A command to setup a VC has failed on RP.

Recommended Action The SPA ATM driver has detected a problem creating the internal OAM VC. Reload the indicated SPA card to reconfigure the internal OAM VC. If the error messages persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a 'show tech-support' to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%ISR4000_RP_NGIO_ATM-4-TEARDOWNVC : Interface [chars], VC ([dec]) teardown failed, (vc state = [dec])/[dec]

Explanation A command to remove a VC config has failed on RP.

%ISR4000_RP_NGIO_ATM-4-TEARDOWNVC : Interface [chars], VC ([dec]) teardown failed, (vc state = [dec])/[dec]

Recommended Action The SPA ATM driver has detected a problem tearing down the internal OAM VC. Reload the indicated SPA card to do a clean tear down of the internal OAM VC. If the error messages persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a 'show tech-support' to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%ISR4000_RP_NGIO_ATM-5-MPVCVPSETUP : Interface [chars] has a VC/VP ([dec]) configured already, VC/VP ([dec]) cannot be configured.

Explanation The SPA ATM driver supports configuring only one VC/VP under a point to multi point sub-interface. The sub-interface specified in the message already has VP/VC configured.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_FLOWID_GET_FAIL : Failed to get a flow control identifier for interface [chars] for index [dec]

Explanation The SPA driver is not able to obtain the datapath flow control identifier for the data path identifier under the interface specified in the message. This indicates a software error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_DPIDB_ALLOC_FAIL : Failed to allocate a data plane identifier for interface [chars] for VCD [dec]

Explanation The SPA driver is not able to allocate the datapath identifier for the VCD under the interface specified in the message. This indicates a software error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_INGRESS_ID_ALLOC_FAIL : Failed to allocate VC ingress identifier on interface [chars] for VCD [dec] ebfc_id [dec] when [chars]

Explanation The ATM SHIM is not able to allocate the ingress identifier for the VCD under the interface specified in the message. This indicates a software error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_DPIDB_GET_FAIL : Failed to get a data plane identifier for interface [chars] for VCD [dec]

Explanation The SPA driver is not able to obtain the datapath identifier for the VCD under the interface specified in the message. This indicates a software error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_TXCHANL_GET_FAIL : Failed to get a valid tx_chan id for interface [chars] for VCD [dec]

Explanation The SPA driver is not able to obtain the datapath tx channel identifier for the VCD under the interface specified in the message. This indicates a SPA occur error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_SPA_SETUP_FAIL : SPA Error response on interface [chars] when [chars] for VCD [dec] ebfc_id [dec] ret_val [dec]

Explanation The SPA give a error response for ATM setup or response timeout in atm vc setup message. This indicates a SPA occur error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_CFG_SEND_FAIL : Error in sending message to SPA on interface [chars] when [chars] for VCD [dec] ebfc_id [dec]

Explanation The SPA give a error response for ATM setup or response timeout in atm vc setup message. This indicates a SPA occur error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_CORE_GET_FAIL : Failed to get a ATM VC core info for interface [chars] VCD [dec]

Explanation Could not get VC core information when get SPA VCOPEN or VCMODIFY response. This indicates a ATM information error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_ENCAP_GET_FAIL : Failed to get ATM encapsulation for interface [chars] ([dec]/[dec]) VCD [dec]

Explanation Could not get VC encapsulation information when get SPA VCOPEN or VCMODIFY response This indicates ATM occur error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_ERROR_ENCAP_TYPE : Get ATM ERROR encapsulation for interface [chars] ([dec]/[dec]) VCD [dec]

Explanation Get a ERROR VC encapsulation information when get SPA VCOPEN or VCMODIFY response This indicates ATM occur error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_CON_SET_FAIL : Failed set ATM con for interface [chars] ([dec]/[dec]) VCD [dec]

Explanation Could not get VC encapsulation information when get SPA VCOPEN or VCMODIFY response This indicates ATM occur error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_EGRESSID_UPDATE_FAIL : Failed to update ATM egress id for interface [chars] VCD [dec] egress_id [dec]

Explanation Could not update VC egress id when get SPA VCOPEN or VCMODIFY response This indicates ATM occur error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-ATM_VC_DPIDX_GET_FAIL : Failed to get ATM dpidx for interface [chars] VCD [dec]

Explanation Could not get VC dpidx information when get SPA VCOPEN or VCMODIFY response
This indicates ATM occur error.

Recommended Action No action is required.

%ISR4000_RP_NGIO_ATM-3-PROCESS_FAIL : process creation failed for [chars]

Explanation The Periodic one second process creation failed. This indicates a software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-3-ATM_SPA_AUTOVC_FAIL : [chars]: atm autovc discovery configuration failed, reason: [chars]

Explanation A command to configure the atm autovc discovery on an atm interface has failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-3-ATM_SPA_VC_MAX_LIMIT_REACHED : total active atm vc reached system limitation of [dec]

Explanation total number of active atm vc has reached max limit allowed on the system

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-4-ATM_SPA_VC_ABOVE_WM_WARNING : total active atm vc approaching [int] percent of system limitation of [dec]

Explanation total number of active atm vc is approaching the high water mark of sysyem limitation

%ISR4000_RP_NGIO_ATM-4-ATM_SPA_VC_ABOVE_WM_WARNING : total active atm vc approaching [int] percent of system limitation of [dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-5-ATM_SPA_VC_BELOW_WM_NOTICE : total active atm vc below [int] percent of system limitation of [dec]

Explanation total number of active atm vc below the high water mark of syssem limitation

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-3-ATM_PER_SPA_MAX_VC_LIMIT_REACHED : total active atm vc per ATM SPA reached limitation of [dec]

Explanation total number of active atm vc per ATM SPA has reached max limit

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ISR4000_RP_NGIO_ATM-3-ATM_FLOWID_OUT_OF_RANGE : Flow control identifiers for interface [chars] (chan lo [hex] chan hi [hex]) are out of range, Index [hex]

Explanation The flow control identifier received for the interface is out of range. This indicates SPA driver is responding with out of range flow control identifier

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

ISR_THROUGHPUT**%ISR_THROUGHPUT-3-SETUP_FAILED : Throughput upgrade license set up failed**

Explanation An error occurred when setting up the throughput upgrade licenses.

**Recommended
Action**

%ISR_THROUGHPUT-6-LEVEL : Throughput level has been set to [dec]00 kbps

Explanation Throughput level has been set to a number

**Recommended
Action**

%ISR_THROUGHPUT-6-CRYPTO : Crypto level has been set to [dec]00 kbps

Explanation Crypto level has been set to a number

**Recommended
Action**

%ISR_THROUGHPUT-6-UNTHROTTLED : Crypto level is unthrottled

Explanation Crypto level has been unthrottled

**Recommended
Action**

%ISR_THROUGHPUT-3-CONF_FAILED : Configuration failed

Explanation An error occurred when the throughput configuration was attempted.

**Recommended
Action**

%ISR_THROUGHPUT-3-EULA_NOT_ACCEPTED : The EULA has to be accepted prior to throughput configuration.

Explanation Users need to accept EULA to activate the license

**Recommended
Action** Accept EULA for throughput license

%ISR_THROUGHPUT-3-INVALID_CONFIG : An invalid throughput config: [chars] kbps was selected.

Explanation The configured throughput is unknown

Recommended Action

ISSU

%ISSU-3-BOOT_SYNC : Problem with sync of ISSU boot state - [chars]

Explanation The ISSU state between two FRUs is not properly synchronized as a result of a boot error.

Recommended Action This message will automatically appear during certain events, such as during a FRU removal or if the FRU loses connectivity. In most cases, the router will resynchronize the ISSU state between the FRUs without any user intervention. If the ISSU state is not resynchronized after multiple attempts, the problem is likely a result of another problem. Monitor the other system messages to see if a more serious issue has occurred on your router. If you are unable to resolve this other issue and this message persists, gather the output of show tech-support and provide it to a Cisco technical support representative.

%ISSU-0-BOOT_SYNC_FAIL : Problem with sync of ISSU boot state - [chars]

Explanation The ISSU state between two FRUs is not properly synchronized as a result of a boot error.

Recommended Action This message will automatically appear during certain events, such as during a FRU removal or if the FRU loses connectivity. In most cases, the router will resynchronize the ISSU state between the FRUs without any user intervention. If the ISSU state is not resynchronized after multiple attempts, the problem is likely a result of another problem. Monitor the other system messages to see if a more serious issue has occurred on your router. If you are unable to resolve this other issue and this message persists, gather the output of show tech-support and provide it to a Cisco technical support representative.

%ISSU-0-PKG_INCONSIST : Reason: [chars]

Explanation A software consolidated package or sub-package has an error that indicates the sub-package should not be installed or used.

Recommended Action If this message is received, the desired consolidated package or sub-package should not be used. Upgrade using a different consolidated package or sub-package, and report the problem consolidated package or sub-package to Cisco technical support.

%ISSU-3-INCOMPAT : The packages in [chars] are not consistent

Explanation	The sub-packages specified for running on the chassis are not compatible with one other.
Recommended Action	Install a compatible set of packages to allow normal operation. This will require booting a known-good package set.

%ISSU-3-BOOT_UNCLEAN : Found reload log file, moved to [chars]

Explanation	A log file was found at bootup indicating that all shutdown tasks were not performed on a previous reload.
Recommended Action	No user action is necessary. The system will automatically resolve most issues related to the shutdown task as part of the bootup procedure. If a problem related to the tasks that did not shutdown occurs, another error message will occur providing information about that problem.

%ISSU-5-ISSU_STATE_INVALID : ISSU stored state found invalid and cleaned up: [chars]

Explanation	The RP has corrected a failed ISSU install state that was detected at bootup.
Recommended Action	No user action is necessary. This is an informative message indicating that the failed ISSU state has been corrected.

%ISSU-0-PKG_MNT_SCRIPT_FAIL : Package: [chars]

Explanation	A consolidated package or sub-package has encountered an error indicating it is not usable.
Recommended Action	Upgrade your software using a different consolidated package or sub-package.

%ISSU-5-ISSU_AUTO_ROLLBACK : ISSU rollback timer expired: initiating rollback

Explanation	An ISSU upgrade has been rolled back because the rollback timer has expired.
Recommended Action	No user action is needed. If you want to commit the ISSU upgrade, redo the upgrade. Otherwise, this is an informational message only.

%ISSU-0-SOFTWARE_INVALID : Package for location [chars]: [chars]

Explanation	The sub-packages have encountered an error related to the structure of the loaded software.
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%ISSU-0-SOFTWARE_INVALID : Package for location [chars]: [chars]

Recommended Action This error is likely caused by a failure of the boot or installation process or a corrupted provisioning file. If the system displays error messages related to the boot that can be addressed, address those messages. Downloading new software, if possible, may also help with the problem. If the problem persists, gather the output of show tech-support and provide it to a Cisco technical support representative.

%ISSU-0-RESET_FRU_FAIL : Problem with ISSU reset of remote FRU - [chars]

Explanation After a sub-package installation, one or more FRUs that were upgraded failed to initialize within the timeout period.

Recommended Action This problem is more likely to occur in routers with larger configurations, so if your router has a large configuration, you may want to wait a few more minutes to see if your hardware initializes. If the hardware continues to not initialize, reset the FRUs which failed to initialize. If resetting the FRUs fails to resolve the issue, gather the output of show tech-support and contact a Cisco technical support representative.

%ISSU-3-UCODE_INCOMPAT : Found mismatch for ucode feature - [chars]

Explanation During boottime microcode feature version check, a version mismatch was found for this feature.

Recommended Action Please ensure that versions of features in microcode are compatible by provisioning a different set of microcode files.

%ISSU-3-SYNC_ERR : Problem with sync of state - [chars]

Explanation The software state between two FRUs or switches is not properly synchronized as a result of a boot error.

Recommended Action This message may appear during certain events, such as during a FRU or switch removal or if the FRU or switch loses connectivity. In most cases, the router will resynchronize the software state between the FRUs or switches without any user intervention. If the software state is not resynchronized after multiple attempts, the problem is likely a result of another problem. Monitor the other system messages to see if a more serious issue has occurred on your router. If you are unable to resolve this other issue and this message persists, gather the output of show tech-support and provide it to a Cisco technical support representative.

IVR

%IVR-3-BAD_IVR_VERSION : Script requires version [dec].[dec], image supports [dec].[dec]

Explanation IVR Script requires a higher IVR infrastructure version

%IVR-3-BAD_IVR_VERSION : Script requires version [dec].[dec], image supports [dec].[dec]

Recommended Action Upgrade IOS, or use a different script

%IVR-3-NOSCRIPT : Could not load IVR script [chars] errno=[dec]=[chars]

Explanation Could not read in the IVR script

Recommended Action Check that script exists on the server, and is readable.

%IVR-3-BADSCRIPT : Could not parse malformed IVR script: [chars]

Explanation Could not parse malformed IVR script

Recommended Action Check the script and fix the syntax error.

%IVR-3-ABNORMAL_EXIT : TCL IVR Process for this call with CallID [dec] exits , bad event: [chars] received

Explanation The TCL IVR call process exited for the specified call. The call process did not clear a prior call properly, so other events could not be handled. Only the specified call is affected

Recommended Action If problem persists for subsequent calls,copy the message exactly as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information.

%IVR-3-LOW_MEMORY : IVR: Sytem running on low memory. Free memory: %l bytes. Call is rejected.

Explanation System does not have enough memory to accept calls

Recommended Action Check to see what is causing low system memory.

%IVR-3-LOW_MEMORY_RESOURCE : IVR: System running low on memory ([dec]/100 in use). Call (callID=[dec]) is rejected.

Explanation System does not have enough free memory to accept a new call

Recommended Action Ensure that the gateway has the recommended amount of memory for this IOS feature set and version.

%IVR-3-LOW_CPU_RESOURCE : IVR: System experiencing high cpu utilization ([dec]/100). Call (callID=[dec]) is rejected.

Explanation System does not have enough CPU resources available to accept a new call

Recommended Action Ensure that the call setup rate is within the supported capacity of this gateway.

%IVR-2-APP_CRIT_R : [chars]

Explanation A critical message was reported by an IVR Tcl application.

Recommended Action The remedy of the problem is application specific.

%IVR-3-APP_ERR_R : [chars]

Explanation An error message was reported by an IVR Tcl application.

Recommended Action The remedy of the problem is application specific.

%IVR-4-APP_WARN_R : [chars]

Explanation A warning message was reported by an IVR Tcl application.

Recommended Action The remedy of the problem is application specific.

%IVR-6-APP_INFO_R : [chars]

Explanation An informational message was reported by an IVR Tcl application.

Recommended Action The remedy of the problem is application specific.

%IVR-6-APP_PARALLEL : Cannot use dial-peer [dec] (parallel hunt-group) for a rotary or in a hunt-group call.

Explanation The dial-peer for parallel hunt-groups must have a unique pilot number.

Recommended Action Create a unique dial-peer destination-number for the parallel hunt-group.

%IVR-6-APP_SEQ_HUNT : Pilot hunt-group '[chars]' found in hunt-group list. Nested hunt-groups are allowed only as the hunt-group's final number.

Explanation Nested sequential hunt-group detected in dial-peer rotary. Nested hunt-groups is unsupported.

Recommended Action Do not create hunt-group lists that contain hunt-group pilot numbers.

%IVR-1-APP_PARALLEL_INVALID_LIST : Call terminated. Huntgroup '[dec]' does not contain enough valid SIP end-points to proceed with a parallel call.

Explanation The call to a parallel hunt-group was denied because less than two valid SIP end-points were found in the huntgroup list.

Recommended Action Check the hunt-group list's numbers. Remove any incorrect numbers or numbers that have a non-SIP dial-peer. If the numbers are from SIP phones, then verify whether the phones have registered to the system yet.

%IVR-2-INVALID_DSAPP_DIALPEER : Service dsapp contains an invalid dial peer tag: [chars]

Explanation An invalid dial peer tag has been configured for the dsapp service. The tag either is not in the range from 1 to 2147483647, or it belongs to a non-existent dial-peer.

Recommended Action Enter the **show running-config** or the **show dial-peer voice** command to find a valid dial peer tag. Reconfigure the dial peer with a valid tag or remove the dial peer tag completely to allow the system to match from the system dial peers.

%IVR-4-INVALID_DSAPP_BLINDTIME : Blind-xfer-wait-time [dec] is invalid. Resetting to [dec] seconds.

Explanation The configured value for blind-xfer-wait-time was outside of the acceptable range (0-10) and has been reset to the indicated value.

Recommended Action If the new value for blind-xfer-wait-time is unacceptable, you can change it from the command line interface.

%IVR-4-INVALID_DSAPP_TOGGLE_TIME : Disc-toggle-time [dec] is invalid. Resetting to [dec] seconds.

Explanation The configured value for disc-toggle-time was outside of the acceptable range (10-30) and has been reset to the indicated value.

Recommended Action If the new value for disc-toggle-time is unacceptable, you can change it from the command line interface.

%IVR-5-APP_CALL_PREEMPTION : CallID [dec] is being preempted

Explanation A notification message was reported by an IVR application on detecting callID %d being preempted.

Recommended Action This is not a problem but notifying syslog about preempted call.

%IVR-2-APP_CRIT : [chars]

Explanation A critical message was reported by an IVR Tcl application.

Recommended Action The remedy of the problem is application specific.

%IVR-3-APP_ERR : [chars]

Explanation An error message was reported by an IVR Tcl application.

Recommended Action The remedy of the problem is application specific.

%IVR-4-APP_WARN : [chars]

Explanation A warning message was reported by an IVR Tcl application.

Recommended Action The remedy of the problem is application specific.

%IVR-6-APP_INFO : [chars]

Explanation An informational message was reported by an IVR Tcl application.

Recommended Action The remedy of the problem is application specific.

%IVR-5-APP_MED_INACT_DETECTED : [chars]

Explanation A notification message was reported by an IVR application on detecting media inactivity.

Recommended Action This is not a problem but notifying syslog about media inactivity.

%IVR-5-APP_MED_REACT_DETECTED : [chars]

Explanation	A notification message was reported by an IVR application on detecting media activity.
Recommended Action	This is not a problem but notifying syslog about media activity.

%IVR-5-APP_LOG_DUR_CALL_DETECTED : [chars]

Explanation	A notification message was reported by an IVR application on detecting long duration call.
Recommended Action	This is not a problem but notifying syslog about long duration call.

IVR_MSB

%IVR_MSB-3-NOPROMPT : Could not create IVR prompt [chars] errno=[dec]=[chars]

Explanation	Could not read in the IVR prompt
Recommended Action	Check that prompt exists on the server, and is readable.

%IVR_MSB-3-NO_IO_MEMORY : [chars]: Failed to create pool_group [hex] buffer_pool [hex] platform_mc_buf_pool_count [dec]

Explanation	No IO memory to create IVR private pak pool
Recommended Action	Check to see if there is enough IO memory.

%IVR_MSB-3-INVALID_MAX_PROMPTS : [chars]: This version of IOS does not support prompt payout for IVR applications.

Explanation	This error will be displayed if an IVR application is used on a gateway that does not support IVR prompt payout.
Recommended Action	Ensure that this platform and IOS version support the IVR feature set.

%IVR_MSB-3-INVALID_PROMPT_SIZE : [chars]: Bad size for the prompt file [chars]. Read size [dec]. Expected size [dec].

Explanation	Prompt file size error. File may be corrupted.
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%IVR_MSB-3-INVALID_PROMPT_SIZE : [chars]: Bad size for the prompt file [chars]. Read size [dec]. Expected size [dec].

Recommended Action Replace the bad prompt file.

IVR_NOSIGNALING

%IVR_NOSIGNALING-3-LOW_MEMORY_RESOURCE : IVR: System running low on memory ([dec]/100 in use). Application cannot be instantiated.

Explanation System does not have enough free memory to spawn a new instance of IVR application

Recommended Action Ensure that the gateway has the recommended amount of memory for this IOS feature set and version.

%IVR_NOSIGNALING-3-LOW_CPU_RESOURCE : IVR: System experiencing high cpu utilization ([dec]/100). Application cannot be instantiated.

Explanation System does not have enough CPU capacity to spawn a new instance of IVR application

Recommended Action Ensure that the call setup rate is within the supported capacity of this gateway.

KERBEROS

%KERBEROS-3-FORKFAIL : Failed to fork process for [chars].

Explanation Quite likely, we ran out of memory. Other explanations are possible.

Recommended Action If this message recurs, call your technical support representative for assistance.

KEYMAN through LAPB

- [KEYMAN](#)
- [KEYSTORE](#)
- [L2BD_PROXY](#)
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- L2TP_HA
- L4_INSPECT
- LANMGR
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KEYMAN

%KEYMAN-4-KEYSTR_CRYPTO_TYPE : Type [dec] encryption unknown. Interpreting keystring as literal

Explanation The format type was not recognized by the system. A keystring format type value of 0 (unencrypted keystring) or 7 (hidden keystring), followed by a space, can precede the actual keystring to indicate its format. An unknown type value will be accepted, but the system will consider the keystring as being unencrypted.

Recommended Action Use the correct format for the value type or remove the space following the value type

%KEYMAN-4-KEYSTR_BAD_CRYPTO : Bad encrypted keystring for key id [dec].

Explanation The system could not successfully decrypt an encrypted keystring. The keystring may have been corrupted during system configuration.

Recommended Action Re-enter the key-string command, and reconfigure the key string.

KEYSTORE

%KEYSTORE-3-IFS_OPEN_W : Failed to open file [chars] for writing software keystore. ([chars])

Explanation An error occurred while opening a file for persistent storage. CTS keys could not be saved to persistent storage.

Recommended Action

%KEYSTORE-3-IFS_WRITE : An error occurred while writing to the software keystore file.

Explanation CTS keys could not be saved to persistent storage.

Recommended Action

%KEYSTORE-3-IFS_OPEN_R : Failed to open file [chars] for reading software keystore. ([chars])

Explanation An error occurred while opening the keystore file for reading. CTS keys could not be retrieved.

%KEystore-3-IFS_OPEN_R : Failed to open file [chars] for reading software keystore. ([chars])

**Recommended
Action**

%KEystore-3-IFS_READ : An error ([chars]) occurred while reading from the software keystore file.

Explanation CTS keys could not be retrieved from persistent storage.

**Recommended
Action**

%KEystore-3-BAD_MAGIC : Bad magic number [hex] in software keystore file [chars].

Explanation Keystore data file appears to have been corrupted. Keys can not be retrieved from persistent memory.

**Recommended
Action**

%KEystore-3-UNEXPECTED_EOF : Unexpected end of file while reading software keystore [chars].

Explanation Keystore data file appears to have been truncated. One or more keys can not be retrieved from persistent memory.

**Recommended
Action**

%KEystore-3-IPCPORT : Failed to create IPC port ([chars]) for keystore redundancy. [chars].

Explanation An error was encountered when trying to create an IPC port. This means that any updates made to the ACTIVE keystore cannot be pushed to the STANDBY keystore.

**Recommended
Action**

%KEystore-3-IPCOPEN : Failed to open IPC port to peer for keystore redundancy: [chars]

Explanation An error was encountered when trying to open an IPC port for keystore redundancy messages. This means that any updates made to the ACTIVE keystore cannot be pushed to the STANDBY keystore.

**Recommended
Action**

%KEystore-3-IPCNOCONN : No IPC communication path to peer available for keystore [chars].

Explanation No IPC connection to the peer was available for keystore redundancy messages. This means that any updates made to the ACTIVE keystore cannot be pushed to the STANDBY keystore.

Recommended Action

%KEystore-3-IPSEND : IPC send error ([chars]) while sending [chars].

Explanation An error occurred while sending an IPC message to the peer during a keystore redundancy operation. This means that any updates made to the ACTIVE keystore cannot be pushed to the STANDBY keystore.

Recommended Action

%KEystore-3-ISSU_INCOMPAT : Standby incompatible for SSO.

Explanation The image on the standby failed ISSU message version negotiation. As a result, we will not be able to sync keystore updates to it and so it is disallowed from reaching hot standby status in SSO mode.

Recommended Action

%KEystore-3-IPC_NO_PROC : Could not create a process to receive keystore redundancy messages.

Explanation An error was encountered when trying to create a process to handle incoming keystore redundancy messages. This means that any updates made to the ACTIVE keystore cannot be pushed to the STANDBY keystore.

Recommended Action

%KEystore-3-NO_KESTORE : CTS hardware keystore is not responsive and software emulation is not enabled.

Explanation The CTS hardware keystore on the switch has failed and needs to be inspected. Since CTS credentials are stored in the keystore, this means that CTS authentication and authorization operations will fail. The following action is recommended: If the defect is shown on the Active Supervisor, try to switchover to Standby Supervisor. If the defect is shown on Standby Supervisor, try to reset the Standby. If the defect persists, there may be damage to the hardware keystore chip, please take appropriate action. In the meantime, you can configure the switch to use software keystore emulation. After you have enabled software keystore emulation, please re-configure CTS credentials to populate the software keystore.

%KEYSTORE-3-NO_KEYSTORE : CTS hardware keystore is not responsive and software emulation is not enabled.

**Recommended
Action**

L2BD_PROXY

%L2BD_PROXY-3-L2BD_MEM_REQ_FAILED : L2BD IPC subtype: [dec]

Explanation Requesting more memory failed.

**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-3-L2BD_MEM_EXTEND_FAILED : L2BD IPC subtype: [dec]

Explanation Extending memory failed.

**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-4-PROXY_INVALID_MSG_LEN : QFP L2BD Proxy IPC invalid length, [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Cisco internal software error. QFP L2BD Proxy received invalid IPC message length from control plane. This message will be ignored.

**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-4-PROXY_INVALID_MSG : QFP L2BD Proxy received invalid message type [dec]

Explanation Cisco internal software error. QFP L2BD Proxy received an invalid message from control plane. This message will be ignored.

%L2BD_PROXY-4-PROXY_INVALID_MSG : QFP L2BD Proxy received invalid message type [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%L2BD_PROXY-2-PROXY_IPC_INIT_FAILED : QFP L2BD Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP L2BD Proxy initialization detected that the IPC interface initialization failed. QFP L2BD proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-3-PROXY_BAD_MSG : QFP L2BD Proxy received bad length message type [dec]

Explanation	Cisco internal software error. QFP L2BD Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-3-PROXY_IPC_ALLOC_FAILED : QFP L2BD Proxy [chars] message lost due to message buffer allocation failure.

Explanation	Cisco internal software error. QFP L2BD Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2BD_PROXY-3-PROXY_IPC_SEND_FAILED : QFP L2BD Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation	Cisco internal software error. QFP L2BD Proxy message processing detected a message sent failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

L2CTRL

%L2CTRL-3-ADD_REGISTRY_FAILED : Subsystem [chars] fails to add callback function [chars]

Explanation	Other subsystem must have mistakenly add its own callback functions. This syslog is for debugging purpose.
Recommended Action	No action is required.

L2FIB

%L2FIB-3-BAD_PARAM : [chars]

Explanation	Invalid parameter
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2FIB-3-EVPN_ERROR : [chars]

Explanation	EVPN encap error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2FIB-3-IMET_ENCAP_MISMATCH : IMET Encapsulation Mismatch on bridge domain [dec] from [chars] (Local:[chars], Remote:[chars])

Explanation

%L2FIB-3-IMET_ENCAP_MISMATCH : IMET Encapsulation Mismatch on bridge domain [dec] from [chars] (Local:[chars], Remote:[chars])

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%L2FIB-3-MAC_ERROR : MAC address FFFF:FFFF:FFFE is reserved for unknown unicast output list, bit is produced by [chars] on bridge domain [dec]

Explanation

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

L2TP

%L2TP-3-ILLEGAL : [chars]: [chars]

Explanation An illegal event has been processed by the L2TP subsystem.

Recommended Action No action is required.

%L2TP-3-CRITICAL : [chars]

Explanation An critical event has been processed by the L2TP subsystem.

Recommended Action No action is required.

%L2TP-5-IGNOREICMPMTU : Ignoring received ICMP Type 3 Code 4, due to pmtu min or max setting

Explanation An ICMP Type 3 Code 4 (fragmentation needed and DF set) packet has been received. This packet has specified a Next-Hop MTU that is smaller or greater than the current minimum or maximum path MTU discovery mtu value. The ICMP packet has been ignored and the MTU has not been changed.

Recommended Action If you want the ICMP packet to be accepted and used to decrease or increase the MTU then use the `vpdn pmtu min` command to decrease the minimum MTU allowed and enter the `vpdn pmtu max` command to increase the maximum MTU that is allowed. The minimum value specified is the minimum MTU that is allowed, and the maximum value specified is the maximum MTU that is allowed.

L2TP_HA**%L2TP_HA-3-SYNC : [chars]: code [dec]**

Explanation	An error occurred when syncing L2TP state to the Standby Route Processor. This may affect Non-Stop Forwarding capability on L2TP-based interfaces during and after switchover until the state is recovered through normal protocol operation.
Recommended Action	Reset the standby processor to attempt the sync again. LOG_STD_RECUR_ACTION

%L2TP_HA-3-ISSU : [chars]: [chars]

Explanation	A L2TP ISSU error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

L4_INSPECT**%L4_INSPECT-3-INVALID_CHUNK_ID : Invalid chunk ID for protocol ([int])**

Explanation	Failed to determine chunk ID for specified protocol. Unable to free CFT feature object.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LANMGR**%LANMGR-4-OLDTRAMON : Cannot run RPS on [chars], Old TRAMON code.**

Explanation	The software on this interface cannot support the functions required for LAN Network Manager.
Recommended Action	Call your Cisco technical support representative about a firmware upgrade for this interface card.

%LANMGR-4-BADRNGNUM : Ring number mismatch on [chars], shutting down the interface

Explanation	The router detected a conflict in assigned ring numbers for the specified Token Ring. The Ring Parameter Server (RPS) function was shut down to prevent potentially incorrect information from being sourced onto the ring.
Recommended Action	Check all bridges connected to this Token Ring and ensure that they are using the same assigned ring number.

%LANMGR-4-BADUPCALL : Unexpected call ([chars]) from LLC2 for Bridge [hex]-[hex]-[hex]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LANMGR-4-NORING : No ring info for [chars]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LANMGR-2-NOMEMORY : No memory available: [chars]

Explanation	The requested operation failed because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

LAPB**%LAPB-3-NULLPAK : Interface [chars], NULL packet ptr, rvr [dec], vs [dec], vr [dec]**

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

%LAPB-3-NOINPIDB : Input idb not set

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

%LAPB-4-FRAMEERR : Interface [chars], Frame error: CF [hex], VS [dec] %c VR [dec], Reason [hex]

Explanation	A FRMR frame was received, indicating that a protocol violation was detected. The Reason field will be interpreted by generating INFOBAD, CTRLBAD, N1TOOBIG, or INVNR messages immediately after this message; refer to the explanations for these messages for more information.
Recommended Action	The protocol will recover by resetting the service. This will disrupt any network service on top of LAPB (for example, X.25 virtual circuits will be cleared). Follow the recommended action for any error message following the FRMR reports; if service becomes unacceptable, check the serial line and its attached devices.

%LAPB-4-INFOBAD : Interface [chars], Info field not permitted

Explanation	A received FRMR frame reported that an information field was present in a frame where no information field is allowed.
Recommended Action	Check the serial line and the device attached to the line.

%LAPB-4-CTRLBAD : Interface [chars], Invalid control field

Explanation	A received FRMR reported a frame with an invalid control code.
Recommended Action	Check the serial line and the devices attached to the line.

%LAPB-4-N1TOOBIG : Interface [chars], N1 too large

Explanation	A received FRMR reported an information frame that was too long.
Recommended Action	Verify that the equipment attached to the serial line is configured with the same N1 value. N1 is in bits and includes the entire frame plus 16 bits of CRC. However, some equipment may require configuration in octets, the omission of the two CRC octets, or the omission of the three octets of LAPB control information.

%LAPB-4-INVNR : Interface [chars], Invalid NR value

Explanation	A received FRMR reported a frame with an invalid N(R) value.
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%LAPB-4-INVNR : Interface [chars], Invalid NR value

Recommended Action	Verify that the equipment attached to the serial line is configured with the same K value (maximum number of outstanding I frames).
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%LAPB-2-NOBUF : Interface [chars], no buffer available to [chars]

Explanation	There was insufficient memory for the LAPB protocol engine to send a message.
Recommended Action	This message is acceptable if it occurs infrequently, because the LAPB protocol is designed to handle loss of frames. Frequent occurrences can cause disruption of service. The system can be configured to ease memory demands or, if conditions warrant, the system can be upgraded to a larger memory configuration.

%LAPB-3-BADPAYLOAD : Interface [chars], Invalid payload value: [chars]

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

%LAPB-3-CONTEXTERR : [chars]: [chars]

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

%LAPB-3-TIMERERR : LAPB timer task cannot be created

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

LAT through LINK

- [LAT](#)
- [LAYER2_BRIDGE](#)
- [LAYER2_SVI](#)
- [LED](#)
- [LFD](#)

- [LI](#)
- [LICENSING](#)
- [LIIN](#)
- [LINEPROTO](#)
- [LINK](#)

LAT

%LAT-3-NOSYNC : Tty%t, Output data ptrs out of sync with byte count

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

%LAT-3-BADDATA : Tty%t, Data pointer does not correspond to current packet

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

%LAT-3-REUSE : Tty%t, Attempt to re-use slot array, empty = [dec], fill = [dec]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

%LAT-3-QBSPACED : Queue block at [hex] not found for HI connection

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

%LAT-3-BUFFULL : Tty%t, data buffer full with count [dec]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

%LAT-3-NULLIDB : Null IDB pointer with destination [enet]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, contact your technical support representative.

LAYER2_BRIDGE**%LAYER2_BRIDGE-3-INIT_FAILED : Initialization of the layer 2 bridging feature in QFP failed**

Explanation	Initialization of the layer 2 bridging feature in the QFP failed. This indicates a software failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_BRIDGE-3-ALLOC_FAILED : Allocation of [chars] memory failed for layer 2 bridging feature in QFP

Explanation	Allocation of memory by the QFP layer 2 bridging feature microcode failed. The name of the memory chunk is specified in the message. This indicates a software failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_BRIDGE-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for layer 2 bridging feature in QFP

Explanation	Layer 2 bridging initialization of packet replication registration failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_BRIDGE-3-HA_INVALID_STATE : state [dec], MSGDEF_LIMIT_MEDIUM

Explanation	An invalid HA state was received from the HA infrastructure.
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%LAYER2_BRIDGE-3-HA_INVALID_STATE : state [dec], MSGDEF_LIMIT_MEDIUM

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%LAYER2_BRIDGE-3-HA_BULK_SYNC_FAIL : rg [dec], MSGDEF_LIMIT_MEDIUM

Explanation	There was a failure such that Layer 2 bridge domain bulk sync did not occur
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LAYER2_SVI

%LAYER2_SVI-3-INIT_FAILED : Initialization of the SVI feature in QFP failed

Explanation	Initialization of the SVI feature in the QFP failed. This indicates a software failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_SVI-3-ALLOC_FAILED : Allocation of [chars] memory failed for SVI feature in QFP

Explanation	Allocation of memory by the QFP SVI feature microcode failed. The name of the memory chunk is specified in the message. This indicates a software failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LAYER2_SVI-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for SVI feature in QFP

Explanation	SVI initialization of packet replication registration failed.
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%LAYER2_SVI-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for SVI feature in QFP

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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LED

%LED-3-VIDEO_SOURCE_CHANGE_FAILED : Video Multicast Source Switch Failed. Error [dec], Source ([hex], [hex]), LED [dec]

Explanation	Video Input Source failed to switch to the next sourcee.
Recommended Action	Check the failed input source, and check for service impact

%LED-3-CONSOLE_SETUP_FAILED : Failed to setup console service. It should be enabled on [chars]

Explanation	Setup of a console service failed. This is a possible cBR8 provisioning error.
Recommended Action	Check the host manager launch parameters and correct as required.

%LED-2-INIT_FAILED : Video LED process initialization failed id [int]

Explanation	Initialization of the Video LED process failed. This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-VIPC_INIT_FAILED : VIPC initialization failed id [int]

Explanation	Initialization of the Video LED process failed. This is an internal software error.
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%LED-2-VIPC_INIT_FAILED : VIPC initialization failed id [int]

Recommended Action Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-VDMAN_IPC_INIT_FAILED : Vidman IPC initialization failed id [int]

Explanation Initialization of the Video LED process failed. This is an internal software error.

Recommended Action Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-ID_MISMATCH : LED ID mismatch Led id - [int], Instance - [int]

Explanation This is an internal software error.

Recommended Action Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-RESOURCE_ALLOCATION : Failed to Allocate memory, Led id [int]

Explanation This is an internal software error.

Recommended Action Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-INVALID_PSI_TYPE : Invalid PSI type, Led id [int]

Explanation	This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-DB_HA_ERROR : Database HA Error, Led id [int]

Explanation	This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-OUT_OF_CONTEXT_ERROR : LED Fell out of context loop, Led id [int]

Explanation	This is an internal software error.
Recommended Action	Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl , or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-GQILIB_INIT_FAILED : Failed to init GQI Lib, Led id [int]

Explanation	This is an internal software error.
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%LED-2-GOILIB_INIT_FAILED : Failed to init GOI Lib, Led id [int]

Recommended Action Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-TBLLIB_INIT_FAILED : Failed to init Table-based Lib, Led id [int]

Explanation This is an internal software error.

Recommended Action Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-2-VIPC_SEND_FAILURE : VIPC send failed, Led id [int]

Explanation This is an internal software error.

Recommended Action Retrieve and record the error message and other related information exactly as it appears on the console and/or the system log and IOS log. Search for resolved software issues using the Bug Toolkit at: http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl, or contact your Cisco technical support representative and provide the representative with the gathered information.

%LED-3-LED_IPC_FLOW_CONTROL : Flow control turned [chars] for VIPC port [int], remote port [int], remote slot [int]

Explanation Flow control triggered on IPC link between LED and VDMAN.

Recommended Action Check the LED btrace logs

LFD

%LFD-3-CHUNKMGRALLOC : failed chunk alloc: [chars]

Explanation	Chunk alloc() failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-CHUNKMGRDEALLOC : failed chunk dealloc: [chars]

Explanation	Chunk free() failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-UPDATEHANDLERFPI : No handler installed: fpi=[dec] handler type=[chars]

Explanation	No handler installed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-UPDATEHANDLER2 : [chars] [hex] [hex]

Explanation	Error in update handler
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-UPDATEHANDLER3 : [chars] [hex] [hex] [hex]

Explanation	Error in update handler
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%LFD-3-UPDATEHANDLER3 : [chars] [hex] [hex] [hex]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-4-NOFIBIDB : [chars] - ifnum [dec]

Explanation fibidb missing on linecard

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-REWMGR : Rewrite Manager: [chars] [hex]

Explanation Rewrite Manager error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-REWMGR2 : [chars] [hex] [hex]

Explanation Rewrite lookup failed due to FPI inconsistency

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-FPIHANDLER : LFD SSS Handler: [chars]

Explanation Error in fpi handler

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-2-FPIHANDLER3 : [chars] [hex] [hex] [hex]

Explanation	FPI Handler error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-NULLFIBIDB : NULL FIB IDB: [chars] [dec]

Explanation	NULL FIB IDB encountered
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-NULLADJACENCY : NULL Adjacency

Explanation	NULL adjacency encountered
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-FPITYPEWRONG : Require fpi type [chars], get fpi type [chars]

Explanation	Unmatched FPI type
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-4-UNSUPPORTEDRW : Unexpected rewrites seen where MPLS is not supported by platform for this slot

Explanation	MPLS is either not needed or not handled by the platform for this card and should not handle rewrites
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%LFD-4-UNSUPPORTEDRW : Unexpected rewrites seen where MPLS is not supported by platform for this slot

Recommended Action No action is required.

%LFD-3-NORESOURCE : [chars] [dec]

Explanation Resource Failure: %s %d

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-6-RESOURCE : [chars]

Explanation MPLS software is disabled on LC

Recommended Action No action is required.

%LFD-3-LTABLEMEM : Cannot allocate new mpls table [dec] of size [dec] needed for entry [dec]

Explanation Not enough contiguous memory for mpls forwarding table

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%LFD-3-SM : [chars] [dec]

Explanation State Machine error: %s %d

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-SMBADEVENT : Unexpected event [chars] for state [chars]

Explanation The LFD received an unexpected event for its state. The state of the LFD, and the unexpected event, are specified in the message text.

%LFD-3-SMBADEVENT : Unexpected event [chars] for state [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%LFD-3-BADEXEC : Unexpected Code Execution: [chars] [dec]

Explanation	Unexpected Code Execution
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-EVTLOGBADSOURCE : Illegal log event source: [dec]

Explanation	Illegal event found in log buffer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-2-AVL : [chars] [hex]

Explanation	AVL tree operation error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-CHUNKMGR : chunk mgr: [chars] [hex]

Explanation	Chunk manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INTFDB : intf db: [chars] [hex]

Explanation Interface db error**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INTFDB2 : intf db: [chars] [hex] [hex]

Explanation Interface db error**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-BADFRRTYPE : illegal fr type: [dec]

Explanation FRR request type error**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-4-OWNCHANGED : Owner changed for [chars] [dec]/[dec] from [dec] to [dec]

Explanation Label was previously installed by different installer**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVPLISTTYPE : Wrong plist_type expected [dec] for [dec]/[dec] update (was [dec])

Explanation Rewrite PLISTTYPE invalid for non-ip label table entry

%LFD-3-INVPLISTTYPE : Wrong plist_type expected [dec] for [dec]/[dec] update (was [dec])

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVROWID : Wrong rwid [dec] for non-ip LTE [dec]/[dec]

Explanation Rewrite ID invalid for non-ip label table entry

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVLABELETTYPE : Wrong label type [dec] for non-ip LTE [dec]/[dec]

Explanation Label type invalid for non-ip label table entry

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVPLABELTYPE : Wrong label type [dec] for IP Label [dec], table [dec] prefix [chars], vrf [chars]

Explanation Label type is invalid for the indicated label table entry

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%LFD-3-INVPLIST : Wrong path list type [dec] for label [dec]/[dec] [chars]

Explanation The path list type is set incorrectly for the label in question

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-BADSHORTLABELADD : Cannot add short label: path_idx [dec], moi_type [dec]

Explanation Unable to create MFI feature space in FIB entry, so unable to store short path extension information there.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-BADLABELADD : Cannot add label - [chars].

Explanation Unable to create label due to reason given.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVPATHLBL : [chars] [chars]

Explanation An invalid outgoing label is attached to the prefix

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%LFD-3-NOOCE : Attempt to get labels from OCE failed - [chars].

Explanation Calling function has provided insufficient information to get labels.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-XDRBADMAGIC : xdr message for [chars] spilled out of allocated static storage

Explanation An internal software error occurred.

%LFD-3-XDRBADMAGIC : xdr message for [chars] spilled out of allocated static storage

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%LFD-3-UNSUPPORTED_XDR : [chars]

Explanation	Decoding of an XDR message revealed data or format that is unsupported in the current release.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-BROKERINITFAIL : Failed to initialise lte RP broker facility

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-LCXDRCLIENT : LTE distribution client: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-NONIPINFO : Non-ip info: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-RPXDRCLIENT : Invalid XDR Client: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-ORPHANLTE : Label [dec]/[dec], plist [dec], LDM: [hex]

Explanation	The LTE for the label was supposed to be deleted, but is still present
Recommended Action	Collect the running configuration and output of show mpls forwarding-table labels label-num command and contact cisco technical service representative.

%LFD-3-RUNNING_TIMER : [chars] [dec] [chars] [dec]

Explanation	The MPLS forwarding entry for the specified label was deleted prior to the expiry of its associated timer
Recommended Action	If there is no matching bug for this problem, please collect the output of show mpls forwarding-table label <label> internal and the error message traceback and file a bug report.

%LFD-3-INVLABELUPDTYPE : Wrong label type [dec] for label [dec] table [dec] [chars] [chars]

Explanation	An invalid Label type was encountered during the specified operation
Recommended Action	If there is no matching bug for this problem, please collect the output of show mpls forwarding-table label <label> internal and the error message traceback and file a bug report.

%LFD-3-KEY_DB_INSERTFAIL : [chars], entry [hex], existing [hex]

Explanation	The element could not be inserted into the LFD's key database.
Recommended Action	If there is no matching bug for this problem, please collect the output of show mpls forwarding-table internal and the error message traceback and file a bug report.

%LFD-3-FIB_SRC : Label [[dec]/[dec]] [chars] [chars] [chars]

Explanation	The fib entry could not be sourced for label in question.
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%LFD-3-FIB_SRC : Label [[dec]/[dec]] [chars] [chars] [chars]

Recommended Action If there is no matching bug for this problem, please collect the output of **show mpls forwarding-table internal** and **show ip route [vrf <name>] <prefix>** and the error message traceback and file a bug

%LFD-4-FIB_SRC1 : Label [[dec]/[dec]] [chars] [chars] [chars]

Explanation The fib entry could not be sourced for label in question.

Recommended Action If there is no matching bug for this problem, please collect the output of **show mpls forwarding-table internal** and **show ip route [vrf <name>] <prefix>** and the error message traceback and file a bug

%LFD-3-OCE_CHAIN : [chars]

Explanation NULL OCE in chain

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-UNSUPPORT_OCE : Not support - [chars] [dec]

Explanation Unsupported OCE

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-CORRUPTED_PKT : [chars]

Explanation lfd received corrupted packet

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-4-RE_ENTRANT : Re-entrancy detected: [chars]

Explanation	lfd non ip recalculation has re-entrancy
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-LABEL_BLOCK_CHUNK : [chars]

Explanation	lfd label block chunk entry corrupted
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-INVPEXTLEN : [chars] path ext : attempt to decode beyond XDR buffer, cp [hex], cp_end [hex], msg_type [dec], msg_size [dec], padding [dec]

Explanation	Accessing memory beyond XDR buffer length while decoding path extensions
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-FIBIPINVALID : [chars], table: [dec] label: [dec]

Explanation	IP path information is invalid for the indicated label table entry
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-FIBIPINVALIDAF : AF: [dec] [chars], table: [dec] label: [dec]

Explanation	IP path information AF is invalid for the indicated label table entry
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%LFD-3-FIBIPINVALIDAF : AF: [dec] [chars], table: [dec] label: [dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-FIBNONIPINVALID : [chars], table: [dec] label: [dec]

Explanation Non IP path information is invalid for the indicated label table entry

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LFD-3-PATHEXTENCODE : [chars] [chars], path list: [IPV6 address], path ext: [IPV6 address]

Explanation MPLS path extensions could not be encoded for distribution

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

LI**%LI-3-MEM_INIT_FAILED : Allocation of [chars] memory failed for LI**

Explanation LI Initialization of channel pool failed.

Recommended Action LOG_STD_ACTION

%LI-3-PKT_REPLICA_INIT_FAILED : Register to Generic Packet Replication failed for LI

Explanation LI Initialization of packet replication registration failed.

%LI-3-PKT_REPLICA_INIT_FAILED : Register to Generic Packet Replication failed for LI

Recommended Action LOG_STD_ACTION

LICENSING

%LICENSING-6-LIC_MISMATCH : Configured license image level [chars] does not match the current level [chars]. Reload is required to bring the system up in [chars]

Explanation During boot-up of system, the configured license image level might mismatch with the current level. This could happen when customer copy a different startup-config to the system.

Recommended Action Reload is required to bring the system up in the configured license image level.

LIIN

%LIIN-3-VRFADD_FAIL : Problem creating vrf

Explanation The LIIN config process failed to allocate a mandatory iVRF. The LIIN interface will not operate properly and cannot be recovered. Persistent access features and interactive commands will not work.

Recommended Action LOG_STD_ACTION

%LIIN-3-VRFMODIFY_FAIL : Problem adding LIIN interface to vrf table

Explanation The LIIN config process failed to assign the LIIN interface to its mandatory iVRF. The LIIN interface will not operate properly and cannot be recovered. Persistent access features and interactive commands will not work.

Recommended Action LOG_STD_ACTION

%LIIN-3-SET_TABLEID_FAIL : Installing [chars] LIIN interface tableid failed

Explanation This error happens when IOS failed to set tableid into linux kernel, possibly due to either IOSd or kernel out of memory or corruption. In this case, LIIN interface will not have VRF installed for the associated address family. The LIIN interface will not operate properly and cannot be recovered. Persistent access features and interactive commands will not work.

Recommended Action LOG_STD_ACTION

%LIIN-3-SET_ACCESS_FAIL : Installing LIIN interface access control failed

Explanation	This error happens when IOS failed to set the access control function for the LIIN, possibly due to IOSd out of memory or corruption. In this case, LIIN interface setup will not proceed, will not operate properly and cannot be recovered. Persistent access features and interactive commands will not work.
Recommended Action	LOG_STD_ACTION

%LIIN-6-TELNET_ALLOWED : Telnet access allowed due to romvar: SR_INIT_SHELL

Explanation	Telnet from shell to IOS allowed because rommon variable SR_INIT_SHELL is set with value aux_do_system_shell. Remove this value from SR_INIT_SHELL or unset SR_INIT_SHELL to disable the telnet access
Recommended Action	No action is required.

LINEPROTO

%LINEPROTO-5-UPDOWN : Line protocol on Interface [chars], changed state to [chars]

Explanation	The data link level line protocol changed state.
Recommended Action	No action is required.

LINK

%LINK-4-NOMAC : A random default MAC address of [enet] has been chosen. Ensure that this address is unique, or specify MAC addresses for commands (such as 'novell routing') that allow the use of this address as a default.

Explanation	An addressing inconsistency occurred.
Recommended Action	Make sure that this address is unique, or specify MAC addresses for commands such as novell routing that allow the use of this address as a default.

%LINK-4-NOSSB : SSB deleted with timer running

Explanation	An internal software error occurred. Problem has been corrected, and router operation has not been impaired.
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%LINK-4-NOSSB : SSB deleted with timer running

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-2-NOSOURCE : Source idb not set

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-2-LINEST : No linestate vector for [chars]

Explanation An internal software inconsistency occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-5-CHANGED : Interface [chars], changed state to [chars]

Explanation The interface hardware changed state.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-UPDOWN : Interface [chars], changed state to [chars]

Explanation The interface hardware went either up or down.

Recommended Action If the state change was unexpected, confirm the configuration settings for the interface.

%LINK-4-TOOBIG : Interface [chars], Output packet size of [dec] bytes too big

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-TOOSMALL : Interface [chars], Output runt packet of [dec] bytes

Explanation	An output packet was detected that was smaller than the minimum allowable datagram size. An error in another driver or an error in the system software probably triggered this error message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-BADMACREG : Interface [chars], non-existent MACADDR registry for link [dec]

Explanation	An attempt to map a network level address to a MAC level address failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-BADENCAP : Interface [chars], Bad encapsulation code ([dec])

Explanation	The lower level software was unable to write a MAC header for a datagram. A probable cause is configuration error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-2-BADVCALL : Interface [chars], undefined entry point

Explanation	An internal software error occurred. The high-level system code tried to use an unimplemented entry point with the virtual interface descriptor block (IDB) driver.
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%LINK-2-BADVCALL : Interface [chars], undefined entry point

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-2-INTVULN : In critical region with interrupt level=[dec], intfc=[chars]

Explanation An internal software error occurred. The high-level system code tried to call this routine with interrupts enabled.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-0-REENTER : Fatal reentrancy, level=[dec], intfc=[chars]

Explanation An internal software error occurred. The system code tried to access a critical data structure which was already in use.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-5-BOOTP : [chars] address [IP_address], resolved by [IP_address]

Explanation An interface's IP address was successfully learned dynamically through BootP. The first address is the learned IP address. The second IP address is the IP address of the BootP server that provided the information.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-5-RARP : [chars] address [IP_address], resolved by [IP_address]

Explanation The Reverse Address Resolution Protocol (RARP) resolved an IP address.

%LINK-5-RARP : [chars] address [IP_address], resolved by [IP_address]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-5-SLARP : [chars] address [IP_address], resolved by [IP_address]

Explanation The Serial Line Address Resolution Protocol (SLARP) resolved an IP address.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-4-FDDISTAT : Interface [chars], FDDI state [chars] detected

Explanation There was a state change on the FDDI ring.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-4-BRIDGECONFLICT : Interface [chars], encapsulated BPDU recvd from [enet]

Explanation An FCIT running in nonencapsulating transparent mode detected an FDDI bridge running in encapsulation mode on the same fiber. This is an unstable situation and should be corrected. The incoming interface is displayed, along with the FDDI MAC address in standard form.

Recommended Action Upgrade the errant interface to full transparent mode. Copy the error message exactly as it appears, and report it to your Cisco technical support representative.

%LINK-5-REMLOOP : Interface [chars], remote loop [chars] [chars]

Explanation The interface entered or exited a remote loopback.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-5-LOOPSTATUS : Interface [chars], [chars]

Explanation	The interface entered or exited loopback.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-6-BERTSTATUS : Interface [chars], [chars]

Explanation	BERT is completed for this interface.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-6-BERTMSGS : [chars]

Explanation	BERT related information messages.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-COMPREG : Interface [chars], non-existent (de)compression registry. Packet dropped

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-BOGUSENCAP : msgtxt_badencap

Explanation	A serial interface has been configured with an unknown encapsulation.
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%LINK-3-BOGUSENCAP : msgtxt_badencap

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%LINK-4-BADQID : Interface [chars], bad output queue ID specified ([dec]). Packet dropped

Explanation	This message indicates an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-EMPTYPAK : Interface [chars], empty packet dequeued; linktype [dec], queue [dec].

Explanation	This message indicates an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-IDBLISINS : Not able to insert interface [chars] into [chars] list

Explanation	This message indicates an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-IDBLISCRE : Unable to create [chars] interface list

Explanation	This message indicates an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-LINK_FAULT : [chars] [chars] [chars] [chars]

Explanation	The link state for the port is down
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LINK-3-FCS_ERROR : [chars] [chars] [chars] [chars]

Explanation	The FCS Error rate exceeds the configured threshold
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LISP_PROXY through LOGGER

- [LISP_PROXY](#)
- [LI_CORE](#)
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LISP_PROXY

%LISP_PROXY-3-PROXY_IPC_INIT_FAILED : lisp proxy init failed, rc = [dec]

Explanation	IPC handler initialization failed.
Recommended Action	LOG_STD_ACTION

%LISP_PROXY-4-PROXY_IPC_INVALID_MSG : invalid lisp proxy msg [dec]

Explanation Received an invalid IPC messages subtype.**Recommended Action** LOG_STD_ACTION

%LISP_PROXY-3-PROXY_IPC_PACKET_ALLOCATION_FAILED : lisp proxy alloc reply pak failed

Explanation Failed to allocate packet buffer for IPC**Recommended Action** LOG_STD_ACTION

%LISP_PROXY-3-PROXY_IPC_PACKET_SEND_FAILED : lisp proxy send failed, rc = [dec]

Explanation Failed to send IPC packet.**Recommended Action** LOG_STD_ACTION

%LISP_PROXY-3-PROXY_IPC_REQUEST_MSG_INVALID : lisp proxy request msg invalid.

Explanation Failed to get lisp default entry stats req from IPC packet.**Recommended Action** LOG_STD_ACTION

%LISP_PROXY-3-PROXY_IPC_GET_STATS_FAILED : lisp proxy get stats failed for type[[chars]] idx = [dec], ppe_addr[[hex]].

Explanation Getting lisp default entry stats failed.**Recommended Action** LOG_STD_ACTION

LI_CORE

%LI_CORE-2-EGRESS_INTF_NO_GLOB_IPV6_ADDR : LI host address configured is IPv6, but no global IPv6 address configured on egress interface [chars]

Explanation At least one local IPv6 global/routable address is needed to reach the LI host server**Recommended Action** If this message occurs, at least one IPv6 global address needs to be configured on the egress interface towards the LI host server.

%LI_CORE-2-EGRESS_INTF_NOT_SVI : Not supported: egress interface ([chars]) towards LI host [chars] is not an SVI

Explanation	Egress interface to reach the LI host is restricted to be an SVI
Recommended Action	If this message occurs, the egress interface towards the LI host server needs to be configured as an SVI

LLC

%LLC-2-UNEXPECT : LLC2: [chars] UNEXPECTED EVENT

Explanation	An internal software error was found. A software component is trying to use LLC2 structures that do not exist.
Recommended Action	Record the configuration and any information that would be useful in recreating the error and call your technical support representative.

LLDP

%LLDP-4-LLDP_NEW_ENTRY : Neighbor record not committed - malloc failure

Explanation	LLDP entry creation failed
Recommended Action	Run memory diagnostics

LLIST

%LLIST-3-ONLIST : [chars] to [hex], [hex] on list

Explanation	An internal inconsistency was detected when an attempt was made to add an item to a list already on the list.
Recommended Action	Copy the message exactly as it appears and report it to your technical service representative.

%LLIST-3-OFFLIST : [chars] from [hex], [hex] not on list

Explanation	An internal inconsistency was detected when an attempt was made to remove an item from a list not on the list.
Recommended Action	Copy the message exactly as it appears and report it to your technical service representative.

LMLIB_RTU_LICENSE

%LMLIB_RTU_LICENSE-4-EVAL_WARN : Evaluation period of [chars] license is about to expire in [dec] days. Purchase a permanent license.

Explanation The evaluation license is about to expire.

Recommended Action Purchase a permanent license.

%LMLIB_RTU_LICENSE-4-TERM_WARN : Subscription term period of [chars] license is about to expire in [dec] days. Please renew your license.

Explanation The subscription license is about to expire.

Recommended Action Renew your subscription license.

%LMLIB_RTU_LICENSE-1-EVAL_EXP : Evaluation period of [chars] license expired [dec] days ago. Purchase a permanent license.

Explanation The evaluation license has expired.

Recommended Action Purchase a permanent license.

%LMLIB_RTU_LICENSE-1-TERM_EXP : Subscription term period of [chars] license expired [dec] days ago. Please renew your license.

Explanation The subscription license has expired.

Recommended Action Renew your subscription license.

%LMLIB_RTU_LICENSE-6-AP_ADD : [dec] adder AP-count licenses are added

Explanation AP-count licenses have been added.

Recommended Action More APs can be supported.

%LMLIB_RTU_LICENSE-1-EXCESS_AP_LIC : Total AP-count licenses available have exceeded the maximum supported AP-count by [dec].

Explanation The number of AP-count licenses available is greater than the maximum number of supported AP-count.

%LMLIB_RTU_LICENSE-1-EXCESS_AP_LIC : Total AP-count licenses available have exceeded the maximum supported AP-count by [dec].

Recommended Action The extra AP-count licenses can be moved to another controller.

%LMLIB_RTU_LICENSE-1-AP_USAGE_EXCEEDED : AP-count license usage has exceeded the available AP-count by [dec].

Explanation AP-count license usage has exceeded the available AP-count.

Recommended Action Remove the excess APs from the controller.

%LMLIB_RTU_LICENSE-1-AP_INSUFFICIENT_PERM_APCOUNT : APs connected exceed the permanent licenses available by [dec].

Explanation The number of APs connected is greater than the number of permanent licenses.

Recommended Action Purchase adder licenses to add to your existing permanent licenses.

%LMLIB_RTU_LICENSE-6-AP_DEL : [dec] adder AP-count licenses are removed.

Explanation AP-count licenses have been removed.

Recommended Action Fewer APs are supported.

%LMLIB_RTU_LICENSE-6-LIC_INVALID_DEACT : [chars] license is not active on [chars] therefore, it cannot be

Explanation The license level is not activated.

Recommended Action No need to deactivate this license.

%LMLIB_RTU_LICENSE-6-LIC_ACT : [chars] license is activated successfully on [chars].

Explanation The license level is activated.

Recommended Action Reboot the switch to invoke the activated license.

%LMLIB_RTU_LICENSE-6-LIC_ACTVED : [chars] license was already activated.

Explanation	The license level was already activated.
Recommended Action	Reboot the switch to invoke the activated license.

%LMLIB_RTU_LICENSE-6-LIC_EXPED : [chars] evaluation license has expired you cannot activate it again.

Explanation	You cannot use an expired evaluatoin license.
Recommended Action	Purchase a permanent license level or activate another license level.

%LMLIB_RTU_LICENSE-6-LIC_EVAL_TO_PERM : License level upgraded from [chars] [chars] to [chars] [chars]

Explanation	A license has been upgraded to a permanent or subscription license. A reboot is NOT required for the new license level to be effective.
Recommended Action	No action is required

%LMLIB_RTU_LICENSE-6-LIC_CHANGE : [chars] reboot license level changed from [chars] to [chars]. Reboot the switch to invoke the new license level.

Explanation	Reboot license level has been changed.
Recommended Action	Reboot the switch to invoke the activated license level.

%LMLIB_RTU_LICENSE-6-LIC_EULA_CLEAR : EULA for [chars] license has been cleared on [chars].

Explanation	License level has been deactivated.
Recommended Action	The end user license agreement (EULA) needs to be accepted while activating this license level.

%LMLIB_RTU_LICENSE-3-FILE_ERR : [chars]: License file update failed. Reapply the configuration.

Explanation	Failed to update the license file.
Recommended Action	Reapply the configuration.

%LMLIB_RTU_LICENSE-3-FILE_READ_ERR : [chars]: License file read failed.

Explanation Failed to read the license file.**Recommended Action** Reapply the configuration.

%LMLIB_RTU_LICENSE-6-LIC_INCOMPAT : Switch [dec] has an incompatible license level. Activate a compatible license on the switch so that the switch can join the stack.

Explanation The added switch has an incompatible license level.**Recommended Action** Activate a new license and reboot the switch.

%LMLIB_RTU_LICENSE-6-PLAT_INCOMPAT : Switch [dec] has an incompatible platform level. Activate a compatible platform on the switch so that the switch can join the stack.

Explanation The added switch has an incompatible platform level.**Recommended Action** Run in compatible scaled mode and reboot the switch.

%LMLIB_RTU_LICENSE-1-SKU_INCOMPAT : Both the switches in the stack are AIR-CT5760-HA-K9 SKUs. Replace one of the switches with another Catalyst 5760 SKU running valid AP License Count

Explanation Two AIR-CT5760-HA-K9 SKUs are not supposed to stack.**Recommended Action** Replace the license mismatch switch with a Catalyst 5760 SKU running valid AP License Count.

%LMLIB_RTU_LICENSE-1-PRIMARY_REMOVED : The current stack does not support the applied AP License Count. Reconnect a Catalyst 5760 SKU running valid AP License Count within 90 days.

Explanation AIR-CT5760-HA-K9 does not support the same licensing as AIR-CT5760-HA-K9. So an AIR-CT5760-HA-K9 SKU is needed in the stack to support this licensing.**Recommended Action** Reconnect a Catalyst 5760 SKU running valid AP License Count within 90 days.

%LMLIB_RTU_LICENSE-1-RTU_DISABLED : Cannot proceed. Right-to-use Licensing is disabled. Switch is in Smart Licensing mode.

Explanation RTU functionality is disabled when switch in SL mode.**Recommended Action** Enable RTU licensing with CLI: no license smart enable.

%LMLIB_RTU_LICENSE-6-ENABLE_RTU : [chars]: Right-to-use Licensing is enabled. Switch is in RTU mode.

Explanation User configures RTU licensing by disabling Smart Licensing.

Recommended Action Configure image license and ap count license if needed.

%LMLIB_RTU_LICENSE-6-DISABLE_RTU : [chars]: Right-to-use Licensing is disabled. Switch is in Smart Licensing mode.

Explanation User enables Smart Licensing.

Recommended Action Request image license license if needed.

%LMLIB_RTU_LICENSE-6-IOSD_LIC_MISMATCH : Switch #[dec]: Current IOSd runs on [chars] license while RTU active license is [chars]. Please configure RTU license to current IOSd license.

Explanation When customer switches license mode from Smart Licensing to RTU Licensing, current IOSd license might mismatch with RTU active license.

Recommended Action Configure RTU license level to current IOSd license.

%LMLIB_RTU_LICENSE-6-LIC_IMAGE_INVALID : Switch #[dec]: The license boot level string is invalid. Boot up with the highest activated license.

Explanation The license boot level string is invalid. The RTU highest activated license is used.

Recommended Action Use 'license boot level' to configure a valid license level

%LMLIB_RTU_LICENSE-6-FACTORY_DEFAULT_ERROR : Factory Default License File [chars] on [chars].

Explanation An error occurred when trying to create the factory default file.

Recommended Action Fix the issue and try again.

LMRP

%LMRP-0-CHASFS_LOCATION_TRANSLATE : Failed to translate a location to a chasfs object name because [chars]

Explanation The license manager failed to translate a location to a chasfs object name.

%LMRP-0-CHASFS_LOCATION_TRANSLATE : Failed to translate a location to a chasfs object name because [chars]

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_OBJECT_CREATE : Failed to create chassis filesystem object [chars] because [chars]

Explanation The hardware failed to create a chassis filesystem object.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_PROPERTY_CREATE : Failed to create chassis filesystem object [chars] property [chars] because [chars]

Explanation A chassis filesystem property was not properly created.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_PROPERTY_GET : Failed to read chassis filesystem object [chars] property [chars] because [chars]

Explanation A chassis filesystem property was not properly read by the system.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_PROPERTY_SET : Failed to write chassis filesystem object [chars] property [chars] because [chars]

Explanation A chassis filesystem property failed to write.

%LMRP-0-CHASFS_PROPERTY_SET : Failed to write chassis filesystem object [chars] property [chars] because [chars]

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-RESOLVE_FRU : Failed to determine [chars] card because [chars]

Explanation The router failed to determine a FRU state.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-EVENT_LIBRARY : An event facility initialization or maintenance function failed because [chars]

Explanation An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-PEER_TABLE : A peer table initialization or maintenance function failed because [chars]

Explanation A peer table initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-3-PEER_INVALID : A peer table entry has invalid state.

Explanation A peer table entry has an invalid state. This could be due to a software defect or system resource exhaustion.

%LMRP-3-PEER_INVALID : A peer table entry has invalid state.

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%LMRP-0-UIPEER_CREATE : Failed to create user interface peer.

Explanation	The system failed to create a user interface peer.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-SLOTS_INITIALIZATION : Failed to initialize chassis slot information because [chars]

Explanation	The system failed to initialize the chassis slot information.
Recommended Action	Note the time of the error message and examine the logs for IDPROM or software errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-SIGNAL_INITIALIZATION : Failed to initialize signals because [chars]

Explanation	The system failed to initialize signals.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-SERVICES_INITIALIZATION : Failed to initialize general application services because [chars]

Explanation	The system failed to initialize application services.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-MESSAGE_REGISTER : Failed to register with active RP because [chars]

Explanation	The active RP failed to register.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-MESSAGE_RESPONSE : An invalid message response was received because [chars]

Explanation	An invalid message response was received. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASSIS_TYPE : The chassis type [chars] is invalid.

Explanation	The chassis type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.
Recommended Action	Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-PLATFORM_FAMILY_TYPE : The platform family type [chars] is invalid.

Explanation	The platform family type is invalid. This could be due to a hardware defect, software defect or incorrect IDPROM content.
Recommended Action	Note the time of the error message and examine the logs for IDPROM and hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASSIS_STATUS : Failed to get chassis hardware status because [chars]

Explanation	The system failed to get the chassis hardware status.
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%LMRP-0-CHASSIS_STATUS : Failed to get chassis hardware status because [chars]

Recommended Action Note the time of the error message and examine the logs for CPLD driver or hardware errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-3-CHASFS_OBJECT_DESTROY : Failed to destroy chassis filesystem object [chars] because [chars]

Explanation A chassis filesystem object that should have been destroyed was not destroyed.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-3-CHASFS_PROPERTY_DESTROY : Failed to destroy chassis filesystem property [chars]/[chars] because [chars]

Explanation A chassis filesystem property that should have been destroyed was not destroyed.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_OBJECT_WATCH : Failed to watch chassis filesystem object [chars] because [chars]

Explanation A chassis filesystem object was not watched because of the reason stated in the error message.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_OBJECT_NOT_PRESENT : Expected chassis filesystem object [chars] not present.

Explanation A chassis filesystem object expected to be present is not. This could be due to a software defect or filesystem failure.

%LMRP-0-CHASFS_OBJECT_NOT_PRESENT : Expected chassis filesystem object [chars] not present.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-CHASFS_PROPERTY_NOT_PRESENT : Expected chassis filesystem object [chars] property [chars] not present.

Explanation A chassis filesystem object property expected to be present is not. This could be due to a software defect or filesystem failure.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-INVALID_ARGUMENT : A system function was given an invalid argument.

Explanation A system function was given an invalid argument. This is due to a software defect.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-SLOT_INVALID : A card absolute slot number cannot be determined for this chassis type

Explanation An absolute slot number is invalid. This could be due to a software defect or incorrect IDPROM content.

Recommended Action Note the time of the error message and examine the logs for IDPROM or software errors. If the logs provide information about a correctable problem, correct the problem. If the problem is not correctable or the logs are not helpful, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-IPC_INITIALIZATION : IPC initialization failed because [chars]

Explanation IPC initialization failed. This could be due to a software defect or system resource exhaustion.

%LMRP-0-IPC_INITIALIZATION : IPC initialization failed because [chars]

Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%LMRP-0-IPC_CONNECT_MASTER : IPC connection to the active RP failed because [chars]

Explanation	IPC connection to the active RP failed. This could be due to a software defect or system resource exhaustion.
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Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%LMRP-0-IPC_CONNECTION_INVALID : An IPC connection has invalid state.

Explanation	An IPC connection has an invalid state. This could be due to a software defect or system resource exhaustion.
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Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%LMRP-0-MQIPC_INITIALIZATION : MQIPC initialization failed because [chars]

Explanation	MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.
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Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.
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%LMRP-0-MQIPC_ADVANCE : Failed to advance MQIPC queue because [chars]

Explanation	The MQIPC initialization failed.
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%LMRP-0-MQIPC_ADVANCE : Failed to advance MQIPC queue because [chars]

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-0-MESSAGE_RELAY : Failed to relay a message because [chars]

Explanation Failed to relay a message. This could be due to a software defect or system resource exhaustion.

Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-3-LICENSE_SERVICE_SETUP : Failed to setup the licensing proxy service

Explanation License Manager failed to set itself up as a proxy for licensable features.

Recommended Action Collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%LMRP-6-THROUGHPUT_LICENSE : Throughput license [chars], throughput set to [chars]

Explanation Status indicating whether throughput license is found and the corresponding throughput the CPP hardware is configured to provide.

Recommended Action No user action is necessary. This is an informational message indicating throughput configured.

%LMRP-3-THROUGHPUT_LICENSE_APPLY_FAILED : Throughput license look-up failed due to '[chars]'

Explanation This message is to notify the user that a license look-up did not succeed because license manager process could not be contacted. This is a rare case but is due to either a crashed license daemon(licensed) or it encountered an internal error.

Recommended Action No user action is necessary. However, it is possible that a re-boot of the box may correct this behavior.

%LMRP-3-UDI_AUTH : Quack Unique Device Identifier authentication failed

Explanation This chassis seems to be compromised or tampered with. UDI burned on to the Quack chip and the one read from chassis EEPROM do not match. It can also be a case of either EEPROM or Quack device failure. More details about which specific field failed to match are logged in license daemon log file (licensed_R0.log).

Recommended Action User immediately needs to contact Cisco support. This device appears to be tampered with or is a counterfeit device or had a system failure.

%LMRP-3-RTU_UNINITIALIZED : RTU not yet initialized: stack enabled [dec]

Explanation License manager has not initialized RTU, but manager got RTU enable/disable request

Recommended Action No user action is necessary. Reloading might work

LNMC

%LNMC-3-BADCLSIIND : [chars] Invalid indication [chars], [chars]

Explanation A LAN network manager system error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSIRET : [chars] Invalid ret code ([hex]) [chars], [chars]

Explanation A LAN network manager system error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSI CNF : [chars] Invalid confirm [chars] [chars]

Explanation A LAN network manager system error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSI : [chars] primitive not valid for Inm [chars] [chars]

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSIIDTYPE : [chars] Invalid ID type = [hex] [chars]

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSI PRIMTYPE : [chars] Invalid primitive type = [hex] [chars]

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSIHDRLEN : [chars] Bad header len = [hex] [chars]

Explanation	A LAN network manager system error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSIDATALEN : [chars] Bad data len = [dec] [chars]

Explanation	A LAN network manager system error occurred.
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%LNMC-3-BADCLSIDALEN : [chars] Bad data len = [dec] [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LNMC-3-BADCLSI SAP id = [hex] [chars]

Explanation A LAN network manager system error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

LOADBALANCE_TRACE_MESSAGE

%LOADBALANCE_TRACE_MESSAGE-3-AP_SW_UPDATE_ERR_LOG_MSG : AP SW update [chars]

Explanation AP Software Update logging

Recommended Action AP software update failed. ISSU image upgrade or SMU patching could be aborted. The user needs to initiate ISSU upgrade/SMU patch again. If the error occurred during manual operation, operation can be initiated again

%LOADBALANCE_TRACE_MESSAGE-5-AP_SW_UPDATE_LOG_MSG : AP SW update [chars]

Explanation AP Software Update logging

Recommended Action No action required

LOGGER

%LOGGER-3-TEST1 : Non rate limited message test

Explanation

Recommended Action

%LOGGER-3-TEST2 : Rate limited message test

Explanation**Recommended
Action**

%LOGGER-6-DROPPED : [int] messages, MSGDEF_LIMIT_GLACIAL

Explanation Due to a lack of available buffers, one or more log messages were dropped.**Recommended
Action** LOG_STD_ACTION

%LOGGER-3-ASSERT : failure at [hex]:[chars]:[int] ([chars]), MSGDEF_LIMIT_FAST

Explanation Software detected a fatal data inconsistency.**Recommended
Action** LOG_STD_ACTION

%LOGGER-6-IPC_ALLOC : failure, MSGDEF_LIMIT_GLACIAL

Explanation Logger client IPC alloc failed, messages were dropped.**Recommended
Action** LOG_STD_ACTION

%LOGGER-6-IPC_SEND : failure: [chars], MSGDEF_LIMIT_GLACIAL

Explanation Logger client IPC send failed, messages were dropped.**Recommended
Action** LOG_STD_ACTION

%LOGGER-3-IPC_INIT : failure

Explanation Logger client proxy IPC registration failed.**Recommended
Action** LOG_STD_ACTION

%LOGGER-3-IPC_UNHANDLED : failure, MSGDEF_LIMIT_GLACIAL

Explanation An unknown message was received by the logger client proxy.

%LOGGER-3-IPC_UNHANDLED : failure, MSGDEF_LIMIT_GLACIAL

Recommended Action LOG_STD_ACTION

LSD through MCPRP_CLI

- [LSD](#)
- [LSD_CLIENT](#)
- [LSD_HA](#)
- [LSMPI](#)
- [LUA_VM](#)
- [MAB](#)
- [MACSEC](#)
- [MATM](#)
- [MBOX](#)
- [MCPRP_CLI](#)

LSD

%LSD-2-RESOURCE : [chars]

Explanation System resource error occurred

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%LSD-2-INVALID_VAR : [chars]

Explanation Function received invalid parameters

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-4-INVALID_VAR_WARN : [chars]

Explanation Function received invalid parameters

%LSD-4-INVALID_VAR_WARN : [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%LSD-4-BADAPI : [chars] from [chars]

Explanation	LSD recieved message with invalid parameters
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-2-TESTAPP2 : Test app error: [chars]: [hex] [hex]

Explanation	Test application error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-2-INVALID_VAR2 : [chars] [hex] [hex]

Explanation	Function received invalid parameters
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-2-APP_NOTSUPP : [chars] interface does not support app [chars]

Explanation	Interface does not support app
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-2-AVL : [chars] [hex]

Explanation	AVL tree operation error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-2-FPIHANDLER : [chars] [hex]

Explanation	FPI Handler error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-CHUNKMGR : chunk mgr: [chars] [hex]

Explanation	Chunk manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-REWMGR : Rewrite Manager: [chars] [hex]

Explanation	Rewrite Manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-REWMGR2 : [chars] [hex] [hex]

Explanation	Rewrite lookup failed due to FPI inconsistency
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%LSD-3-REWMGR2 : [chars] [hex] [hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%LSD-3-EVTLOGBADSOURCE : Illegal log event source: [dec]

Explanation	Illegal event found in log buffer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-UPDATEREGREXEC : Illegal exec: [chars] [hex]

Explanation	Illegal code execution
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-UPDATEREGR2 : [chars] [dec] [dec]

Explanation	General error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-APPMGR : [chars] [hex]

Explanation	App Manager error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-CLIENT_CONN : [chars]

Explanation	Client connection error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-CLIENT_CONN2 : [chars] [hex] [hex]

Explanation	Client connection error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-INTF_DB : [chars]

Explanation	interface db error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-INTF_DB2 : [chars] [hex] [hex]

Explanation	interface db error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-LABEL : [chars][dec]

Explanation	label operation error
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%LSD-3-LABEL : [chars][dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%LSD-3-LABEL2 : [chars] [hex] [hex]

Explanation	label error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-4-LABEL_RESOURCE : label range [dec]-[dec] exhausted

Explanation	MPLS application is trying to allocate more labels than configuration will allow
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-4-LABELFREETO : requested free timeout ([int] ms) by [chars] limited to: [int] ms

Explanation	MPLS application label free timeout exceed max allowed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-MULTISERVICEREQ : Multiple outstanding service requests: [dec] [dec]

Explanation	Server request attempted with one already outstanding
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-BADEXEC : Unexpected Code Execution: [chars] [dec]

Explanation	Unexpected Code Execution
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-INVALID_PROC_EVT : Unexpected process event [dec] for pid [dec]

Explanation	The LSD component received an unexpected process event notification for the process with the specified ID
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD-3-OS_NOTIFY : Process id [dec] [chars], error code [dec]

Explanation	LSD was unable to notify the operating system about (un)registration of the specified process.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version <NoCmd Bold>, <CmdBold> show running-config , show mpls infrastructure lsd apps and contact your Cisco technical support representative.

%LSD-4-HW_RESOURCE_EXHAUSTED : Hardware resource exhausted on [chars] of type [dec]

Explanation	The platform has run out of hardware resources.
Recommended Action	Reduce the mpls configuration.

%LSD-3-LABEL_TBL_ERR : Failed to create new label table due to [chars]

Explanation	Label space is not carved properly. This is likely due to platform capabilities.
Recommended Action	Check platform capabilities to make sure max label values are set correctly.

%LSD-3-OUTLABEL_RESV_ERROR : [chars]

Explanation	outlabel reservation error - allocated cli-app outlabels are more than the platform supported outlabels
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LSD_CLIENT

%LSD_CLIENT-3-UTIL2 : [chars]: [hex] [hex]

Explanation	MFI Utilities error occurred
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%LSD_CLIENT-3-PCHUNK2 : [chars]: [chars] [hex] [hex]

Explanation	Parameterized Chunk Manager error occurred
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version , show running-config and show process memory and contact your Cisco technical support representative.

%LSD_CLIENT-2-MSGHANDLERERR : Client=[dec] Msg type=[dec] Error=[chars]

Explanation	LSD Client API message handler error encountered
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%LSD_CLIENT-3-CLIENTAPI : Client API error: [chars] [dec]

Explanation	Unexpected Client API error
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%LSD_CLIENT-3-INVALID_VAR : [chars]

Explanation	Function received invalid parameters
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%LSD_CLIENT-2-XDREXEC : [chars] [dec]

Explanation	Illegal code execution in XDR path
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%LSD_CLIENT-2-XDREXEC2 : [chars] [hex] [hex]

Explanation	Illegal code execution in XDR path
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%LSD_CLIENT-3-ISSU_MSG_CONV : [chars] [dec] [dec]

Explanation	Could not convert received message type to known message
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%LSD_CLIENT-3-ISSU_REG : ISSU client [chars] ([dec]), entity [dec], failed ISSU registration: [chars]

Explanation	ISSU negotiation failed for this XDR client.
Recommended Action	This error indicates a coding problem. It is an error that will occur every time this image is run, and requires a code change to fix it.

%LSD_CLIENT-3-ISSU_ENUM_ERROR : Enum for [chars] is not ISSU-compliant: [chars]

Explanation The given enumeration is not ISSU-compliant for the reason given. Unpredictable behaviour will result when interoperating with different IOS versions.

Recommended Action This requires a code fix before the image can be shipped or ISSU will be broken.

LSD_HA

%LSD_HA-2-RESOURCE : [chars]

Explanation System resource error occurred

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%LSD_HA-4-CF : [chars][dec]

Explanation CF related error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD_HA-2-RF : [chars][dec]

Explanation RF related error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD_HA-3-INVALID_VAR : [chars]

Explanation Function received invalid parameters

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD_HA-3-GENERAL : [chars]

Explanation	Function received invalid parameters
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD_HA-3-UNSENT_MSG_DB : [chars]

Explanation	Error happen in unsent msg db
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%LSD_HA-3-LABEL_RANGE_DB : [chars]

Explanation	Error happen in label range db
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LSMPI

%LSMPI-4-INJECT_FEATURE_ESCAPE : Egress [chars] packet delivered via legacy inject path

Explanation	A packet with a CPP supported L3 encapsulation (such as IP) was produced by IOS but delivered to CPP via the L2/legacy inject path instead of the proper L3 inject path. For this packet, outbound features will not be applied and packet accounting will likely be incorrect.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

LUA_VM**%LUA_VM-2-INITIALIZATION : Cannot initialize the Lua Virtual Machine**

Explanation	The Lua Virtual Machine is a critical component of the shell-manager process. It is used to render responses to user commands. If this component cannot be initialized then the shell-manager will be unable to process any commands directed at the IOS-XE daemons.
Recommended Action	The shell-manager process could not be started. Check the trace log files for more details as to why the virtual machine failed to initialize correctly. This may be an out of memory condition so rebooting the chassis may resolve the problem.

MAB**%MAB-5-SUCCESS :**

Explanation	MAB Authentication was successful.
Recommended Action	No action is required.

%MAB-5-FAIL :

Explanation	MAB Authentication was unsuccessful.
Recommended Action	No action is required.

MACSEC**%MACSEC-4-RX_SC_EXCEED : (RX SCI [hex] : TX SCI [hex] : vport [dec] : secy vport [dec])**

Explanation	RX SC exceeds hardware limit.
Recommended Action	No action required (normal operation).

%MACSEC-5-REPLAY_WINDOW_BREACHED : (RxSCI %19s) Replay Window Breached on interface [chars].

Explanation	Multiple In Late Packets Received.
Recommended Action	No action required (normal operation).

%MACSEC-4-TX_SC_EXCEED : (TX SCI [hex] : vport [dec])

Explanation TX SC exceeds hardware limit.**Recommended Action** No action required (normal operation).

%MACSEC-4-IPMTU_OVERSIZE : MACsec enabled interface [chars] IP MTU can't be more than [dec]

Explanation User config IP MTU size over MACsec enabled interface allows.**Recommended Action** Reconfigure IP MTU base on the suggested range.

%MACSEC-5-TX_SA_PN_EXPIRE : (TX SCI [hex] : AN [dec]) TX SA PN about to expire.

Explanation TX SA PN about to expire. Send a request to MKA to perform a SAK Rekey for the given TX SCI and AN.**Recommended Action** No action required (normal operation).

%MACSEC-6-CREATE_TX_SC : ([chars] TX SCI [hex] : vport [dec])

Explanation MKA request MACsec PD to create a TX SC on the given TX SCI and vport.**Recommended Action** No action required (normal operation).

%MACSEC-6-DEL_TX_SC : ([chars] TX SCI [hex] : vport [dec])

Explanation MKA request MACsec PD to delete a TX SC on the given TX SCI and vport.**Recommended Action** No action required (normal operation).

%MACSEC-6-CREATE_RX_SC : ([chars] RX SCI [hex] : TX SCI [hex] : vport [dec] : secy vport [dec])

Explanation MKA request MACsec PD to create a RX SC on the given RX SCI and vport.**Recommended Action** No action required (normal operation).

%MACSEC-6-DEL_RX_SC : ([chars] RX SCI [hex] : vport [dec])

Explanation MKA request MACsec PD to delete a RX SC on the given RX SCI and vport.

%MACSEC-6-DEL_RX_SC : ([chars] RX SCI [hex] : vport [dec])

Recommended Action No action required (normal operation). No action required (normal operation).

%MACSEC-6-INSTALL_TX_SA : ([chars] TX SCI [hex] : vport [dec] : an [dec] : next_pn [hex])

Explanation MKA request MACsec PD to install a TX SA on the given TX SCI, vport and an.
Recommended Action No action required (normal operation).

%MACSEC-6-INSTALL_RX_SA : ([chars] RX SCI [hex] : vport [dec] : an [dec] : secy_vport [dec])

Explanation MKA request MACsec PD to install a RX SA on the given RX SCI, vport and an.
Recommended Action No action required (normal operation).

%MACSEC-6-DEL_RX_SA : ([chars] RX SCI [hex] : vport [dec] : an [dec])

Explanation MKA request MACsec PD to delete a RX SA on the given RX SCI, vport and an.
Recommended Action No action required (normal operation).

%MACSEC-6-POST_SUCC : ([chars] Power-On-System-Test success in Trial No.[dec])

Explanation MACSEC power-on-system-test successful
Recommended Action No action required (normal operation).

%MACSEC-6-POST_FAIL : ([chars] Power-On-System-Test failure in Trial No.[dec])

Explanation MACSEC power-on-system-test failed
Recommended Action No action required (normal operation).

MATM**%MATM-3-MAX_ENTRIES : The maximum number of MAC addresses has been reached:[dec]**

Explanation The maximum number of MAC entries that can be programmed has been reached.

%MATM-3-MAX_ENTRIES : The maximum number of MAC addresses has been reached:[dec]

Recommended Action New MAC addresses will not be learned. Stop any redundant MAC incrementing traffic for extra streams.

%MATM-3-RECONCILIATION : Reconciliation post switchover failed : [chars]

Explanation Consistency check across modules shows inconsistency in data.

Recommended Action Find out more about the error by using the commands show platform matm recon_state and show tech-support and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%MATM-3-HWERROR : Hardware [chars] failed

Explanation A hardware API access error message occurred.

Recommended Action Find out more about the error by using the commands show platform matm recon_state and show tech-support and by copying the error message exactly as it appears on the console or system log and entering it in the Output Interpreter tool. Use the Bug Toolkit to look for similar reported problems.

%MATM-3-INVALID_EVENT : An invalid event :[dec] received in [chars], expected event:[dec]

Explanation MATM feature received invalid event on it's event handler

Recommended Action The condition is being recovered, no action is required

MBOX

%MBOX-3-REG_FAIL_BAD_PARM : event [hex], handler [hex]

Explanation Registration of handler function for a mailbox event failed due to a bad parameter.

Recommended Action LOG_STD_ACTION

%MBOX-3-REG_FAIL_HANDLER_EXISTS : event [hex], handler [hex]

Explanation Registration of handler function for a mailbox event failed because a handler is already registered for the event.

Recommended Action LOG_STD_ACTION

%MBOX-3-DEREG_FAIL_BAD_PARM : event [hex]

Explanation Deregistration of handler function for a mailbox event failed due to a bad parameter.**Recommended Action** LOG_STD_ACTION

%MBOX-3-DEREG_FAIL_NO_HANDLER : event [hex], handler [hex]

Explanation Deregistration of handler function for a mailbox event failed because no handler was registered for the event.**Recommended Action** LOG_STD_ACTION

%MBOX-3-NO_HANDLER_FOR_EVENT : events [hex] bad bit number [int]

Explanation Mailbox event is pending but no handler is registered for event.**Recommended Action** LOG_STD_ACTION

MCPRP_CLI

%MCPRP_CLI-6-LICENSE_EXPIRED : Shell access disabled due to license expiration

Explanation Shell license is expired. Thus the shell access is disabled**Recommended Action** Get and install another shell license

MCPRP_DAI through MESH_TRACE_MESSAGE

- [MCPRP_DAI](#)
- [MCP_SYS](#)
- [MCT1E1](#)
- [MDNSPROXY](#)
- [MDR](#)
- [MDT_SUBSCRIPTION](#)
- [MEM_MGR](#)

- [MEM_PROXY](#)
- [MESH_DB_TRACE_MESSAGE](#)
- [MESH_TRACE_MESSAGE](#)

MCPRP_DAI

%MCPRP_DAI-4-ERR_DISABLE : DAI detected error on [chars], putting [chars] to err-disable

Explanation	Dynamic ARP inspection has detected an error condition because ARP packets have exceeded the configured rate or burst
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MCP_SYS

%MCP_SYS-0-ASSERTION_FAILED : Assertion failed: [chars]

Explanation	An internal state consistency check failed. Correct operation cannot be guaranteed, and the system has been halted.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MCT1E1

%MCT1E1-3-INITFAIL : MCT1E1 (bay [dec]), Init Failed at [chars] - line [dec] arg [hex]

Explanation	The SPA failed to complete hardware initialization.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%MCT1E1-3-UNCOR_MEM_ERR : [chars]: [dec] uncorrectable [chars] memory error(s) encountered. The memory address of the most recent error is: [hex]. The SPA is being restarted.

Explanation	The SPA driver detected an uncorrectable memory error condition on the SPA card. Packet corruption may result.
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%MCT1E1-3-UNCOR_MEM_ERR : [chars]: [dec] uncorrectable [chars] memory error(s) encountered. The memory address of the most recent error is: [hex]. The SPA is being restarted.

Recommended Action The SPA driver has encountered an uncorrectable memory error on the SPA card. The hexadecimal memory address of the most recent error is specified in the message text on the console or in the system log. Please power down and reseal the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-BAD_SIZE_ERR : [chars]: [dec] [chars] events on HDLC Controller were encountered. The SPA is being Restarted.

Explanation The SPA driver detected an error event on the HDLC controller.

Recommended Action CTE1_STD_ACTION

%MCT1E1-3-HDLC_CTRL_ERR : [chars]: [dec] [chars] events on HDLC Controller were encountered.

Explanation The SPA driver detected an error event on the HDLC Controller.

Recommended Action The SPA driver has encountered an error event on the SPA card. CTE1_STD_ACTION

%MCT1E1-3-COR_MEM_ERR : [chars]: [dec] correctable [chars] memory error(s) encountered. The error has been corrected and normal processing should continue. The memory address of most the recent error is: [hex]

Explanation The SPA driver detected a correctable memory error on the SPA card.

Recommended Action The SPA has encountered a correctable memory error on the SPA card. The error has been corrected and normal processing should continue. The hexadecimal memory address of the most recent error is specified in the message text on the console or in the system log. CTE1_STD_ACTION

%MCT1E1-3-UNCOR_PARITY_ERR : [chars]: [dec] [chars] parity error(s) encountered. The address of the most recent error is: [hex]

Explanation The SPA driver detected an uncorrectable parity error condition on the SPA card. Packet corruption may result.

Recommended Action Please power down and reseal the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-2-CMD_DROP : [chars], cmd: [dec], arg0: [dec], arg1: [dec] arg2: [dec], arg3: [dec], vc: [dec] reason: [chars]

Explanation The SPA driver dropped a configuration command. One or more interfaces or controllers associated with the SPA may not be configured correctly.

Recommended Action Please check the configuration of the interfaces and controllers and correct the configuration if necessary. If the condition persists, copy the error message exactly as it appears, and report it to your technical support representative. Please also supply a **show tech-support** at that time.

%MCT1E1-2-EV_DROP : [chars], cmd: [dec], arg0: [dec], arg1: [dec] arg2: [dec] arg3: [dec] reason [chars]

Explanation The SPA driver dropped an event notification command. Counters or line protocols for one or more interfaces or controllers may be incorrect.

Recommended Action Please restart any interfaces or controllers that are down. If the condition persists, copy the error message exactly as it appears, and report it to your technical support representative. Please also supply a **show tech-support** at that time.

%MCT1E1-3-FRMR_CLKFAIL : [chars]: Framer input clock failure detected, CTCLK = [chars]CTIVE, LREFCLK = [chars]CTIVE, SREFCLK = [chars]CTIVE, ctclk count [int] lrefclk count [int] srefclk count [int]

Explanation The SPA driver detected failure of one or more input clocks to the framer chip. The T1/E1 Ports may not operate as expected.

Recommended Action The SPA driver has detected input clock failures on the framer chip. If the ports on the SPA are not operating as expected, power down and reseal the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-BATCH_CMD_INVALID_TAG : [chars]: Invalid tag value [dec] at index [dec].

Explanation The SPA driver detected invalid tag value in a batch command.

Recommended Action The SPA driver has detected invalid command format from RP. If the ports on the SPA are not operating as expected, power down and reseal the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-PERIODIC_PROCESS : [chars]: periodic process error [chars].

Explanation The SPA driver detected an error with periodic processing routine.

Recommended Action The SPA driver has detected problem with periodic routine. If the ports on the SPA are not operating as expected, power down and reseal the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-CMD_FAILED : [chars]: Failed to send command '[chars]' to SPA - [chars].

Explanation	The SPA driver could not successfully send a cmd to firmware.
Recommended Action	The SPA driver has detected a command failure. If the ports on the SPA are not operating as expected, power down and reseal the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-AUTODNR : [chars] failed for slot [dec] bay [dec] err [dec]

Explanation	AUTODNR/USNDNR process has failed. The SPA and SIP are out of synchronization. This condition indicates a software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MCT1E1-3-TIMEOUT : [chars]: [chars] failed: [dec], state: [dec], ml_id: [dec] progress: [dec]

Explanation	Linkrec is stuck at non ready. This condition indicates a software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MCT1E1-3-QUEUE_HALT_FAIL : [chars]: Could not suspend message ([dec]) or command ([dec]) queue

Explanation	The Message/Command queue could not be stopped prior to the OIR removal of the SPA.
Recommended Action	If the ports on the SPA are not operating as expected, power down and reseal the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-SPI4_HW_ERR : [chars]: [chars] Hardware error was encountered.

Explanation	The SPA driver detected a Hardware error condition on the SPA card. This might result in improper operation.
Recommended Action	The SPA driver has encountered a Hardware error on the SPA's SPI4 bus. Please power down and reseal the indicated SPA card. CTE1_STD_ACTION

%MCT1E1-3-FPGA_CNTR_ERR : [chars]: [dec] [chars] error(s) encountered.

Explanation The SPA driver detected an FPGA error condition on the SPA card. Interface packet error counter corruption may result.

Recommended Action The SPA driver has encountered a parity error on the SPA card. The SPA should continue to function normally. If the error condition recurs, please reset the SPA by doing a physical OIR. CTE1_STD_ACTION

%MCT1E1-3-BERT_STOP_ERR : [chars]: Failed to stop BERT operation on interface [chars] - [chars].

Explanation The SPA failed to stop the BERT operation on the indicated interface. The interface might not be functional after this event, if that is the case, try to 'shutdown' and then 'no shutdown' the interface to recover from this failure.

Recommended Action If manual 'shutdown' and then 'no shutdown' of the interface does not restore the operation, then SPA will need to be reloaded to recover from this failure state.

%MCT1E1-3-BERT_OPERATION_ERR : [chars]: BERT operation error on interface [chars] - [chars].

Explanation The SPA reported failure during BERT operation. The current BERT operation will be terminated, but the affected interface might not be operational, if that is the case, try to 'shutdown' and then 'no shutdown' the interface to recover from this failure.

Recommended Action If manual 'shutdown' and then 'no shutdown' of the interface does not restore the operation, then SPA will need to be reloaded to recover from this failure state.

%MCT1E1-3-LOOP_UNSUPPORTED : [chars]: [chars] on port [dec]/[dec]/[dec] and it is not supported on SPA.

Explanation The SPA driver received 'loopback payload' request from the remote device on the SPA card. SPA does not support loopback payload.

Recommended Action The SPA driver has received 'loopback payload' request from the remote device on the SPA card. SPA does not support loopback payload. The remote request is ignored. Please unconfigure the command on the remote device.

%MCT1E1-3-LOOPBACK_CFG_ERR : [chars]: Loop [chars] configuration error on controller [chars] - [chars][chars].

Explanation The SPA reported failure during setting of loop up/down operation. The current loopback will be terminated, but the affected controller might not be operational, if that is the case, try to 'shutdown' and then 'no shutdown' the controller to recover from this failure.

Recommended Action If manual 'shutdown' and then 'no shutdown' of the controller does not restore the operation, then SPA will need to be reloaded to recover from this failure state.

MDNSPROXY**%MDNSPROXY-4-INIT_MDNS_FAIL : [chars] Initialisation failure.**

Explanation	An internal error occurred during mDNS initialisation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-PORT_RESERVED_MDNS : [chars] Initialisation failure.

Explanation	UDP Port 5353 Already reserved. Please disable the feature which uses 5353 and And Try Again.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-CHUNK_MEMORY_FAIL : Chunk memory allocation failed

Explanation	Chunk memory allocation failed for Cache element
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-API_FAIL_MDNS : [chars] API failed

Explanation	An error occurred while calling the APIs.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-NULL_CONTEXT_ID_MDNS : Encountered a NULL context for the ID [int]

Explanation	NULL context for the ID passed in id_to_ptr.
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%MDNSPROXY-3-NULL_CONTEXT_ID_MDNS : Encountered a NULL context for the ID [int]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%MDNSPROXY-3-OS_API_FAIL_MDNS : IOS API [chars] failed

Explanation	Encountered an error while calling the API.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MDNSPROXY-3-STATIC_SERVICE_FAIL_MDNS : Static Service: [chars]

Explanation	Encountered an error while processing Static Service.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MDR

%MDR-5-CARD_RESTART : Minimal Disruptive Restart [chars] to acquire provisioned software

Explanation	The FRU specified was not running the currently provisioned software, which it will acquire on Minimal Disruptive Restart.
Recommended Action	No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only.

%MDR-3-NO_ACTIVE_ESP : No active ESP was found when initiating Minimal Disruptive Restart

Explanation	An unexpected error has occurred where no active ESP was found to continue forwarding traffic during the Minimal Disruptive Restart. All requested linecards and or modules were reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or linecard OIR.

%MDR-5-SIP_UNSUPPORTED : [chars] does not support Minimal Disruptive Restart

Explanation The linecard specified was restarted during an Minimal Disruptive Restart, however it does not support this feature either because of its type or there are no SPA's that support Minimal Disruptive Restart inserted. This linecard was reset as normal.

Recommended Action No user action is necessary.

%MDR-5-SPA_UNSUPPORTED : [chars] does not support Minimal Disruptive Restart

Explanation The module specified was restarted during an Minimal Disruptive Restart, however it does not support this feature either because of its type or software version. This module was reset as normal.

Recommended Action No user action is necessary.

%MDR-3-SIP_OFFLINE : [chars] is not online to perform Minimal Disruptive Restart

Explanation An unexpected error has occurred where the specified linecard was to undergo Minimal Disruptive Restart however the linecard was not found to be online. The linecard was reset as normal.

Recommended Action Review the IOSd, RP and CC chassis manager logs for errors or linecard OIR.

%MDR-3-SPA_OFFLINE : [chars] in [chars] is not online to perform Minimal Disruptive Restart

Explanation An unexpected error has occurred where the specified module was to undergo Minimal Disruptive Restart however the module was not found to be online. The module was reset as normal.

Recommended Action Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-SPA_IS_NOT_READY : [chars] in [chars] is not ready to perform Minimal Disruptive Restart

Explanation An unexpected error has occurred where the specified module was to undergo Minimal Disruptive Restart however the module was not found to be ready. The module was reset as normal.

Recommended Action Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-SPA_WAS_NOT_READY : [chars] in [chars] was not ready to perform Minimal Disruptive Restart

Explanation An unexpected error has occurred where the specified module was to undergo Minimal Disruptive Restart however the module was not found to be ready at the time it was checked. The module was reset as normal.

Recommended Action Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-NO_SPAS_IN_SIP : No Minimal Disruptive Restart compatible SPAs found in [chars]

Explanation An unexpected error has occurred where the specified linecard that was to undergo Minimal Disruptive Restart did not contain any compatible SPAs. This linecard was reset as normal.

Recommended Action Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-RESTART_FAILED : Failed to perform Minimal Disruptive Restart on [chars]

Explanation An unexpected error has occurred where the specified linecard or module failed to undergo a Minimal Disruptive Restart. This linecard or module was reset as normal.

Recommended Action Review the IOSd, RP and CC chassis manager logs for errors.

%MDR-3-READ_SIP_RESET : Failed to read a valid Minimal Disruptive Restart reset value for [chars]

Explanation An unexpected error has occurred where either modules in or the specified linecard itself, was to undergo Minimal Disruptive Restart however a valid SIP reset value could not be read. This linecard was reset as normal.

Recommended Action Review the IOSd, RP and CC chassis manager logs for errors.

%MDR-3-READ_COMPAT_INFO : Failed to read valid Minimal Disruptive Restart compatibility information for [chars]

Explanation An unexpected error has occurred where either modules in or the specified linecard itself, was to undergo Minimal Disruptive Restart however valid compatibility information could not be read prior to commencing Minimal Disruptive Restart. If the linecard itself was to go through Minimal Disruptive Restart, it and the modules within it were reset as normal. If only modules were going through Minimal Disruptive Restart, all modules were reset as normal.

Recommended Action Review the IOSd, RP and CC chassis manager logs for errors.

%MDR-3-SOFTWARE_TRANSFER : Failed to receive upgrade software for [chars]

Explanation	An unexpected error has occurred where the specified linecard was to undergo Minimal Disruptive Restart however the linecard was not able to receive the upgrade software prior to commencing Minimal Disruptive Restart. The linecard was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors.

%MDR-3-SPA_BAY_INVALID : Could not perform Minimal Disruptive Restart on invalid [chars] in [chars]

Explanation	An unexpected error has occurred where the specified module was to undergo Minimal Disruptive Restart however the module was invalid.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-SPA_NOT_FOUND : [chars] in [chars] could not be found to perform Minimal Disruptive Restart

Explanation	An unexpected error has occurred where the specified module was to undergo Minimal Disruptive Restart however the module was not found. The module was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-SPA_TYPE_MISMATCH : Could not perform Minimal Disruptive Restart on [chars] in [chars] due to a SPA type mismatch

Explanation	An unexpected error has occurred where the specified module was to undergo Minimal Disruptive Restart however the module's SPA type was found to be different to what was expected. The module was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-NODE_ISSU_SIP_WAIT : Could not wait for [chars] to complete Minimal Disruptive Restart

Explanation	An unexpected error has occurred where the specified linecard was performing a Minimal Disruptive Restart using node ISSU, however Minimal Disruptive Restart did not complete before the next operation needed to commence. This linecard was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

%MDR-3-NODE_ISSU_SPA_WAIT : Could not wait for [chars] in [chars] to complete Minimal Disruptive Restart

Explanation	An unexpected error has occurred where the specified module was performing a Minimal Disruptive Restart using node ISSU, however Minimal Disruptive Restart did not complete before the next operation needed to commence. This module was reset as normal.
Recommended Action	Review the IOSd, RP and CC chassis manager logs for errors or module OIR.

MDT_SUBSCRIPTION

%MDT_SUBSCRIPTION-4-INVALID_ARGUMENTS :

Explanation	Detailed explanation of why the subscription failed The value of the given parameter is invalid or not specified.
Recommended Action	Correct the invalid parameter and try the subscription again.

%MDT_SUBSCRIPTION-4-NOT_SUPPORTED :

Explanation	Detailed explanation of why the subscription failed The value of the given parameter is not supported.
Recommended Action	Try the subscription again with a supported value.

%MDT_SUBSCRIPTION-4-XPATH_INVALID :

Explanation	Detailed explanation of why the subscription failed The specified XPath filter is invalid.
Recommended Action	Correct the XPath filter and try the subscription again.

%MDT_SUBSCRIPTION-4-OUTSIDE_LIMIT :

Explanation	Detailed explanation of why the subscription failed The value of the parameter is outside of the allowable range.
Recommended Action	Try the subscription again with a value within the allowable range.

%MDT_SUBSCRIPTION-4-TERMINATED :

Explanation Detailed explanation of why the subscription failed The specified subscription was terminated due to run-time error.

Recommended Action Try the subscription again

MEM_MGR

%MEM_MGR-3-MEM_MGR_NOMEM : Out of memory

Explanation System out of memory.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MEM_MGR-3-MEM_MGR_EXCEED_MAX : memory pool exceeds maximum ([dec] bytes) allowed.

Explanation An attempt was made to allocate a buffer from the specified memory pool which has reached its maximum limit

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MEM_MGR-3-MEM_MGR_INVALID : The Memory Management code encounters an invalid parameter.

Explanation It appears that the Memory Management code has received an invalid parameter from its caller.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%MEM_MGR-2-DRAM_POOL_CREATE_ERR : return code [dec]

Explanation Creation of public DRAM memory pool failed.

Recommended Action LOG_STD_ACTION

%MEM_MGR-2-SRAM_POOL_CREATE_ERR : return code [dec]

Explanation Creation of public SRAM memory pool failed.

Recommended Action LOG_STD_ACTION

%MEM_MGR-2-DUP_DRAM_POOL_CREATE : pool exists

Explanation Request to create public DRAM memory pool failed because pool already exists.

Recommended Action LOG_STD_ACTION

%MEM_MGR-2-DUP_SRAM_POOL_CREATE : pool exists

Explanation Request to create public SRAM memory pool failed because pool already exists.

Recommended Action LOG_STD_ACTION

%MEM_MGR-3-POOL_CREATE_PARM_ERR : addr [hex], size [int]

Explanation Creation of memory pool failed due to bad parameter value.

Recommended Action LOG_STD_ACTION

%MEM_MGR-3-POOL_APPEND_PARM_ERR : pool handle [hex], addr [hex], size [int]

Explanation Append of additional memory to pool failed due to bad parameter value.

Recommended Action LOG_STD_ACTION

%MEM_MGR-3-POOL_STATS_PARM_ERR : pool handle [hex], stats addr [hex]

Explanation Read of memory pool statistics failed due to bad parameter value.

Recommended Action LOG_STD_ACTION

%MEM_MGR-3-MALLOC_PARM_ERR : pool handle [hex], size [int]

Explanation Memory allocation request failed due to bad parameter value.

%MEM_MGR-3-MALLOC_PARM_ERR : pool handle [hex], size [int]

Recommended Action LOG_STD_ACTION

%MEM_MGR-3-LOCK_PARM_ERR : pool handle [hex], addr [hex]

Explanation Request to lock memory pool element failed due to bad parameter value.
Recommended Action LOG_STD_ACTION

%MEM_MGR-3-FREE_PARM_ERR : pool handle [hex], addr [hex]

Explanation Memory deallocation request failed due to bad parameter value.
Recommended Action LOG_STD_ACTION

%MEM_MGR-3-DESTROY_PARM_ERR : pool handle [hex]

Explanation Request to delete memory pool failed due to bad parameter value.
Recommended Action LOG_STD_ACTION

%MEM_MGR-2-POOL_CORRUPT : pool handle [hex], magic value [hex], MSGDEF_LIMIT_MEDIUM

Explanation Memory pool data structure has been corrupted.
Recommended Action LOG_STD_ACTION

%MEM_MGR-2-ELEMENT_CORRUPT : pool handle [hex], addr 0x5x, magic value [hex], ref cnt [int], MSGDEF_LIMIT_MEDIUM

Explanation Memory element has been corrupted.
Recommended Action LOG_STD_ACTION

%MEM_MGR-3-MALLOC_NO_MEM : pool handle [hex], size [int], MSGDEF_LIMIT_MEDIUM

Explanation Memory pool allocation request failed due to insufficient memory being available.

%MEM_MGR-3-MALLOC_NO_MEM : pool handle [hex], size [int], MSGDEF_LIMIT_MEDIUM

Recommended Action LOG_STD_ACTION

%MEM_MGR-3-LOCK_MAX_REF_CNT : pool handle [hex], addr [hex], MSGDEF_LIMIT_MEDIUM

Explanation Request to lock memory pool element failed due to reference count for element already being at the maximum value.

Recommended Action LOG_STD_ACTION

MEM_PROXY

%MEM_PROXY-3-PROXY_IPC_PAK_ALLOC_FAILED :

Explanation Allocation of IPC packet failed.

Recommended Action LOG_STD_ACTION

%MEM_PROXY-3-PROXY_IPC_SEND_FAILED : [chars]

Explanation Could not send IPC request for more memory.

Recommended Action LOG_STD_ACTION

MESH_DB_TRACE_MESSAGE

%MESH_DB_TRACE_MESSAGE-3-EWLC_MESH_DB_EXEC_MSG : %% Error: [chars]

Explanation Improper arguments or config

Recommended Action Arguments to be changed

%MESH_DB_TRACE_MESSAGE-6-EWLC_MESH_DB_INFO_MSG : %% Info: [chars]

Explanation Info level logs

Recommended Action No action required

MESH_TRACE_MESSAGE

%MESH_TRACE_MESSAGE-3-EWLC_MESH_EXEC_MSG : %% Error: [chars]

Explanation Improper arguments or config**Recommended Action** Arguments to be changed

%MESH_TRACE_MESSAGE-3-EWLC_MESH_PROFILE_CHANGE_MSG : %% Error: [chars]

Explanation Mesh profile change for AP did not get Applied**Recommended Action** Reboot the AP for the mesh configs to be applied

%MESH_TRACE_MESSAGE-3-EWLC_MESH_AP_DISCONNECT_MSG : %% Error: [chars]

Explanation Failed to Disconnect AP for Mesh config changes**Recommended Action** Reboot the AP for the mesh configs to be applied

%MESH_TRACE_MESSAGE-3-EWLC_MESH_AP_RESET_MSG : %% Error: [chars]

Explanation Failed to reboot AP for Mesh config changes**Recommended Action** Reboot the AP for the mesh configs to be applied

METS through MM_INFRA_LOG

- [METS](#)
- [MFI](#)
- [MFIB](#)
- [MFIB_PLTF](#)
- [MFI_LABEL_BROKER](#)
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- [MLDP](#)
- [MMA](#)
- [MMIF_LOG](#)

- [MM_INFRA_LOG](#)

METS

%METS-3-BADMETHOD : Cannot process [chars] method [int]

Explanation	A method list function encountered a method list that was unknown, or could not be handled.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%METS-3-NOREGION : No region found: [chars]

Explanation	Resource failure: No region found.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%METS-3-NULLPOOL : Can't process null pool: [chars]

Explanation	Resource failure: Null pool in the region
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%METS-2-INITFAIL : Can't start analysis

Explanation	The requested operation failed due to lack of resource, maybe temporarily
Recommended Action	Reduce system resource/memory usage, and retry for the commands.

MFI

%MFI-3-REDISTMGR : Redistribution Manager: [chars] [hex]

Explanation	Redistribution Manager error
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%MFI-3-REDISTMGR : Redistribution Manager: [chars] [hex]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-REDISTMGR2 : Redistribution Manager: [chars] [hex] [hex]

Explanation Redistribution Manager error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-4-REDISTMGR3 : Redistribution Manager: [chars] [hex]

Explanation Redistribution Manager error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-EVTLOGCLIENT : Invalid client [dec]

Explanation Invalid client accessed the Event Logger

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-EVTLOGCAPTURE : Event Logger Capture Error [dec] [dec]

Explanation Failure during Event Logger capture

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-EVTLOGREGISTER : Event Logger Registration Error [dec] [dec] [dec]

Explanation	Failure during Event Logger client registration
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-REPLYMSGSIZE : Reply message is too large: [chars]: [dec]

Explanation	read update message won't fit into xdr buffer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-EVTLOGCONTROL : [chars]: [dec]

Explanation	General Event Logger Controller error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-BADREADUPDATESIZE : Read update reply message from RP has bad size: [dec]

Explanation	read update message does not match the read message parse result
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-PNDMSGMGR : [chars] [chars] [dec] [dec] [dec]

Explanation	Only one outstanding request is allowed from same process
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%MFI-3-PNDMSGMGR : [chars] [chars] [dec] [dec] [dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-4-NOCLIENTREQ : [chars] [chars]: [dec] [dec] [dec]

Explanation Client reply could not find an outstanding request

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-LCPULSE : LC pulse failed: [chars] [dec]

Explanation LC pulse request operation failed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-MFICOMM : [chars]

Explanation MFI General Communication Module

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-MFICOMM2 : [chars]: [hex] [hex]

Explanation MFI General Communication Module

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-MFICOMM3 : [chars]: [hex] [hex] [hex]

Explanation	MFI General Communication Module
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-4-MFICOMM_WARN_1 : [chars]: [hex]

Explanation	MFI General Communication Module
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-CLIENT_INTF : [chars]: [hex] [hex]

Explanation	Client Interface
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFI-3-MPLS_MTU_SET : [chars] [dec] [chars] [chars] [chars] [dec][chars]

Explanation	Most drivers will be able to support baby giants and will gracefully drop packets that are too large. Certain drivers will have packet forwarding problems including data corruption.
Recommended Action	Please increase the interface mtu on all routers connected to this interface to the needed mtu size using mtu bytes command.

MFIB

%MFIB-6-PAK_TTL_ONE_V4 : IPv4 Multicast Packet received with ttl <= 1

Explanation	An IP non-linklocal multicast packet received with ttl 1
Recommended Action	No action is required.

%MFIB-6-PAK_TTL_ONE_V6 : IPv6 Multicast Packet received with ttl <= 1

Explanation An IPv6 non-linklocal multicast packet received with ttl 1**Recommended Action** No action is required.

%MFIB-6-PAK_TOO_SHORT : Packet too short from [chars], datagram size [dec], tl [dec]

Explanation An IP/IPv6 packet which is too short was received**Recommended Action** No action is required.

%MFIB-3-NETWORK_GET_FAIL : MFIB can not get network offset: datagram [hex]; network [hex]

Explanation The MFIB failed to find a suitable packet network offset**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-NETWORK_SET_FAIL : MFIB can not set network offset: datagram [hex]; length [dec]; offset [dec]

Explanation The MFIB failed to set offset within packet**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-MFIB_CTXT_DEPTH_EXCEEDED :

Explanation MFIB has exceeded maximum number of switching contexts

%MFIB-3-MFIB_CTXT_DEPTH_EXCEEDED :

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-ADJ_GSB_REGISTER :

Explanation Could not register an adjacency GSB identifier

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-ADJ_GSB_INIT :

Explanation Could not initialise the adjacency GSB memory pool

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-SR_ADJ_GSB_REGISTER :

Explanation Could not register an SR adjacency GSB identifier

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-SR_ADJ_INCORRECT_ADD : A different MFIB Service Reflect adj is being added

Explanation	A different SR adjacency subblock is being added to the adjacency without first removing the existing one. This indicates that SR forwarding may no longer work correctly
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-SR_ADJ_GSB_INIT :

Explanation	Could not initialise the SR adjacency GSB memory pool
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-MRIB_PROCESS : [chars][chars]

Explanation	The MFIB process which interfaces with the MRIB failed to start. The MFIB will be unusable.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-6-MFIB_HEADER_LIMIT_EXCEEDED : [dec] at [chars]

Explanation	MFIB attempted to exceed maximum number of replicated packet header buffers
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%MFIB-6-MFIB_HEADER_LIMIT_EXCEEDED : [dec] at [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-6-MFIB_POOL_GETBUFFER_FAILURE :

Explanation MFIB has failed in an attempt to retrieve a particular type of memory. The MFIB will continue using another memory area

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-ILLEGALARGS : Illegal arguments - [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-DECAP_OCE_CREATION_FAILED : Decap OCE creation failed for [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB-3-WIRE_LOOKUP_OR_ALLOC_FAILED : Lookup or allocation of MFIB wire failed

Explanation Lookup or allocation of MFIB wire failed

%MFIB-3-WIRE_LOOKUP_OR_ALLOC_FAILED : Lookup or allocation of MFIB wire failed

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%MFIB-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation	Initialization of the specified subblock data structure could not be accomplished.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MFIB_PLTF**%MFIB_PLTF-3-UPDATE_SET_MEMORY : [chars] [IPv6 address] -> [chars] [[IPv6 address] ([IPv6 address])/[chars]]**

Explanation	Failed to allocate memory for platform transaction.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%MFIB_PLTF-3-TRANSACTION_MEMORY : [dec] [dec]

Explanation	Failed to allocate memory for platform transaction.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%MFIB_PLTF-3-HANDLE_CONSTRAINT : [chars] [IPv6 address]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-TABLE_HANDLE_BAD : [chars]. [IPv6 address]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-ENTRY_HANDLE_BAD : [chars]. [IPv6 address]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-IOITEM_HANDLE_BAD : [chars]. [IPv6 address]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-TABLE_LOCK_FAIL : [chars]. [chars] table [IPv6 address] [IPv6 address] ([IPv6 address])/[chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-TABLE_UNLOCK_FAIL : [chars]. [chars] table [IPv6 address] [IPv6 address] ([IPv6 address])/[chars]

Explanation	An internal software error occurred.
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%MFIB_PLTF-3-TABLE_UNLOCK_FAIL : [chars]. [chars] table [IPv6 address] [IPv6 address] ([IPv6 address])/[chars])

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-ENTRY_LOCK_FAIL : [chars]. [chars] entry [IPv6 address] [chars] [[IPv6 address] ([IPv6 address])/[chars]])

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-ENTRY_UNLOCK_FAIL : [chars]. [chars] entry [IPv6 address] [chars] [[IPv6 address] ([IPv6 address])/[chars]])

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-IOITEM_LOCK_FAIL : [chars]. [chars] ioitem [IPv6 address] [chars] [chars] [[IPv6 address] ([IPv6 address])/[chars]])

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-IOITEM_UNLOCK_FAIL : [chars]. [chars] ioitem [IPv6 address] [chars] [chars] [[IPv6 address] ([IPv6 address])/[chars]])

Explanation An internal software error occurred.

%MFIB_PLTF-3-IOITEM_UNLOCK_FAIL : [chars]. [chars] ioitem [IPv6 address] [chars] [chars] [[IPv6 address] ([IPv6 address]/[chars])]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-7-ENTRY_DUPLICATE_ADD : [chars] entry [chars] [[IPv6 address] ([IPv6 address]/[chars])]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-IOITEM_DUPLICATE_ADD : [chars] ioitem [chars] [chars] [[IPv6 address] ([hex]/[chars])]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-ANNOT_TOO_LONG : [chars] [IPv6 address] [dec]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-CALLBACK_RETURN_INVALID : [chars]. [IPv6 address] [IPv6 address] [IPv6 address]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation	Initialization of the specified subblock data structure could not be accomplished.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MFIB_PLTF-3-XDRISSUREGERROR : ISSU client [chars] ([dec]), entity [dec], failed ISSU registration: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MFI_LABEL_BROKER

%MFI_LABEL_BROKER-3-UNREG_LDM : [chars]

Explanation	An MPLS application requested label broker services without registering first.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-DUPREG_LDM : [chars]

Explanation	An MPLS application is registering multiple times with the label broker.
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-INVALID_PROC_EVT : [chars][dec][chars][dec]

Explanation	The MFI Label Broker received an invalid process event from the IOS-on-Neutrino infrastructure.
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%MFI_LABEL_BROKER-3-INVALID_PROC_EVT : [chars][dec][chars][dec]

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-INVALID_LDM : [dec]

Explanation The MFI Label Broker received a (un)registration request from an invalid MPLS application.

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-NULL_KEY :

Explanation The MFI Label Broker received a null key pointer

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-INVALID_PID : LDM([dec]), PID([dec])

Explanation The MFI Label Broker received a registration request with invalid PID.

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-INVALID_LABEL : [dec]

Explanation The MFI Label Broker received a request to allocate an invalid label.

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version** and **show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-INVALID_PARAM : [chars]

Explanation The MFI Label Broker received an invalid parameter in a request to allocate or free a local label.

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version**<NoCmd Bold> and <CmdBold>**show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-MULTIPLE_BIND : Label [dec] in table [dec], [chars], [chars] [p/bm [dec]/[hex]],ldm request info: [chars]

Explanation The MFI Label Broker received a request to bind the label to a prefix, but the label is already bound to another prefix.

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version**<NoCmd Bold>, <CmdBold>**show running-config** and **show mpls forwarding-table** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-DELETE_MOI_FAIL : Label [dec] in table [dec], [chars], [chars]

Explanation The MFI Label Broker could not honor a request to immediately handle the process restart of the application indicated. It will try to handle it in the background

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version**<NoCmd Bold>, <CmdBold>**show running-config** and **show mpls infrastructure label-broker ldm** (this latter command is present only when **service internal** is enabled) and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-IMMEDIATE_LDM_RESTART : application [chars]

Explanation

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version**<NoCmd Bold> and <CmdBold>**show running-config** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-NO_ACTIVE_LABEL : [chars] Label [dec] in table [dec], [chars] [hex]

Explanation The MFI Label Broker encountered a situation where there is no currently active label for applications to use for the FEC indicated.

%MFI_LABEL_BROKER-3-NO_ACTIVE_LABEL : [chars] Label [dec] in table [dec], [chars] [hex]

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version**<NoCmd Bold>, <CmdBold>**show running-config**, **show mpls forwarding-table internal** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-LABEL_PROGRAM_FAIL : Label [dec] in table [dec], for [chars]

Explanation The MFI Label Broker was unable to program the label in question for the mentioned FEC.

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version**<NoCmd Bold>, <CmdBold>**show running-config**, **show mpls forwarding-table internal** and contact your Cisco technical support representative.

%MFI_LABEL_BROKER-3-OS_NOTIFY : Process id [dec] [chars], error code [dec]

Explanation The MFI Label Broker was unable to notify the operating system about (un)registration of the specified process.

Recommended Action Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of **show version**<NoCmd Bold>, <CmdBold>**show running-config**, **show mpls infrastructure label-broker ldm** and contact your Cisco technical support representative.

MGCP_APP

%MGCP_APP-6-PROCESS_CREATION_FAILED : Cannot create MGCP application process

Explanation Failed to create the MGCP application process.

Recommended Action Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-SOCKET_OPEN_FAILED : Failed to open UDP port for MGCP

Explanation Failed to open UDP port for the MGCP process.

Recommended Action Check if any other application use the same UDP port number (2427).

%MGCP_APP-6-CALL_REC_DATABASE_FAILED : Failed to create call record database

Explanation Failed to create call record database.

**Recommended
Action**

%MGCP_APP-6-DIGIT_MAP_DATABASE_FAILED : Failed to create digit map database

Explanation

**Recommended
Action** Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-TRANS_ID_DATABASE_FAILED : Failed to Trans Id database

Explanation Failed to create transaction id database.

**Recommended
Action** Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-TIMER_QUEUE_FAILED : Failed to create Timer watched queue

Explanation Failed to create Timer watched queue.

**Recommended
Action** Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-DNS_QUEUE_FAILED : Failed to create DNS message watched queue

Explanation Failed to create DNS message watched queue.

**Recommended
Action** Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-TFTP_QUEUE_FAILED : Failed to create TFTP message watched queue

Explanation Failed to create TFTP message watched queue.

**Recommended
Action** Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-SYS_QUEUE_FAILED : Failed to create MGCP system message watched queue

Explanation Failed to create MGCP system message watched queue.

%MGCP_APP-6-SYS_QUEUE_FAILED : Failed to create MGCP system message watched queue

Recommended Action Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-GEN_INIT_FAILED : Failed to initialize MGCP services

Explanation Failed to initialize MGCP services.

Recommended Action Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-GEN_INIT_NO_IP_INTF_FAILED : Suspended initialization of MGCP services. No IP interface up yet

Explanation Suspended initialization of MGCP services. No IP interface up yet

Recommended Action Make sure there is atleast one interface configured with an IP Address

%MGCP_APP-6-RTP_SERVICES_INIT_FAILED : Failed to start VOIP call leg

Explanation Failed to start VOIP call leg.

Recommended Action Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-NEDB_SETUP_FAILED : Failed to Initialize MGCP Notified Entity Database

Explanation Failed to Create Initialize MGCP Notified Entity Database Resources.

Recommended Action Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-CCAPI_APP_REGISTER_FAILED : Failed to register MGCP Application with CCAPI

Explanation Failed to register MGCP Application with CCAPI.

Recommended Action Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-EVT_NODE_ALLOC_FAILED : Failed to allocate memory for event node

Explanation Failed to allocate memory for event node.

%MGCP_APP-6-EVT_NODE_ALLOC_FAILED : Failed to allocate memory for event node

Recommended Action Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-MGCP_SHUTDOWN_COMPLETE : MGCP Shutdown has completed

Explanation MGCP will complete shutdown after all voice interfaces go back onhook

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MGCP_APP-6-MGCP_SHUTDOWN_FAILED : MGCP services initialization in progress. Shutdown request failed.

Explanation Unable to shutdown MGCP services while initialization is in progress.

Recommended Action Wait for MGCP services initialization to complete,. Retry shutdown.

%MGCP_APP-6-MGCP_CONTROL_BIND_REMOVED : MGCP control bind command is being removed, interface not found

Explanation Unable to find bound interface

Recommended Action Reconfigure control bind command for MGCP.

%MGCP_APP-6-MGCP_MEDIA_BIND_REMOVED : MGCP media bind command is being removed, interface not found.

Explanation Unable to find bound interface

Recommended Action Reconfigure media bind command for MGCP.

%MGCP_APP-6-MGCP_BIND_REMOVED : Bind command removed from this interface because of active SGCP/MGCP calls.

Explanation There are active calls because of this Bind command for control and media will be removed

Recommended Action Configure bind command when there are no active SGCP/MGCP calls.

%MGCP_APP-6-MGCPAPP_FALLBACK_DEACTIVATED : The gateway is out of fallback mode

Explanation Communication with call agent is reestablished**Recommended Action** No action needed

%MGCP_APP-6-MGCPAPP_FALLBACK_ACTIVATED : The gateway is in fallback mode

Explanation Communication with call agent is disrupted**Recommended Action** The connectivity between gateway and CA must be reestablished

%MGCP_APP-6-MGCPAPP_FALLBACK_TIMER_FAIL : Unable to start fallback timer

Explanation Failed to start the keepalive message timer**Recommended Action** Check the size of free memory to make sure there is enough memory.

%MGCP_APP-6-MGCP_CHUNK_DESTROY_FAILED : Chunk pool [chars] ([IPv6 address]) could not be destroyed. Possible memory leak.

Explanation Chunks within the pool are probably still allocated.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

MLDP

%MLDP-2-PROCESS_ERR : Error initializing MLDP process

Explanation Can't start the MLDP process**Recommended Action** No action is required.

%MLDP-2-MRIB_PROCESS_ERR : Error initializing MLDP MRIB process

Explanation Can't start the MLDP MRIB process

%MLDP-2-MRIB_PROCESS_ERR : Error initializing MLDP MRIB process

Recommended Action No action is required.

%MLDP-2-CHUNK_ERR : Error initializing MLDP db chunks

Explanation Error initializing MLDP db chunks
Recommended Action No action is required.

%MLDP-2-RADIX_DB_ERR : Error initializing MLDP DB radix tree

Explanation Error initializing MLDP_DB radix tree
Recommended Action No action is required.

%MLDP-2-FEC_ERR : Error, the FEC size is too large

Explanation The FEC size is too large
Recommended Action No action is required.

%MLDP-2-PEER_ERR : Received attached address [IP_address], but there is no LDP peer

Explanation Internal error
Recommended Action No action is required.

%MLDP-2-RADIX_BRANCH_ERR : Error initializing MLDP BRANCH radix tree

Explanation Internal error
Recommended Action No action is required.

%MLDP-5-ADD_BRANCH : [chars] Root: [IP_address], Add [chars] branch [chars] [chars]

Explanation Logging of changes to mLDP branch
Recommended Action No action is required.

%MLDP-5-MODIFY_BRANCH : [chars] Root: [IP_address], Modify [chars] branch [chars] [chars]

Explanation Logging of changes to mLDP branch**Recommended Action** No action is required.

%MLDP-5-DELETE_BRANCH : [chars] Root: [IP_address], Delete [chars] branch [chars] [chars]

Explanation Logging of changes to mLDP branch**Recommended Action** No action is required.

%MLDP-5-MODIFY_NBR : [chars] Root: [IP_address], Modify [chars] entry peer [chars] [chars]

Explanation Logging of changes to mLDP entry peer**Recommended Action** No action is required.

%MLDP-4-DB_BRANCH_DEL_PENDING : [chars] tree, with LSM ID: [hex] has both IPv4 and IPv6 del_pending set

Explanation An mLDP database entry has both the IPv4 and IPv6 del_pending flags set to TRUE -- This is an inconsistent state**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MLDP-2-INTERNAL_ERR : Internal mLDP error

Explanation Internal error**Recommended Action** No action is required.

%MLDP-5-ROUTING_LOOP : There is a routing loop for this root.

Explanation There is a routing loop for this root**Recommended Action** No action is required.

%MLDP-2-FEC_CHUNK_ERR : Error initializing MLDP FEC chunks

Explanation Error initializing MLDP FEC chunks**Recommended Action** No action is required.

%MLDP-2-FEC_TBL_ERR : Error initializing MLDP FEC tbl

Explanation Error initializing MLDP FEC tbl**Recommended Action** No action is required.

%MLDP-2-FEC_NTF_ERR : Error initializing MLDP FEC notifier

Explanation Error initializing MLDP FEC notifier**Recommended Action** No action is required.

%MLDP-2-FILTER_CHUNK_ERR : Error initializing MLDP filter chunks

Explanation Error initializing MLDP filter chunks**Recommended Action** No action is required.

%MLDP-2-FILTER_TBL_ERR : Error initializing MLDP filter tbl

Explanation Error initializing MLDP filter tbl**Recommended Action** No action is required.

%MLDP-2-FILTER_NTF_ERR : Error registering MLDP filter FEC notifier

Explanation Error registering MLDP filter FEC notifier**Recommended Action** No action is required.

%MLDP-2-HA_INSERT_ERR : Error inserting node into MLDP HA radix tree

Explanation	Error inserting node into MLDP HA radix tree
Recommended Action	No action is required.

%MLDP-2-ID_RESERVE_ERR : Error reserving id for mldp database

Explanation	Error reserving id for mldp database
Recommended Action	No action is required.

%MLDP-2-PEER_NOT_FOUND : Peer doesn't exist while syncing to standby

Explanation	Peer doesn't exist while syncing to standby
Recommended Action	No action is required.

%MLDP-2-ROOT_NOT_FOUND : Root doesn't exist while syncing to standby.

Explanation	Root doesn't exist while syncing to standby
Recommended Action	No action is required.

MMA

%MMA-3-MEM : Memory [chars] failed - [chars]

Explanation	Memory creation failed during the initialization
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-LIST : Failed to [chars] list [chars]

Explanation	A list operation failed. This could be caused by memory corruption
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%MMA-3-LIST : Failed to [chars] list [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-PROV : [chars]

Explanation A fatal error happened during provision

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-PARSER : [chars]

Explanation Error during register parser or parsing CLI

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_MONITOR : The flow monitor pointer is invalid

Explanation An internal error occurred. The performance-monitor monitor pointer saved in the common monitor is NULL

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_COMMON_MONITOR : The common monitor pointer is invalid

Explanation An internal error occurred. The common monitor pointer saved in the performance-monitor monitor is NULL

%MMA-3-INV_COMMON_MONITOR : The common monitor pointer is invalid

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%MMA-3-INV_MONITOR_TYPE : The monitor type [dec] is invalid

Explanation	An internal error occurred. The monitor type is out of the range
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_DB_OBJ : Internal error, mma db pointer invalid

Explanation	No valid pointer to mma db
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-DB : [chars]

Explanation	Error during managing MMA database
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-MCOL : [chars]

Explanation	Error during collecting metrics in MMA PI
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-FIELD : [chars]

Explanation	Error during initializing a field
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-CHUNKCREATE : Failed to chunk create memory for [chars]

Explanation	Unable to chunk create memory chunk
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-CHUNKDESTROY : Failed to chunk destroy memory for [chars]

Explanation	Unable to chunk destroy memory chunk
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-CHUNKMALLOC : Failed to malloc chunk memory for [chars]

Explanation	Unable to malloc memory chunk, malloc failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-FLOW_EXCEED : The number of flows has exceeded 95%% of the configured maximum flow. [chars]

Explanation	This is warning message if the flow size exceeds the maximum value
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%MMA-3-FLOW_EXCEED : The number of flows has exceeded 95%% of the configured maximum flow. [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-FLOW_NONEXCEED : The number of flows is below 85%% of the configured maximum flow. [chars]

Explanation This is info message if the flow size falls below the maximum value

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-CACHE_OVERFLOW : The number of flows has exceeded 95%% of the configured size, monitor [chars], please increase cache size

Explanation This is warning message if the flow size exceeds the maximum value

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_REACT : react is not valid - [chars]

Explanation This is an internal error, the saved react info is corrupted

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_ACTION_OBJ : action object is not valid - [chars]

Explanation This is an internal error, the saved action object info is corrupted

%MMA-3-INV_ACTION_OBJ : action object is not valid - [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%MMA-3-NULLHIST : A history bucket does not exist

Explanation	An internal error occurred. Try to access a null history
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-NULLFLOW : A flow does not exist

Explanation	An internal error occurred. Try to access a null flow
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-INV_ARG : The argument is not valid - [chars]

Explanation	An internal error occurred. The argument for an internal API is not valid
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-RM_SET : [chars]

Explanation	An error happened during setting of Resource Manager event
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MMA-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]

Explanation For a request from upper MMA software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck binding that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%MMA-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation For a request from upper MMA software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck binding that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%MMA-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation Registering an IPC message handler for the MMA feature failed. This will cause the feature to not function.

Recommended Action This is normally a software issue. The consequences are that the MMA feature will not function. LOG_STD_ACTION

MMIF_LOG

%MMIF_LOG-4-ANCHOR_RESP_PROFILE_MISMATCH : Export anchor required but config is incorrect, sending export anchor deny mismatch for: Wlan-Profile: [chars], Policy Profile: [chars], client mac: [hex]:[hex]:[hex]:[hex]:[hex]:[hex]

Explanation Export anchor required but config is incorrect: sending export anchor deny mismatch

Recommended Action If this message occurs, it implies that configuration should be checked for wlan and policy profile

%MMIF_LOG-4-ANCHOR_RESP_LOCAL_DELETE : Export anchor required but internal error occurred (e.g.: out of resources), sending export anchor deny for: Wlan-Profile: [chars], Policy Profile: [chars], client mac: [hex]:[hex]:[hex]:[hex]:[hex]:[hex]

Explanation Export anchor required but internal error occurred (e.g.: out of resources)

Recommended Action If this message occurs, it implies that internal error occurred and needs further debugging.

MM_INFRA_LOG

%MM_INFRA_LOG-3-INVALID_PKT_RECVD : Invalid outgoing msgReceived an invalid packet from source endpoint: [chars]. [chars]

Explanation

Recommended Action Please check mobility configuration to see if it needs correction. If the problem persists, open a case with the TAC via the Internet action, or contact your Cisco technical support representative and provide the representative with the gathered information.

%MM_INFRA_LOG-2-INIT_FAILED : [hex][hex].[hex][hex].[hex][hex]: Unable to send [chars] to [chars].[hex][hex].[hex][hex].[hex][hex]: Unable to send [chars] to [chars]. Reason: [chars].Unable to receive mobility message [chars] from [chars]. reason: [chars][hex][hex].[hex][hex].[hex][hex]: Unable to process the received mobility message [chars] from [chars]. reason: [chars]Pkt MAC: [hex][hex].[hex][hex].[hex][hex] Peer MAC: [hex][hex].[hex][hex].[hex][hex] [chars]. reason: [chars]Pkt group name hash: [chars] Peer group name hash: [chars] [chars]. reason: [chars]Failed to allocate memory for [chars]Failed to deallocate memory for [chars]Error while initializing mobility daemon. [chars]

Explanation Unable to send a mobility packetUnable to send a mobility packetUnable to receive a mobility packetError while initializing mobility daemon

Recommended Action If this error is seen, it is recommended that the controller's mobility configuration be redone as it may have been lost. If you still require assistance, open a case with the Technical Assistance Center via the Internet or contact your Cisco technical support

%MM_INFRA_LOG-0-MOBILITY_TASK_FAILED_TO_START : Unable to allow user [chars] into the system. [chars]Unable to create mobility state for user [chars][chars] task could not be started. The system will be rebooted

Explanation Unable to allow the user into the system for the reported reason

Recommended Action The mobility services failed to start correctly

MM_LOG through MPLS_LABEL

- [MM_LOG](#)
- [MM_NODE_LOG](#)
- [MOBILITYD_LOG](#)
- [MODULE_STATE](#)
- [MONITOR](#)

- [MPLSIFMIB](#)
- [MPLSMFISTATIC](#)
- [MPLS_FORWARDING](#)
- [MPLS_IPRM](#)
- [MPLS_LABEL](#)

MM_LOG

%MM_LOG-7-EXPORT_ANCHORS_DOWN : MAC:[hex]:[hex]:[hex]:[hex]:[hex]:[hex]: All Export-Anchors are down.

Explanation	All Export-Anchors are down.
Recommended Action	If this message occurs, it implies that there is loss of network connectivity between the WLC and the export anchors for this guest LAN. It is recommended that the network and the status of the anchors be debugged for connectivity issues.

%MM_LOG-4-EXPORT_ANCHOR_DENY : Export anchor required, but received export anchor deny for: WLAN Profile: [chars], Client MAC: [hex]:[hex]:[hex]:[hex]:[hex]:[hex], Error: [chars]

Explanation	Export anchor required: received export anchor deny
Recommended Action	If this message occurs, depending on the error code appropriate action is required.

MM_NODE_LOG

%MM_NODE_LOG-3-MEMBER_DEL_FAILED : Mobility [chars] tunnel to peer [chars] changed state to [chars]Peer IP conflicts with system IP [chars]Could not add Mobility Member. Reason: [chars], IP: [chars]Could not update Mobility Member. Reason: [chars], IP: [chars]Could not delete Mobility Member. Reason: [chars], IP: [chars]

Explanation	Mobility tunnel state change message.Peer Ip is conflicting with System Management Ip.Could not add Mobility Member for the given reason. Could not update Mobility Member for the given reason. Mobility Member deletion from the list failed
Recommended Action	Please check if the mobility member to be deleted exists

%MM_NODE_LOG-3-SOCK_SET_ADDRESS_OPTION_FAILED : Adding Mobility member (IP: [chars]: [chars])Deleting Mobility member (IP: [chars])Updating Mobility member (IP: [chars]: [chars])Failed to allocate memory for [chars]Failed to deallocate memory for [chars]Failed to register callback for interface changesReceived an invalid PMK-update from [chars]. [chars]. Received PMK-delete from [chars] with no Station address TLV. Received an invalid Nonce-update from [chars]. [chars]. Failed to [chars] a socket. [chars] Failed to [chars] a socket. Reason: [chars].

Explanation	A Socket operation is failedA Socket operation is failed. Multicast mode will not work for mobility
Recommended Action	Try setting the local group multicast address again. If the same error is seen, disable the multicast-mode for mobility and

%MM_NODE_LOG-3-SOCK_INVALID_MULTICAST_ADDRESS : Setting [chars] multicast group [chars] on the mobility sockets. Mobility group local multicast address has invalid setting: [int],[int],[int],[int]. Resetting it to 0.0.0.0 and disabling mobility multicast

Explanation	Multicast group membership was set on the socket. Mobility multicast group address configuration was found invalid. It may have been corrupted during config transfer
Recommended Action	Configure the address again by using cmd: config mobility multicast-mode enable multicast_address

%MM_NODE_LOG-3-PEER_PING_FAILED : Mobility ping to [chars] rejected. [chars]

Explanation	Mobility ping rejected
Recommended Action	Please check the ping command issued

%MM_NODE_LOG-3-PEER_PING_VERSION_UNKNOWN : Mobility ping to [chars] rejected. [chars]

Explanation	Mobility ping version unknown
Recommended Action	Please check if the controllers in the mobility list can interOp and

%MM_NODE_LOG-3-PING_SEND_FAILED : Failed to send a [chars] ping to [chars] . Reason: [chars].

Explanation	Failed to send a ping
Recommended Action	Please check mobility configuration to see if it needs correction

%MM_NODE_LOG-4-MEMBER_DOWN : Drop [chars] ping from [chars]. [chars]Updating Mobility member IP in heartbeat list (MAC: [hex]:[hex]:[hex]:[hex]:[hex]:[hex],, oldIP: [chars], newIP: [chars])Error updating Mobility member IP in heartbeat list (MAC: [hex]:[hex]:[hex]:[hex]:[hex]:[hex],, oldIP: [chars], newIP: [chars])Error adding Mobility member to heartbeat list (MAC: [hex]:[hex]:[hex]:[hex]:[hex]:[hex], IP: [chars])Error adding Mobility member to heartbeat list (IP: [chars])Error deleting Mobility member from heartbeat list (MAC: [hex]:[hex]:[hex]:[hex]:[hex]:[hex], IP: [chars])Error deleting Mobility member from heartbeat list (IP: [chars])[chars] path to mobility member [chars] is DOWN

Explanation Mobility ping response DroppedA path to mobility member is DOWN

Recommended Action If this message occurs, it implies that there is loss of network connectivity between the WLC and one of its mobility peers. It is recommended that the network and the status of the peers be debugged for connectivity issues.

%MM_NODE_LOG-1-ANCHORS_DOWN : [chars] path to mobility member [chars] is UPDeleted ping receiver entry ([chars]) from heartbeat list for WLAN ([dec])Unable to send multicast mobility message. [chars]Error in [chars] while setting local mobility group multicast IP address [int].[int].[int].[int]. Please disable mobility multicast-mode if this error continues[chars] message received is missing payload [chars][chars] handshake failed for [int].[int].[int].[int] HB is down, need to re-initiate DTLS handshakeFailed to set path MTU to fast path for peer IP: [chars]Capwap path MTU discovery error: [chars]All Export-Anchors are down

Explanation A path to mobility member is UP
Mobility is unable to use multicast for messaging
Mobility is unable to use multicast for messaging
Error during DTLS handshake
Mobility path MTU discovery failure
All Export-Anchors are down on WLAN

Recommended Action If this message occurs, it implies that there is loss of network connectivity between the WLC and the export anchors for this WLAN. It is recommended that the network and the status of the anchors be debugged for connectivity issues.

MOBILITYD_LOG

%MOBILITYD_LOG-2-INIT_FAILED : Error while initializing mobility daemon. [chars]

Explanation Error while initializing mobility daemon

Recommended Action If this error is seen, it is recommended that the controller's mobility configuration be redone as it may have been lost. If you still require assistance, open a case with the Technical Assistance Center via the Internet or contact your Cisco technical support

MODULE_STATE

%MODULE_STATE-3-MOD_TIMEOUT : Timeout waiting for modules to come on-line.

Explanation One or more modules can not come on-line.

Recommended Action

%MODULE_STATE-6-ALL_MODULES_UP : All modules are now on-line.

Explanation All modules are now on-line.

**Recommended
Action**

MONITOR

%MONITOR-3-VPN_EVENT : ipsec : [chars] : [dec] events, MSGDEF_LIMIT_FAST

Explanation Crypto failure count hits limit. This message is just a warning, not an error.

**Recommended
Action** LOG_STD_ACTION

%MONITOR-3-VARSETFAIL : ROM monitor variable set of [chars] failed.

Explanation The system could not set a ROM Monitor variable. This condition typically occurs when no ROM monitor memory is available to save the variable. The ROM monitor memory is most likely already filled with configuration **boot** commands.

**Recommended
Action** Enter the **show bootvar** command and check the output to see if there is anything unusual with the system. Try to reduce the number of configuration boot commands.

%MONITOR-3-VARRESTFAIL : ROM monitor variable restoration of [chars], failed.

Explanation The new ROM monitor variable could not be written to memory, and the ROM monitor variable could not be restored to its original value.

**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support** and **show bootvar** commands to gather data that may help identify the nature of the error. If you cannot determine the nature of the error from the error message text or from the **show tech-support** and **show bootvar** command output, contact your Cisco technical support representative and provide the representative with the gathered information.

MPLSIFMIB

%MPLSIFMIB-3-GENERAL : [chars]

Explanation Probable memory corruption of mpls layer subblock -- cause unknown.

%MPLSIFMIB-3-GENERAL : [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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MPLSMFISTATIC

%MPLSMFISTATIC-3-FCALLFAILED : [chars]

Explanation	MPLS MFI Static Application function call return error
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%MPLSMFISTATIC-3-INVALIDPRAMS : [chars] [dec]

Explanation	Unexpected MPLS MFI Static Application parameter error
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%MPLSMFISTATIC-3-WRONGCODEPATH : [chars]

Explanation	Unexpected MPLS MFI Static Application code path error
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version and show running-config and contact your Cisco technical support representative.

%MPLSMFISTATIC-3-CHUNKMGR : [chars] [hex]

Explanation	MPLS MFI Static Application chunk manager error has occurred.
Recommended Action	Problem may be due to a low memory condition on the device. Check system memory and minimum memory requirements for this release and configuration, and add memory if required. If memory appears to be sufficient and problem persists, refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show process memory , show version and show running-config and contact your Cisco technical support representative.

MPLS_FORWARDING**%MPLS_FORWARDING-2-CAUSE_THROTTLE_ERR : Allocation of mpls throttle [chars] memory failed**

Explanation	Allocation of memory resource use by mpls throttle fail
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_IPRM**%MPLS_IPRM-3-PATH_LABEL_GET : [chars]****Explanation****Recommended Action****%MPLS_IPRM-3-PATH_LABEL_GET : [chars]**

Explanation	An attempt to access MPLS forwarding information for the specified prefix has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-PATH_LABEL_UPD : [chars]**Explanation****Recommended Action****%MPLS_IPRM-3-PATH_LABEL_UPD : [chars]**

Explanation	An attempt to update MPLS forwarding information for the specified prefix has failed.
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%MPLS_IPRM-3-PATH_LABEL_UPD : [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-PATH_LABEL_DEL : [chars]**Explanation**

Recommended Action

%MPLS_IPRM-3-PATH_LABEL_DEL : [chars]

Explanation An attempt to delete MPLS forwarding information for the specified prefix has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-DB : [chars]**Explanation**

Recommended Action

%MPLS_IPRM-3-DB : [chars]

Explanation There is an inconsistency in the information required to request labels from or to process labels received from an IP label distribution module

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-DB_TABLE : [chars]**Explanation**

%MPLS_IPRM-3-DB_TABLE : [chars]

**Recommended
Action**

%MPLS_IPRM-3-DB_TABLE : [chars]

Explanation There is an inconsistency in the information about a (vrf) tableid required to request labels from or to process labels received from an IP label distribution module**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-DB_PATH : [chars]

Explanation**Recommended
Action**

%MPLS_IPRM-3-DB_PATH : [chars]

Explanation There is an inconsistency in the information about a prefix path required to request labels from or to process labels received from an IP label distribution module**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-DB_TRANS : [chars]

Explanation**Recommended
Action**

%MPLS_IPRM-3-DB_TRANS : [chars]

Explanation There is an inconsistency in the information about an ongoing transaction required to populate MPLS forwarding data structures for a prefix

%MPLS_IPRM-3-DB_TRANS : [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-DB_PNDG_DISC : [chars]**Explanation**

Recommended Action

%MPLS_IPRM-3-DB_PNDG_DISC : [chars]

Explanation There is an inconsistency in the information about a temporarily deferred action required to populate MPLS forwarding data structures for a prefix

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-WALK : [chars]**Explanation**

Recommended Action

%MPLS_IPRM-3-WALK : [chars]

Explanation A request by an IP label distribution module (e.g., LDP, BGP) to walk a CEF table cannot be handled.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_IPRM-3-INTERNAL : [chars]

Explanation**Recommended
Action**

%MPLS_IPRM-3-INTERNAL : [chars]

Explanation An operation required for proper operation of the IP rewrite manager has failed.

**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_LABEL

%MPLS_LABEL-5-CHANGED : [chars] min/max label: [int]/[int]

Explanation The MPLS label range has changed. This message is to notify the NMS of changes.

**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_PACKET through MPLS_TP_MEM

- [MPLS_PACKET](#)
- [MPLS_PSC](#)
- [MPLS_TE_HA](#)
- [MPLS_TE_NSR](#)
- [MPLS_TP](#)
- [MPLS_TP_BWPOOL](#)
- [MPLS_TP_LINK](#)
- [MPLS_TP_LSP](#)
- [MPLS_TP_LSP_FSM](#)
- [MPLS_TP_MEM](#)

MPLS_PACKET**%MPLS_PACKET-3-FWDDISABLE : MPLS [chars] forwarding path disabled**

Explanation	MPLS forwarding plane disabled
Recommended Action	This log entry is informational only.

%MPLS_PACKET-3-FWDREENABLE : MPLS [chars] forwarding path reenabled

Explanation	MPLS forwarding plane reenabled
Recommended Action	This log entry is informational only.

%MPLS_PACKET-4-NOLFDSB : MPLS packet received on non MPLS enabled interface [chars] L3 type [hex] label {[dec] [dec] [dec] [dec]}

Explanation	MPLS packets received on an interface are being dropped as the interface is not setup to handle MPLS. This message may be seen when a mpls application is disabled on a interface and should go away when the upstream neighbor has reprogrammed its cef/mpls entries.
Recommended Action	If a MPLS application has just be disabled and traffic is flowing, then the message is expected and should be ignored. If the message recurs in steady state, the operator should monitor the network for attacks and report the occurrence to Cisco.

%MPLS_PACKET-3-LABELCACHE : [chars] [dec]/[dec]

Explanation	label cache error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_PACKET-3-WRONGIDB : MPLS packet input sub interface (hwidb [chars]) does not match with main interface (hwidb [chars])

Explanation	Internal software error occurred
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_PSC**%MPLS_PSC-5-TYPE_MISMATCH : Tunnel-tp[int], type mismatch local-type: [chars], remote-type: [chars]**

Explanation	The local protection type on the indicated MPLS-TP tunnel interface mismatches with the remote protection type. Local and remote protection types are provided.
Recommended Action	Examine the local and remote protection types and configure the remote protection type to the local protection type.

%MPLS_PSC-5-REVERT_MISMATCH : Tunnel-tp[int], revertive behaviour mismatch: local is [chars] but remote is [chars]

Explanation	The local revertive mode for the indicated MPLS-TP tunnel interface mismatches with the remote revertive mode. Local and remote revertive modes are provided.
Recommended Action	Examine the local and remote revertive modes and configure the remote revertive mode to the local revertive mode.

MPLS_TE_HA**%MPLS_TE_HA-3-PROCESS_CREATE_FAILED : Failed to create RSVP HA process**

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process

%MPLS_TE_HA-3-PROCESS_KILL : Killing RSVP HA process

Explanation	system may be low on memory. Failed to create RSVP HA services
Recommended Action	No action is required.

%MPLS_TE_HA-3-CF_REGISTER_FAILED : Failed to register with CF

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-RF_REGISTER_FAILED : Failed to register with RF

Explanation system may be low on memory**Recommended Action** Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-RF_UNREGISTER_FAILED : Failed to unregister with RF

Explanation RSVP HA client may not have registered with RF**Recommended Action** No action is required.

%MPLS_TE_HA-3-CLI_ADD_FAILED : Failed to add RSVP HA to CLI

Explanation system may be low on memory**Recommended Action** Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-DB_INIT_FAILED : Database init failed

Explanation system may be low on memory**Recommended Action** Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-MSG_MGR_INIT_FAILED : Message Manager init failed

Explanation system may be low on memory**Recommended Action** Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-ISSU_INIT_FAILED : In Service Software Upgrade (ISSU) Init failed

Explanation system may be low on memory**Recommended Action** Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-MAIN_INIT_FAILED : Main init failed

Explanation	system may be low on memory
Recommended Action	Verify system memory availability. Then deconfigure graceful restart full-mode and configure it again. This will attempt to re-start the RSVP HA process and re-register with CF

%MPLS_TE_HA-3-ENTRY_MOVE_FAILED : Failed to move a database entry to [chars] tree

Explanation	An attempt to move a data entry from one wavl tree to another wavl tree failed
Recommended Action	This error should never happen under normal operation and indicates an internal error. Open a ddts

%MPLS_TE_HA-3-ITEM_SIZE_TOO_BIG : Item size ([int]) bigger than default CF buffer ([int]) supported by the platform

Explanation	A database entry cannot be sent to the standby because the database entry doesn't fit in a CF maximum size buffer allowed by the platform.
Recommended Action	This error indicates a problem with design in handling platform dependent restrictions. Open a ddts

%MPLS_TE_HA-3-SSO_UNSUPPORTED : Attempt to init RSVP HA subsystem when TE SSO not supported

Explanation	RSVP TE SSO is included in image that doesn't support SSO
Recommended Action	This error indicates a problem with design in. Open a ddts

MPLS_TE_NSR**%MPLS_TE_NSR-3-RESEQUENCE_ERROR : Error occurred during TE NSR resequence**

Explanation	An unrecoverable error occurred during TE NSR resequence of state
Recommended Action	Disable and then reenale TE NSR functionality and open a DDTS

MPLS_TP**%MPLS_TP-3-UPDOWN : Tunnel-tp[int], changed state to [chars]**

Explanation	The MPLS-TP tunnel-tp interface changed state.
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%MPLS_TP-3-UPDOWN : Tunnel-tp[int], changed state to [chars]

Recommended Action	If the state change was unexpected, confirm the configuration settings and those of other LSRs along the tunnel LSPs.
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%MPLS_TP-5-REDUNDANCY : Tunnel-tp[int], switched to [chars] LSP as active

Explanation	The MPLS-TP tunnel-tp interface has changed the LSP over which it data traffic is carried, possibly due to a fault or administrative action, or to restore traffic to the working-LSP after LSP recovery.
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Recommended Action	If this change is unexpected, examine LSP messages to determine if a fault or other failure has occurred, or is this is due to a lockout condition or configuration change.
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%MPLS_TP-5-CONFIG_CHANGED : Tunnel-tp[int] is [chars]

Explanation	The configuration of the tunnel-tp interface has changed. This message is to notify the NMS of changes.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%MPLS_TP-5-PSCPREEMPTION : Tunnel-tp[int], PSC Event: [chars] preempted PSC State: [chars], new PSC State: [chars]

Explanation	The indicated PSC event on the tunnel interface has preempted the indicated psc event which is of lower priority. This message is to notify the NMS of changes.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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MPLS_TP_BWPOOL

%MPLS_TP_BWPOOL-3-BW_POOL_CHANGED : Bandwidth pool available to MPLS-TP has changed

Explanation	Bandwidth pool available to MPLS-TP has changed. This is either due to the removal of a link or changing to the pool through CLI configuration
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%MPLS_TP_BWPOOL-3-BW_POOL_CHANGED : Bandwidth pool available to MPLS-TP has changed

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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MPLS_TP_LINK

%MPLS_TP_LINK-5-CONFIG_CHANGED : Link [int], interface [chars], next-hop [chars] [chars]

Explanation	The configuration of the MPLS-TP link has changed. This message is to notify the NMS of changes.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_TP_LSP

%MPLS_TP_LSP-3-UPDOWN : [chars] LSP [chars] is [chars][chars][chars]

Explanation	The indicated MPLS-TP LSP has gone up or down. If the LSP went down, the failure condition, and the fault source information is provided.
Recommended Action	Examine the failure condition and source information to determine why the LSP went down.

%MPLS_TP_LSP-5-LOCKOUT : [chars] LSP [chars] [chars] lockout state

Explanation	The indicated LSP has entered or exited lockout state due to administrative action at one endpoint
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_TP_LSP-5-CONFIG_CHANGED : LSP [chars] is [chars]

Explanation	The configuration of the MPLS-TP midpoint LSP has changed. This message is to notify the NMS of changes.
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%MPLS_TP_LSP-5-CONFIG_CHANGED : LSP [chars] is [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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MPLS_TP_LSP_FSM

%MPLS_TP_LSP_FSM-3-LSP_FSM_ERROR : LSP FSM Error occurred. Received event:[chars] in state:[chars]

Explanation	An erroneous event was received by the TP LSP. This is an error internal to MPLS-TP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_TP_MEM

%MPLS_TP_MEM-3-NO_MEM : Could not allocate memory for MPLS-TP context

Explanation	Could not allocate memory for MPLS-TP context. This is an internal issue to MPLS-TP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.



CHAPTER 6

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MPLS_TP_PROC through NCS4200INTF

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MPLS_TP_PROC**%MPLS_TP_PROC-3-PROC_CREATE_FAIL : [chars] [chars] [dec]**

Explanation	Could not create MPLS-TP process. This is an internal issue to MPLS-TP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_TP_PROC-3-UNKNOWN_MESSAGE : Received unknown message:[dec]

Explanation	An unknown message was posted to the MPLS-TP process. This is an internal issue to MPLS-TP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MPLS_TP_PROC-3-UNKNOWN_EVENT : Received unknown event: Major:[dec] Minor:[dec]

Explanation	An unknown event was posted to the MPLS-TP queue. This is an internal issue to MPLS-TP.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MPLS_TP_TIMER**%MPLS_TP_TIMER-3-UNKNOWN_TIMER_TYPE_EXPIRY : Unknown timer type expired:[dec]**

Explanation	An unknown MPLS-TP timer type expired. This is an issue internal to MPLS-TP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

MSG_FIFO

%MSG_FIFO-2-MSG_FIFO_CREATE : [chars]: Bad parameter to message fifo create [chars] = [hex]

Explanation Failed to create message fifo, invalid memory size or other parameter.

Recommended Action LOG_STD_ACTION

MTRIE

%MTRIE-4-MTRIECORRUPTLEAF : [IP_address]/[dec] - [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MTRIE-4-MTRIELEAFOPFAIL : [IP_address]/[dec] - [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MTRIE-4-PLACEALLOC : Failed to allocate place holder

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%MTRIE-4-MTRIEMISALIGNEDNODEPTR : [hex] - [chars]

Explanation An internal software error occurred.

%MTRIE-4-MTRIEMISALIGNEDNODEPTR : [hex] - [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

MX

%MX-6-NOMEM : [chars] bufhdr allocation failure, MSGDEF_LIMIT_MEDIUM

Explanation An attempt to allocate memory failed. This could cause features that manage packets in multiple pieces, or that directly export data, not to work properly in some cases.

Recommended Action LOG_STD_ACTION

%MX-3-CARVE : [chars]: size [int] too small

Explanation A software error resulted in an attempt to create buffers in an area of memory that was too small.

Recommended Action LOG_STD_ACTION

%MX-3-RESIZE : [chars]: non-contiguous resize: orig [hex]/[hex], new [hex]/[hex], MSGDEF_LIMIT_MEDIUM

Explanation A software error was detected during a resize operation on the specified memory region.

Recommended Action LOG_STD_ACTION

%MX-6-NOBUFHDR : [chars]

Explanation An attempt to add buffers within a memory region failed.

Recommended Action LOG_STD_ACTION

%MX-3-MAXPOOLS : too low

Explanation A source code inconsistency was detected.

Recommended Action Increase the number of pools allowed.

%MX-3-INITBUFHDR : [chars]: mgmt memory allocation failure (size [int])

Explanation insufficient mgmt memory provided for initialization of the external memory manager, which will cause features that manage packets in multiple pieces, or that directly export data, not to work properly.

Recommended Action LOG_STD_ACTION

%MX-3-BADSTART : [chars]: [hex] (current [hex], size [int])

Explanation A software error was detected during an attempt to increase the size of an external memory region.

Recommended Action LOG_STD_ACTION

%MX-3-BADPOOL : [chars]: [int]

Explanation Software detected the use of an invalid pool index, which may be the result of incompatible software versions on different system components.

Recommended Action LOG_STD_ACTION

%MX-3-BADFEAT : [chars]: [dec]

Explanation Software detected the use of an invalid feature enumeration, which may be the result of incompatible software versions on different system components.

Recommended Action LOG_STD_ACTION

%MX-3-BADMAGIC : [chars]: [hex] in [hex], MSGDEF_LIMIT_MEDIUM

Explanation A data structure inconsistency was detected in a buffer header, perhaps as the result of memory corruption. A buffer has been dropped because of this, resulting in a memory leak and potential system unreliability.

Recommended Action Please report the problem Cisco technical support, along with the text of the error message. If the system becomes unstable, restarting or reloading the affected component should correct the instability.

%MX-3-SUBRGNIDX : [chars]: Subregion Index allocation failure

Explanation	Unable to obtain a sub region index so unable add sw managed memory
Recommended Action	LOG_STD_ACTION

NAT

%NAT-3-ALLOC_FAIL : data [hex], MSGDEF_LIMIT_GLACIAL

Explanation	A request exceeded for memory allocation failed
Recommended Action	LOG_STD_ACTION

%NAT-3-RMAP_OP_FAIL : Routemap hash table not set up (attempted [chars]), MSGDEF_LIMIT_MEDIUM

Explanation	An operation was attempted on the route map hash table, but the hash table hash not yet been initialized.
Recommended Action	LOG_STD_ACTION

%NAT-3-MAPPING_REFCNT_FAIL : refcount [dec], MSGDEF_LIMIT_MEDIUM

Explanation	The mapping reference count is below zero. This indicates that the reference count incrementing and decrementing operations are out of sync
Recommended Action	LOG_STD_ACTION

%NAT-3-DYN_PAT_MAP_UPD_OR_ADD_FAIL : rc [dec], MSGDEF_LIMIT_MEDIUM

Explanation	The add or update of a dynamic pat mapping failed with the associated return code. This will generally mean that the IOS configuration is now out of sync with the data plane. The mapping should be removed from the configuration to try to get things back in sync.
Recommended Action	LOG_STD_ACTION

%NAT-3-EMPTY_CHUNK : id [int], MSGDEF_LIMIT_MEDIUM

Explanation	The memory provided by the client to the datapath initialization is NULL
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%NAT-3-EMPTY_CHUNK : id [int], MSGDEF_LIMIT_MEDIUM

Recommended Action LOG_STD_ACTION

%NAT-3-CHUNK_ID_MISMATCH : id [int] not found, MSGDEF_LIMIT_MEDIUM

Explanation The chunk ID provided by the client doesn't match any of the available chunk IDs. Hence a valid chunk could not be found for the given chunk ID.

Recommended Action LOG_STD_ACTION

%NAT-3-HA_NO_BUF : , MSGDEF_LIMIT_MEDIUM

Explanation There was not enough memory to send the HA record

Recommended Action LOG_STD_ACTION

%NAT-3-HA_BULK_SYNC_FAIL : flags [hex] rg [dec], MSGDEF_LIMIT_MEDIUM

Explanation There was a failure such that NAT Bulk Sync did not occur

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_FIND_SESS : in_orig adr [hex] port [hex] out_trans adr [hex] port [hex] vrf [hex] prot [hex] cook [hex] [hex], MSGDEF_LIMIT_MEDIUM

Explanation Standby could not find the session indicated by the HA message

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_FIND_MATCHING_SESS : values (msg/session): in_orig adr ([hex]/[hex]) port ([hex]/[hex]) out_trans adr ([hex]/[hex]) port ([hex].[hex]), MSGDEF_LIMIT_MEDIUM

Explanation Standby could not find the matching session indicated by the HA message

Recommended Action LOG_STD_ACTION

%NAT-3-HA_STANDBY_CLR_DB_FAILED : rc=[dec], MSGDEF_LIMIT_MEDIUM

Explanation Standby failed trying to clear databased with indicated return code

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_CREATE_SESS : in_orig adr [hex] port [hex] out_trans adr [hex] port [hex] vrf [hex] prot [hex] cook [int] rg [dec], MSGDEF_LIMIT_MEDIUM

Explanation Standby could not create the session indicated by the HA message

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_LOCK_PARENT : in_orig adr [hex] port [hex] out_trans adr [hex] port [hex] vrf [hex] prot [hex] cook [int], MSGDEF_LIMIT_MEDIUM

Explanation Standby could not lock parent of the session; thus session not created

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_CREATE_BIND : idomain [dec] orig adr [hex] port [hex] trans adr [hex] port [hex] vrf [hex] prot [hex] rg [dec], MSGDEF_LIMIT_MEDIUM

Explanation Standby could not create the bind indicated by the HA message

Recommended Action LOG_STD_ACTION

%NAT-3-HA_INVALID_MSG_RCVD : invalid value [dec] opcode [hex] version [hex], MSGDEF_LIMIT_MEDIUM

Explanation Standby received an invalid NAT HA message

Recommended Action LOG_STD_ACTION

%NAT-4-HA_INVALID_MSGVER_RCVD : invalid version [dec], MSGDEF_LIMIT_GLACIAL

Explanation Standby received an invalid NAT HA message

Recommended Action LOG_STD_ACTION

%NAT-3-HA_INVALID_STATE : state [dec], MSGDEF_LIMIT_MEDIUM

Explanation An invalid HA state was received from the HA infrastructure.

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_ALLOC_ADDR : addr %Ci port [hex], MSGDEF_LIMIT_MEDIUM

Explanation The standby NAT could not allocate the address requested by the active

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_FIND_POOL : pool_id [dec], MSGDEF_LIMIT_MEDIUM

Explanation The standby NAT could find the pool indicated by the active

Recommended Action LOG_STD_ACTION

%NAT-3-HSL_ALLOC_FAIL : [chars], MSGDEF_LIMIT_MEDIUM

Explanation High Speed logging memory allocation failed. When this happens the event will not be exported to the collector. This indicates a temporary condition when the system runs low on memory. The failure does not have any effects on the operation of NAT

Recommended Action LOG_STD_ACTION

%NAT-6-LOG_TRANSLATION : [chars] Translation [chars] %Ci:[dec] %Ci:[dec] %Ci:[dec] %Ci:[dec] [dec]

Explanation A translation was created as a result of either a configuration or traffic flowing through the NAT subsystem

Recommended Action This message is for debugging purposes only and gets logged only when logging is turned on

%NAT-3-STATIC_MAP_ADD_FAIL : local addr %Ci global addr %Ci [chars], MSGDEF_LIMIT_MEDIUM

Explanation An add of a static NAT mapping failed due to listed reason. This mapping will be in the IOS configuration, but is not active in the data plane. It is recommended to remove the mapping from the configuration

Recommended Action LOG_STD_ACTION

%NAT-4-DEFAULT_MAX_ENTRIES : default maximum entries value [dec] exceeded; frame dropped, MSGDEF_LIMIT_MEDIUM

Explanation This is an information message which occurs when NAT is configured and a frame is dropped due to the default maximum entries limit. Starting with release 5, XNE, NAT will use a default max-entries in the data plane based on the ESP type. This will not show in the configuration and is overridden by any user configuration of 'ip nat trans max-entries <value>'. The purpose of the default data plane limit is to protect the box from memory exhaustion which could occur if no limit is enforced.

Recommended Action

%NAT-6-ADDR_ALLOC_FAILURE : Address allocation failed; pool [dec] may be exhausted [[dec]], MSGDEF_LIMIT_MEDIUM

Explanation This message indicates that an address could not be allocated from a pool because there were no free addresses in the pool at that time.

Recommended Action

%NAT-6-POOL_WATERMARK_HIGH : [chars] High watermark reached for pool [dec], MSGDEF_LIMIT_FAST/100

Explanation This message indicates that pool usage has crossed its high watermark. Pool may exhaust soon.

Recommended Action

%NAT-6-CLEAR_FAIL_TRANS_IN_USE : , MSGDEF_LIMIT_MEDIUM

Explanation The requested clear failed because the transaction was in use. Some clear commands support a 'forced' keyword which allows you to override this.

Recommended Action LOG_STD_ACTION

%NAT-3-PER_VFR_HSL_ADD_FAILED : , MSGDEF_LIMIT_MEDIUM

Explanation The attempt to turn on NAT HSL for a vrfid %d failed. Please remove configuration and try again.

Recommended Action LOG_STD_ACTION

%NAT-3-POOL_ADD_FAIL : pool-id [dec] rc [dec], MSGDEF_LIMIT_MEDIUM

Explanation A request to the data plane to add or update a pool has failed To clean up remove pool configuration and try re-adding it

Recommended Action LOG_STD_ACTION

%NAT-3-HA_COULD_NOT_CLR : Standby temporarily unable to process clear; please retry, MSGDEF_LIMIT_MEDIUM

Explanation A request from the active to process a clear translation failed. Please retry.

Recommended Action LOG_STD_ACTION

%NAT-3-SHOW_TRANS_FAIL : unable to show [dec] entries from bucket [int], MSGDEF_LIMIT_MEDIUM

Explanation Unable to show some entries from session database. If using verbose, try using non-verbose. Otherwise situation is likely to be temporary. Or it may be wise to do 'clear ip nat trans *' as a very odd session distribution has occurred.

Recommended Action LOG_STD_ACTION

%NAT-3-SHOW_LIMIT_FAIL : unable to show [int] entries from bucket [int], MSGDEF_LIMIT_MEDIUM

Explanation Unable to show some entries from limit database. The situation is likely to be temporary. Or it may be wise to do 'clear ip nat trans *' as a very odd limit entry distribution has occurred.

Recommended Action LOG_STD_ACTION

%NAT-4-SHOW_BIND_NOT_COMPLETE : Unable to show all of NAT binds due to internal error; try again, MSGDEF_LIMIT_MEDIUM

Explanation This is an information message which occurs when NAT is unable to show all address binds due to an internal error. Please try operation again.

Recommended Action

%NAT-3-STATIC_MAP_ADD_FAILED : local addr %Ci global addr %Ci [chars], MSGDEF_LIMIT_MEDIUM

Explanation An add of a static NAT mapping failed due to listed reason. This mapping will be in the IOS configuration, but is not active in the data plane. It is recommended to remove the mapping from the configuration

Recommended Action LOG_STD_ACTION

%NAT-3-DYN_MAP_ADD_FAIL : [chars], MSGDEF_LIMIT_MEDIUM

Explanation The add of a dynamic mapping failed. This will generally mean that the IOS configuration is now out of sync with the data plane. The mapping should be removed and then re-added to try to get things back in sync.

Recommended Action LOG_STD_ACTION

%NAT-4-FORCED_DEL_BIND_FAILED : Unable to find bind to forcibly delete, MSGDEF_LIMIT_MEDIUM

Explanation This is an information message which occurs when NAT is unable to find a bind even though IOS thinks the bind exists. Please try other methods of clearing transaction.

Recommended Action

%NAT-3-DP_REL_FAIL : DP REL FAIL, retry count [dec] exceeded max, MSGDEF_LIMIT_MEDIUM

Explanation The dp release fail due to too many retry on freeing session chunk

Recommended Action LOG_STD_ACTION

%NAT-4-SEQ_DELTA_LIST_CORRUPT : Sequence Delta list tail pointer null in error, MSGDEF_LIMIT_MEDIUM

Explanation For unknown reasons, sequence delta list tail pointer is null

Recommended Action LOG_STD_ACTION

NAT64

%NAT64-3-EINVAL : NULL

Explanation An unexpected input value to a function was incorrect

%NAT64-3-EINVAL : NULL

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-3-UNINITIALIZED : NAT64 feature is not properly initialized

Explanation A function call was made when the system was not properly initialized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-3-INIT_FAILED : An initialization failed, rc[chars]

Explanation An initialization in the system has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-3-ENOENT : NULL

Explanation A lookup failed unexpectedly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-3-EEXIST : NULL

Explanation An item unexpectedly exists already.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-3-ENOMEM : Memory allocation failed

Explanation	A attempt to allocae memory has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-3-NAT64_REGISTRY_RC : A NAT64 registry call failed with rc([chars])

Explanation	The return code from a NAT64 registry call indicates an error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-3-BAD_MAGIC : Invalid magic number(%#10x)

Explanation	An internal data structure is corrupt.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-3-API_FAILED : NULL

Explanation	A call to the API of another component has indicated an error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-3-RUNAWAY_LOOP : NULL

Explanation	A loop has exceeded the expected number of iterations.
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%NAT64-3-RUNAWAY_LOOP : NULL

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%NAT64-5-ALIAS_NOT_FOUND : Unable to find alias, address([IP_address]) table_id([int])

Explanation	An attempt was made to remove an IP alias for a NAT64 address and the alias does not exist. This is a notification that such an event happened and should not have any functional impact. This could happen under heavy load if, for example, a previous best effort message to add the alias was dropped.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-6-HA_RELOAD : Reloading [chars], reason([chars])

Explanation	A synchronization attempt between the active and standby RP peers has failed with the reason indicated. The standby peer is reloaded in an attempt to resynchronize when operating in a stateful redundant mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-6-HA_RELOAD_DISABLED : Standby reload has been disabled, NAT64 RP state is out of sync and the standby should be reloaded manually

Explanation	The active and standby RPs are out of sync and the standby RP would have been reloaded, but this reload was suppressed based on the configured environment.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-6-HA_PEER_READY : NULL

Explanation The synchronization attempt for the message has determined that the transport has lost communication with its peer. This is a normal situation which indicates that the standby route-processor is currently out of service implying a simplex redundancy mode.

Recommended Action

%NAT64-6-HA_FLOW_CTRL_TIMEOUT : Bulk sync is flow controlled by [chars]

Explanation The bulk synchronization of the NAT64 configuration to the standby RP has encountered a flow control condition which has effected a timeout awaiting the condition to clear. This will result in a reload of the standby RP to allow the bulk synchronization to restart.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NAT64-6-MAP_E : NULL

Explanation An unexpected input value to a function was incorrect

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

NATMIB_HELPER

%NATMIB_HELPER-3-NOCREAT : NATMIB Helper Process not created - NAT MIB will not work properly

Explanation Attempt to start NATMIB Helper Process failed whenthe natmib subsystem was initialised.

Recommended Action The NATMIB Helper process was notcreated,possibly due to lack of memory. If you want to use the NATMIB, reconfigure the box so that less memory is used byother features, or add more memory to the system. Reload the boxafter reconfiguring.

NCS4200IM**%NCS4200IM-3-INCOMPATIBLE : [chars]-[dec]**

Explanation P1D and onwards, Cu IM.... is not backward compatible with P1A/P1B/P1C Cu IM, use the same build of Cu IM or reload the router to use the new build.

**Recommended
Action**

%NCS4200IM-3-UNSUPPORTED : This Interface Module is not supported in subslot [dec]

Explanation The inserted IM is not supported in the specified subslot. Kindly check the supported slots for the IM type.

**Recommended
Action**

%NCS4200IM-3-UNSUPPORTED_PLATFORM : This Interface Module is not supported in [chars] platform

Explanation The inserted IM is not supported in the specified platform

**Recommended
Action**

%NCS4200IM-3-DIFF_IM_INSERTED : [chars] - [chars] in bay [dec]

Explanation A different IM type has been inserted in the bay which previously had another IM type. If the interfaces were set to default before swap, the IM will boot up fine. If not, IM will goto Out-of-service state. Kindly insert the previous IM type, use hw-module subslot 0/x default and then proceed with the IM swap. If not, might need to reload the box for recovery

**Recommended
Action**

%NCS4200IM-3-INVALID_COMBINATION : [chars] is not allowed in bay [dec], can be supported only in bay(s) [chars]

Explanation The inserted IM is not supported in the specified subslot given the combination of existing IMs in the chassis.

**Recommended
Action**

%NCS4200IM-3-INVALID_MODE : [chars] with mode [chars] is not allowed in bay [dec], can be supported only in bay(s) [chars]

Explanation The inserted IM is not supported in the specified subslot given the combination of existing IMs in the chassis.

Recommended Action

NCS4200INTF

%NCS4200INTF-3-UNSUPPORTED : Interface [chars] is not supported in subslot [dec] by the [chars] module

Explanation The Interface specified in the error message is not supported in the specified Subslot by the version of the operating system currently running on the system.

Recommended Action

NCS4200_RP_ATM_SPA through NTP

- [NCS4200_RP_ATM_SPA](#)
- [NDBMAN](#)
- [NDBUTIL](#)
- [NETCLK](#)
- [NETWORK_CLOCK_SYNCHRONIZATION](#)
- [NETWORK_RF_API](#)
- [NIF_MGR](#)
- [NIM_XXD](#)
- [NMSP_SYSLOG](#)
- [NTP](#)

NCS4200_RP_ATM_SPA

%NCS4200_RP_ATM_SPA-3-ATM_PER_SPA_MAX_VC_LIMIT_REACHED : total active atm vc per ATM SPA reached limitation of [dec]

Explanation total number of active atm vc per ATM SPA has reached max limit

%NCS4200_RP_ATM_SPA-3-ATM_PER_SPA_MAX_VC_LIMIT_REACHED : total active atm vc per ATM SPA reached limitation of [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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NDBMAN

%NDBMAN-5-ACTIVE :

Explanation	All data providers active.
Recommended Action	Informational only. No action required.

%NDBMAN-5-RESET :

Explanation	At least one data provider has stopped.
Recommended Action	Informational only. No action required.

NDBUTIL

%NDBUTIL-4-OUT_OF_RANGE_FOR_DECIMAL64_AND_FD : Double (%1\$s) with value (%2\$lf) is out-of-range (-%3\$d to %3\$d, exclusive) for a Decimal64 with fraction-digits = %4\$d.

Explanation	The value of the EI double cannot be reliably converted to Yang Decimal64 with the specified fraction-digits with the proper precision, so the EI to Yang conversion is intentionally failing. The EI value should not be this big, so there's an error with the module setting the attribute's value.
Recommended Action	Report an error to the Cisco engineering team responsible for the module that's setting the attribute.

NETCLK

%NETCLK-5-NETCLK_CHANGE : Network clock source transitioned from priority [dec] [chars] to priority [dec] [chars]

Explanation	This notice indicates a change in the clock source.
Recommended Action	No action required.

%NETCLK-5-NETCLK_MODE_CHANGE : Network clock source not available. The network clock has changed to [chars]

Explanation

Recommended Action No action required

%NETCLK-5-NETCLK_PHASE_LOST : Network clock source not available. Phase-lost on clock priority [dec] [chars]

Explanation

Recommended Action No action required

%NETCLK-4-NETCLK_CMD_FAIL : NULL

Explanation This message indicates that a network clock command from RP to IOS-SR or SPAs has failed

Recommended Action The message can be ignored if the carrier card was reloaded or powered down. Otherwise, LOG_STD_SH_CMD_ACTION(show logging and show network-clocks)

%NETCLK-6-SRC_REM : Synchronization source [chars] is removed from [chars] selection process.

Explanation Synchronization source is removed from synchronization source selection process(es), i.e. T0 or selection process per T4. Source Removal is always through configuration.

Recommended Action No action is required.

%NETCLK-6-ALL_SRC_REM : All synchronization sources have been removed from [chars] selection process.

Explanation All synchronization sources are removed from synchronization source selection process(es), i.e. T0 or selection process per T4. Source Removal is always through configuration.

Recommended Action No action is required.

%NETCLK-6-SRC_ADD : Synchronization source [chars] is added to [chars] selection process.

Explanation Synchronization source is added to synchronization source selection process(es), i.e. T0 or selection process per T4. Source Addition is always through configuration.

%NETCLK-6-SRC_ADD : Synchronization source [chars] is added to [chars] selection process.

Recommended Action No action is required.

%NETCLK-6-SRC_UPD : Synchronization source [chars] status [chars] is posted to all selection process.

Explanation Synchronization source status (event) is updated to synchronization source selection process(es), i.e. T0 or selection process per T4. Status update is in the message.

Recommended Action No action is required.

%NETCLK-6-SEL_CLOCK_SRC : Synchronization source [chars][chars] is selected by selection process(T0) to synchronize the system and generate [chars] output[chars]

Explanation Synchronization source selection process has selected source q receive clock to synchronize the system and generate T0(transmit SEC clock). T0 clock is used as TX clock on all participating slots.

Recommended Action No action is required.

%NETCLK-6-SEL_T4_CLOCK_SRC : Synchronization source [chars] is selected by selection process to synchronize the system and generate T4([chars]) output[chars]

Explanation Synchronization source selection process for T4(external interface) has selected source q receive clock to synchronize external interface transmit clock.

Recommended Action No action is required.

%NETCLK-6-ENTER_HOLDOVER : System Internal synchronization source is selected.

Explanation System Internal synchronization source Internal is selected as all other nominated synchronization source are not valid for Synchronization selection process.

Recommended Action No action is required.

%NETCLK-6-INV_QL : invalid QL [chars] received for [chars] on network option [chars].

Explanation The platform has notify RP the clock quality of an input source. But the value appears to be invalid based on the current configured network option.

Recommended Action No action is required.

%NETCLK-4-FAIL : The Network Clock protocol has encountered the error: [chars].

Explanation	The protocol has run into a failure condition. The reason should be given in the parenthesis.
Recommended Action	LOG_STD_SH_CMD_ACTION(show network-clock synchronization and show network-clock synchronization detail and show module)

%NETCLK-4-PD_REG : [chars] [dec]

Explanation	The platform has failed to provide the protocol one of the mandatory functions.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETCLK-6-QL_CHANGE : Input QL for [chars] is [chars]

Explanation	The input QL used for a network-clock input changed
Recommended Action	No action is required.

%NETCLK-3-ESMC_EVENT_CREATE_FAIL : Failed to create ESMC event.

Explanation	Failed to create an ESMC event to be queued.
Recommended Action	No action is required.

%NETCLK-3-ESMC_EVENT_ENQUEUE_FAIL : Failed to enqueue ESMC event.

Explanation	Failed to add an ESMC event to the event queue.
Recommended Action	No action is required.

%NETCLK-3-ESMC_EVENT_QUEUE_INIT_FAIL : Failed to initialize ESMC event queue.

Explanation	Failed to initialize the ESMC event queue.
Recommended Action	No action is required.

%NETCLK-3-ESMC_EVENT_QUEUE_ALLOC_FAIL : Failed to allocate memory for ESMC event queue.

Explanation Failed to allocate memory for the ESMC event queue.

Recommended Action No action is required.

NETWORK_CLOCK_SYNCHRONIZATION

%NETWORK_CLOCK_SYNCHRONIZATION-4-NETCLK_FAIL : Active network clock source [chars], priority [dec] failure

Explanation This warning message indicates that there has been a failure of active clock source

Recommended Action No action required

%NETWORK_CLOCK_SYNCHRONIZATION-6-NETCLK_ACTIVE : Active network clock source is [chars], priority [dec]

Explanation This indicates the presence of an active network clock along with its priority

Recommended Action This is an informational message only, no action required.

NETWORK_RF_API

%NETWORK_RF_API-6-IDB_TRANSITIONS_PENDING : Switchover terminated with [dec] transitions pending after there was no transition activity for [dec] seconds

Explanation The system terminated the switchover idb transitioning phase with a number of idb transitions still pending because no switchover related IDB transitions were logged during the specified time interval. Some connected routes may experience a temporary loss of traffic.

Recommended Action No action is required.

%NETWORK_RF_API-3-FAILSENDMSGTOSTDBY : Failed to send [chars] message to standby for [chars], rc=[dec]

Explanation The specified synchronization message, which is an internal IPC message, could not be sent to the standby unit in the specified run-time module. The failure most likely occurred because of a software error. The numeric error code in the message output identifies the type of failure. The system state between the active and standby units might not be properly synchronized.

%NETWORK_RF_API-3-FAILSENDMSGTOSTDBY : Failed to send [chars] message to standby for [chars], rc=[dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-FAILSENDMSGTOACTIVE : Failed to send [chars] message to active for [chars], [chars]

Explanation The specified synchronization message, which is an internal IPC message, could not be sent to the active unit in the specified run-time module. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-FAILDECODEDATADESC : Cannot decode data descriptor for [chars], descriptor type=[chars]

Explanation An internal data descriptor could not be decoded for synchronization for the interface or controller in the run-time module specified in the message output. The failure most likely occurred because of a software error. The descriptor type specified in the message output, identifies the type of descriptor the failure occurred with. The system state between the active and standby units might not be properly synchronized.

Recommended Action Gather system logs and error messages at both the active and the standby units. Issue the recommended show commands at both the active and the standby units. LOG_STD_SH_CMD_ACTION(show redundancy idb-sync-history)

%NETWORK_RF_API-3-NO_MSG_BUFFER : No message buffer for [chars]

Explanation A message data buffer that is used for state synchronization could not be obtained. An internal data structure could not be allocated for synchronization in the run-time module specified in the message output. The failure most likely occurred because of a software error or a lack of system memory. The system state between the active and standby units might not be properly synchronized.

%NETWORK_RF_API-3-NO_MSG_BUFFER : No message buffer for [chars]

Recommended Action If you determine that this condition was caused by a lack of system memory, reduce system activity to ease memory demands, or if conditions warrant, upgrade to a larger memory configuration. Otherwise, LOG_STD_SH_TECH_ACTION

%NETWORK_RF_API-3-NO_CHKPT_BUFFER : No checkpointing buffer for [chars], rc=[dec]

Explanation A message data buffer that is used for state synchronization could not be obtained. An internal data structure could not be allocated for synchronization in the run-time module specified in the message output. The return code that is specified in the message output identifies the type of failure. The failure most likely occurred because of a software error or a lack of system memory. The system state between the active and standby units might not be properly synchronized.

Recommended Action If you determine that this condition was caused by a lack of system memory, reduce system activity to ease memory demands, or if conditions warrant, upgrade to a larger memory configuration. Otherwise, LOG_STD_SH_TECH_ACTION

%NETWORK_RF_API-3-INVALID_MSG_RECEIVED : Invalid [chars] message received

Explanation A message that is used for state synchronization was not received correctly. An internal data structure for a message could not be retrieved. The failure most likely occurred because of a software error. The system state between the active and standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-INVALID_CHKPT_STATUS_CODE : Invalid checkpointing status code received, rc=[dec]

Explanation An invalid checkpoint status code has been detected. An internal status code that is associated with checkpointing was found to be invalid. The return code that is specified in the message output identifies the invalid code that was detected. The failure most likely occurred because of a software error. The system state between the active and standby units might not be properly synchronized.

%NETWORK_RF_API-3-INVALID_CHKPT_STATUS_CODE : Invalid checkpointing status code received, rc=[dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-CLIENT_REGISTER_FAIL : Failed to register with [chars], rc =[dec]

Explanation A redundancy client could not be registered. An internal failure associated with client registration occurred in the run-time module specified in the message output. The return code that is specified in the message output identifies the type of failure that was detected. The failure most likely occurred because of a software error. The system state between the active and standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-NO_RESOURCES : [chars]

Explanation A run-time module could not obtain the resources that are required to complete a task. The failure most likely occurred because of a software error or a lack of system memory. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.

Recommended Action If you determine that this condition was caused by a lack of system memory, reduce system activity to ease memory demands, or if conditions warrant, upgrade to a larger memory configuration. Otherwise, LOG_STD_SH_TECH_ACTION

%NETWORK_RF_API-3-ISSU_REG_SES_INFO : Failed to register ISSU session information: [chars]

Explanation The system failed to register the ISSU session information required to complete version exchange between the active and standby units. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.

%NETWORK_RF_API-3-ISSU_REG_SES_INFO : Failed to register ISSU session information: [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-ISSU_UNREG_SES_INFO : Failed to register ISSU session information: [chars]

Explanation The system failed to unregister the ISSU session information required to complete version exchange between the active and standby units. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-ISSU_START_NEGO_SES : Failed to start ISSU session: [chars]

Explanation The system failed to start the ISSU negotiation session required to complete version exchange between the active and standby units. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-ISSU_MSG_TYPE_INCOMPAT : The active and standby ISSU message types are incompatible

Explanation	A message that is used for state synchronization is deemed to be incompatible. An internal data structure for a message could not be retrieved. The failure most likely occurred because of a software error. The system state between the active and standby units might not be properly synchronized.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-ISSU_TRANSFORM_FAIL : The ISSU message [chars] transformation failed: [chars]

Explanation	A message that is used for state synchronization could not be transformed correctly. An internal data structure for a message could not be retrieved. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-ISSU_MSG_MTU_INVALID : The ISSU message MTU is invalid: [chars]

Explanation	A message buffer size that is used for state synchronization was found to be invalid. An internal data structure for a message could not be retrieved. The failure most likely occurred because of a software error. Additional details on the nature of the error are specified in the message text on the console or in the system log. The system state between the active and standby units might not be properly synchronized.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%NETWORK_RF_API-3-CHEKPT_ENTITY_FAIL : A checkpointing entity [chars] operation failed, rc=[dec]

Explanation An internal operation that is associated with checkpointing failed. The return code that is specified in the message output identifies the type of failure. The failure most likely occurred because of a software error. The system state between the active and standby units might not be properly synchronized.

Recommended Action Issue 'show checkpoint entities' and 'show checkpoint clients' to determine the problem

NIF_MGR

%NIF_MGR-6-PORT_CONN_READY : [chars] on front side stack link [dec] connection is READY.

Explanation A port associated with a front side stack link has a ready connection.

Recommended Action No action is required

%NIF_MGR-6-PORT_CONN_PENDING : [chars] on front side stack link [dec] connection is PENDING.

Explanation A port associated with a front side stack link has a pending connection.

Recommended Action No action is required

%NIF_MGR-6-PORT_CONN_ERR : [chars] on front side stack link [dec] connection is in ERR-DISABLE: [chars]

Explanation A port associated with a front side stack link has reached err-disable state.

Recommended Action No action is required

%NIF_MGR-6-PORT_CONN_TIMEOUT : [chars] on front side stack link [dec] connection has TIMEOUT: [chars]

Explanation A port associated with a front side stack link has disconnected connection.

Recommended Action No action is required

%NIF_MGR-6-PORT_CONN_DISCONNECTED : [chars] on front side stack link [dec] connection has DISCONNECTED: [chars]

Explanation A port associated with a front side stack link has disconnected connection.

%NIF_MGR-6-PORT_CONN_DISCONNECTED : [chars] on front side stack link [dec] connection has DISCONNECTED: [chars]

Recommended Action No action is required

%NIF_MGR-6-PORT_LINK_UP : [chars] on front side stack link [dec] is UP.

Explanation A port associated with a front side stack link has come up.

Recommended Action No action is required

%NIF_MGR-6-PORT_LINK_DOWN : [chars] on front side stack link [dec] is DOWN.

Explanation A port associated with a front side stack link has come up.

Recommended Action No action is required

%NIF_MGR-6-STACK_LINK_UP : Front side stack link [dec] is UP.

Explanation A port associated with a front side stack link has come up.

Recommended Action No action is required

%NIF_MGR-6-STACK_LINK_DOWN : Front side stack link [dec] is DOWN.

Explanation A port associated with a front side stack link has come up.

Recommended Action No action is required

%NIF_MGR-6-PORT_CONNECTION_STATUS_CHANGE : PORT:[chars] changed state from [chars] to [chars].

Explanation FSS Stack Port status change message.

Recommended Action No action is required

%NIF_MGR-6-DAD_RECOVERY_MODE : Dual Active detected: Switch going into recovery mode [chars].

Explanation Dual Active detected print on console.

%NIF_MGR-6-DAD_RECOVERY_MODE : Dual Active detected: Switch going into recovery mode [chars].

Recommended Action This switch need to be reloaded once user finishes debugging

%NIF_MGR-6-DAD : Dual Active detected: [chars]

Explanation Dual Active detected print on console.

Recommended Action No action. Action is only after recovery mode

%NIF_MGR-6-DAD_RECOVERY_RELOAD_ALERT : Switch is in recovery mode, needs Reload now. [chars].

Explanation Switch is in recovery mode, needs Reload now

Recommended Action This switch need to be reloaded since some correction is noticed

%NIF_MGR-6-DOMAIN_NUMBER_MISMATCH : Stackwise virtual domain number mismatch on stackwise virtual link [dec]

Explanation A port associated with a stackwise virtual link is connected to a peer with a different domain number than the local switch

Recommended Action For the switch to form a stack please configure same domain numbers on both the switches

NIM_XXD

%NIM_XXD-3-DISK_REMOVAL : One or more disks in SPA ([chars]) in subslot [dec]/[dec] can not be detected. Please power down this SPA and insert disk(s).

Explanation Disks have been removed from SPA

Recommended Action Power down the SPA, insert disks and power up the SPA.

%NIM_XXD-3-DISK_ERROR : Error detected on disk [dec] in module [chars] in subslot [dec]/[dec]. [chars].

Explanation Disk error detected in the SPA (NIM-SSD/NIM-HDD). Refer to comment for details.

Recommended Action Back-up any data and replace the disk.

%NIM_XXD-5-DISK_MONITOR : Disk [dec] in module [chars] in subslot [dec]/[dec] is detected but monitoring is not available.

Explanation Monitoring of disk in SPA (NIM-SSD/NIM-HDD) is unavailable.

Recommended Action Add a database file with monitoring information for this disk model and manufacturer.

NMSP_SYSLOG

%NMSP_SYSLOG-5-NMSP_SSL_NOTICE : nmspd TLS notice: [chars]

Explanation This is an informational message.

Recommended Action No action required.

%NMSP_SYSLOG-3-NMSP_SSL_ERROR_DISCONNECT : nmspd TLS disconnection: [chars]

Explanation Remote CMX connection over TLS protocol had been dropped.

Recommended Action Check connectivity with CMX, CMX service status and AAA configuration.

%NMSP_SYSLOG-3-NMSP_SSL_ERROR_INTERNAL : nmspd internal error occured when handling TLS connection: [chars]

Explanation Internal eWLC error prevented successful establishment of CMX connection over TLS protocol

Recommended Action Check availability of the system resources of the eWLC controller: memory, open files, sockets. Contact TAC if issue persists

%NMSP_SYSLOG-3-NMSP_SSL_ERROR_CERT : nmspd TLS certificate error: [chars]

Explanation Error validating TLS certificate for incoming CMX connection

Recommended Action Check that certificates and SHA2 key are properly setup on eWLC. Contact TAC if issue persists.

%NMSP_SYSLOG-5-NMSP_HTTPS_NOTICE : nmspd HTTPS info: [chars]

Explanation This is an informational message.

Recommended Action No action required.

%NMSP_SYSLOG-5-NMSP_HTTPS_INTERFACE_NOTICE : nmspd HTTPS info: [chars]

Explanation Wireless management interface notification.**Recommended Action** No action required.

%NMSP_SYSLOG-3-NMSP_HTTPS_ERROR_CRYPT0 : nmspd HTTPS error: [chars]

Explanation Peer verification of CMX cloud service failed.**Recommended Action** Check that server certificate can be verified by root CA certificates in trustpool of crypto PKI.

%NMSP_SYSLOG-3-NMSP_HTTPS_ERROR_CONFIG : nmspd cloud service config error: [chars]

Explanation Configuration error prevented successful connection to CMX cloud service.**Recommended Action** Check configuration of cmx cloud service, e.g. server URL and token.**NTP**

%NTP-6-RESTART : NTP process starts

Explanation NTP process has just started or re-started.**Recommended Action** No action is required.

%NTP-6-STOP : NTP process stops

Explanation NTP is disabled.**Recommended Action** Check if NTP is disabled by administrator purposely.

%NTP-4-UNSYNC : NTP sync is lost

Explanation NTP synchronization to its peer is lost.**Recommended Action** Check network connection to the peer, if NTP is running on the peer, if the peer itself is synchronized to a stable time source, and if NTP packets from the peer have passed validity tests specified in the RFC1305 etc.

%NTP-4-PEERUNREACH : Peer [IP_address] is unreachable

Explanation The NTP peer is unreachable.**Recommended Action** Check network connection to the peer and if NTP is running on the peer.

%NTP-6-PEERREACH : Peer [IP_address] is reachable

Explanation The NTP peer is reachable.**Recommended Action** No action is required.

%NTP-5-PEERSYNC : NTP synced to peer [IP_address]

Explanation NTP has synchronized the local clock to a new peer.**Recommended Action** No action is required.

%NTP-4-V6DISABLED : IPv6 is not running on interface [chars]. Cannot send NTP message.

Explanation Some NTP IPv6 specific commands are configured on an interface on which IPv6 is not running**Recommended Action** Enable IPv6 on the interface

OBJGROUP through OSC

- OBJGROUP
- OCE
- OCE_PUNT_PROCESS
- OIR
- OLM
- ONEP_BASE
- ONEP_LISP
- OOM
- OPENDNS_PROXY

- OSC

OBJGROUP

%OBJGROUP-3-QFAIL : Failed to perform queue operation '[chars]'

Explanation	Operation to perform processing on internal queue has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OBJGROUP-3-CREATEFAIL : Failed to create/initialize internal data structures

Explanation	Operation to create/initialize internal data structures has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OBJGROUP-3-CLASSMAP : Failed to perform classmap filter [chars] operation

Explanation	Operation to modify classmap filter has failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OBJGROUP-4-BADREFCNT : Bad reference counter classmap '[chars]' sgtid [int] filter [int]

Explanation	Reference counter value indicates database inconsistency.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OBJGROUP-4-INVALIDFILTER : Invalid filter type [int] for classmap '[chars]'

Explanation	Filter type for match statement was unknown/invalid.
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%OBJGROUP-4-INVALIDFILTER : Invalid filter type [int] for classmap '[chars]'

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%OBJGROUP-4-EINVAL : Unexpected input value

Explanation	An unexpected input value to a function was incorrect
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OBJGROUP-4-BADCHILD : Object-group '[chars]' has bad child '[chars]'

Explanation	Object-group has reference to invalid child object-group
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OBJGROUP-4-BADCLASSMAP : Internal match structure points to invalid class-map '[chars]'

Explanation	Object-group has reference to invalid child object-group
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OBJGROUP-4-BADMATCH : Invalid internal match structure in class-map '[chars]' type [int]

Explanation	Object-group has reference to invalid match
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OBJGROUP-4-BADOG : Reference to non-existent object-group '[chars]'

Explanation	Internal structure references non-existent object-group
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OBJGROUP-4-INVALIDCMD : Invalid subcommand [int]

Explanation	Attempt to configure invalid subcommand
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OBJGROUP-4-TOOMANYSGT : Exceeded maximum allowed SGT's ([int]) in a class-map group-object match statement

Explanation	The cumulative number of SGTs in a class-map match statement has exceeded the maximum allowed. The number of SGTs includes those in object-groups as well as child object-groups within the heirarchy.
Recommended Action	Limit the number of SGTs in the object-group heirarchy referenced by the class-map match statement

OCE**%OCE-3-OCE_SET_WRONG_PATH : Attempting to add an oce to the set contributed by path/list [IPV6 address]/[IPV6 address] while set set belongs to [IPV6 address]**

Explanation	Failed to enqueue a unlock for an oce, this may lead to a memory leak
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-QUEUE_UNLOCK : Failed to [chars] unlock[chars] for [chars] oce [IPV6 address]

Explanation	Failed to enqueue a unlock for an oce, this may lead to a memory leak
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%OCE-3-QUEUE_UNLOCK : Failed to [chars] unlock[chars] for [chars] oce [IPv6 address]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%OCE-3-OCEDEPDUMP : [chars]

Explanation	An error condition triggered display of oce dependents
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-UNINITIALIZED_VECTOR : Improperly initialized [chars] vector in [chars] OCE bundle [IPv6 address], packet dropped

Explanation	An OCE bundle vector was improperly initialized
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-MISSING_HANDLER_FOR_SW_OBJ : Missing handler for '[chars]' function

Explanation	An internal API request has been ignored because it was unexpected
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-MISSING_HANDLER_FOR_SW_OBJ_TYPE : Missing handler for '[chars]' function for type [chars]

Explanation	An internal API request has been ignored because it was unexpected
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-OCE_CHANGED_BY_APPLY_FUNCTION : Target OCE [IPv6 address] changed to [IPv6 address] by apply function [IPv6 address]

Explanation	An internal API request has been ignored because it was unexpected
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-UNEXPECTED_SW_OBJ_TYPE : SW_OBJ handle/type mismatch; expecting oce type [chars], found [dec]

Explanation	An internal API request has been ignored because it was unexpected
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-OCE_FWD_STATE_HANDLE : Limit of oce forward state handle allocation reached; maximum allowable number is [int]

Explanation	Did not store the reinject forwarding state handle, as the maximum number of handles are already in use
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-OCE_FWD_STATE_HANDLE_INIT : Failed to initialize a stack of reusable forward state handles; at element [int], initial stack size is [int] elements

Explanation	Could not allocate enough forwarding state handles for initial handle reuse
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-UNEXPECTED_DISP_TYPE : Unexpected disposition type is encountered; expecting disposition types are [chars], found [chars]

Explanation	An internal disposition counter measure request has been ignored because it was unexpected
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-DECREASE_ZERO_REFCOUNT : Try to decrease zero refcount for [chars] oce [IPv6 address]

Explanation	Attempt to decrease the refcount of oce when it is already zero
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-INTERRUPT_LEVEL_LAST_LOCK : Try to remove last lock for [chars] oce [IPv6 address] at interrupt

Explanation	Attempt to delete oce while not at process level
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-GENERAL : [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-LOOP : A loop in the OCE chain has been detected at: [chars][IPv6 address]

Explanation	A loop in the OCE chain has been detected
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%OCE-3-LOOP : A loop in the OCE chain has been detected at: [chars][[IPv6 address]]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE-3-EXCEED_OCE_COUNTER_LIMIT : Exceeded OCE push counter limit (funcs:[IPv6 address] counter:[IPv6 address])

Explanation At most OCE_MAX_COUNTERS oce counters can be added because of design restrictions.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

OCE_PUNT_PROCESS

%OCE_PUNT_PROCESS-3-NORESOURCE : [chars] [dec]

Explanation Resource Failure: %s %d

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OCE_PUNT_PROCESS-3-LABEL_CACHE_INVALID : [chars]

Explanation MPLS label cache was invalid, failed to handle exception

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

OIR**%OIR-6-REMCARD : Card removed from slot [dec], interfaces disabled**

Explanation The OIR facility detected the removal of a processor from the slot number specified in the error message. The interfaces on that processor will be administratively shut down and marked as removed. The routing table will be flushed of any routes through the removed interfaces.

Recommended Action No action is required.

%OIR-6-INSCARD : Card inserted in slot [dec], interfaces administratively shut down

Explanation The OIR facility detected a newly inserted processor. The interfaces associated with that processor are operational, but will be shut down until they are configured by the user. If any interfaces of that type were previously configured, they will be restored to their previous state.

Recommended Action No action is required.

%OIR-3-LONGSTALL : Long bus stall ([int] ms), check for improperly seated cards

Explanation An online insertion or removal of an interface processor card has stalled the backplane bus for longer duration than expected.

Recommended Action Make sure all interface processor cards are inserted or removed.
LOG_STD_ACTION_ERR

%OIR-4-NOEOIR : [chars] [chars] version [int].[int] not capable of EOIR

Explanation This message indicates that this card is capable of Online Insertion and Removal (OIR) hot-swapping but is not capable of Extended Online Insertion and Removal (EOIR). Though no damage would occur to the hardware, insertion or removal of the card will cause a CBUS complex restart, which would be disruptive to traffic on other cards in the system.

Recommended Action Try to restrict insertion or removal of this card to times when a CBUS complex restart will be least disruptive. Or upgrade the card to the latest revision which supports EOIR.

%OIR-3-SEATED : Insert/removal failed for slot [dec], check card seating

Explanation The OIR facility detected an incorrectly seated card, causing the insertion or removal of this card to fail.

Recommended Action Reseat the card in the indicated slot.

%OIR-3-CRASH : The module in slot [dec] has crashed

Explanation	The module in the slot indicated has crashed and will be rebooted by the supervisor.
Recommended Action	Collect the crashinfo file from the crashed module and contact support.

OLM

%OLM-3-ILLEVT : State [chars]; Event [chars]

Explanation	An LMP state machine has encountered an event that is not legal or allowed in the current state.
Recommended Action	Write down the state and the event and call your Cisco technical support representative for assistance

%OLM-5-LSUMBADTEL : Invalid TE Link ID [int] in Link Summary message

Explanation	A Link Summary or Link Summary Ack or Link Summary Nack message has been received with bad TE Link ID. The sending node probably doesn't have LMP configured correctly.
Recommended Action	Locate the neighbor from which the LMP message with invalid TE Link ID was received and enter show ip olm command and make sure that the port ID mappings between the two nodes are correct

%OLM-5-LMPNOIPCC : Internal error: Couldn't find IPCC to send LMP msg; msg type : [int]

Explanation	This is generally caused by race conditions wherein an LMP message is received from a neighbor before the first control channel goes UP [locally]. This conditions usually happens when a node reboots.
Recommended Action	If the problem persists even after the node has completed initialization, enter sho ip olm command to find the LMP configuration and use the debug ip lmp packets and debug ip lmp generic command to gather additional context type information and call Cisco technical assistance.

%OLM-3-LMPNONBR : Internal error: Couldn't find neighbor while [chars]

Explanation	An LMP processing that requires to access information about the neighbor has found that no such neighbor exists. This could be due to internal error.
Recommended Action	Turn on generic and packet level debugging using the command, debug ip lmp and gather LMP configuration using the command, show ip olm and gather the displayed information and contact Cisco technical assistance.

%OLM-5-LMPUNKSRC : LMP rcvd msg from unknown src ip 0x[IP_address], link %

Explanation	An LMP message has been received from a neighbor that we don't know about. This could be due to the fact that the neighbor in question has not yet been configured on this node.
Recommended Action	Locate the problem neighbor using the IP address and enter a show ip olm command; gather the displayed info and contact Cisco technical assistance.

%OLM-4-LMPINVTLV : Invalid TLV Length [int] in LMP msg; remaining size [int]

Explanation	An LMP message has been received with invalid TLV length. This suggests that we have a broken LMP implementation on the sending neighbor.
Recommended Action	Locate the sending neighbor and turn on packet level debugging using the debug ip lmp packets command. On seeing an ill-formed LMP packet, gather displayed information and contact the Cisco technical assistance.

%OLM-3-LMPNDFAIL : Failed to send LMP msg to [chars]

Explanation	Attempt to send LMP control message has failed; this could be due to an internal error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OLM-5-LSUMMISMATCH : Link Summary parameter([chars]) mismatch

Explanation	Port ID and other link summary parameters do not match with those on the neighbor in question. The neighbor and/or the local node is not properly configured.
Recommended Action	Enter the show ip olm command on the local as well as the neighbor node and make sure that the port IDs match.

%OLM-4-LMPBADTLV : Bad TLV; type [int]

Explanation	An LMP message has been received with invalid TLV type. This suggests that we have a broken LMP implementation on the sending neighbor
Recommended Action	Locate the sending neighbor and turn on packet level debugging using the debug ip lmp packets command. On seeing an ill-formed LMP packet, gather displayed information and contact the Cisco technical assistance.

%OLM-4-LMPBADMSG : Bad LMP Msg; type [int]

Explanation	An LMP message has been received with invalid message type. This suggests that we have a broken LMP implementation on the sending neighbor
Recommended Action	Locate the sending neighbor and turn on packet level debugging using the debug ip lmp packets command. On seeing an ill-formed LMP packet, gather displayed information and contact the Cisco technical assistance.

%OLM-5-LMPNONBR1 : No such neighbor to assign

Explanation	User attempted to assign interface to invalid neighbor
Recommended Action	Use show olm to find the correct neighbor name

%OLM-2-LMPCONSIST : Internal consistency error; [chars]

Explanation	An internal consistency error has been encountered during the said processing.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OLM-5-LMPMSGSEQ : LMP [chars] msg id [int] not 1+[int]

Explanation	An LMP message has been received with message id that is not sequential within the Control channel or TE Link. This situation is not caused by the known cases that cause message id sequence to be broken, including local node reboot, neighbor node reboot and neighbor retransmission
Recommended Action	Enter the show ip olm stat command when this problem occurs and gather the information displayed and call the Cisco technical assistance.

%OLM-3-LMPSDMISMATCH : Service Discovery: Attribute [chars] incompatible with neighbor [chars]

Explanation	Specified service attribute does not match with neighbor. The neighbor and/or the local node may not be properly configured.
Recommended Action	Use the <code>show mpls uni lmp neighbor</code> command on the local as well as the neighbor node (where applicable), to determine the service attributes and modify the configuration, where feasible, to ensure that the attributes match

%OLM-3-LMPSPORTFAILED : Service Discovery: Attributes for port [chars] incompatible with nbr [chars]

Explanation	Port-level service attribute does not match with those of the neighbor. The neighbor and/or the local node may not be properly configured.
Recommended Action	Use the show mpls uni lmp neighbor command on the local as well as the neighbor node (where applicable), to determine the service attributes and modify the configuration, where feasible, to ensure that the port-level service attributes match

ONEP_BASE**%ONEP_BASE-3-VERSION_ERR : [[chars]]: ONE-P version incompatible between client and network element. [chars]**

Explanation	The ONE-P client service set version is incompatible with the one installed on the network element
Recommended Action	LOG_STD_SH_CMD_ACTION(Make sure the version running on the client side is compatible with the one installed on the network element)

%ONEP_BASE-3-DISABLED_ERR : [[chars]]: [chars] is disabled.

Explanation	The requested service set is in disabled state. All the service requests for that service set will be rejected.
Recommended Action	LOG_STD_SH_CMD_ACTION(Make sure the service set is enabled. onep service set <name>)

%ONEP_BASE-6-SS_ENABLED : ONEP: [chars]

Explanation	The service set has been set to an enabled state. The features of the service set will be available for use.
Recommended Action	LOG_STD_SH_CMD_ACTION(If the enablement was intentional, no action is required.)

%ONEP_BASE-6-SS_DISABLED : ONEP: [chars]

Explanation	The service set has been set to a disabled state. All service requests for that service set will be rejected.
Recommended Action	LOG_STD_SH_CMD_ACTION(If the disablement was intentional, no action is required. If not, then enable the service set: onep service set <name>)

%ONEP_BASE-3-DUPLICATE_ERR : [[chars]]: Requested entity [chars] already exists.

Explanation	The connection request to the network element already exists
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%ONEP_BASE-3-DUPLICATE_ERR : [[chars]]: Requested entity [chars] already exists.

Recommended Action	LOG_STD_SH_CMD_ACTION(Make sure the uniqueness of the application name. One session per application is allowed on a network element.)
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%ONEP_BASE-3-AUTHEN_ERR : [[chars]]: Authentication/authorization failed. [chars]

Explanation	The session authentication has failed
Recommended Action	LOG_STD_SH_CMD_ACTION(Check user's credentials are matched against the AAA/local users configured on the Netwk Element.)

%ONEP_BASE-3-BUSY_ERR : [[chars]]: The requested resource is currently busy. [chars].

Explanation	The usage of the resource has exceeded the configured threshold value
Recommended Action	LOG_STD_SH_CMD_ACTION(Check the current resource usage and configured resource threshold. cpu threshold rising <value> falling <value> interval <seconds> Retry the operation if resource usage is below the threshold.)

%ONEP_BASE-3-SESSION_ERR : [[chars]]: ONEP session maximum is exceeded. [chars].

Explanation	The application session has exceeded the configured maximum
Recommended Action	LOG_STD_SH_CMD_ACTION(Check the configured session maximum value, and adjust accordingly. >session max <value> Retry the session establishment or adjust the configured session maximum.)

%ONEP_BASE-3-STARTUP_ERR : [[chars]]: Start up ONEP failed. [chars].

Explanation	Fail to start ONEP due to error
Recommended Action	LOG_STD_SH_CMD_ACTION(Check transport is configured correctly or reboot the device)

%ONEP_BASE-4-CLEAR_TEXT_TRANSPORT_WARN : [[chars]]: Clear text transport being enabled. This is not recommended for production environment. [chars]

Explanation	Clear text transport being enabled. This is not recommended for production environment.
Recommended Action	LOG_STD_SH_CMD_ACTION(Please configure secure transport, such as TLS.)

%ONEP_BASE-6-HISTORY : [chars]

Explanation	This syslog message is used to display onePK history messages when the 'history syslog' onep command is enabled.
Recommended Action	LOG_STD_SH_CMD_ACTION(No action is required. Use 'no history syslog' at the onep configuration prompt to turn off this logging if desired.)

%ONEP_BASE-6-CONNECT : [[chars]]: ONEP session [chars] has connected.

Explanation	A new ONEP session has been established with network element.
Recommended Action	LOG_STD_SH_CMD_ACTION(No action is required if this is an authorized session.)

%ONEP_BASE-6-RECONNECT : [[chars]]: ONEP session [chars] has reconnected.

Explanation	ONEP session has been reconnected after being disconnected temporarily. This disconnect can happen due to intermittent network connectivity issues.
Recommended Action	LOG_STD_SH_CMD_ACTION(No action is required if this is an authorized session.)

%ONEP_BASE-6-DISCONNECT : [[chars]]: ONEP session [chars]

Explanation	ONEP session has been disconnected. A disconnect can happen when application has finished execution or there was a problem during execution including issue with network transport. If reconnect timer is configured, Network Element will wait for application to reconnect within configured time before cleaning up session resources.
Recommended Action	LOG_STD_SH_CMD_ACTION(No action is required if it is a expected disconnected. If reconnect timer is configured, session will wait for application to attempt reconnect request Use show tech-support onep to collect logs from Network Element)

ONEP_LISP

%ONEP_LISP-3-DISABLED_ERR : [[chars]]: [chars] is disabled.

Explanation	The requested service set is in disabled state. All the service requests for that service set will be rejected.
Recommended Action	LOG_STD_SH_CMD_ACTION(Make sure the service set is enabled. onep service set lisp)

OOM**%OOM-3-NO_MEMORY_AVAIL : The system is very low on available memory. Operations will begin to fail.**

Explanation	The system has exhausted all available memory. It is not possible to continue stable operation.
Recommended Action	The system has exhausted all available memory and stable operation is no longer possible.

%OOM-0-NO_MEMORY_RESET : The system is completely out of available memory. The board will be reset.

Explanation	The system has exhausted all available memory and the hardware component will be reset.
Recommended Action	Review other messages related to low memory states and see if those messages contain any information about an issue that can be addressed. If this problem persists, copy all the output from the console as well as the output of show tech-support, and provide the gathered information to your Cisco technical support representative.

OPENDNS_PROXY**%OPENDNS_PROXY-2-OPENDNS_MSG_PROXYINIT_FAILURE : UMBRELLA - Failed to register IPC message handler, result code [int]**

Explanation	QFP Umbrella feature failed to register an IPC message handler for communication with control plane. This will cause the feature not to function.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_UNKNOWN_IPCMMSG : UMBRELLA - Received an unknown type (code [int]), IPC message

Explanation	QFP Umbrella feature received an unknown message from another layer of Umbrella feature's software stack.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_INVALID_MSGLEN : UMBRELLA - Received an invalid length IPC message

Explanation QFP Umbrella feature received an incorrect length of IPC message from another layer of Umbrella feature's software stack, m_enum %d, m_subtype %d, m_len %d, m_flags 0x%x, m_source %d.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_ALLOC_FAILURE : UMBRELLA - Failed to get [int] bytes space for IPC reply message

Explanation QFP Umbrella feature detected buffer allocation failure while sending reply to a message from another layer of Umbrella feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_OPENREPLY_FAIL : UMBRELLA - Failed to open reply message part of IPC packet

Explanation QFP Umbrella feature failed to open message part of IPC packet while sending a reply to another layer of Umbrella feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_IPCSEND_FAIL : UMBRELLA - Failed to send IPC message, result code [dec]

Explanation QFP Umbrella feature failed to send IPC message to another layer of Umbrella feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%OPENDNS_PROXY-3-OPENDNS_MSG_PROXY_DEBUG_REG_FAILED :

Explanation	Umbrella Conditional Debugging Registration failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

OSC**%OSC-3-DCDI : DATACORRUPTION-DATAINCONSISTENCY: [chars]**

Explanation	Software has detected that some internal data structures may be corrupt. This may lead to unpredictable device operation
Recommended Action	Copy the error message exactly as it appears on the console or in the in the system log, and report it your technical support representative.

OTNMGR through PCMCIAFS

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OTNMGR**%OTNMGR-3-OTN_STATS_CREATE_IF_FAILED_TO_ALLOCATE : stats for interface index [dec] could not be created with status [dec]****Explanation**

%OTNMGR-3-OTN_STATS_CREATE_IF_FAILED_TO_ALLOCATE : stats for interface index [dec] could not be created with status [dec]

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%OTNMGR-3-OTN_STATS_CREATE_IF_FAIL : stats for interface index [dec] could not be created with status [dec]

Explanation

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%OTNMGR-3-OTN_STATS_DELETE_IF_FAIL : stats for interface index [dec] could not be deleted with status [dec]

Explanation

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

PAD

%PAD-3-GETLINE : Tty%, bad return code [dec] from x3_getline()

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears and report it to your technical support representative.

%PAD-2-PUTSETUP : Tty%, buffer already setup

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears and report it to your technical support representative.

%PAD-2-INTR : [chars] called at interrupt level [hex]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears and report it to your technical support representative.

PAGP_DUAL_ACTIVE**%PAGP_DUAL_ACTIVE-4-NO_CHNL_GROUP : Port [chars] channel group not present while [chars]**

Explanation Extraction of the channel group from a link has failed, but is expected to be present. This should not occur, and may affect functionality, depending on where it occurred.

Recommended Action This message should not be seen under normal operation. If it is appearing, it is an indication of a software bug. Enter the commands: <CMDBOLD>show switch virtual dual-active summary<NOCMDBOLD> <CMDBOLD>show switch virtual dual-active pagp<NOCMDBOLD> Retrieve the PAgP packet contents by entering the commands: <CMDBOLD>debug condition interface <INTFC><NOCMDBOLD> <CMDBOLD>debug pagp packet<NOCMDBOLD> and LOG_STD_SH_TECH_ACTION

%PAGP_DUAL_ACTIVE-3-ADD_TLV_FAIL : Too few bytes for [chars] TLV in PAgP (reqd. [dec], got [dec]) on port [chars]

Explanation The dual-active tlv could not be added to the PAgP packet due to too few bytes in the packet. PAgP dual-active detection may be disabled as a result.

Recommended Action Enter the commands: <CMDBOLD>show switch virtual dual-active summary<NOCMDBOLD> <CMDBOLD>show switch virtual dual-active pagp<NOCMDBOLD> Retrieve the PAgP packet contents by entering the commands: <CMDBOLD>debug condition interface <INTFC><NOCMDBOLD> <CMDBOLD>debug pagp packet<NOCMDBOLD> and LOG_STD_SH_TECH_ACTION

%PAGP_DUAL_ACTIVE-3-REGISTRY_ADD_ERR : Failure in adding to [chars] registry

Explanation Could not add a function to the registry

Recommended Action No action is required.

%PAGP_DUAL_ACTIVE-1-RECOVERY : PAgP running on [chars] triggered dual-active recovery: active id [enet] received, expected [enet] Switch is in recovery mode

Explanation Pagp detected dual-active scenario on specified interface and caused switch to go into recovery mode.

Recommended Action No action is required.

%PAGP_DUAL_ACTIVE-3-PROC_CREATE_FAILED : Unable to create process [chars]

Explanation Unable to create the specified process

%PAGP_DUAL_ACTIVE-3-PROC_CREATE_FAILED : Unable to create process [chars]

Recommended Action No action is required.

%PAGP_DUAL_ACTIVE-3-OBJECT_CREATE_FAILED : Unable to create [chars]

Explanation Unable to create the specified managed object

Recommended Action No action is required.

%PAGP_DUAL_ACTIVE-3-RECOVERY_TRIGGER : PAgP running on [chars] informing virtual switches of dual-active: new active id [enet], old id [enet]

Explanation Pagp received new active id on specified interface, indicating virtual switches are in a dual-active scenario. Interface is informing virtual switches of this, which will cause one switch to go into recovery mode.

Recommended Action No action is required.

PAM_UPDB

%PAM_UPDB-3-NOPROMPT_READ : Error reading [chars] prompt: [chars]

Explanation The authentication module was unable to read the specified prompt file. The default prompt will be used.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PAM_UPDB-3-NOENVIRONMENT_SET : Error setting user in application environment: [chars]

Explanation The user has successfully authenticated, but the user information could not be saved to the application environment. The user session will not proceed.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

PATHMGR**%PATHMGR-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]**

Explanation For a request from upper PATHMGR software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%PATHMGR-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation For a request from upper PATHMGR software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck monitor that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%PATHMGR-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation Registering an IPC message handler for the PATHMGR feature failed. This will cause the feature to not function.

Recommended Action This is normally a software issue. The consequences are that the PATHMGR feature will not function. LOG_STD_ACTION

PA_PKT**%PA_PKT-5-PA_DLIST_ALLOC_FAILED :**

Explanation Could not allocate segmented packet list header.

Recommended Action LOG_STD_ACTION

%PA_PKT-3-PA_VFR_CALLBACK_ARGS_ERROR : [chars] [hex]

Explanation PA vFR callback input args error.

Recommended Action LOG_STD_ACTION

%PA_PKT-3-PA_DLIST_MEM_REQ_FAILED :

Explanation	Failure occurred when attempting to request segmented packet memory.
Recommended Action	LOG_STD_ACTION

%PA_PKT-3-PA_MCST_REPL_DESC_OVERFL : [chars], MSGDEF_LIMIT_MEDIUM

Explanation	PA M-Cast Gather descriptor list exceeded limit of 255 entries.
Recommended Action	LOG_STD_ACTION

%PA_PKT-3-PA_MCST_GPM_ALLOC_FAILURE : [chars], MSGDEF_LIMIT_MEDIUM

Explanation	PA M-Cast replication failed to allocate required GPM.
Recommended Action	LOG_STD_ACTION

%PA_PKT-3-PA_MCST_DUP_FAILURE : [chars], MSGDEF_LIMIT_MEDIUM

Explanation	PA M-Cast replication failed to allocate duplicate the requisite PA structures.
Recommended Action	LOG_STD_ACTION

%PA_PKT-3-PA_PUT_FAILURE : [chars], MSGDEF_LIMIT_MEDIUM

Explanation	The PA API layer failed to complete a requested WRITE into pkt memory.
Recommended Action	LOG_STD_ACTION

%PA_PKT-3-PA_ADJUST_FIRST_FRAG_FAILURE : [chars], MSGDEF_LIMIT_MEDIUM

Explanation	PA unaware feature doing pkt_head_clip more than first pbuf on PA pkt.
Recommended Action	LOG_STD_ACTION

PA_PKT_PROXY

%PA_PKT_PROXY-3-PROXY_IPC_EXTENDED_PKT_MEM_INIT_FAILED : [dec]

Explanation Initialization of extended packet memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_SEG_DLIST_MEM_INIT_FAILED : [dec]

Explanation Initialization of segmented packet dlist memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_PBUF_MEM_INIT_FAILED : [dec]

Explanation Initialization of packet buffer header memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_SEG_DLIST_EXTEND_FAILED : [dec]

Explanation Extending of segmented packet dlist memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_PBUF_EXTEND_FAILED : [dec]

Explanation Extending of packet buffer header memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_PKT_DRAM_EXTEND_FAILED : [dec]

Explanation Extending of extended packet memory failed.**Recommended
Action** LOG_STD_ACTION

%PA_PKT_PROXY-4-PROXY_IPC_UNKNOWN_SUBTYPE : [dec]

Explanation Unknown IPC message detected.**Recommended Action** LOG_STD_ACTION

%PA_PKT_PROXY-2-PROXY_IPC_INIT_FAILED : [dec]

Explanation Could not initialize IPC handler.**Recommended Action** LOG_STD_ACTION

%PA_PKT_PROXY-3-PROXY_IPC_INVALID_MSG : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Invalid length for IPC message.**Recommended Action** LOG_STD_ACTION

PBUF

%PBUF-3-PBUF_MEM_REQ_FAILED :

Explanation Failure occurred when attempting to request extended packet memory.**Recommended Action** LOG_STD_ACTION

%PBUF-3-PBUF_MEM_INIT_FAILED : [chars]

Explanation Failure occurred when attempting to create memory resource**Recommended Action** LOG_STD_ACTION

%PBUF-3-PBUF_PKT_MEM_CORRUPT : [hex] [hex]

Explanation Memory corruption detected while freeing extended packet memory**Recommended Action** LOG_STD_ACTION

%PBUF-3-PBUF_SH_DRAM_CVT_FAIL : [chars]

Explanation	An attempt to convert a shared DRAM buffer to non-shared failed.
Recommended Action	LOG_STD_ACTION

PCE

%PCE-5-PCE_STATE : Connection to PCE server:[chars] [chars]

Explanation	The connection to PCE server changed state.
Recommended Action	If the state change was unexpected check connectivity and state of the PCE server

%PCE-5-PCE_ERR_RX : PCEP peer [chars] sent PCErr message - type: [int], value: [int]

Explanation	PCErr message was received from peer
Recommended Action	Verify PCEP protocol operation

PCMCIAFS

%PCMCIAFS-5-DIBERR : [dec] [chars]

Explanation	The system cannot boot a image from the PCMCIA Flash disk because the Device Information Block is different. The Flash disk can be read by the router, but will require formatting by the router before an image can be booted from it.
Recommended Action	Follow any instructions provided in the error message. Before storing a image in the Flash disk and trying to boot from this device, enter the format command to format the flash disk from the router. Then copy the desired image to the Flash disk and then boot from this device.

%PCMCIAFS-3-RESETErr : PCMCIA disk [dec] [chars]

Explanation	PCMCIA disk could not be reset while the system is initiated reload. This will cause a transient disk error, disk timeout error, when the ROMMON initialization code tries to reads the DIB. This is a transient error and the system will be able to access the disk and continue normal operation.
Recommended Action	No action is required.

%PCMCIAFS-5-DFS_CLOSE_ERR : Error during close of the file [chars]. [chars]

Explanation	An error occurred during a file close operation.
Recommended Action	Enter the <i>fsck filesystem prefix</i> : command to check and attempt to repair the disk. If this does not fix the problem, format the disk.

%PCMCIAFS-4-DFS_FSCK_ERR : Error while running fsck on the file [chars].

Explanation	Fsck is running in a loop while walking through the cluster chain of a file and has aborted.
Recommended Action	Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

PCM_TRACER through PLATFORM_ACT2

- [PCM_TRACER](#)
- [PERF_MEASURE](#)
- [PERF_MON](#)
- [PERF_MON_REACT](#)
- [PERF_TRAFFIC_INFRA](#)
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- [PKTLOG](#)
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PCM_TRACER

%PCM_TRACER-3-PCMT_NO_DEST : No PCM Tracer capture destination configured.

Explanation	Capture destination is required for starting the PCM Tracer.
Recommended Action	Configure capture destination before starting the PCM Tracer.

%PCM_TRACER-3-PCMT_NO_PROFILE : No PCM Tracer profile configured.

Explanation	Capture profile is required for starting the PCM Tracer.
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%PCM_TRACER-3-PCMT_NO_PROFILE : No PCM Tracer profile configured.

Recommended Action Configure capture profile before starting the PCM Tracer.

%PCM_TRACER-3-PCMT_NO_CAPTURE_TDM : No capture-tdm configured under profile [int].

Explanation Capture-tdm is required for starting the PCM Tracer.

Recommended Action Configure capture-tdm before starting the PCM Tracer.

%PCM_TRACER-3-PCMT_NO_CAPTURE_DURATION : No capture duration configured.

Explanation Capture duration is required for starting the PCM Tracer.

Recommended Action Configure capture duration before starting the PCM Tracer.

%PCM_TRACER-3-PCMT_NO_ACTIVE_CALL : No active calls to trace.

Explanation PCM Tracer can be applied only on active calls.

Recommended Action Make sure there is an active call before starting the PCM Tracer.

%PCM_TRACER-3-PCMT_RUNNING : A PCM Tracer session is currently running.

Explanation Can't execute this command since there is a PCM Tracer running now.

Recommended Action Make sure there is no PCM Tracer session running before execute this command.

%PCM_TRACER-3-PCMT_NOT_SUPPORTED : PCM Tracer is not supported on slot [int].

Explanation Can't execute this command on the slot number specified.

Recommended Action Refer to the user guide for which slot PCM Tracer is supported on.

%PCM_TRACER-3-PCMT_CHANNEL_TYPE_NOT_SUPPORTED : The channel/group type of ds0 [int] is not supported by PCM Tracer.

Explanation Can't execute this command on the ds0 number specified.

%PCM_TRACER-3-PCMT_CHANNEL_TYPE_NOT_SUPPORTED : The channel/group type of ds0 [int] is not supported by PCM Tracer.

Recommended Action Refer to the user guide for the channel/group type PCM Tracer supports.

%PCM_TRACER-6-PCMT_START : Starting PCM Trace on channel under profile [dec]

Explanation

Recommended Action

%PCM_TRACER-6-PCMT_STOP : Stopping PCM Trace on channel under profile [dec]

Explanation

Recommended Action

%PCM_TRACER-6-PCMT_STOP_FAIL : Fail to Stop PCM Trace on channel under profile [dec]

Explanation

Recommended Action

%PCM_TRACER-6-PCMT_STOP_RUNNING : Stop PCM capture

Explanation

Recommended Action

PERF_MEASURE

%PERF_MEASURE-2-CRIT_ERR : The Perf Measure protocol has encountered the critical error: [chars].

Explanation The protocol has run into a critical error. The reason should be given in the brackets.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MEASURE-4-ISSU_INCOMPATIBLE : perf-measure-issu-compat: returned FALSE

Explanation	The compatibility checking has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MEASURE-3-TRANSFORM_FAIL : PERF MEASURE ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation	The PERF MEASURE ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the PERF MEASURE state between the active device and the standby device is not identical.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%PERF_MEASURE-2-GET_BUFFER : PERF MEASURE ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation	The PERF MEASURE ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%PERF_MEASURE-3-SESSION_UNREGISTRY : PERF MEASURE ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The PERF MEASURE ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%PERF_MEASURE-2-INIT : PERF MEASURE ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation The PERF MEASURE ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MEASURE-2-SEND_NEGO_FAILED : PERF MEASURE ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation The PERF MEASURE ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%PERF_MEASURE-2-SESSION_REGISTRY : PERF MEASURE ISSU client failed to register session information. Error: [dec] ([chars])

Explanation The PERF MEASURE ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%PERF_MEASURE-3-INVALID_SESSION : PERF MEASURE ISSU client does not have a valid registered session.

Explanation The PERF MEASURE ISSU client does not have a valid registered session.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%PERF_MEASURE-3-MSG_SIZE : PERF MEASURE ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation The PERF MEASURE ISSU client failed to calculate the MTU for the specified message. The PERF MEASURE ISSU client is not able to send the message to the standby device.

%PERF_MEASURE-3-MSG_SIZE : PERF MEASURE ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Recommended Action LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%PERF_MEASURE-2-SESSION_NEGO : PERF MEASURE ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation An ISSU-compliant client transitions through a series of internal states. The PERF MEASURE ISSU client encountered a 'client negotiation done' state that was unexpected. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

PERF_MON

%PERF_MON-3-LIST : Failed to [chars] list [chars]

Explanation A list operation failed. This could be caused by memory corruption

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MON-3-MEM : Memory [chars] failed - [chars]

Explanation Memory creation failed during the initialization

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MON-3-PARSER : [chars]

Explanation Parser failure. This could due to invalid command or corrupted csb

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MON-3-CHUNKCREATE : Failed to chunk create memory for [chars]

Explanation	Unable to chunk create memory chunk
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MON-3-CHUNKDESTROY : Failed to chunk destroy memory for [chars]

Explanation	Unable to chunk destroy memory chunk
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MON-3-CHUNKMALLOC : Failed to malloc chunk memory for [chars]

Explanation	Unable to malloc memory chunk, malloc failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MON-3-DEFRECCREATE : Creation of default-record [chars] failed - reason [chars]

Explanation	Failed to create system defined default flow-records
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MON-3-RECSETPROP : Setting property for [chars] default-record failed - reason [chars]

Explanation	Failed to set properties for system defined default flow-records
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%PERF_MON-3-RECSETPROP : Setting property for [chars] default-record failed - reason [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%PERF_MON-3-RECSETKEY : Adding key fields for default-record [chars] failed - reason [chars]

Explanation	Failed to add key fields for defined default flow-records
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_MON-3-RECSETNONKEY : Adding non-key fields for [chars] default-record failed - reason [chars]

Explanation	Failed to add non-key fields for defined default flow-records
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

PERF_MON_REACT**%PERF_MON_REACT-0-EMERGSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]**

Explanation	A threshold crossing alarm is raised. The alarm severity is EMERGENT. system is unusable.
Recommended Action	No action is required.

%PERF_MON_REACT-0-EMERGCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation	A threshold crossing alarm is cleared. The alarm severity is EMERGENT.
Recommended Action	No action is required.

%PERF_MON_REACT-1-ALERTSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is ALERT.**Recommended Action** No action is required.

%PERF_MON_REACT-1-ALERTCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is ALERT.**Recommended Action** No action is required.

%PERF_MON_REACT-2-CRITSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is CRITICAL.**Recommended Action** No action is required.

%PERF_MON_REACT-2-CRITCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is CRITICAL.**Recommended Action** No action is required.

%PERF_MON_REACT-3-ERRSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is ERROR**Recommended Action** No action is required.

%PERF_MON_REACT-3-ERRCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is ERROR**Recommended Action** No action is required.

%PERF_MON_REACT-2-INFOSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is INFO.

%PERF_MON_REACT-2-INFOSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Recommended Action No action is required.

%PERF_MON_REACT-2-INFOCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is INFO.
Recommended Action No action is required.

PERF_TRAFFIC_INFRA

%PERF_TRAFFIC_INFRA-3-MMONOBJINV : A mmon_obj does not exist for policy [chars] class [chars]

Explanation Unable to find an existing mmon obj for event CLASS_REMOVE and CLASS_MODIFY
Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-MMONOBJDUP : A mmon_obj already exists for policy [chars] class [chars]

Explanation A mmon obj already exists in the MMON DB under the same policy and class for CLASS_ADD
Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-NOPARENTMMONOBJ : Internal error, target has no parent mmon object

Explanation None valid pointer to mmon obj found in tgt obj for CLASS_REMOVE
Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INV_REACT : react is not valid - [chars]

Explanation	This is an internal error, the saved react info is corrupted
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-FIELDENA : Enable fnf field [chars] failed - [chars]

Explanation	Failed to enable a field for use with a config
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-FNFPARSERENA : Enable flow monitor parser failed - [chars]

Explanation	Failed to enable performance monitor typed monitor
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-CHUNKCREATE : Failed to chunk create memory for [chars]

Explanation	Unable to chunk create memory chunk
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-CHUNKDESTROY : Failed to chunk destroy memory for [chars]

Explanation	Unable to chunk destroy memory chunk
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%PERF_TRAFFIC_INFRA-3-CHUNKDESTROY : Failed to chunk destroy memory for [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%PERF_TRAFFIC_INFRA-3-CHUNKMALLOC : Failed to malloc chunk memory for [chars]

Explanation	Unable to malloc memory chunk, malloc failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INV_TARGET : A target object does not exist - [chars]

Explanation	An internal error occurred. Try to access a null target obj
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-NULLHIST : A history bucket does not exist

Explanation	An internal error occurred. Try to access a null history
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-NULLFLOW : A flow does not exist

Explanation	An internal error occurred. Try to access a null flow
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INVCMDB : Invalid cmd type [dec] to [chars]

Explanation	This is an internal error, the command type is invalid
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INVMODE : Invalid performance-monitor configuration mode

Explanation	This is an internal error, the configuration sub mode is invalid
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INVCRIT : Invalid react criteria [dec] to [chars]

Explanation	This is an internal error, the saved react criteria is corrupted
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-RESETMODE : Failed to reset csb vars

Explanation	Reset of the csb vars failed due to lack of memory
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-DEFRECCREATE : Creation of default-record [chars] failed - reason [chars]

Explanation	Failed to create system defined default flow-records
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%PERF_TRAFFIC_INFRA-3-DEFRECCREATE : Creation of default-record [chars] failed - reason [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-RECSETPROP : Setting property for [chars] default-record failed - reason [chars]

Explanation Failed to set properties for system defined default flow-records

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-RECSETKEY : Adding key fields for default-record [chars] failed - reason [chars]

Explanation Failed to add key fields for defined default flow-records

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-RECSETNONKEY : Adding non-key fieds for [chars] default-record failed - reason [chars]

Explanation Failed to add non-key fields for defined default flow-records

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-MONITOR_CREATE : Failed to create Monitor at Metering layer. Error - [chars]

Explanation Failed to create monitor at Metering layer for this policy. The error code provides the reason for failure. No statistics will be collected.

%PERF_TRAFFIC_INFRA-3-MONITOR_CREATE : Failed to create Monitor at Metering layer. Error - [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-MONITOR_DELETE : Failed to delete Monitor at Metering layer. Error - [chars]

Explanation Failed to delete monitor at Metering layer for this policy. The error code provides the reason for failure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-MONITOR_SYNC : Out of sync - [chars]

Explanation This is an internal error, the reference count in flow monitor reached negative

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INVFIELDTYPE : Enable fnf field [dec] failed - invalid field type

Explanation Failed to enable a field for use with a config

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INVMONITOR : The flow monitor pointer is invalid

Explanation An internal error occurred. The performance-monitor monitor pointer saved in the common monitor is NULL

%PERF_TRAFFIC_INFRA-3-INVMONITOR : The flow monitor pointer is invalid

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%PERF_TRAFFIC_INFRA-3-INV_COMMON_MONITOR : The common monitor ptr is invalid

Explanation	An internal error occurred. The common monitor ptr saved in the performance-monitor monitor is NULL
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INV_MONITOR_TYPE : The monitor type [dec] is invalid

Explanation	An internal error occurred. The monitor type is out of the range
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INV_POLICY_MAP : The retrieved policy map is invalide - [chars]

Explanation	An internal error occurred. The policy map saved in csb is invalid
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-INV_ARG : The argument is not valid - [chars]

Explanation	An internal error occurred. The argument for an internal API is not valid
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-CONV_FAILURE : Conversion failed - [chars]

Explanation	Conversion from one format to another has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-CHUNK_INIT : Chunk is not initialized - [chars]

Explanation	Chunk memory is not created or failed to be created
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-PROC_MSG : Failed to process received record - [chars]

Explanation	Failure during the process of handling the received fnf record
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-MEMLEAK : Memory leak detected - [chars]

Explanation	A memory leak is detected during media-mon memory handling
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-FDEF_NOTIFY : Failed to register PD flow definition [chars]

Explanation	The flow def received from ME or PD is NULL
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%PERF_TRAFFIC_INFRA-3-FDEF_NOTIFY : Failed to register PD flow definition [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%PERF_TRAFFIC_INFRA-3-EXP_ATTR : Failed to set flow attribute for exporter - [chars]

Explanation	An error occurred when setting flow attribute use to transform match and collect metrics to export message
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-FDEF_TEMP : Invalid flow definition template - [chars]

Explanation	The template was not initialized during system initialization
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-FLOW_EXCEED : The number of flows has exceeded 95%% of the configured maximum flow. [chars]

Explanation	This is warning message if the flow size exceeds the maximum value
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-FLOW_NONEXCEED : The number of flows is below 85%% of the configured maximum flow. [chars]

Explanation	This is info message if the flow size falls below the maximum value
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%PERF_TRAFFIC_INFRA-3-FLOW_NONEXCEED : The number of flows is below 85%% of the configured maximum flow. [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-SIB_LINK : sib member [int] with [int], error [chars]

Explanation Failed to link two sibling members in the MMON PD

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PERF_TRAFFIC_INFRA-3-SIB_UNLINK : sib member [int] from [int], error [chars]

Explanation Failed to unlink two sibling members in the MMON PD

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

PERF_TRAFFIC_REACT

%PERF_TRAFFIC_REACT-0-EMERGSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is EMERGENT. system is unusable.

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-0-EMERGCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is EMERGENT.

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-1-ALERTSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is ALERT.**Recommended Action** No action is required.

%PERF_TRAFFIC_REACT-1-ALERTCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is ALERT.**Recommended Action** No action is required.

%PERF_TRAFFIC_REACT-2-CRITSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is CRITICAL.**Recommended Action** No action is required.

%PERF_TRAFFIC_REACT-2-CRITCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is CRITICAL.**Recommended Action** No action is required.

%PERF_TRAFFIC_REACT-3-ERRSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is ERROR**Recommended Action** No action is required.

%PERF_TRAFFIC_REACT-3-ERRCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is ERROR**Recommended Action** No action is required.

%PERF_TRAFFIC_REACT-2-INFOSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is raised. The alarm severity is INFO.

%PERF_TRAFFIC_REACT-2-INFOSET : TCA RAISE. Detailed info: [chars][chars][chars][chars][chars]

Recommended Action No action is required.

%PERF_TRAFFIC_REACT-2-INFOCLEAR : TCA CLEAR. Detailed info: [chars][chars][chars][chars][chars]

Explanation A threshold crossing alarm is cleared. The alarm severity is INFO.

Recommended Action No action is required.

PKI

%PKI-3-KEY_CMP_MISMATCH : Key in the certificate and stored key does not match for Trustpoint-[chars].

Explanation Public key in the certificate is not the same as the stored key.

Recommended Action Make sure that the certificate public key and stored public key are the same.

%PKI-3-QUERY_KEY : Querying key pair failed.

Explanation Querying public key/private key using subject name failed

Recommended Action Resubmit enrollment request. Check the subject name.

%PKI-3-CERTRETFAIL : Certificate enrollment failed.

Explanation Certificate enrollment transaction failed due to internal error.

Recommended Action Contact CE.

%PKI-6-CERT_INSTALL : [chars] Trustpoint : [chars] Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

Explanation A previous certificate enrollment request was received by the Certificate Authority. It has issued the certificate, and sent back a copy

Recommended Action Informational message only. No action required.

%PKI-6-CERTPENDING : Enter manual authentication ...

Explanation	CA server want to manually authenticate the router.
Recommended Action	Follow a manual authentication procedure.

%PKI-6-CERTREJECT : [chars]

Explanation	A previous certificate enrollment request was received by the Certificate Authority. It has rejected the enrollment request.
Recommended Action	Contact the Certificate Authority administrator.

%PKI-6-PKCS12_EXPORT_SUCCESS : PKCS #12 Export from trustpoint [chars] was successfully Exported.

Explanation	A PKCS #12 has been generated and successfully exported.
Recommended Action	No action required. Informational message

%PKI-6-PKCS12_IMPORT_SUCCESS : PKCS #12 import in to trustpoint [chars] successfully imported.

Explanation	A PKCS #12 has been successfully imported.
Recommended Action	No action required. Informational message

%PKI-3-POLLCACERT : Polling CA certificate

Explanation	Polling ca certificate.
Recommended Action	Check if CA or ldap server is online.

%PKI-3-QUERYCACERT : Failed to query CA certificate.

Explanation	Failed to query ca certificate from ca server.
Recommended Action	Use parser command cr ca auth and try again.

%PKI-3-INVALIDCACERT : Failed to process CA certificate.

Explanation	Failed to process the ca certificate received from ca server.
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%PKI-3-INVALIDCACERT : Failed to process CA certificate.

Recommended Action Use parser command cr ca auth and try again.

%PKI-3-POLLRACERT : Polling RA certificate

Explanation Polling ra certificate.

Recommended Action Check if CA or ldap server is online.

%PKI-3-POLLROUTERCERT : Polling Router certificate for [chars]

Explanation Polling router certificate.

Recommended Action Check if CA or ldap server is online.

%PKI-4-NOAUTOSAVE : Configuration was modified. Issue write memory to save new certificate

Explanation Auto-Enroll has obtained a new router key pair and certificate. However, the running configuration was previously modified.

Recommended Action Issue the write memory command to save the new certificate(s) and key(s).

%PKI-6-AUTOSAVE : Running configuration saved to NVRAM

Explanation Auto-Enroll has obtained a new router key pair and certificate, and has done an automatic write memory to save them.

Recommended Action No action required. Informational message

%PKI-4-NOSHADOWAUTOSAVE : Configuration was modified. Issue write memory to save new IOS CA certificate

Explanation IOS CA Rollover has generated a shadow CA key pair and certificate. However, the running configuration was previously modified.

Recommended Action Issue the write memory command to save the new certificate(s) and key(s).

%PKI-6-CERTRENEWMANUAL : Please renew the router certificate for trustpoint [chars]

Explanation	Trustpoint certificate will expire soon, and should be renewed
Recommended Action	Obtain a new certificate from the Certificate Authority

%PKI-6-CERT_RENEW_AUTO : Auto renewing router certificate of trustpoint [chars]

Explanation	Trustpoint certificate will expire soon, and is being automatically renewed
Recommended Action	No action required. Informational message

%PKI-6-SHADOWAUTOSAVE : Running configuration saved to NVRAM

Explanation	IOS CA Rollover has generated a shadow CA key pair and certificate, and has done an automatic write memory to save them.
Recommended Action	No action required. Informational message

%PKI-4-NOCONFIGAUTOSAVE : Configuration was modified. Issue write memory to save new IOS PKI configuration

Explanation	IOS PKI APIs have generated new PKI configuration. However, the running configuration was previously modified.
Recommended Action	Issue the write memory command to save the new PKI configuration.

%PKI-6-CONFIGAUTOSAVE : Running configuration saved to NVRAM

Explanation	IOS PKI APIs have generated new PKI configuration, and has done an automatic write memory to save them.
Recommended Action	No action required. Informational message

%PKI-6-CERTIFSEND : Could not send Certificate enrollment request to file system.

Explanation	The certificate enrollment request could not be sent to file system.
Recommended Action	Verify the enrollment URL and that the router is able to write to the file system.

%PKI-6-CERTIFSRECV : Could not receive router's Certificate from file system.

Explanation The router's certificate could not be received from file system.

Recommended Action Verify the enrollment URL and that the router is able to read from the file system.

%PKI-2-CERT_ENROLL_FAIL : Certificate enrollment failed for trustpoint [chars]. Reason : [chars]

Explanation Certificate enroll encounter fatal error

Recommended Action Contact the CA administrator.

%PKI-2-CERT_RENEW_FAIL : Certificate renewal failed for trustpoint [chars] Reason : [chars]

Explanation Certificate enroll encounter fatal error

Recommended Action Contact the CA administrator.

%PKI-4-CERT_ENROLL_CANCEL : Enrollment cancelled for trustpoint : [chars]

Explanation Certificate enroll cancelled by user

Recommended Action Contact the CA administrator.

%PKI-3-SOCKETSEND : Failed to send out message to CA server.

Explanation The failure is caused by http transaction.

Recommended Action Check http connection to the CA server

%PKI-3-INVALID_INPUT : The input to the parser command is not correct

Explanation The input to the parser command is not correct

Recommended Action Repeat the command.

%PKI-3-GETCARACERT : Failed to receive RA/CA certificates.

Explanation Encountered failure when parsing and processing CA/RA certificates

%PKI-3-GETCARACERT : Failed to receive RA/CA certificates.

Recommended Action Check the status, contact the CA administrator

%PKI-6-CS_DELETE_TP_KEY : Trustpoint and key deleted.

Explanation Trustpoint and key used by the Certificate Server are deleted.

Recommended Action No action required. Informational message.

%PKI-6-CS_DELETE : Certificate Server is deleted.

Explanation Certificate Server is deleted.

Recommended Action No action required. Informational message.

%PKI-6-CS_GRANT_AUTO_RA : Enrollment requests coming from known RAs will be automatically granted.

Explanation Enrollment requests coming from known RAs will be automatically granted.

Recommended Action No action required. Informational message.

%PKI-6-CS_GRANT_AUTO : All enrollment requests will be automatically granted.

Explanation All enrollment requests will be automatically granted.

Recommended Action No action required. Informational message.

%PKI-6-CS_GRANT_AUTO_CACERT : All rollover subordinate CA cert requests will be automatically granted.

Explanation All rollover subordinate CA cert requests will be automatically granted.

Recommended Action No action required. Informational message.

%PKI-4-CS_GRANT_AUTO_CACERT_FAILURE : A rollover request for a subordinate CA certificate cannot be auto granted.

Explanation A rollover request for a subordinate CA certificate cannot be authorized and the configured auto grant policy will be ignored. This request will be added to the CS server request queue but will need to be manually granted

Recommended Action Insure that the peer's current sub CA cert is valid.

%PKI-6-CS_GRANT_AUTO_RACERT : All rollover RA cert requests will be automatically granted.

Explanation All rollover RA cert requests will be automatically granted.

Recommended Action No action required. Informational message.

%PKI-6-CS_REJECT_AUTO : All enrollment requests will be automatically rejected.

Explanation All enrollment requests will be automatically rejected.

Recommended Action No action required. Informational message.

%PKI-3-CS_CRIT_STORAGE : Critical certificate server storage, [chars], is inaccessible, server disabled.

Explanation Critical certificate server storage is inaccessible, server disabled.

Recommended Action Make storage accessible, or re-configure the storage location

%PKI-4-CS_PUBLISH_STORAGE : Publish certificate server storage, [chars], is inaccessible.

Explanation Publish certificate server storage is inaccessible.

Recommended Action Make storage accessible, or re-configure the storage location

%PKI-6-AUTOENROLL_KEY_LOCKED : Auto-enroll failed - RSA keypair is locked

Explanation Auto-enroll attempted to generate a new RSA keypair. However the existing RSA keypair is locked so auto-enroll cannot proceed

Recommended Action Auto-enroll will retry the enrollment request Make sure the existing RSA keypair is unlocked before the next retry

%PKI-6-CS_ENABLED : Certificate server now enabled.

Explanation	Certificate server now enabled.
Recommended Action	No action required. Informational message.

%PKI-6-CS_DISABLED : Certificate server now disabled. Reason : [chars]

Explanation	Certificate server now disabled.
Recommended Action	No action required. Informational message.

%PKI-3-UNUSABLE_KEY_USAGE : Key-usage type '[chars]' for cert with serial number [chars] is not usable.

Explanation	The given key-usage type is not usable by IOS. If seen during an import operation, this will likely cause the import to fail. Acceptable key-usage types should include Key-encipherment and/or digital-signature. Other key-usage types may be present, but will be ignored.
Recommended Action	Recreate the certificate with Key-encipherment, digital-signature, or both.

%PKI-6-AUTOCERTFAIL : Certificate (re)enrollment failed. Delaying before retry

Explanation	Automatic certificate enrollment or re-enrollment failed The router will retry in 6 hours or less depending on the expiration time of the router's certificate.
Recommended Action	Contact the CA administrator.

%PKI-4-AUTOCERTFAILWARN : Certificate (re)enrollment failed. Delaying before retry

Explanation	Automatic certificate re-enrollment failed. The router will retry in 6 hours or less depending on the expiration time of the router's certificate. Caution - Router's Certificate may expire soon.
Recommended Action	Contact the CA administrator. The router will retry.

%PKI-3-AUTOCERTERR : Auto Certificate (re)enrollment failed. Cannot retry

Explanation	Automatic certificate re-enrollment failed. The router clock may not be set correctly. If the router has a certificate it may be expired.
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%PKI-3-AUTOCERTERR : Auto Certificate (re)enrollment failed. Cannot retry

Recommended Action Check router clock is set correctly Make sure the router's cert has not expired

%PKI-3-CERTPENDERR : Failed to receive pending certificate during enrollment

Explanation The router's cert remains in a pending state after the maximum number of retries to enroll.

Recommended Action Contact the CA administrator. Then retry the enrollment.

%PKI-4-CERTIFICATE_INVALID_SUBJECT : Certificate has a missing or invalid subject name.

Explanation The certificate subject name attribute must be present and not empty OR The certificate subject alt name extension must be present and include at least one entry.

Recommended Action Examine the offending certificate and re-issue it with a proper subject name.

%PKI-3-CERTIFICATE_INVALID_EXPIRED : Certificate chain validation has failed. The certificate (SN: [chars]) has expired. Validity period ended on [chars]

Explanation The certificate validity period indicates that this certificate has expired

Recommended Action Check the system clock to see if its set correctly

%PKI-3-CERTIFICATE_INVALID_NOT_YET_VALID : Certificate chain validation has failed. The certificate (SN: [chars]) is not yet valid Validity period starts on [chars]

Explanation The certificate validity period indicates that this certificate is not yet valid

Recommended Action Check the system clock to see if its set correctly

%PKI-3-CERTIFICATE_INVALID : Certificate chain validation has failed.

Explanation The certificate is not valid

Recommended Action Check the system clock to see if its set correctly

%PKI-3-CERTIFICATE_REVOKED : Certificate chain validation has failed. The certificate (SN: [chars]) is revoked

Explanation The certificate has been revoked by the CA administrator.

Recommended Action Check the status, contact the CA administrator

%PKI-3-CERTIFICATE_INVALID_UNAUTHORIZED : Certificate chain validation has failed. Unauthorized

Explanation The certificate is valid but not authorized

Recommended Action Check the system clock to see if its set correctly

%PKI-4-CRLHTTPFETCHFAIL : CRL Request for trustpoint [chars] returned [dec] [chars]

Explanation The CRL fetch returned something other than success. If the trustpoint revocation-check includes the keyword 'none', the transaction will succeed. If revocation- checking is not optional, the transaction will fail.

Recommended Action Verify that the CRL is at the location specified in the Certificate, and that the server is operational. To see interaction between IOS and the CRL-server, please turn on **debug crypto pki transactions**

%PKI-6-CRLHTTPFETCHREDIR : CRL Request for trustpoint [chars] returned [dec] [chars] -> [chars]

Explanation The CRL fetch returned a redirect directive. This need not be an error, if the file exists at the redirected location.

Recommended Action If no other errors are seen, then the CRL was fetched from the new location, and no action is necessary. To see interaction between IOS and the CRL-server, please turn on **debug crypto pki transactions**

%PKI-3-CRL_FETCH_FAIL : CRL fetch for trustpoint [chars] failed Reason : [chars]

Explanation The CRL fetch returned something other than success.

Recommended Action Check the CRL manually to see it is correct. To see interaction between IOS and the CRL-server, please turn on **debug crypto pki transactions**

%PKI-3-CRL_INSERT_FAIL : CRL download for trustpoint [chars] has been discarded. Reason : [chars] Status : [dec] Status String : [chars]

Explanation Inserting and/or verifying the CRL failed. If the trustpoint revocation-check includes the keyword 'none', the transaction will succeed. If revocation- checking is not optional, the transaction will fail.

%PKI-3-CRL_INSERT_FAIL : CRL download for trustpoint [chars] has been discarded. Reason : [chars] Status : [dec] Status String : [chars]

Recommended Action Check the CRL manually to see it is correct. To see interaction between IOS and the CRL-server, please turn on **debug crypto pki transactions**

%PKI-4-HTTPREDIRECT : Maximum Redirection limit of [dec] exceeded, trying to retrieve URL [chars]

Explanation While fetching a document via http, there were too many redirections, and the operation has aborted. If the trustpoint revocation-check includes the keyword 'none', the transaction will succeed. If revocation- checking is not optional, the transaction will fail.

Recommended Action Verify that the CRL is at the location specified in the Certificate, and that the server is operational. To see interaction between IOS and the CRL-server, please turn on **debug crypto pki transactions**

%PKI-4-CRL_LDAP_QUERY : An attempt to retrieve the CRL from [chars] using LDAP has failed

Explanation An LDAP query was made to acquire the certificate revocation list, but the LDAP server did not respond with the requested information. This is a warning that only applies to the Distribution Point listed. It does not necessarily reflect the overall success or failure of CRL aquisition since a prior or subsequent retrieval of the CRL may have succeeded.

Recommended Action Check that the LDAP server is reachable and online. Verify that the CRL is at the requested location

%PKI-6-TRUSTPOOL_AUTO_UPDATE : Auto-trustpool update in progress from [chars].

Explanation One of the certificates in the trustpool will expire soon. An attemp to download a new trustpool bundle is in progress

Recommended Action Since an url has been configured that identifies the location to aquire the trustpool bundle, then no action is required.

%PKI-4-TRUSTPOOL_AUTO_UPDATE_DISABLED : Auto-trustpool update is disabled.

Explanation One of the certificates in the trustpool will expire soon. An attemp to download a new trustpool bundle cannot be attempted since a bundle location is not configured

Recommended Action Either configure the bundle location in the trustpool policy or manually update the trustpool bundle.

%PKI-4-TRUSTPOOL_EXPIRATION_WARNING : The Trustpool will expire in [chars].

Explanation	One of the certificates in the trustpool will expire soon. If a bundle location is configured an auto update will be attempted at predetermined intervals.
Recommended Action	If a bundle location is configured in the trustpool policy no further action is required. Otherwise manual update of trustpool bundle may be needed.

%PKI-6-ECDSA_CERT_WITH_SHA1 : User has accepted the security implication of using lesser hash strength(SHA1) for the Elliptic Curve Key present in the certificate

Explanation	The SHA1 hash algorithm is not recommended for use with the elliptic curve key in this certificate. It is recommended that SHA2 or stronger hash algorithm be used.
Recommended Action	Informational message only. No action required.

%PKI-6-PKI_CRL_DOWNLOADED : CRL download successful. Trustpoint : [chars] CDP-URL : [chars] Issuer : [chars]

Explanation	CRL is downloaded and successfully inserted in the database. Notification for the same is sent to applications registered.
Recommended Action	Informational message only. No action required.

%PKI-4-CERT_EXPIRY_WARNING : [chars] Certificate belonging to trustpoint [chars] will expire in [int] Days [int] hours [int] mins [int] secs at [chars]. Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] Auto-Renewal : [chars]

Explanation	Warning to indicate that certificate is expiring soon.
Recommended Action	If auto-enrol feature is not configured, re-enrol the certificate manually. Else, check if any issues with auto-enrol.

%PKI-1-CERT_EXPIRY_ALERT : [chars] Certificate belonging to trustpoint [chars] will expire in [int] Days [int] hours [int] mins [int] secs at [chars]. Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] Auto-Renewal : [chars]

Explanation	Alert to indicate that certificate will expire in less than one week.
Recommended Action	If auto-enrol feature is not configured, re-enrol the certificate manually. Else, check if any issues with auto-enrol.

%PKI-4-OCSP_SERVER_NO_RESP : The OCSP Server URL [chars] is not reachable or not responding

Explanation	The OCSP server is not reachable or is not responding to the OCSP request
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%PKI-4-OCSP_SERVER_NO_RESP : The OCSP Server [chars] is not reachable or not responding

Recommended Action Check if the OCSP server is reachable and is receiving the OCSP request

%PKI-4-OCSP_SERVER_RESP_COMP : The OCSP Server [chars]: error:responder certificate is peer certificate

Explanation The OCSP responder certificate is peer certificate

Recommended Action Check if the configured OCSP server and responder OCSP server is same or not

%PKI-3-OCSP_RESPONSE_STATUS : OCSP response status failed Reason : [chars]

Explanation OCSP response status failed

Recommended Action Check the ocspl request or ocspl server configurations

%PKI-4-OCSP_SERVER_RESP_SIGN : The OCSP Server [chars]: error:responder invalid signature algorithm

Explanation The OCSP responder has differnt signature algorithm

Recommended Action Check if the configured and responder OCSP server same signature algorithm or not

%PKI-4-OCSP_SERVER_RESP_DECODE_FAIL : The OCSP Server [chars]: failed to decode OCSP response basic data

Explanation The OCSP response data decoding is failing

Recommended Action Check if the configured OCSP server response data

%PKI-4-OCSP_SERVER_CERT_VALIDATE : The OCSP Server [chars]: responder certificate validation failed

Explanation The OCSP server responder certificate validation failed

Recommended Action Check if the configured OCSP server responder certificate

%PKI-4-OCSP_SERVER_RESP_VARIFY : The OCSP Server [chars]: failed to verify OCSP response

Explanation The OCSP response verification failed

%PKI-4-OCSP_SERVER_RESP_VARIFY : The OCSP Server [chars]: failed to verify OCSP response

Recommended Action Check if the configured OCSP server response

%PKI-4-OCSP_SERVER_RESP_DECODE : The OCSP Server [chars]: failed to decode OCSP response data

Explanation The OCSP response data decoding is failing

Recommended Action Check if the configured OCSP server response data

%PKI-5-CERT_ENROLL_RETRY : Certificate (re)enrollment has failed and retry will happen for [dec] attempts

Explanation Automatic certificate re-enrollment failed. We are printing a consolidated message for the maximum number of retry attempts. The router will continue to retry depending on the expiration time of the router's certificate. The retry attempts will be either 999 (default) or as specified Caution - Router's Certificate may expire soon.

Recommended Action Contact the CA administrator. The router will retry.

%PKI-4-CERT_ENROLL_RETRY_FAIL : Certificate (re)enrollment has failed after [dec] attempts

Explanation Automatic certificate re-enrollment failed. Caution - Router's Certificate may expire soon.

Recommended Action Contact the CA administrator. Enrollment failed.

%PKI-4-ROUTER_CERT_EXPIRED : Router certificate expired, cannot re-enroll/retry for enrollment/re-enroll

Explanation Cannot re-enroll/retry for enroll/re-enroll. Caution - Router's Certificate has expired.

Recommended Action Enroll the router manually.

%PKI-4-TRUSTPOOL_DOWNLOAD_FAIL : Trustpool download requires [int] bytes, available free storage [int] bytes is insufficient

Explanation Trustpool download failed Free space in nvram is not sufficient to store Trustpool Certificates. Change the Trustpool policy for its storage

Recommended Action Change the storage policy for Trustpool

%PKI-6-TRUSTPOOL_DOWNLOAD_SUCCESS : Trustpool Download is successful

Explanation	Trustpool Download is successful
Recommended Action	No action required. Informational message

%PKI-4-TRUSTPOOL_DOWNLOAD_FAILURE : Trustpool Download failed

Explanation	Failed to download the trustpool bundle
Recommended Action	Enable debugs and obtain the reason for failure

%PKI-4-TRUSTPOOL_CERTIFICATE_SAVE_CHANGE : Downloaded Trustpool certificates present prior to image upgrade should be re-downloaded. Issue 'crypto pki trustpool import url <url>' to re-download the certificates.

Explanation	Downloaded Trustpool certificates present prior to image upgrade should be re-downlaoded
Recommended Action	Before image upgrade, clean all the downloaded trustpool certificates. Import them again after image upgrade.

%PKI-2-NON_AUTHORITATIVE_CLOCK : PKI functions can not be initialized until an authoritative time source, like NTP, can be obtained.

Explanation	System clock is not valid. Update the system clock to start with PKI timers
Recommended Action	System clock must be configured/Updated.

%PKI-6-AUTHORITATIVE_CLOCK : The system clock has been set.

Explanation	System clock is valid.
Recommended Action	No action. Informational message.

%PKI-6-CSR_FINGERPRINT : CSR Fingerprint MD5 : [chars] CSR Fingerprint SHA1: [chars]

Explanation	Fingerprint display
Recommended Action	Information message

%PKI-6-CERT_ENROLL_AUTO : Auto initial enrollment for trustpoint [chars]

Explanation	Trustpoint enrollment happening automatically.
Recommended Action	No action required. Informational message

%PKI-6-CERT_ENROLL_MANUAL : Manual enrollment for trustpoint [chars]

Explanation	Trustpoint enrollment triggered manually
Recommended Action	No action required. Informational message

%PKI-6-CERT_REENROLL : Re-enrollment for trustpoint [chars]

Explanation	Trustpoint re-enrollment triggered manually
Recommended Action	No action required. Informational message

%PKI-3-HOSTNAME_RESOLVE_ERR : Failed to resolve HOSTNAME/IPADDRESS : [chars]

Explanation	Unable to resolve hostname/ip-address
Recommended Action	Check network connectivity

%PKI-3-OCSP_CONTENT_MISMATCH : ocs content mismatch

Explanation	Expected content not matched with formed content
Recommended Action	Check ocs request

%PKI-2-MEM_ALLOC_FAIL : Memory allocation failure. Number of bytes requested : [dec]

Explanation	Memory allocation failed
Recommended Action	Check memory left on the device

%PKI-3-SOCKET_OPEN : Failed to open socket.

Explanation	The failure is caused by socket open
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%PKI-3-SOCKET_OPEN : Failed to open socket.

Recommended Action Check tcp/socket debugging message

%PKI-3-SET_SOURCE_INTERFACE_FAIL : Failed to set source interface for [chars] ip address

Explanation Failed to set source interface

Recommended Action Check configured source interface for trustpoint

%PKI-3-SOCKET_BIND_FAIL_SOURCE_INTERFACE : Failed to bind the socket due to source interface ip : [chars]

Explanation Failed to bind socket with source interface

Recommended Action Check configured source interface for trustpoint

%PKI-3-SET_VRF_FAIL : Failed to set VRF : [chars]. VRF not configured

Explanation Failed to set VRF

Recommended Action Check configured VRF for trustpoint and set VRF

%PKI-3-SET SOCK_VRF_INTERFACE_FAIL : Failed to set VRF : [chars] to socket interface

Explanation Failed to set VRF to socket

Recommended Action Check configured VRF for trustpoint and set VRF

%PKI-3-SET_SOCKET_OPTION_FAIL : Failed to set socket option. Option : [chars]

Explanation Failed to set socket option

Recommended Action Enable socket debugs

%PKI-3-SOCKET_CONNECT_FAIL : Failed to connect to socket

Explanation Failed to connect socket

%PKI-3-SOCKET_CONNECT_FAIL : Failed to connect to socket

Recommended Action Enable socket debugs

%PKI-2-CA_SERVER_CERT_EXPIRED : [chars] server certificate expired. Cannot enable [chars] server

Explanation CA server certificate expired.

Recommended Action Reconfigure CA server

%PKI-2-CA_SERVER_LABEL_TOO_LONG : [chars] server name too long. Reconfigure server with name less than 13 characters.

Explanation CA server name too long.

Recommended Action Reconfigure CA server with less than 13 characters

%PKI-2-CA_SERVER_TP_NOT_PRESENT : [chars] server's Trustpoint not available. Check for the trustpoint config.

Explanation CA server's Trustpoint not available.

Recommended Action Check for CA server and Trustpoint configuration presence

%PKI-2-SERVER_TP_CREATE_FAIL : Not able to create [chars] server's Trustpoint. Check for CA server config's.

Explanation CA server's Trustpoint not created.

Recommended Action Check for CA server and Trustpoint configuration presence

%PKI-2-SERVER_KEY_NOT_PRESENT : Not able to find CS [chars]'s keypair label [chars]. Check whether keypair [chars] is available on device

Explanation CA server's key-pair not available.

Recommended Action Check for key-pair presence

%PKI-2-NON_AUTHORITATIVE_CLOCK_CA : CA server cannot be enabled due to non-authoritative system clock. Configure clock/Sync with NTP server.

Explanation System clock is not valid. Update the system clock to start CA server

Recommended Action System clock must be configured/Updated.

%PKI-2-CS_CERT_EXPIRED : Certificate server [chars] CA certificate expired. Regenerate CA certificate manually.

Explanation CS certificate expired.

Recommended Action Regenerate CS certificate.

%PKI-2-CS_CERT_GEN_FAIL : Certificate server [chars] CA certificate generation failed. Regenerate CA certificate manually.

Explanation Certificate Server disabled.

Recommended Action Regenerate CS certificate.

%PKI-2-CS_CERT_INVALID : Certificate server [chars] CA certificate invalid. Regenerate CA certificate manually.

Explanation CS certificate invalid.

Recommended Action Regenerate CS certificate.

%PKI-2-CS_SUBJECT_NAME_FAIL : Extracting subject name from Server certificate failed

Explanation Extraction of subject failed

Recommended Action Regenerate CS certificate.

%PKI-2-CS_ISSUER_NAME_INVALID : Invalid issuer_name in CS [chars] configuration

Explanation Invalid issuer-name in Certificate Server

Recommended Action Check certificate server configuration and re-configure.

%PKI-2-CS_CERT_NOT_PRESENT : Certificate server [chars]'s certificate not present.

Explanation	Certificate server certificate not present
Recommended Action	Regenerate CS certificate.

%PKI-3-ISSUER_NAME_NOT_BER : Issuer name is not BER

Explanation	Issuer name is not BER. Check issuer-name
Recommended Action	Check issuer-name present/configured

%PKI-3-SUBJECT_NAME_NOT_BER : Subject name is not BER

Explanation	Subject name is not BER. Check subject-name
Recommended Action	Check subject-name present/configured

%PKI-3-CRL_HTTP_FAIL : CRL Request over http for trustpoint [chars] failed. Reason : [chars]

Explanation	Receival of CA certificate failed
Recommended Action	CA cert download failed

%PKI-6-CERT_ROLLOVER_ACTIVE : A rollover ID certificate has been activated under trustpoint [chars] replacing the previous ID certificate. Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

Explanation	Rollover ID certificate active
Recommended Action	No action needed. Informational message only

%PKI-2-CERT_SHADOW_INSTALL_FAIL : [chars].

Explanation	Shadow CA/ID certificate installation failed.
Recommended Action	Check for the reason for failure and perform necessary steps

%PKI-6-CERT_SHADOW_INSTALL : [chars] Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

Explanation Shadow CA/ID certificate has been installed.

Recommended Action No action needed. Informational message only

%PKI-6-CERT_SHADOW_ACTIVE : [chars] Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

Explanation Shadow CA/ID certificate has been activated.

Recommended Action No action needed. Informational message only

%PKI-3-CERT_ROLLOVER : Renew/Shadow event has failed for trustpoint : [chars] Reason : [chars]

Explanation Renew/Shadow event failed.

Recommended Action Perform manual renewal of certificate to avoid certificate expiry.

%PKI-3-CS_ROLLOVER_TRIGGER : CS Rollover event has been triggered for server [chars]

Explanation Rollover triggered for certificate server

Recommended Action Informational message only. No action needed.

%PKI-2-CS_ROLLOVER_FAIL : CS Rollover failed. Reason : [chars]

Explanation Rollover failed for certificate server

Recommended Action Critical error on rollover. Certificate Server has to be re-enabled.

%PKI-6-CS_ROLLOVER_AVAILABLE : [Sub/RA]CS Rollover certificate has been generated for [chars], and it will be activated at [chars] Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

Explanation Rollover certificate generated

Recommended Action Informational message only. No action needed.

%PKI-6-CS_ROLLOVER_ACTIVE : [chars] Rollover certificate has been activated for [chars], replacing the previous [Sub/RA]CA certificate Issuer-name : [chars] Subject-name : [chars] Serial-number: [chars] End-date : [chars]

Explanation Rollover certificate activated

Recommended Action Informational message only. No action needed.

%PKI-3-OCSP_FETCH_FAIL : OCSP fetch failed. Reason : [chars]

Explanation OCSP Fetch failed

Recommended Action Enable socket/tcp debugs to check connectivity with ocsf server

%PKI-3-OCSP_RESPONSE_FAIL : OCSP response from [chars] has been discarded. Reason : [chars]

Explanation OCSP response parse failed

Recommended Action Check OCSP response

%PKI-6-OCSP_SUCCESS : OCSP response from [chars] has been successfully processed for certificate : [chars] Serial-number: [chars] Result : [chars]

Explanation OCSP response successfully processed.

Recommended Action Informational message only. No action needed.

%PKI-2-PKI_EVENT_LOG : PKI Event : [chars]

Explanation PKI Event for both success/failure.

Recommended Action Informational message only. No action needed.

%PKI-3-ENROLL_PKCS12 : Trustpoint [chars] configured as pkcs12 enrollment. SCEP enrollment not supported

Explanation Change the trustpoint configuration to point to enrollment-url

Recommended Action TP configuraiton need to be verified.

%PKI-3-GET_CERT_INITIAL : Failed with GetCertInitial for trustpoint [chars] Reason : [chars]

Explanation GetCertInitial encounter fatal error**Recommended Action** Contact the CA administrator.

%PKI-6-SLA_TRUSTPOINT_CHANGE : Attempting to override SLA Trustpoint. The current running SLA trustpoint config will be retained Config-Replace errors corresponding to SLA TrustPoint may be ingored.

Explanation PKI Event for both success/failure.**Recommended Action** Informational message only. No action needed.

PKTLOG

%PKTLOG-3-PROXY_IPC_SEND_FAILED : [chars][chars]

Explanation Transmission of an IPC message by the packet logger proxy failed.**Recommended Action** LOG_STD_ACTION

%PKTLOG-3-PROXY_IPC_ALLOC_FAILED : [chars]

Explanation Allocation of an IPC packet buffer by the packet logger proxy failed.**Recommended Action** LOG_STD_ACTION

%PKTLOG-3-PROXY_BAD_SUBTYPE : [dec]

Explanation Invalid subtype was passed to packet logger proxy IPC handler.**Recommended Action** LOG_STD_ACTION

%PKTLOG-2-PROXY_IPC_SET_FAILED : [chars]

Explanation Packet logger proxy IPC handler could not be initialized.**Recommended Action** LOG_STD_ACTION

%PKTLOG-4-PROXY_DUP_INIT : [chars]

Explanation Duplicate initialization IPC message received for user %d client id %d.
Recommended Action LOG_STD_ACTION

%PKTLOG-3-PKTLOG_IPC_SEND_FAILED : [chars] [chars]

Explanation Transmission of an IPC message by the packet logger failed. ACL and stats lost.
Recommended Action LOG_STD_ACTION

%PKTLOG-4-PKTLOG_IPC_ALLOC_FAILED : [chars]

Explanation Allocation of an IPC packet buffer by the packet logger failed.
Recommended Action LOG_STD_ACTION

%PKTLOG-4-PROXY_IPC_INVALID_MSG_LEN : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Invalid IPC message length.
Recommended Action LOG_STD_ACTION

%PKTLOG-4-PROXY_INVALID_USER_IDX : [int] [int]

Explanation IPC message contained invalid user index for client id.
Recommended Action LOG_STD_ACTION

%PKTLOG-1-PROXY_MEM_RET_ERR : [chars] [int] [int] [int]

Explanation IPC failed and could not return memory
Recommended Action LOG_STD_ACTION

%PKTLOG-1-PROXY_MEM_APPEND_ERR : [int] [int] [int]

Explanation Could not add memory to memory pool

%PKTLOG-1-PROXY_MEM_APPEND_ERR : [int] [int] [int]

Recommended Action LOG_STD_ACTION

PLATFORM

%PLATFORM-3-NOMAC : Can't allocate MAC address for interface [int]/[int]

Explanation MAC address allocation failed because of an incorrect slot and port combination, which exceeds the maximum available hardware.

Recommended Action LOG_STD_ACTION

%PLATFORM-3-FPTE_INTF_MODE : Front-panel ethernet mode configuration is not in sync with INTF_MODE rommon variable value. Please use 'write' command and reboot to fix this. 10G ports will work in default TE mode in this current boot

Explanation Front-panel ethernet mode configuration is not in sync with INTF_MODE rommon variable value. INTF_MODE rommon variable could have been over-written. Please use 'write' command and reboot to fix this. 10G ports will work in default TE mode in this current boot

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM-3-NOMAC_INTF : Failed to allocate MAC address for interface [chars]

Explanation MAC address allocation failed for logical interface specified in the message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM-3-GEC_NOMAC : Can't allocate MAC address for port-channel interface [int]

Explanation MAC address allocation failed for the port-channel interface specified in the message. This may happen if the port-channel interface exceeds the maximum number of supported port-channel interfaces.

%PLATFORM-3-GEC_NOMAC : Can't allocate MAC address for port-channel interface [int]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%PLATFORM-3-NO_BASEMAC : Can't retrieve base MAC address

Explanation	Base MAC address determination failed at system start.
Recommended Action	LOG_STD_ACTION

%PLATFORM-6-HASTATUS : RP switchover, [chars]

Explanation	RP switchover events received by platform code.
Recommended Action	No action is required.

%PLATFORM-6-HASTATUS_DETAIL : RP switchover, [chars] (count [int])

Explanation	RP switchover events received by platform code.
Recommended Action	No action is required.

%PLATFORM-4-HASTATUS_WARN : RP HA status warning, [chars]

Explanation	Standby RP reports peer not present event. This is indicative of a IPC problem between IOSd and CMRP
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM-3-HAKPA_FAIL : RP HA Keepalive failure, [chars]

Explanation	Standby RP reports missing keepalives from Active. This is indicative of an IPC problem between peer IOSd processes
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%PLATFORM-3-HAKPA_FAIL : RP HA Keepalive failure, [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%PLATFORM-3-HASTATUS_FAIL : RP switchover, [chars] (count [int])

Explanation	RP switchover failed to reach active state. The RP will be reset. This is indicative of a IPC problem between IOSd and CMRP
Recommended Action	Make sure system achieves full redundant state after the RP reset. If not, reload entire system

%PLATFORM-3-RF_PROG_FAIL : Progression completion notification to chassis management failed, [chars]

Explanation	Could not notify the completion of the RF progression to the chassis management process. The system will potentially not be in a fully redundant state.
Recommended Action	LOG_STD_ACTION

%PLATFORM-6-RF_PROG_SUCCESS : RF state [chars]

Explanation	A marker to illuminate when the standby reaches a terminal state.
Recommended Action	No action is required.

%PLATFORM-4-RELOAD_STANDBY : [chars] reload requested by [chars]. Reason [chars]

Explanation	Unexpected configuration or states mismatch between Active and Standby RPs. Reloading Standby to synchronize the configuration or states.
Recommended Action	None. This is expected behavior.

%PLATFORM-3-RF_RELOAD_PEER : Reload peer notification to chassis management failed, [chars]

Explanation	Could not notify Reload Peer to the chassis management process. The Standby peer could not be reloaded by the Active. The system will potentially not be in a fully redundant state.
Recommended Action	Reload peer instance using the available CLI commands. If system does not achieve full Standby status after that, the system must be reloaded

%PLATFORM-6-EVENT_LOG : [chars]

Explanation	An entry from the internal event log at reload on the standby RP. This is informational.
Recommended Action	No action is required.

%PLATFORM-4-BOOTVAR_NOT_SET : Boot variable is not set. Boot variable either does not exist or buffer is too small. Keeping it blank

Explanation	Boot variable either does not exist or buffer is too small. Not able to set boot variable. Ignoring it.
Recommended Action	No action is required.

%PLATFORM-3-NVRAM_OPEN_FAIL : Failed to open nvram - [chars].

Explanation	The nvram device could not be opened.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM-3-NVRAM_READ_FAIL : Failed to read nvram - [chars].

Explanation	The nvram contents could not be read.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM-3-NVRAM_WRITE_FAIL : Failed to write nvram - [chars].

Explanation	Couldn't write into the nvram device.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM-3-BACKUP_NVRAM_OPEN_FAIL : Failed to open backup nvram - [chars].

Explanation	The backup nvram device could not be opened.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM-3-BACKUP_NVRAM_READ_FAIL : Failed to read backup nvram - [chars].

Explanation	The backup nvram contents could not be read.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM-3-BACKUP_NVRAM_WRITE_FAIL : Failed to write backup nvram - [chars].

Explanation	Couldn't write into the backup nvram device.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM-6-SB_INIT_DELAY : RF progression will be suspended due to standby initialization delay configuration setting. Standby initialization will resume after [int] seconds

Explanation	An informational message about the standby initialization delay configuration. RF progression will be delayed for the configured value. Bulk-sync and other progression events will not happen until after the configured delay value
Recommended Action	No action is required.

%PLATFORM-6-SB_INIT_DELAY_END : RF progression delay timer expired. Standby initialization will now continue

Explanation	An informational message about the standby initialization delay configuration. RF progression will now continue since configured delay has expired
Recommended Action	No action is required.

%PLATFORM-4-STATS_COLLECTION : Reducing statistics collection interval for SPA ([chars]) will impact the RP control plane activity

Explanation	MIB statistics for HW counters are sent from CC to RP every 10 seconds by default, changing the timer through CLI to send more often will increase RP CPU utilization and result in sending more IPC messages between CC and RP
Recommended Action	No action is required.

%PLATFORM-1-NOSPACE : [chars] : no space alarm assert

Explanation	bootflash memory exhausted Delete the old file from boot flash to create space
Recommended Action	No action is required.

%PLATFORM-4-LOWSPACE : [chars] : low space alarm assert

Explanation	bootflash memory is very low Delete the old file from boot flash to create space
Recommended Action	No action is required.

%PLATFORM-5-LOWSPACERECOVER : [chars] : low space alarm deassert

Explanation	bootflash memory
Recommended Action	No action is required.

%PLATFORM-4-MEMORYSIZE : Active and Standby memory configuration differ by more than 1 GB. Active = %lldKB, Standby = %lldKB

Explanation	The memory configuration on both the Supervisor is different by more than 1GB. Some of the functionality which is high availability aware and dependent on the memory (like IOX) will be impacted.
Recommended Action	Please upgrade/downgrade memory configuration on both the Supervisor to match the size

%PLATFORM-4-SDM_TEMPLATE : Mismatch in SDM templates configured on Active ([chars]) and Standby ([chars]) supervisors

Explanation	The SDM template configured on the two Supervisors are different. Different SDM template would enable different sets of features on the active and standby supervisors. Table sizes configured for the common features may be different. These features will not function properly on switchover from one supervisor to another.
Recommended Action	Please configure the same SDM template on both Supervisors using 'sdm prefer <template>' configuration command, followed by a reload. Supervisors should be brought to hot-standby state and the SDM template configured such that the template gets applied to both the supervisors. Supervisors can also be brought up as standalone and SDM template configured on them one at a time followed by a reload.

%PLATFORM-3-REDMODE_FAIL : Redundancy mode: [chars] (rc [dec])

Explanation	Redundancy mode change could not be processed. This is indicative of a IPC problem between IOSd and the peer platform process.
Recommended Action	Make sure system achieves full redundant state. If not, reload entire system

%PLATFORM-5-RESETCARD : [chars] reset to acquire provisioned software

Explanation	The linecard specified was not running the currently provisioned software, which it will acquire on restart.
Recommended Action	No user action is necessary. This message indicates the system is functioning normally and is provided for informational purposes only.

PLATFORM_ACT2

%PLATFORM_ACT2-2-SUDI_VALIDATION_FAILED : Secure UDI validation failed. [chars]

Explanation	Secure UDI validation for the chassis failed. The router failed to authenticate itself
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_BRKOUT through PM

- [PLATFORM_BRKOUT](#)

- [PLATFORM_CAPABILITY](#)
- [PLATFORM_ENVIRONMENT](#)
- [PLATFORM_INFRA](#)
- [PLATFORM_MATM](#)
- [PLATFORM_POWER](#)
- [PLATFORM_SCC](#)
- [PLATFORM_TAM](#)
- [PLIM_QOS](#)
- [PM](#)

PLATFORM_BRKOUT

%PLATFORM_BRKOUT-3-BRKOUTCMD_SYNCFAILED : Failed to send Breakout command to hardware.

Explanation	A messages that was sent to the hardware module, was not delivered correctly. The failure most likely occurred because of incorrect switch number or non-existing breakout port number specified, or a software communication error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_CAPABILITY

%PLATFORM_CAPABILITY-4-INIT : Fatal Initialization Error - [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM_CAPABILITY-4-CALL : Fatal Initialization Error - [chars]

Explanation	An internal software error occurred.
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%PLATFORM_CAPABILITY-4-CALL : Fatal Initialization Error - [chars]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_ENVIRONMENT

%PLATFORM_ENVIRONMENT-1-NIM_OVER_CURRENT : NIM module in [chars] is in an over current condition [dec] [chars]. System will reset.

Explanation An over current condition has been detected in the indicated module. Remove the module causing the issue. User has ~30 seconds to remove module before the router will be shut down

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM_ENVIRONMENT-1-NIM_OVER_CURRENT_GEN : NIM module(s) in an over current condition. System will reset.

Explanation An over current condition has been detected in the indicated module. Remove the module causing the issue. User has ~30 seconds to remove module before the router will be shut down

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_INFRA

%PLATFORM_INFRA-5-IOS_INTR_OVER_LIMIT : IOS thread disabled interrupt for [int] msec

Explanation IOS thread process disabled interrupt too long

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM_INFRA-5-IOS_INTR_LIMIT_NOT_SET : IOS thread interrupt limit not set

Explanation	IOS failed to retrieve interrupt limit
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM_INFRA-5-IOS_INTR_EVENT : IOS thread interrupt event ([dec]).

Explanation	IOS thread process interrupt event
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM_INFRA-5-IOS_INTR_HISTORY : [[dec]][dec] [[dec]:[dec]] [[dec]->[dec]] ra[!* [hex] !* [hex]]

Explanation	IOS thread process interrupt history
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PLATFORM_INFRA-5-IOS_INTR_INVALID_LEVEL : IOS thread interrupt level [dec] replaced by [dec]

Explanation	An invalid IOS thread interrupt level was used
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_MATM**%PLATFORM_MATM-3-INVALID_MSG_RECEIVED : MATM received invalid SPI message.**

Explanation A messages that was to be received from the hardware module, was not received correctly. Mac address learning/ageing might be impacted as a result. The failure most likely occurred because of a software communication error.

Recommended Action LOG_STD_SH_TECH_ACTION

%PLATFORM_MATM-4-QUEUE_OVERLIMIT : MATM dropped [chars] messages as queue limit has reached.

Explanation Messages received from the hardware module were not processed because an internal queue was full. Mac address learning/aging might be impacted as a result.

Recommended Action LOG_STD_SH_TECH_ACTION

PLATFORM_POWER**%PLATFORM_POWER-6-MODEMISMATCH : [chars] power not in [chars] mode**

Explanation The mode of indicated power type is not available. This may be due to the fact that only one power supply or module of that type is present or functional in the system

Recommended Action Please verify the appropriate power supply or module is plugged in the system. 'show power', 'show platform' CLI will provide more information.

%PLATFORM_POWER-6-MODEMATCH : [chars] power is in [chars] mode

Explanation The mode of indicated power type is available.

Recommended Action No action is required.

%PLATFORM_POWER-1-UNAVAILABLE : Not enough [chars] power available for the system.

Explanation Sufficient indicated type of power is not available for the system to function properly. This is a critical issue, and system may need to be reset. Please verify that the power source is fine. Check 'show power', and 'show platform' CLI output for further information. LOG_STD_ACTION

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_SCC**%PLATFORM_SCC-1-AUTHENTICATION_FAIL : Chassis authentication failed**

Explanation	This Router may not have been manufactured by Cisco or with Cisco's authorization. This product may contain software that was copied in violation of Cisco's license terms. If your use of this product is the cause of a support issue, Cisco may deny operation of the product, support under your warranty or under a Cisco technical support program such as Smartnet. Please contact Cisco's Technical Assistance Center for more information.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

PLATFORM_TAM**%PLATFORM_TAM-2-SUDI_VALIDATION_FAILED : Secure UDI validation failed. [chars]**

Explanation	Secure UDI validation for the module failed. The module failed to authenticate itself
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

PLIM_QOS**%PLIM_QOS-3-IOSXE_RP_PLIM_QOS_FAIL : A software error while configuring the [chars] on slot [dec]**

Explanation	This error happens when IOS fails to send messages to configure the per slot qos parameters in forwarding plane
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

PM**%PM-1-INCONSISTENT_PORT_STATE : Inconsistent HW/SW port state for [chars]. Please shut/no shut the interface**

Explanation	The hardware and software port state has become inconsistent.
Recommended Action	Enter the shutdown command followed by the no shutdown command on the interface specified in the message.

%PM-2-NOMEM : Not enough memory available for [chars]

Explanation	The Port Manager subsystem could not obtain the memory it needed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_COOKIE : [chars] was detected

Explanation	An invalid request was detected by the Port Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_CARD_COOKIE : an invalid card cookie was detected

Explanation	An invalid request was detected by the Port Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_PORT_COOKIE : an invalid port cookie was detected

Explanation	An invalid request was detected by the Port Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_VLAN_COOKIE : an invalid vlan cookie was detected

Explanation	An invalid request was detected by the Port Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_CARD_SLOT : an invalid card slot ([dec]) was detected

Explanation	An invalid request was detected by the Port Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_PORT_NUMBER : an invalid port number ([dec]) was detected

Explanation	An invalid request was detected by the Port Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_VLAN_ID : an invalid vlan id ([dec]) was detected

Explanation	An invalid request was detected by the Port Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_APP_ID : an invalid application id ([dec]) was detected

Explanation	An invalid request was detected by the Port Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_APP_REQ : an invalid [chars] request by the '[chars]' application was detected

Explanation	An invalid request was detected by the Port Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-TOO_MANY_APP : application '[chars]' exceeded registration limit

Explanation	An invalid request was detected by the Port Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-ERR_DISABLE : [chars] error detected on [chars], putting [chars] in err-disable state

Explanation This is a defensive measure that will put the interface in err-disable state when it detects a mis-configuration or mis-behavior . A recovery will be attempted after the configured retry time (default 5 minutes).

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-ERR_RECOVER : Attempting to recover from [chars] err-disable state on [chars]

Explanation This is an attempt to bring the interface back after taking it down to err-disable state

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-ERR_DISABLE_VP : [chars] error detected on [chars], vlan [dec]. Putting in err-disable state.

Explanation This is a defensive measure that will put the virtual port (i.e., the port-vlan pair) in err-disable state when it detects a mis-configuration or mis-behavior. If so configured, a recovery will be attempted after the configured retry time (default 5 minutes).

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-ERR_RECOVER_VP : Attempting to recover from [chars] err-disable state on [chars], vlan [dec].

Explanation This is an attempt to bring the virtual port back after taking it down to err-disable state

%PM-4-ERR_RECOVER_VP : Attempting to recover from [chars] err-disable state on [chars], vlan [dec].

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-UNKNOWN_HOST_ACCESS : Invalid Host access value ([dec]) is received

Explanation Host access table is being accesses with an invalalid host access value

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-INVALID_HOST_ACCESS_ENTRY : Invalid Host access entry type ([dec]) is received

Explanation Host access entry should be one of configured/dynamic type

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-BAD_HA_ENTRY_EVENT : Invalid Host access entry event ([dec]) is received

Explanation Host access table is entry event is not any of add/delete/update event

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-LIMITS : The number of vlan-port instances on [chars] exceeded the recommended limit of [dec]

Explanation	The total number of individual VLAN ports, counted over the module or switch specified in the error message, has exceeded the module or switch limit specified in the error message. VLANs can be counted more than once; if VLAN 1 is carried on 10 interfaces, it will count as 10 VLAN ports. For some platforms, e.g. Catalyst 6000, bundling is also ignored for purposes of this count; if 8 interfaces on the same module are in one bundle, and the port channel is carrying VLAN 1, it will count as 8 VLAN ports.
Recommended Action	Reduce the number of trunks and VLANs configured in the module or switch specified in the error message. Keep the virtual port, VLAN port, count below the recommended limit specified in the configuration documentation. Enter the show interface trunk command to see the total number of trunks and VLANs.

%PM-3-ERR_INCOMP_PORT : [dec]/[dec] is set to inactive because [dec]/[dec] is a [chars] port

Explanation	Private host port can't be configured with trunk, private promiscuous, and span destination port on the same coil.
Recommended Action	Try to configure the incompatible ports on different coils.

%PM-4-EXT_VLAN_NOTAVAIL : VLAN [dec] not available in Port Manager

Explanation	Port Manager failed to allocate the requested VLAN. The VLAN is either used as an internal VLAN by other features or the maximum allowed extended VLANs are already configured.
Recommended Action	Try a different VLAN on the device if the limit on maximum allowed extended VLANs is not yet reached.

%PM-4-INT_VLAN_NOTAVAIL : Failed to allocate internal VLAN in Port Manager

Explanation	Port Manager failed to find any available internal VLAN
Recommended Action	Delete some extened range VLANs created by users or remove some features that require internal VLAN allocation, e.g. routed port

%PM-2-LOW_SP_MEM : Switch process available memory is less than [dec] bytes

Explanation	Switch Processor available memory dropped to a low level. Possibly too many Layer 2 VLANs are configured in the system.
Recommended Action	Removed features from the system to reduce memory usage.

%PM-4-EXT_VLAN_INUSE : VLAN [dec] currently in use by [chars]

Explanation Port Manager failed to allocate the VLAN for external use as the VLAN is currently occupied by another feature

Recommended Action Reconfigure the feature, e.g. routed port, to use another internal VLAN; Or request another available VLANs.

%PM-2-VLAN_ADD : Failed to add VLAN [dec] - [chars].

Explanation Failed in adding VLAN to VTP. The reason is stated in the string.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-6-EXT_VLAN_ADDITION : Extended VLAN is not allowed to be configured in VTP CLIENT mode.

Explanation This message will only be seen if you try to configure an extended VLAN while the switch is in VTP client mode. The configuration will fail and will not be written to the running configuration file, but otherwise switch performance and features will be unaffected.

Recommended Action This is an informational message only, no further action is required. If you need to configure an extended VLAN, you must configure the switch to leave VTP client mode.

%PM-4-NO_SUBBLOCK : No PM subblock found for [chars]

Explanation Failed to find PM subblock for this interface.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-INT_FAILUP : [chars] failed to come up. No internal VLAN available

Explanation Port Manager failed to allocate internal VLAN and thus the interface cannot come up.

%PM-4-INT_FAILUP : [chars] failed to come up. No internal VLAN available

Recommended Action Remove extended range VLAN to free up resources.

%PM-4-VMPS_CFG : Dynamic access VLAN [dec] same as voice vlan on [chars].

Explanation Access VLAN on VMPS server is set to same VLAN as voice VLAN on the port.

Recommended Action Access VLAN assignment on VMPS server should be different from voice VLAN.

%PM-4-INACTIVE : putting [chars] in inactive state because [chars]

Explanation The Port Manager has been blocked from creating a virtual port for the switch port and VLAN, causing the port to be in an inactive state. The reason for this condition is specified in the error message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-3-INTERNALERROR : Port Manager Internal Software Error ([chars]: [chars]: [dec]: [chars])

Explanation There is an internal software error encountered in the IOS Port Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-PVLAN_TYPE_CFG_ERR : Failed to set VLAN [dec] to a [chars] VLAN

Explanation Platform failed to set private vlan type.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PM-4-PORT_BOUNCED : Port [chars] was bounced by [chars].

Explanation The Port Manager needed to perform a reactivation of a port in the link down state during a switchover. A port is only reactivated when the port data structures lack consistency between the active and standby supervisors. Active ports in the link down state were returned to the link up state by the reactivation event.

Recommended Action No action is required.

%PM-4-MPLS_MTU_PORT_CFG : MPLS MTU size [dec] is not supported by port [chars].

Explanation The MPLS MTU size configured on the port is larger than the maximum MTU size that can be supported by this port. As a result, large packets can be dropped.

Recommended Action Reduce the MPLS MTU size.

%PM-4-MPLS_MTU_EC_CFG : MPLS MTU size [dec] is not supported by one or more ports in channel [chars].

Explanation The MPLS MTU size configured on the ethernet channel is larger than the maximum MTU size that can be supported by one or more ports in this channel. As a result, large packets can be dropped.

Recommended Action Reduce the MPLS MTU size, or remove these ports from the channel before increasing the MPLS MTU size.

%PM-4-PORT_INCONSISTENT : Port [chars] is inconsistent: IDB state [chars] (set %TE ago), link: [chars] (%TE ago), admin: [chars] (%TE ago).

Explanation Port Manager on Standby discovered that the port state has been inconsistent for more than 1 second. Inconsistent ports are reactivated on switchover (you will see PORT_BOUNCED message).

Recommended Action No action is required.

%PM-4-PORT_CONSISTENT : Port [chars] consistency has been restored, IDB state: [chars].

Explanation Port Manager on Standby discovered that port state became consistent again.

Recommended Action No action is required.

PMAN through PSM

- PMAN
- PMDWDWM
- PMIPV6
- POLICY_API
- POLICY_MANAGER
- PORT_SECURITY
- PRELIB_DL
- PRST_IFS
- PSD_MOD
- PSM

PMAN

%PMAN-0-PROCESS_NOTIFICATION : The process lifecycle notification component failed because [chars]

Explanation	The process lifecycle notification component failed, preventing proper detection of a process start and stop. This problem is likely the result of a software defect in the software sub-package.
Recommended Action	Note the time of the message and investigate the kernel error message logs to learn more about the problem and see if it is correctable. If the problem cannot be corrected or the logs are not helpful, copy the error message exactly as it appears on the console along with the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%PMAN-3-PROCFAILOPT : An optional process [chars] has failed (rc [dec])

Explanation	A process that does not affect the forwarding of traffic has failed.
Recommended Action	Note the time of the message and investigate the kernel error message logs to learn more about the problem. Although traffic will still be forwarded after receiving this message, certain functions on the router may be disabled as a result of this message and the error should be investigated. If the logs are not helpful or indicate a problem you cannot correct, copy the error message as it appears on the console and the output of show tech-support and provide the information to a Cisco technical support representative.

%PMAN-0-PROCFAILCRIT : A critical process [chars] has failed (rc [dec])

Explanation	A process important to the functioning of the router has failed.
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%PMAN-0-PROCFAILCRIT : A critical process [chars] has failed (rc [dec])

Recommended Action	Note the time of the message and investigate the error message logs to learn more about the problem. If the problem persists, copy the error message and the output of show platform software tech-support into a plaintext file and contact Cisco technical support with the gathered information.
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%PMAN-6-PROCSTART : The process [chars] has started

Explanation	The process has launched and is operating properly.
Recommended Action	No user action is necessary. This message is provided for informational purposes only.

%PMAN-6-PROCSHUT : The process [chars] has shutdown

Explanation	The process has gracefully shutdown.
Recommended Action	No user action is necessary. This message is provided for informational purposes only.

%PMAN-3-PROCHOLDDOWN : The process [chars] has been helldown (rc [dec])

Explanation	The process was restarted too many times with repeated failures and has been placed in the holddown state.
Recommended Action	This message will appear with other messages related to the process. Check the other messages to determine the reason for the failures and see if corrective action can be taken. If the problem persists, copy the error messages and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.

%PMAN-3-PROCFAIL : The process [chars] has failed (rc [dec])

Explanation	The process has failed as the result of an error.
Recommended Action	This message will appear with other messages related to the process. Check the other messages to determine the reason for the failures and see if corrective action can be taken. If the problem persists, copy the error messages and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.

%PMAN-3-PROCFAIL_IGNORE : [chars] process exits and failures are being ignored due to debug settings. Normal router functionality will be affected. Critical router functions like RP switchover, router reload, FRU resets, etc. may not function properly.

Explanation	A process exit or failure is being ignored due to the user-configured debug settings.
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%PMAN-3-PROCFAIL_IGNORE : [chars] process exits and failures are being ignored due to debug settings. Normal router functionality will be affected. Critical router functions like RP switchover, router reload, FRU resets, etc. may not function properly.

Recommended Action If this behavior is desired and the debug settings are set according to the user's preference, no action is needed. If the appearance of this message is viewed as a problem, change the debug settings. The router is not expected to behave normally with this debug setting. Functionality like SSO switchover, router reloads, FRU resets, etc. will be affected. This setting should only be used in a debug scenario. It is not normal to run the router with this setting

%PMAN-3-RELOAD_RP_SB_NOT_READY : Reloading: [chars]

Explanation The RP is being reloaded since there is no ready standby instance

Recommended Action Make sure this is not due to an error condition

%PMAN-3-RELOAD_RP : Reloading: [chars]

Explanation The RP is being reloaded

Recommended Action Make sure this is not due to an error condition. If it is due to an error condition, collect information requested by the other log messages

%PMAN-3-RELOAD_SYSTEM : Reloading: [chars]

Explanation The system is being reloaded

Recommended Action Make sure this is not due to an error condition. If it is due to an error condition, collect information requested by the other log messages

%PMAN-3-RPSWITCH : RP switch initiated. Critical process [chars] has failed (rc [dec])

Explanation A RP switchover has been initiated due to a critical fault

Recommended Action Make sure this is not due to an error condition. If it is due to an error condition, collect debug information like all console output and log files

%PMAN-3-PROC_BAD_EXECUTABLE : Bad executable or permission problem with process [chars]

Explanation The executable file used for the process is bad or has permission problem

Recommended Action Make sure that the named executable is replaced with correct executable

%PMAN-3-PROC_BAD_COMMAND : Non-existent executable or bad library used for process [chars]

Explanation The executable file used for the process is missing or a dependent library is bad

Recommended Action Make sure that the named executable is present and dependent libraries are good

%PMAN-3-PROC_EMPTY_EXEC_FILE : Empty executable used for process [chars]

Explanation The executable file used for the process is empty

Recommended Action Make sure that the named executable is of non-zero size

%PMAN-5-EXITACTION : Process manager is exiting: [chars]

Explanation The process manager is exiting

Recommended Action Make sure this is not due to an error condition. If it is due to an error condition, collect information requested by the other log messages

%PMAN-6-PROCSTATELESS : The process [chars] is restarting stateless

Explanation The process has requested a stateless restart.

Recommended Action No user action is necessary. This message is provided for informational purposes only.

%PMAN-3-RELOAD_FRU_IGNORED : All [chars]/[dec] reloads are being ignored. This is being done for debugging purposes and will be changed at a later time to allow the reload. Critical router functions like RP switchover, router reload, FRU resets, etc. may not function properly.

Explanation A supervisor failure is being ignored due to debugging purposes.

Recommended Action This will be removed at a later point in time

%PMAN-3-PROC_RESTART_CNT_EXCEEDED : The process [chars] restart count ([dec]) has exceeded the configured limit ([dec])

Explanation The process was restarted many times and has exceeded the configured limit.

Recommended Action This message will appear with other messages related to the process. Check the other messages to determine the reason for the failures and see if corrective action can be taken. If the problem persists, copy the error messages and the output of show platform software tech-support into a plaintext file and contact Cisco technical support.

PMDWDM

%PMDWDM-4-TCA : [chars]: [chars] [chars] [chars] value (%lld) threshold (%lld) [chars]

Explanation The specified PM FEC TCA has been declared or released

Recommended Action Recommended action is to repair the source of the alarm.

PMIPv6

%PMIPv6-5-TUNNELDELETE : Deleting the Proxy Mobile IPv6 tunnel [chars]

Explanation The PMIPv6 tunnel is being deleted.

Recommended Action If you suspect this condition contact technical support representative with the output of show tech

%PMIPv6-5-TUNNELUP : Bringing up the Proxy Mobile IPv6 tunnel [chars]

Explanation The PMIPv6 tunnel is being deleted.

Recommended Action If you suspect this condition contact technical support representative with the output of show tech

POLICY_API

%POLICY_API-4-POLICYOVERRIDE : Dynamic policy overriding static on intf:[chars]

Explanation Static policy and dynamic policy are configured on the interface. The dynamic policy will override the static policy.

Recommended Action Remove the static policy config if desired.

%POLICY_API-4-POLICYSTATICCLR : Static policy on intf:[chars] cleared. Dynamic policy in use.

Explanation A dynamic policy was overriding the static policy. Static policy has been cleared.

Recommended Action No action required.

%POLICY_API-4-POLICYDYNCLR : Dynamic policy on intf:[chars] cleared. Static policy in use.

Explanation A dynamic policy was overriding the static policy. The dynamic policy has been cleared, the static policy is now in effect.

Recommended Action No action required.

%POLICY_API-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation Initialization of the specified subblock data structure could not be accomplished.

Recommended Action

POLICY_MANAGER

%POLICY_MANAGER-2-INIT_FAILURE : Init failure: [chars]

Explanation A problem occurred in the Policy Manager during initialization

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-3-PRE_INIT_CALL : Policy Manager routine called prior to initialization

Explanation The Policy Manager component was called prior to initialization. This could result in vital information being lost.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-2-NO_FREE_EVENT_BUFFERS : Event pool depleted: [chars]

Explanation The event pool has been depleted. There are no free buffers to process event

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-3-INVALID_SEVERITY : Invalid event severity [hex]

Explanation The event that was received by the Policy Manager contained an invalid severity and was therefore not processed.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-3-NULL_ACTION_ROUTINE : NULL action routine invoked

Explanation	The Policy Manager attempted to invoke an action which was NULL
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-3-INVALID_ACTION : Invalid action

Explanation	An invalid Policy Manager action was detected.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-3-INVALID_PARAMETERS : A call to Policy Manager is made with invalid parameters

Explanation	A call to Policy Manager was made with one or more invalid parameters
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%POLICY_MANAGER-3-NO_FREE_POLICY_IDS : No more Policy IDs available

Explanation	There are no more Policy IDs that can be allocated. The effect of this is that Policy Manager policies can no longer be created.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

PORT_SECURITY

%PORT_SECURITY-2-PSECURE_VIOLATION : Security violation occurred, caused by MAC address [enet] on port [chars].

Explanation	An unauthorized device attempted to connect on a secure port. The MAC address of the unauthorized device and the secure port are specified in the error message.
Recommended Action	Determine the device that attempted to connect on the secure port. Notify your network system administrator of this condition.

%PORT_SECURITY-2-PSECURE_VIOLATION_VLAN : Security violation on port [chars] due to MAC address [enet] on VLAN [dec]

Explanation An unauthorized device attempted to connect on a secure trunk port. The MAC address of the unauthorized device and the secure trunk and VLAN are specified in the error message.

Recommended Action Determine the device that attempted to connect via the secure trunk port. Notify your network system administrator of this condition.

%PORT_SECURITY-6-VLAN_REMOVED : VLAN [int] is no longer allowed on port [chars]. Its port security configuration has been removed.

Explanation A configured VLAN has been excluded either due to port mode change or allowed VLAN list change and is removed from the configuration.

Recommended Action No action is required.

%PORT_SECURITY-6-ADDR_REMOVED : Address <[int]:[enet]> exists on port [chars]. It has been removed from port [chars].

Explanation A routed port has changed to a switched port. An address stored in the previous switched port configuration is now in conflict and has been deleted.

Recommended Action No action is required.

%PORT_SECURITY-6-VLAN_FULL : Vlan [int] on port [chars] has reached its limit. Address [enet] has been removed.

Explanation The voice VLAN has become the same as the access VLAN, but the number of addresses allowed on the access VLAN has been reached, so the address has been deleted.

Recommended Action No action is required.

%PORT_SECURITY-6-ADDRESSES_REMOVED : Maximum system secure address count reached. Some secure addresses configured on port [chars] removed.

Explanation Some configured and sticky MAC addresses on the specified port were removed from the configuration. The number of secure addresses that the system supports was exceeded. This condition occurs only during hot swapping or port-mode changes (for example, when the port is converted from a L3 to a L2 port).

Recommended Action

%PORT_SECURITY-6-ADDR_ADDFAIL : Address <[int]:[enet]> could not be added to [chars] due to [chars].

Explanation In some rare cases MAC addresses are learnt before all software modules finished initialization and fully functional. In such cases this address may not be known to all modules in the system.

Recommended Action No action is required.

PRELIB_DL

%PRELIB_DL-3-UNREGISTERED_DLOPEN : Unregistered request to dlopen library [chars]

Explanation The program is attempting to dynamically open a library that has not been explicitly listed on its list of dynamically opened libraries. This represents a potential security threat as well as creates potential run-time instabilities

Recommended Action File a DDTS against the listed program to register the library in question. If this was an unexpected call to dlopen then the source of the call should be root-caused and closed

PRST_IFS

%PRST_IFS-3-GENERAL : persistent media IFS general error: [chars]

Explanation Persistent media module (file system) general error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PRST_IFS-3-FILE : persistent media IFS file error: [chars]

Explanation Persistent media module (file system) file error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PRST_IFS-3-FILEMEM : No memory to update [chars]. Please free some space

Explanation	There is no filesystem memory for the system to write an updated version of the persistent variable file.
Recommended Action	Please free space on the filesystem shown in the error message as soon as possible. This will involve deleting existing files, and/or squeezing the filesystem if the filesystem requires it (bootflash for example may require it).

PSD_MOD

%PSD_MOD-5-DMI_NOTIFY_USER :

Explanation	An informational message from psd_mod
Recommended Action	Not applicable

%PSD_MOD-5-DMI_NOTIFY_RESTARTING :

Explanation	A specific informational message from psd_mod
Recommended Action	Not applicable

%PSD_MOD-5-DMI_NOTIFY_NETCONF_START :

Explanation	A specific informational message from psd_mod
Recommended Action	Not applicable

%PSD_MOD-5-DMI_NOTIFY_NETCONF_STOP :

Explanation	A specific informational message from psd_mod
Recommended Action	Not applicable

%PSD_MOD-5-DMI_NOTIFY_RESTCONF_START :

Explanation	A specific informational message from psd_mod
Recommended Action	Not applicable

%PSD_MOD-5-DMI_NOTIFY_RESTCONF_STOP :

Explanation	A specific informational message from psd_mod
Recommended Action	Not applicable

%PSD_MOD-3-DMI_FILE_CREATE_FAIL :

Explanation	An error has occurred when attempting to create a file.
Recommended Action	Log a message

%PSD_MOD-3-DMI_DIR_CREATE_FAIL :

Explanation	An error has occurred when attempting to create a directory.
Recommended Action	Log a message

%PSD_MOD-3-DMI_FILE_DELETE_FAIL :

Explanation	An error has occurred when attempting to delete a file.
Recommended Action	Log a message

%PSD_MOD-3-DMI_DIR_DELETE_FAIL :

Explanation	An error has occurred when attempting to delete a directory.
Recommended Action	Log a message

PSM

%PSM-3-BADLABELADD : Cannot add label - [chars].

Explanation	Unable to create label due to reason given.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PSM-3-NOOCE : Attempt to get labels from OCE failed - [chars].

Explanation	Calling function has provided insufficient information to get labels.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PSM-3-NONIPINFO : Non-ip info: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PSM-3-CHUNK : [chars]: [chars] [hex] [hex]

Explanation	Parameterized Chunk Manager error occurred
Recommended Action	Refer to the Bug Navigator at www.cisco.com to see if this condition has been previously reported and resolved in a later release. If not, gather the output of show version , show running-config and show process memory and contact your Cisco technical support representative.

%PSM-3-INVALIDPARAM : Invalid parameter - [chars]

Explanation	Calling function has passed an invalid parameter.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%PSM-3-NORESOURCE : [chars] [dec]

Explanation	Resource Failure: %s %d
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%PSM-3-NORESOURCE : [chars] [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%PSM-3-ISSU_REG : ISSU client [chars] ([dec]), entity [dec], failed ISSU registration: [chars]

Explanation	ISSU negotiation failed for this XDR client.
Recommended Action	This error indicates a coding problem. It is an error that will occur every time this image is run, and requires a code change to fix it.

%PSM-3-L2_PATH : [chars] - path set [hex]([IPV6 address]), path [chars]

Explanation	Internal error while processing layer 2 path.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

PT through RCMD

- PT
- PW
- QFP_MLP
- QLLC
- QOS
- RAC
- RADIUS
- RADIX
- RADPROXY
- RCMD

PT

%PT-3-BADSCOOPERATION : Invalid [chars] of subcommand [dec] on ruleset %S.

Explanation An internal software error occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

%PT-3-BADRULEUNLOCK : Invalid unlock on ruleset %S, [chars].

Explanation An internal software error occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

%PT-3-BADRULEDELETE : Error deleting ruleset %S, [chars].

Explanation An internal software error occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

%PT-3-NOOPERATION : No [chars] operation defined for [chars] parameter [chars].

Explanation An internal data consistency error has been detected.

Recommended Action Call your technical support representative for assistance.

%PT-6-INVOPERATION : An invalid [chars] operation defined for [chars] parameter [chars].

Explanation An internal data consistency error has been detected.

Recommended Action This is an internal verification message, and doesn't affect operation, but notify your technical support representative that this image has this problem.

%PT-4-RULESETWRITER : PT ruleset %S evaluation skipped; ruleset is being modified.

Explanation An incoming connection attempt was not evaluated by the identified PT ruleset because that ruleset is in the process of being modified.

Recommended Action The editing of the ruleset must be completed before it's eligible to process an incoming connection attempt.

%PT-3-PARAMEVALERR : PT ruleset %S parameter error in [chars] line [dec]; [chars] [dec].

Explanation	A parameter evaluation error was detected for the specified ruleset, operation and line.
Recommended Action	Call your technical support representative for assistance.

%PT-3-PARAMRESULTERR : PT ruleset %S protocol [chars] parameter [chars] parse error: [chars].

Explanation	The final value of a ruleset's protocol/parameter string could not be decoded.
Recommended Action	Review the ruleset elements that set the parameter value to determine if they need to be modified to generate a valid result.

%PT-3-PARAMRESULTINVALID : PT ruleset %S protocol [chars] parameter [chars] invalid: [chars].

Explanation	The value of a ruleset's protocol/parameter is not valid.
Recommended Action	Review the ruleset elements that set the parameter value to determine if they need to be modified to generate a valid result.

%PT-4-PARAMCHANGED : PT ruleset %S: [chars] parameter [chars] changed; [chars].

Explanation	A protocol parameter value, generated by a ruleset, was modified to be valid for protocol translation operation.
Recommended Action	Review the ruleset processing for the identified parameter to determine if it needs to be modified to generate a value that is, for example, within the range of values supported for PT.

%PT-6-RULESETLIMIT : Ruleset [chars] refused an incoming connection due to the max-user limit.

Explanation	An incoming connection attempt that would normally be processed by a Protocol Translation ruleset has been refused because of the ruleset's configured max-user limit.
Recommended Action	The network administrator may need to verify that the ruleset max-user limit is appropriate.

%PT-6-RULESETACCESS : Ruleset [chars] refused an incoming connection due to the access-class.

Explanation	An incoming connection attempt that was matched by a Protocol Translation ruleset has been refused because the source address failed the ruleset's configured access-class test.
Recommended Action	The network administrator may need to verify that the ruleset access-class configuration is appropriate.

PW**%PW-3-IPC_ALLOC_FAILED : [chars]**

Explanation	Allocation of an IPC packet buffer by the pseudo wired feature failed.
Recommended Action	LOG_STD_ACTION

%PW-3-IPC_SEND_FAILED : [chars]

Explanation	Transmission of an IPC message by the pseudo wire feature failed.
Recommended Action	LOG_STD_ACTION

QFP_MLP**%QFP_MLP-2-BQS_SCRATCH_TOOSMALL : QFP BQS Scratch area too small for MLP feature usage (size: [dec], need: [dec]).**

Explanation	Cisco internal software error. QFP MLP initialization detected that the BQS scratch memory area is insufficient for MLP usage. The MLP Bundle interfaces will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-2-PROXY_IPC_INIT_FAILED : QFP MLP Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP MLP initialization detected that the Proxy IPC interface initialization failed. The MLP Bundle interfaces will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-INV_PROXY_MSG : QFP MLP Proxy received invalid Message ID [dec]

Explanation Cisco internal software error. QFP MLP Proxy received an invalid Message ID. This message will be ignored.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_RX_TX_INTF_VALUE : QFP MLP Proxy ([chars] [chars]) invalid Rx/Tx interface value [dec] for interface [dec] (handle)

Explanation Cisco internal software error. QFP MLP Proxy was unable to complete the requested MLP Bundle state change or configuration update due to an invalid interface Rx/Tx designation in the proxy request. The associated MLP Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_NULL_BUNDLE : QFP MLP Proxy ([chars] [chars]) NULL Bundle sub-block for interface [dec] (handle)

Explanation Cisco internal software error. QFP MLP Proxy was unable to complete the requested MLP Bundle state change or configuration update due to an invalid or uninitialized Bundle sub-block. The associated MLP Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_NULL_LINK : QFP MLP Proxy ([chars] [chars]) NULL Member Link sub-block for interface [dec] (handle)

Explanation Cisco internal software error. QFP MLP Proxy was unable to complete the requested MLP Member Link state change or configuration update due to an invalid or uninitialized Member Link sub-block. The associated MLP Member Link interface may not be fully functional as a result of this condition.

%QFP_MLP-3-PROXY_NULL_LINK : QFP MLP Proxy ([chars] [chars]) NULL Member Link sub-block for interface [dec] (handle)

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_BUNDLE_STATE : QFP MLP Proxy ([chars] [chars]) invalid Bundle state [chars] ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP MLP Proxy message could not be processed due to the MLP Bundle being in an incorrect state to accept the message. The associated MLP Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_LINK_STATE : QFP MLP Proxy ([chars] [chars]) invalid Link state [chars] ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP MLP Proxy message could not be processed due to the MLP Link being in an incorrect state to accept the message. The associated MLP Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_SUB_DEV_ID : QFP MLP Proxy ([chars] [chars]) invalid Sub-Device ID [dec] for interface [chars]

Explanation Cisco internal software error. QFP MLP Proxy message Bundle Add could not be processed for the indicated interface due to an invalid Sub-Device ID. The associated MLP Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_LINK_ID : QFP MLP Proxy ([chars] [chars]) invalid Link ID [dec] for interface [chars]

Explanation	Cisco internal software error. QFP MLP Proxy message Link Add could not be processed for the indicated interface due to an invalid Link ID. The associated MLP Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_DUP_LINK_ID : QFP MLP Proxy ([chars] [chars]) duplicate Link ID [dec] for interface [chars] and [chars]

Explanation	Cisco internal software error. QFP MLP Proxy message Link Add could not be processed for the indicated interface due use of a given Link ID on multiple member links within the same MLP Bundle. The associated MLP Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_CLASS_INFO : QFP MLP Proxy ([chars] [chars]) invalid Class Info (Base: [hex], Num: [dec]) for interface [chars]

Explanation	Cisco internal software error. QFP MLP Proxy message contained invalid MLP Class information. The associated MLP Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_MRRU : QFP MLP Proxy ([chars] [chars]) invalid MRRU [dec] for interface [chars]

Explanation	Cisco internal software error. QFP MLP Proxy message contained an invalid MLP Bundle MRRU. The associated MLP Bundle interface may not be fully functional as a result of this condition. Possible workaround is to reduce the interface mtu on the Multilink bundle interface on both ends of the connection to 9216 or less and then shut/no shut the Multilink bundle interface to force renegotiation of the MLP MRRU.
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%QFP_MLP-3-PROXY_INV_MRRU : QFP MLP Proxy ([chars] [chars]) invalid MRRU [dec] for interface [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_LOST_FRAG_TO : QFP MLP Proxy ([chars] [chars]) indicated an invalid lost fragment timeout ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP MLP was provided a invalid lost fragment timeout value. The associated MLP Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_BUFFER_LIMIT : QFP MLP Proxy ([chars] [chars]) indicated an invalid Rx buffer limit ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP MLP was provided a invalid Rx buffer limit value. The associated MLP Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_TX_LINK_WEIGHT : QFP MLP Proxy ([chars] [chars]) indicated an invalid Tx Link weight ([dec]) for interface [chars]

Explanation Cisco internal software error. QFP MLP Proxy message contained invalid Tx Link weight information. The associated MLP Member Link and/or Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_INV_TX_LINK_FRAG_SIZE : QFP MLP Proxy ([chars] [chars]) indicated an invalid Tx Link optimal fragment size ([dec]) for interface [chars]

Explanation	Cisco internal software error. QFP MLP Proxy message contained invalid Tx Link optimal fragment size information. The associated MLP Member Link and/or Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_B_TX_IDLE_LINK_TRANSITION : QFP MLP Proxy ([chars] [chars]) invalid Bundle state [chars] ([dec]) for interface [chars]/[chars]

Explanation	Cisco internal software error. Multilink Idle-Link transition could not be made due invalid Bundle state at the time of the request. The associated MLP Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_LAI_TX_IDLE_LINK_TRANSITION : QFP MLP Proxy ([chars] [chars]) invalid Link state [chars] ([dec]) for interface [chars]/[chars]

Explanation	Cisco internal software error. Multilink Idle-Link transition could not be made due invalid Link state at the time of the request to convert the link to an Idle-Link. The associated MLP Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_LIA_TX_IDLE_LINK_TRANSITION : QFP MLP Proxy ([chars] [chars]) invalid Link state [chars] ([dec]) for interface [chars]/[chars]

Explanation	Cisco internal software error. Multilink Idle-Link transition could not be made due invalid Link state at the time of the request to convert the Idle-Link to an active link. The associated MLP Bundle interface may not be fully functional as a result of this condition.
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%QFP_MLP-3-PROXY_LIA_TX_IDLE_LINK_TRANSITION : QFP MLP Proxy ([chars] [chars]) invalid Link state [chars] ([dec]) for interface [chars]/[chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-4-PROXY_SYNC : QFP MLP Proxy ([chars] [chars]) Bundle/Link sync issue with interface [chars]

Explanation Cisco internal software error. QFP MLP Proxy message processing detected a Bundle-Link state synchronization abnormality. This condition should be cosmetic. Full context of the message will aid in problem isolation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_IPC_ALLOC_FAIL : QFP MLP Proxy ([chars]) response lost due to buffer allocation failure (Interface [chars])

Explanation Cisco internal software error. QFP MLP Proxy message processing detected a IPC buffer allocation failure during response processing. The associated MLP interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-4-PROXY_IPC_ALLOC_FAIL2 : QFP MLP Proxy ([chars]) response lost due to buffer allocation failure (Interface [chars])

Explanation Cisco internal software error. QFP MLP Proxy message processing detected a IPC buffer allocation failure during proxy response processing. The associated MLP functionality may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_SID_UPDATE_LOCK_ERROR : QFP MLP Proxy ([chars]) Multiple SID Update Locks to same interface (Interface [chars], SID: [hex])

Explanation	Cisco internal software error. QFP MLP Proxy message processing detected a Bundle Schedule SID update sequence error. One or more interface schedules could have been affected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-PROXY_SID_UPDATE_COMPLETE_ERROR : QFP MLP Proxy ([chars]) SID Update Complete w/o Preceeding Lock (Interface [chars], SID: [hex])

Explanation	Cisco internal software error. QFP MLP Proxy message processing detected a Bundle Schedule SID update sequence error. One or more interface schedules could have been affected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-EARLY_RX_INIT : QFP MLP Early Receive initialization error ([chars])

Explanation	Cisco internal software error. Multilink Early Receive initialization could not be performed due to indicated error. This could cause possible lost MLP encapsulated packets during member link/bundle bringup and possibly cause the failure to complete member link/bundle initialization.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-EARLY_RX_CLEANUP : QFP MLP Early Receive cleanup error ([chars])

Explanation	Cisco internal software error. Multilink Early Receive cleanup could not be performed due to indicated error. This could cause possible QFP memory leak.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-MCMP_TX_ENCAP_SEQ_CFG_ERROR : MLP QoS encap-sequence ([dec]) must be less than the number of MCMP suspension classes ([dec]) for output interface [chars], MSGDEF_LIMIT_SLOW

Explanation User software configuration mismatch with PPP Multilink Multiclass (MCMP). User needs to either reduce the highest encap-sequence in the policy-map to be less than the number of negotiated MCMP suspension classes or increase the number of suspension classes negotiated with the peer.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-MCMP_INVALID_RX_CLASS : MLP MCMP suspension class ID ([dec]) received from the peer must be less than the number of negotiated classes ([dec]) for interface [chars] (Peer error), MSGDEF_LIMIT_SLOW

Explanation Possible error on the peer device with PPP Multilink Multiclass (MCMP). Received MLP packet contained a MCMP suspension class ID greater than the number of negotiated suspension classes.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-4-TX_BUNDLE_FLOUED_OFF : QFP MLP Tx Bundle [chars] flowed OFF for an abnormal duration due to one or more congested member link(s) (Ticks: [dec])

Explanation Possible Cisco internal software or hardware error. QFP MLP Tx processing detected that a MLP Bundle interface was flowed off for an extended period of time due to a congested member link queue. The associated MLP Bundle interface may not be fully functional as a result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-4-TX_BUNDLE_FLOVED_ON : QFP MLP Tx Bundle [chars] flowed ON after being flowed OFF for an abnormal duration (Ticks: [dec])

Explanation	Possible Cisco internal software or hardware error. QFP MLP Tx processing detected that a MLP Bundle interface was flowed off for an extended period of time due to a congested member link queue. The associated MLP Bundle interface may not be fully functional as a result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-3-MLP_INVALID_EVSI_INTF_STATE : MLP Link Add/Update received with invalid EVSI indication for Member Link: [chars], Bundle: [chars]

Explanation	Either the user attempted to mix broadband and non-broadband member links on the same bundle or an internal error has occurred processing a configuration update.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QFP_MLP-4-TX_BUNDLE_LOOP : QFP detected re-entry into MLP Tx Bundle [chars]), MSGDEF_LIMIT_SLOW

Explanation	Possible software configuration error in the network that causes re-entry of packets into the MLP Tx bundle. Packets are being discarded and the bundle will not be fully operational until the loop is terminated
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

QLLC

%QLLC-3-NOMEM : Not enough memory available

Explanation	There is not enough memory in the system to complete this request.
Recommended Action	Add more memory to the router. Otherwise, reduce the configuration or the load on the router.

%QLLC-3-NO LLC2 : Unable to open an llc2 session

Explanation	An LLC2 session could not be established with the destination MAC address.
Recommended Action	Verify that the qlc partner statement in the configuration file is correct, and that the partner is on the desired LAN.

%QLLC-3-NULLPTR : [chars] ptr is null

Explanation	The specified structure was not configured.
Recommended Action	Confirm the configuration commands for the structure.

%QLLC-4-NOQLLC : Unable to open qlc session, current state is [chars]

Explanation	A QLLC session could not be established.
Recommended Action	Verify that the qlc partner and the qlc xid commands are correct.

%QLLC-3-DIFFPRTR : [enet] - Different partner - originally [enet] - now [enet]

Explanation	The partner for this QLLC virtual MAC address does not match the MAC address that was defined with the qlc partner command.
Recommended Action	Verify that the qlc partner statement in the configuration file is correct.

%QLLC-3-NONULLXID : Couldn't make null xid - [enet] -[enet]

Explanation	An attempt to create an IEEE XID failed.
Recommended Action	Verify that the qlc partner statement in the configuration file is correct, and that the partner is on the desired LAN.

%QLLC-3-NOXID2 : Couldn't make xid - [enet] -[enet]

Explanation	The QLLC XID could not be forwarded to the LAN.
Recommended Action	Verify that the qlc partner and the qlc xid commands are correct.

%QLLC-3-BADSTATE : Bad qlc state - [chars] - [enet]

Explanation	An invalid LLC primitive was detected.
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%QLLC-3-BADSTATE : Bad qllc state - [chars] - [enet]

Recommended Action Verify that the Token Ring ports and any participating LAN devices are configured correctly.

%QLLC-3-NOMACADDR : No lnx entry for macaddr [enet]

Explanation No virtual MAC address was defined for this interface.

Recommended Action Define the virtual MAC address, using either the x25 map qlc or the x25 pvc qlc command.

%QLLC-3-BADOPCODE : Opcode [chars] is invalid

Explanation Either remote source-route bridging or local acknowledgment is configured incorrectly.

Recommended Action Verify that remote source-route bridging and local acknowledgment are configured correctly.

%QLLC-3-IFRAME : [chars]

Explanation An I-Frame was discarded due to network congestion.

Recommended Action Verify that the LAN is not beaconing and that it is not in a congested state. Copy the error message exactly as it appears, and report it to your technical support representative.

%QLLC-3-BADSTATEEVENT : Bad qllc state - [chars] event - [chars] macaddr - [enet]

Explanation The LLC primitive specified placed the router in an invalid state.

Recommended Action Verify that the Token Ring ports and any participating LAN devices are configured correctly.

%QLLC-3-NOPAKENQ : Pak enqueue failed

Explanation A packet was not sent to the LAN.

Recommended Action Verify that the LAN partner is configured correctly, and that the partner is on the desired LAN.

%QLLC-3-BADRSRBOPCODE : Bad opcode [hex] from [enet] to [enet]

Explanation Either remote source-route bridging is incorrectly configured, or the other RSRB device is down.

%QLLC-3-BADRSRBOPCODE : Bad opcode [hex] from [enet] to [enet]

Recommended Action	Verify that remote source-route bridging is configured correctly with the right version of the IOS software.
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%QLLC-3-LNXNOTFOUND : lnx_remove_macaddr_hash did not find target lnx

Explanation	The qlc srb command was not defined for this interface.
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Recommended Action	Add a valid qlc srb statement for this serial interface.
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%QLLC-3-BADQLLCSTATE : Bad qlc state - [chars]

Explanation	An invalid QLLC primitive was detected.
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Recommended Action	Verify that the partner QLLC device is configured correctly.
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%QLLC-3-GENERRMSG : [chars]

Explanation	The text string provided with this error message describes the specific QLLC problem.
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Recommended Action	Follow the instructions that appear with the error message. Copy the error message exactly as it appears, and report it to your technical support representative.
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%QLLC-3-BAD_XID : Sna configuration error for [enet]: Lan device is PU2.1, X.25 device is PU2.0 (XID Format 1)

Explanation	The IBM Gateway (3172) or front-end processor on the LAN is sending XID Format 3 which is used to communicate with PU2.1 devices. The X.25 device is a PU2.0 (3174) that is configured to send XID Format 1 messages. This is a very rare situation - for example, Revision A5.6 on, and C5.1 on the 3172. A likely cause is that the revision levels on the IBM equipment are incompatible.
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Recommended Action	Check the revision levels on the external equipment, and upgrade them if necessary.
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%QLLC-3-NO_QLLCBUFFER : M bit Reassembly failed - couldn't allocate a packet

Explanation	The router ran out of memory to allocate buffers.
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Recommended Action	Make sure that the router configuration is adequate for the service expected of it. You might want to tune the buffer pools, or upgrade to a larger router. At the very least, you will need more memory.
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%QLLC-3-INCALL_CFG : Incoming call: No QLLC Service Access Point Configured for x.25 subaddress [chars]

Explanation A remote X.25 device is calling the router for QLLC service using a subaddress that was not configured by the X.25 routing facility. The subaddress was not configured for QLLC service.

Recommended Action Correct the QLLC configuration. Configure only the subaddress on the QLLC service, not the complete X.121 address that the remote X.25 device uses.

%QLLC-3-INCALL_NO_PARTNER : Incoming call: No partner Mac Address configured - X.25 subaddress [chars]

Explanation There is an incoming call, but a connection cannot be initiated to a partner since no partner is configured in a qlc dlsw command (for QLLC/DLSw+ only).

Recommended Action Configure a partner for the incoming calling (such as using the qlc dlsw partner command).

%QLLC-3-PARTNER_MISMATCH : Outgoing call: Partner Mac Address [enet] doesn't match configured partner [enet]

Explanation A device tried to connect to a QLLC VMAC (from Token Ring, for instance), but the MAC address of that device does not match the partner in the qlc dlsw command.

Recommended Action Correct the QLLC configuration to match the right partner.

%QLLC-3-QLLCMAP_ERR : Incoming call: QLLC map entry not found

Explanation A software error in the router code occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%QLLC-3-NO_QSR : No QLLC Service Access Points defined

Explanation No QLLC services have been configured, even though the router will accept incoming calls for QLLC.

Recommended Action Configure the QLLC service required.

%QLLC-3-NO_RESOURCE : Incoming Call: Insufficient resources available

Explanation This message is reporting insufficient system memory.

%QLLC-3-NO_RESOURCE : Incoming Call: Insufficient resources available

Recommended Action Upgrade the memory.

QOS

%QOS-3-DETACH : Failed to detach [chars] [chars] service policy

Explanation The specified type of service policy has failed to detach itself from the attachment point indicated. The service policy will remain attached although repeated attempts to remove such should fail in a similar manner.

Recommended Action LOG_STD_SH_CMD_ACTION(show policy-map [type] <attachment point>)

%QOS-4-SERV_FRAG_POLICY : service-policy [chars] can't be attached without corresponding service-fragment policy on appropriate target first

Explanation For a fragment policy that is being installed check if parent targets have relevant service-fragment class installed. If not then we can not allow fragment policy installation.

Recommended Action Check the parent target to add relevant service-fragment class.

%QOS-6-SUSPEND : Suspending service policy [chars] on [chars] in [chars] direction

Explanation The interface bandwidth is less than the total bandwidth that is required for QoS policy on this interface.

Recommended Action There is no user action required.

%QOS-3-TARGET_INDEX : [chars] [chars] service policy attachment failed to assign index

Explanation The configuration of a service policy has resulted in the failure to generate an internal unique identifier which represents the attachment point (target) of the associated policy map. This is an internal software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-UNASSIGNED : A [chars] event resulted in an (un)assigned index for [chars] [chars]

Explanation	The configuration of either the addition or removal of the specified entity has resulted in the failure to either assign or remove a previously assigned index from such. This is an internal software error and indicates an out of sync condition if operating in a redundant manner
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-ISSU_GTP_CFG_ENHANCE : GTP-AIC configuration has been detected, which is totally different with peer. Delete all GTP-AIC related config to proceed with ISSU/ISSD. After ISSU/ISSD done, config GTP-AIC again.

Explanation	PEER GTP-AIC configuration would be messed up.
Recommended Action	Manually remove all GTP-AIC configuration and reinitiate ISSU/ISSD.

%QOS-6-POLICY_INST_FAILED : Service policy installation failed on [chars]. [chars]. policy:[chars], dir:[chars], ptype:[chars], ctype:[chars]

Explanation	Service policy could not be installed
Recommended Action	This is an informational message only. No action is required.

%QOS-6-POLICY_REM_FAILED : Service policy remove failed on [chars] policy:[chars], dir:[chars], ptype:[chars], ctype:[chars]

Explanation	Service policy could not be removed
Recommended Action	This is an informational message only. No action is required.

%QOS-3-INVALID_PLTYPE : No entry found for pltype : [int] in global service_policy_queue during service-policy deletion.

Explanation	No entry was found for a pltype when un-queue of a service-policy from global service_policy_queue was undergoing. This will result in freeing a service-policy without un-queuing it from global service_policy_queue.
Recommended Action	Need to figure out why there was no entry found for a pltype in the global service_policy_queue when passed with a service-policy while deletion. check the traceback for details

%QOS-3-HA_COLLISION_INVALID : Received collision table of type [int]

Explanation The specified type of collision is an invalid value which indicates that the message received on the standby RP contains erroneous data. This is an internal software error which should result in a reload of the standby RP so that the bulk sync of configuration can be sent once more by the active RP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-HA_COLLISION_SIZE : Received [chars] message, total/unit [int]/[int] [chars]

Explanation The specified type of collision table has been determined to contain a discrepancy between the total message size and the individual table unit that is being decoded on the standby RP. This is an internal software error which should result in a reload of the standby RP so that the bulk sync of configuration can be sent once more by the active RP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-HA_COLLISION_STRING : Received [chars] message, length [int] for string [chars]

Explanation The specified type of collision table contains an individual unit within the message which has an incorrectly encoded string which is used to represent the collision which is being synced from the active RP. This is an internal software error which should result in a reload of the standby RP so that the bulk sync of configuration can be sent once more by the active RP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-COLLISION_TYPE : Type [int] is invalid for collision [chars]

Explanation The specified type of collision is an invalid value which indicates that there is no support for the generation of an internal identifier. This is an internal software error.

%QOS-3-COLLISION_TYPE : Type [int] is invalid for collision [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%QOS-3-COLLISION_DELETE : [chars] unable to remove index [hex]

Explanation	The specified type of collision is unable to removed the specified index. This is an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-COLLISION_COUNT : [chars] mismatch, count [int]

Explanation	The specified type of collision has detected that although there are no collisions present the count of such indicates otherwise. This is an internal software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-6-COLLISION_MAX : Maximum number of collision entries, [int], reached

Explanation	The system limit on the number of collision entries used in assigning unique identifiers for policy and class maps et al. has been reached. This indicates that no further configuration of entities which require additional generation of a unique identifier will be possible.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-INDEX_EXISTS : [chars] attempt to add index [hex] [chars]

Explanation	The specified entity is unable to add an entry due to the detection of an existing entry with the same index or name. This is an internal software error.
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%QOS-3-INDEX_EXISTS : [chars] attempt to add index [hex] [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show cce cp id [collisions]** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-INDEX_DELETE : [chars] unable to remove index [hex]

Explanation The specified entity is unable to removed the specified index. This is an internal software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-BLT_INDEX : Failed to assign index for target/policy/class/action [int]/[int]/[int]/[chars]

Explanation The configuration of queuing has resulted in the failure to generate an internal unique identifier which represents the queue. This is an internal software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-6-RELOAD : [chars], reloading [chars]

Explanation A synchronization attempt between the active and standby RP peers has failed with the reason indicated. The standby peer is reloaded in an attempt to resynchronize when operating in a stateful redundant mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-4-INVALIDBW : interface [chars]: Not enough bandwidth to configure service-policy

Explanation	The issued interface bandwidth is less than the total bandwidth that is required for QoS policy on this interface.
Recommended Action	Reconfigure the service policy for the new issued bandwidth on the interface, or increase the issued interface bandwidth to the required value. There is no user action required.

%QOS-6-ACTIVATE : Activating service policy [chars] on [chars] in [chars] direction

Explanation	The interface bandwidth is more than the total bandwidth that is required for QoS policy on this interface.
Recommended Action	There is no user action required.

%QOS-6-NON_AGG_WRED : ATM SPA doesn't support true non-aggregate WRED. All non-specified dscp/prec values will be aggregated in default WRED profile

Explanation	ATM SPA has limited hardware capability which is not enough to support traditional WRED. ATM SPA would support 'limited' non-aggregate WRED for the specified dscp/prec values (maximum of 6) and the rest non-specified dscp/prec colors will go to default WRED profile.
Recommended Action	There is no user action required.

%QOS-6-ACTIVATE_NOHW : Activating service policy [chars] in [chars] direction

Explanation	
Recommended Action	

%QOS-3-HA_GET_ARG_NUM : [chars] Failure in getting event identification

Explanation	QoS configuration can't be synced to the standby
Recommended Action	Contact your Cisco technical support representative.

%QOS-3-HA_BULK_SYNC : [chars] Failure in completing bulk sync

Explanation	QoS configuration can't be synced to the standby
Recommended Action	Contact your Cisco technical support representative.

%QOS-3-HA_BULK_SYNC_BEFORE_TIMEOUT : [chars] Failure in completing bulk sync before timeout

Explanation QoS configuration can't be synced to the standby The interface bandwidth is more than the total bandwidth that is required for QoS policy on this interface.

Recommended Action Contact your Cisco technical support representative. There is no user action required.

%QOS-3-HA_MISMATCH : Bulk sync failed for [chars] collisions, space available [int], buffer [int]

Explanation A synchronization attempt between the active and standby RP peers has failed due to the detection of a mismatch in the source and destination sizes of a buffer used in the transport of the collision information to the standby RP. This is an internal software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-ISSU_COMP : Failed to exchange capability with peer

Explanation The attempt to negotiate version capabilities and the exchange of the peer support has failed. This indicates that QoS is unable to support a redundant operation with the standby RP peer.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-MAIN_SUB_POLICY : FR fragmentation is not supported with interface or sub-interface based policies

Explanation On Cisco 7500 series routers, Frame Relay fragmentation is not supported when service policies are configured on the interface or subinterfaces.

Recommended Action Remove the service policy configuration under the interface or subinterfaces and reissue either the class command from Frame-Relay DLCI interface configuration mode or the frame-relay fragment command from map-class configuration mode.

%QOS-3-CFGERR : interface [chars]: configuration failed

Explanation Enough memory is not available to configure feature

%QOS-3-CFGERR : interface [chars]: configuration failed

Recommended Action	It is not possible to configure issued command (feature) unless required memory is released by some other means
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%QOS-3-VTEMP_MLP_ERR : A service policy cannot be attached to a PPP virtual-access interface when ppp multilink is enabled. A service policy can be attached to a ppp multilink bundle interface only.

Explanation	A service policy attached to a virtual-template is usually copied to associated virtual-access interfaces. However, if such a virtual-access interface joins a multilink ppp bundle, the policy is not attached to the virtual-access interface.
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Recommended Action	This is informational message. No action is required
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%QOS-3-VTEMP_VC_ERR : Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the vc/pvc to which the PPP/PPPoE virtual-access interface is bound.

Explanation	Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the vc/pvc to which the PPP/PPPoE virtual-access interface is bound.
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Recommended Action	Remove the policy attached to the vc/pvc before attaching a new policy to a PPP/PPPoE virtual-access interface
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%QOS-3-HQF_FEA_API_FAIL : Feature processing API returned NULL pak with INCOMPLETE flag

Explanation	HQF calls feature processing API to get the next packet from the feature, for example Frame-relay fragmentation. The API returns conflicting flags with NULL packet.
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Recommended Action	Check if the system resources, e.g. packet buffers, are exhausted. Contact technical support
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%QOS-3-VTEMP_SUB_ERR : Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the subinterface to which the PPP/PPPoE virtual-access interface is bound.

Explanation	Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the subinterface to which the PPP/PPPoE virtual-access interface is bound.
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Recommended Action	Remove the policy attached to the subinterface before attaching a new policy to a PPP/PPPoE virtual-access interface
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%QOS-3-VTEMP_MAIN_ERR : Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the main interface to which the PPP/PPPoE virtual-access interface is bound.

Explanation Attaching a service policy to a PPP/PPPoE virtual-access interface is not allowed when another policy is already attached to the main interface to which the PPP/PPPoE virtual-access interface is bound.

Recommended Action Remove the policy attached to the main interface before attaching a new policy to a PPP/PPPoE virtual-access interface

%QOS-3-HQFPOOLERR : interface [chars]: failed to allocate hqf particle

Explanation The HQF particle pool is empty. It cannot process a router generated packet

Recommended Action Collect show buffer and show policy interface output and send to technical support

%QOS-3-HQFNOPAK : interface [chars]: pak_reparent failed

Explanation pak_reparent has been invoked and failed.

Recommended Action Collect show buffer and show policy interface output and send to technical support

%QOS-3-MULTIPLE_INTERFACES : Load-sharing mode has changed. Queuing functionality may not be supported after this.

Explanation Dynamic interface has changed its route out of different physical interface. It might resolve into multiple interfaces for queuing. HQF functionality will get affected.

Recommended Action Likely scenario is that CEF is returning multiple paths across different interfaces. For those tunnels which has queuing features need unique out-going interface to resolve queuing hierarchy. Common instance is per-prefix load-balancing to per-destination. Need to remove offending configurations. May also need reload to get the queuing in working state

%QOS-3-ATLEAST_ONE_FAILOVER_ERR : Fail-over of dynamic interface [chars] failed

Explanation Dynamic interface has changed its route out of different physical interface and queuing can not set-up data-structures for that new physical interface

Recommended Action One possibility is that new physical interface already has service-policy or some other dynamic interface already has queueing data-structures associated with that physical interface and conjunction of such service-policies are not allowed. Remove one or the other service-policy in that case. If that is not the case then contact technical support

%QOS-3-HQFPAKREQUEUE : interface [chars]: pak_requeue_head has been invoked

Explanation pak_requeue_head() function has been invoked on a packet. One or more packets have been dropped. This is not the normal mode of operation

Recommended Action Collect show buffer and show policy interface output and send to technical support

%QOS-3-INVALID_POLICY : queuing policy at session/tunnel can co-exist only with class-default shaping policy at sub-interface/pvc

Explanation There already may be user-defined flat policy or hierarchical policy at the sub-interface/pvc. With existing of such policy no queuing policy is allowed on session

Recommended Action Make sub-interface/pvc based policy just one level policy with only class-default

%QOS-3-COEX_NOT_ALLWD : queuing policy at session cannot co-exist with service policy at sub-interface/pvc

Explanation There already may be user-defined flat policy or hierarchical policy at the sub-interface/pvc. With existing of such policy no queuing policy is allowed on session

Recommended Action Remove the policy attached to the sub-interface/pvc before attaching a new policy to a session

%QOS-3-BURST_BC_ERR : Burst Bc increased to [dec] bytes

Explanation If Burst BC is less than the default burst size then Burst Bc is increased to AF_DEAFULT_BURST

Recommended Action This is informational message. No action is required

%QOS-3-HQF_QID_ERR : Maximum number of QoS queues ([dec]) reached.

Explanation The system has run out of QoS queue identifiers and cannot allocate any more until existing queues are freed up.

Recommended Action Existing QoS configurations will need to be removed to free up more queue identifiers. For example, remove existing QoS service-policy configurations or modify policy-map templates to have fewer queuing actions.

%QOS-4-LC_STATS_MSG_DROPPED : QoS statistics update message dropped due to [chars]

Explanation Changes to QoS counters are sent periodically from linecards to the route processor. One of these statistics update messages was discarded because it was inconsistent or because the route processor ran out of message buffers. The packet and bytes counters for a single service-policy may be underreported by show commands and SNMP queries.

Recommended Action This is an informational message only. No action is required.

%QOS-3-XDRLEN : Invalid XDR length. Type [dec][chars]. XDR/buffer len [dec]/[dec]

Explanation An internal software error occurred

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-3-BADXDRSLOT : Invalid XDR slot. Type/len/slot [dec]/[dec]/[chars]. XDR at [hex]

Explanation An internal software error occurred

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-6-NORMAL_BURST_CHANGED_WARN : Illegal normal burst size; it is increased to [int]

Explanation Configured normal burst size is less than the Rate. It is considered to be illegal and has been reset based on the Rate.

Recommended Action This is an informational message only. No action is required.

%QOS-6-EXTENDED_BURST_CHANGED_WARN : Illegal extended burst size; it is increased to [int]

Explanation Configured extended burst size is less than the Rate. It is considered to be illegal and has been reset based on the Rate.

Recommended Action This is an informational message only. No action is required.

%QOS-4-FO_IN_USE : Releasing feature object with reference count [dec]

Explanation	This is an internal software error. A QoS policy feature object has a stale reference.
Recommended Action	If the message recurs, try to isolate the traffic conditions which trigger the message and contact technical support. Provide the output from the show tech-support and show policy-map interface commands.

%QOS-3-SA_SESSION_FAILOVER_ERR : Fail-over of dynamic SA session to interface [chars] failed

Explanation	Dynamic SA session has changed its route out of different physical interface and queuing can not set-up data-structures for that new physical interface
Recommended Action	One possibility is that new physical interface already has service-policy with queuing configured Remove the other service-policy in that case. If that is not the case then contact technical support

%QOS-4-DYN_SUSPEND : Queueing hierarchy move failed on [chars], suspending policy.

Explanation	A forwarding path change has moved the given queue to a new port where its QoS queuing policy cannot be satisfied. This is likely due to a conflicting policy or insufficient bandwidth on the new port, or simply that a new port has not yet been calculated. The policy has thus been temporarily suspended.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-6-DYN_INSTALL : Installing suspended policy on [chars].

Explanation	IOS is restoring a previously suspended policy.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%QOS-4-WRED_QLIMIT_OUT_OF_SYNC : On interface [chars] user-defined wred max threshold higher than default queue-limit

Explanation	The user defined random-detect is greater than the default queue-limit for this interface. Some of the random-detect configurations will not function properly due to this anomaly.
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%QOS-4-WRED_QLIMIT_OUT_OF_SYNC : On interface [chars] user-defined wred max threshold higher than default queue-limit

Recommended Action If the random-detect value is configured greater than default queue-limit intentionally then keep it as it is else please investigate and use a random-detect value(s) that will be lower than the default queue-limit.

%QOS-4-HQUEUE_QLIMIT_VALUE_SYNC_ISSUE : The hold-queue value is less than the sum of queue-limit values.

Explanation The hold-queue value is less than the queue-limit configured. This will lead to no-buffer drops instead of tail drops

Recommended Action The hold-queue value should be properly adjusted to prevent no-buffer drops.

%QOS-4-QLIMIT_HQUEUE_VALUE_SYNC_ISSUE : The sum of all queue-limit value is greater than the hold-queue value.

Explanation The hold-queue value is less than the queue-limit configured. This will lead to no-buffer drops instead of tail drops

Recommended Action The hold-queue value should be properly adjusted to prevent no-buffer drops.

%QOS-6-RADIO_MULTI_REM : Remove [chars] policy before removing policy from ([chars])

Explanation Prevent the removal of policies from radio layer if child targets have any queuing policies.

Recommended Action This is an informational message only. No action is required.

%QOS-6-ADAPTIVE_QOS_DISABLED : Adaptive QoS functionality is disabled. Shaper is reset to upper-bound

Explanation Multiple and consecutive reports from peer are not received. This leads to an assumption that the peer has gone away.

Recommended Action Removal and re-application of policy may be required to re-enable the adaptive QoS functionality

RAC

%RAC-3-RACNOIPL : Can not find lease information for interface [chars]

Explanation Internal error - DHCP lease information is missing for the interface

%RAC-3-RACNOIPL : Can not find lease information for interface [chars]

Recommended Action Report the problem and how it can be reproduced to Cisco TAC

%RAC-3-RACNOQ : Can't create RAC work queue

Explanation Internal error - probable cause is insufficient memory resources

Recommended Action Check available memory.

%RAC-3-RACIPL : DHCP is already running on interface [chars]

Explanation The interface already has a DHCP originated address via some other system mechanism

Recommended Action Verify the system configuration

RADIUS

%RADIUS-3-SERVERTYPEMISMATCH : Servers [chars] and [chars] in server group '[chars]' are of different types.

Explanation All the servers in a server group should either be of type standard or non-standard.

Recommended Action Enter **show running-config** command and make sure all the RADIUS servers in the server group printed above are of the same type - either standard or non-standard.

%RADIUS-3-ALLDEADSERVER : Group [chars]: No active radius servers found. Id [dec].

Explanation This error message occurs when all the servers configured in a server group are found to be unresponsive.

Recommended Action Check the network connectivity to the RADIUS servers, and check that the servers are running.

%RADIUS-6-RESETDEADSERVER : Group [chars]: Marked alive as Radius server [chars]:[dec],[dec] configured.

Explanation RADIUS server is now configured in the server group which was previously marked dead.

Recommended Action No action required. The message is informative in nature and tells that the dead server is now configured and up.

%RADIUS-6-SERVERALIVE : Group [chars]: Radius server [chars]:[dec],[dec] is responding again (previously dead).

Explanation A RADIUS server, which previously was dead, has started responding again.

Recommended Action No action required. This message is informative in nature and tells that the server has come up and running.

%RADIUS-6-GETROUTES : Retrieving static routes in user [chars]

Explanation Getting initial static routes from RADIUS, using the given user's profile.

Recommended Action No action required. The message is informative in nature and tells that it is getting the static routes based on user's profile.

%RADIUS-6-GETPOOLS : Retrieving IP-Pools via user [chars]

Explanation Getting initial IP-Pool definitions from RADIUS, using the given user's profile.

Recommended Action No action required.

%RADIUS-3-NOHOSTNAME : Failed to retrieve my hostname.

Explanation Could not find the router's hostname. A hostname needs to be defined, since it determines the RADIUS profile we will retrieve.

Recommended Action Define a hostname on the router's config. Refer to the hostname configuration section of IOS documentation.

%RADIUS-3-FORKFAIL : Failed to fork process for [chars].

Explanation Quite likely, we ran out of memory. Other explanations are possible.

Recommended Action If this message recurs, enter **show tech-support** command and call your technical support representative for assistance.

%RADIUS-3-IDENTFAIL : Saving of unique accounting ident aborted. Configuration has been modified.

Explanation The configuration has been modified. We can not save the unique accounting IDENT to nvram. The message is to inform the user that the saving of unique accounting ident is aborted due to the change in configuration.

Recommended Action Save the configuration and try again. If the error persists, Enter **show tech-support** contact your Cisco technical support representative, and provide the representative with the gathered information for assistance.

%RADIUS-6-IDENTSAVE : Saving config with new acct ident in nvram.

Explanation Saving an accounting ident in nvram. The message is informative.

Recommended Action No action required.

%RADIUS-3-OVERRUN : Insufficient buffer space [dec] for string value.

Explanation This error occurs due to the insufficient memory allocated to the buffer. The condition could be caused by a software, less likely by a hardware. The traceback and process information is generated due to this condition.

Recommended Action If the error re-occurs, check bug toolkit on Cisco web-site to look for a bug that has symptoms similar to the one occurred. If there is no entry for the problem you faced, collect the system message text exactly as it appears on the console or in the system log. Enter **show tech-support**, and contact your technical support representative, and provide the representative with all the information gathered.

%RADIUS-3-NOSERVERS : No Radius hosts configured or no valid server present in the server group [chars]

Explanation RADIUS is attempting to send a request, but there are no hosts configured to which the request is send.

Recommended Action Configure a host with the 'radius-server' command providing the IP address of the server. Refer to the radius-server host configuration section of IOS documentation.

%RADIUS-3-SECRETDEFINEFAILED : Key definition ignored.

Explanation The user is attempting to store either a corrupted shared secret or memory allocation failed during secret definition. Any existing shared secret will be preserved.

Recommended Action Configure a proper secret. Refer to the shared secret configuration section for RADIUS servers in IOS documentation.

%RADIUS-3-FORMATLONG : Format string too long. Maximum allowed length is [dec].

Explanation The user is attempting to configure a format string with a prefix that is too long.

Recommended Action Enter a shorter string to configure.

%RADIUS-4-NOSERV : Warning: Server [chars]:[dec],[dec] is not defined.

Explanation The given server is not globally defined, please define it.

%RADIUS-4-NOSERV : Warning: Server [chars]:[dec],[dec] is not defined.

Recommended Action Please define the server. Refer to the server configuration section of IOS documentation.

%RADIUS-4-NOSERVNAME : Warning: Server [chars] is not defined.

Explanation The given server name is not globally defined, please define it.

Recommended Action Please define the server. Refer to the new server name configuration section of IOS documentation.

%RADIUS-4-SERVREF : Warning: Server [chars]:[dec],[dec] is still referenced by server group.

Explanation The server being removed is still referenced by a server group. This message appears when server configuration is removed but in a server group it still exists.

Recommended Action Please dereference the server from the server group as soon as possible. Refer to server group configuration section in IOS documentation.

%RADIUS-4-SERVREFNAME : Warning: Server %S is still referenced by server group.

Explanation The server being removed is still referenced by a server group. This message appears when server configuration is removed but in a server group it still exists.

Recommended Action Please dereference the server from the server group as soon as possible. Refer to server group configuration section in IOS documentation.

%RADIUS-3-NOATTRLIST : No attribute-list passed through parser.

Explanation An internal error has occurred. The reason could be hardware or software. The error appears when no attribute list is passed through the parser.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RADIUS-3-INVALIDFORMAT : Invalid Nas Port Format: [chars] %c

Explanation The user is attempting to configure an incorrect format string.

Recommended Action Enter a 32 character string using supported characters only.

%RADIUS-4-BADATTRLIST : Unable to process attribute list.

Explanation	The attribute list is syntactically incorrect.
Recommended Action	Please specify the attribute list as a comma- delimited string of integers between 1 and 255.

%RADIUS-4-NOATTRLISTDEF : Warning: Attribute list [chars] is not defined.

Explanation	The given attribute list is not defined.
Recommended Action	Please define the attribute list as soon as possible.

%RADIUS-3-DATAERROR : Warning: [chars]

Explanation	The given data passed into the Radius subsystem is considered invalid and may result in loss of attributes.
Recommended Action	Please collect traceback and contact your technical support representative.

%RADIUS-3-SOURCEPORTALLOCERROR : Warning: Unable to allocate port [dec]

Explanation	Unable to allocate a certain port, will not have the full range of source ports. This is not supposed to happen, contact support.
Recommended Action	Contact support

%RADIUS-3-CORRUPTCONTEXT : Bad Magic pattern in [chars]:[hex], magic:[hex]!

Explanation	The magic pattern imprinted on the internal hash table data structures in RADIUS subsystem is missing and indicates memory corruption. The memory is getting overwritten by a misbehaving process. The traceback and the process information is generated to the result of the error.
Recommended Action	Check bug toolkit on Cisco web-site to look for a bug that has symptoms similar to the one occurred. If there is no entry for the problem you faced, collect the system message text exactly as it appears on the console or in the system log. Enter show tech-support command, contact your technical support representative and provide the representative with the gathered information.

%RADIUS-3-UNKNOWNAPI : Unknown API type [dec]

Explanation	RADIUS code has been invoked using an unknown API type. This is the result of a bug in the RADIUS subsystem.
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%RADIUS-3-UNKNOWNAPI : Unknown API type [dec]

Recommended Action Check bug toolkit on Cisco web-site to look for a bug which has symptoms similar to the one occurred. If there is no entry for the problem you faced, Please collect traceback and contact your technical support representative.

%RADIUS-3-ZEROATTRLEN : Radius attr [dec] len 0

Explanation An internal error has occurred

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RADIUS-3-BUFFER_OVERFLOW : Radius I/O buffer has overflowed

Explanation An unusually large number of RADIUS attributes has caused AAA to overflow its RADIUS I/O buffer. The given server is not on the global public servers list. This is an internal consistency error

Recommended Action This is an internal software error. Collect the trace-back appeared as a part of message and report it to your technical support representative. Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RADIUS-3-NOACCOUNTINGRESPONSE : Accounting message [chars] for session %*s failed to receive Accounting Response.

Explanation Maximum number of retransmissions is exceeded. The network is not accessible or the RADIUS server is down.

Recommended Action Check the network connectivity to the RADIUS servers, and check that the servers are running. If not able to debug the issue, enter **show running-config** and contact your technical support representative for assistance.

%RADIUS-3-CANNOT_OPEN_SOCKET : Cannot open UDP socket for service [chars]

Explanation The router is unable to open a socket for UDP communications by the indicated service. Most of the time another service might be using the same port.

Recommended Action Check your configuration to make sure that no other services are using the same port. If not able to debug the issue, enter **show running-config** and contact your technical support representative for assistance.

%RADIUS-4-NOPUBLICSERV : Warning: No servers were found in the public server list.

Explanation The given server is not on the global public servers list. This is an internal consistency error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RADIUS-4-RADIUS_DEAD : RADIUS server [chars]:[int],[int] is not responding.

Explanation The server might not be available to serve request. server has not responded to repeated requests.

Recommended Action Check for the connectivity to server. Check if the RADIUS server is still active. If not able to debug the issue, enter **show running-config** and contact your technical support representative for assistance.

%RADIUS-4-RADIUS_ALIVE : RADIUS server [chars]:[int],[int] is being marked alive.

Explanation A RADIUS server that previously was not responding has responded to a new request or the deadtimer has expired.

Recommended Action No action is required.

%RADIUS-3-MALLOC_FAILED : Insufficient memory : [chars].

Explanation Memory allocation failed due to insufficient memory

Recommended Action No action is required.

%RADIUS-3-IPV4_FIB_SEND_FAILED : Radius ipv4 send failed due to FIB error. Error code: [dec].

Explanation Radius not able to send udp packets as fib failed

Recommended Action No action is required.

%RADIUS-3-INVALID_PACKET : Invalid packet posted to RADIUS.

Explanation Radius not able to process a packet as it in invalid

%RADIUS-3-INVALID_PACKET : Invalid packet posted to RADIUS.

Recommended Action No action is required.

RADIX

%RADIX-3-NOMEMORY : No memory available [chars]

Explanation The system is out of memory.

Recommended Action Try one of these actions to correct the problem: Reduce the number of routes accepted by this router. Upgrade hardware. Use a smaller subset image on run-from-RAM platforms.

%RADIX-3-DELETE : Error deleting trie entry, [chars]

Explanation A software programming error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%RADIX-3-ADDMASK : Error adding mask entry, [chars]

Explanation A software or hardware error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%RADIX-3-BADTREE : Invalid pointer to head of tree, [hex]

Explanation A software programming error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%RADIX-4-ORPHAN : Orphaned mask [hex], refcount=[dec] at [hex], next=[hex]

Explanation A software error occurred.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%RADIX-2-INIT : No memory for radix initialization: [chars]

Explanation The system ran out of memory during initialization. This should only occur if an image is too large for the existing dynamic memory.

Recommended Action Use a smaller subset image or upgrade hardware.

RADPROXY

%RADPROXY-3-NULL_FSM_CONTEXT : Encountered a NULL RP context in [chars]

Explanation Encountered a NULL context in RP.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RADPROXY-3-INVALID_FSM_STATE : Encountered an invalid RP state [dec] in [chars]

Explanation An internal RP error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RADPROXY-3-INVALID_FSM_EVENT : Received invalid RP event [chars] in state [chars]

Explanation An internal RP error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RADPROXY-3-INIT : Initialisation failure, [chars]

Explanation An internal error occurred during RP initialisation.

%RADPROXY-3-INIT : Initialisation failure, [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%RADPROXY-3-MEMORY_CORRUPT : RP Memory magic corrupted

Explanation	RP memory magic corrupted
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RADPROXY-3-INVALID_MAC : Received invalid MAC [chars] in [chars] from [IP_address] with NAS-IP [IP_address]

Explanation	Error occurred on receiving a invalid MAC
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RADPROXY-3-MEMORY_LOW : Memory low in RP, terminating session

Explanation	System memory is running low.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RADPROXY-3-PROTOCOL_VIOLATION : RP encountered fatal protocol violation

Explanation	Unrecoverable protocol error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

RCMD**%RCMD-4-RCPATTEMPTED : Remote copy from [chars] at [chars] denied**

Explanation An attempt was made to connect to a router through RCP, but the router was not configured as an RCP server.

Recommended Action Configure an RCP server.

%RCMD-4-RSHATTEMPTED : Remote shell from [chars] at [chars] denied

Explanation An attempt was made to connect to a router through rsh, but the router was not configured as an rsh server.

Recommended Action Configure an rsh server.

%RCMD-4-RCMDDNSFAIL : DNS hostname/ip address mismatch. [chars] unknown to DNS

Explanation The IP address for an incoming rcmd request is not registered with DNS.

Recommended Action Add the IP address to DNS.

REDUNDANCY through RG_PROTOCOL

- [REDUNDANCY](#)
- [REDUNDANCY_UTILS](#)
- [REGISTRY](#)
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- [RG_FAULTS](#)
- [RG_MEDIA](#)
- [RG_PROTOCOL](#)

REDUNDANCY**%REDUNDANCY-2-IPC : [chars] [chars]**

Explanation	An Interprocess Communication (IPC) error occurred. The details about what was attempted and what went wrong will be printed.
Recommended Action	Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

%REDUNDANCY-3-MEMORY_DIFF : WARNING, nonsymmetrical configuration: Active has [dec]K Standby has [dec]K

Explanation	The redundant RPs have different memory configurations.
Recommended Action	The configuration is allowed but discouraged.

%REDUNDANCY-3-FSM : [chars]

Explanation	A REDUNDANCY Finite State Machine (FSM) error occurred. The details about what was attempted and what went wrong will be printed.
Recommended Action	Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

%REDUNDANCY-3-FSM_ERROR : [chars], Error Code: [dec]

Explanation	A REDUNDANCY Finite State Machine (FSM) error occurred. The details about what was attempted and what went wrong will be printed.
Recommended Action	Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

%REDUNDANCY-3-SWITCHOVER : RP switchover ([chars])

Explanation	A REDUNDANCY switchover has occurred.
Recommended Action	Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

%REDUNDANCY-3-STANDBY_LOST : Standby processor fault ([chars])

Explanation	The standby processor is no longer available.
Recommended Action	Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

%REDUNDANCY-3-PEER_MONITOR : [chars]

Explanation	A REDUNDANCY Peer Monitor error occurred. The details about what was attempted and what went wrong will be printed.
Recommended Action	Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

%REDUNDANCY-5-PEER_MONITOR_EVENT : [chars] ([chars][chars]([dec]))

Explanation	A REDUNDANCY Peer Monitor event occurred and reported. The report should help to find out the reason for a switch-over.
Recommended Action	Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

%REDUNDANCY-3-REDUNDANCY_ALARMS : [chars]

Explanation	A REDUNDANCY Alarm assertions error occurred. The details about what was attempted and what went wrong will be printed.
Recommended Action	Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

%REDUNDANCY-3-CONFIG_SYNC : [chars]

Explanation	A REDUNDANCY config sync error occurred. The details about what was attempted and what went wrong will be printed.
Recommended Action	Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

%REDUNDANCY-3-GENERAL : [chars]

Explanation	A REDUNDANCY error occurred. The details about what was attempted and what went wrong will be printed.
Recommended Action	Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

%REDUNDANCY-4-RELOADING_STANDBY : Reloading the Standby [chars]

Explanation	The Active has sent a reload IPC request to the Standby peer. If the reload is not successful then the Standby will be power cycled instead.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%REDUNDANCY-4-PEER_DID_NOT_RESPOND : Resetting peer [chars] because it did not respond to verification of HA role.

Explanation	The platform uses the HA hardware lines to perform HA role negotiation at boot time. Whichever controller card becomes the Standby verifies this role via the MBUS with the Active. If the Active does not respond it is reset as it is either hung, or is running an old version of software.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%REDUNDANCY-6-STANDBY_HAS_RELOADED : The Standby [chars] has reloaded; reason: [chars]

Explanation	The Standby peer has reloaded itself to correct a configuration mismatch between the Active and the Standby. The Standby has detected that it is missing configuration for a line card. This has most likely happened because the Standby was reloaded prior to the new card being inserted.
Recommended Action	No action is required.

%REDUNDANCY-6-SWITCHOVERTIME : Time taken to switchover = [dec] milliseconds

Explanation	This is how long the Standby peer took to become Active after a failure of the existing Active.
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%REDUNDANCY-6-SWITCHOVERTIME : Time taken to switchover = [dec] milliseconds

Recommended Action No action is required.

%REDUNDANCY-3-EHSAISSU : [chars] failed with error code [[chars]]

Explanation An ISSU related REDUNDANCY error occurred. The details about what was attempted and what went wrong will be printed.

Recommended Action Copy the error message exactly as it appears. Copy down the system's configuration along with any other relevant information. Contact your technical support representative for assistance.

REDUNDANCY_UTILS

%REDUNDANCY_UTILS-3-INVALID_UNIT_DESIGNATION : An invalid redundancy designation ([chars]) has been detected.

Explanation The redundancy utility assigns each system a unit designation of either an Active Unit, Standby Unit, or Other Unit, and this designation was found to be invalid in the run-time module associated with the system traceback message. This condition most likely occurred because of a software error. The message text provides more information on the specific nature of the error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

REGISTRY

%REGISTRY-3-SEQ_LIST_OVERWRITE : Attempt made to overwrite a set sequence function ([chars])

Explanation A single function can be set as a callback for a specified sequence number for a sequenced list registry. This message indicates that an attempt to set a new callback has failed because a callback function has already been set for this sequence number.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%REGISTRY-3-STUB_CHK_OVERWRITE : Attempt made to overwrite a set stub function in [chars].

Explanation A single function can be set as a callback for when a stub w/ check registry is invoked. This message indicates that an attempt to set a new callback has failed because a callback function has already been set.

%REGISTRY-3-STUB_CHK_OVERWRITE : Attempt made to overwrite a set stub function in [chars].

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%REGISTRY-3-FASTCASE_OUT_OF_BOUNDS : Attempt made in [chars] to register with out of bounds key.

Explanation In FASTCASE registry the key has to be smaller than the size specified when the registry was created. This message indicates that an attempt was made to register with a key out of bounds.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%REGISTRY-3-REG_SUSPEND : Registry of type SUSPEND called when suspends are not allowed.

Explanation When process blocking has been disabled either using `raise_interrupt_level` or `assign_blocking_disabled`, a remote registry of type SUSPEND has been invoked.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%REGISTRY-3-REG_FLAG_ERR : Invalid combination of registry flag and scheduler control : [chars]

Explanation When process blocking has been disabled either using `raise_interrupt_level` or `assign_blocking_disabled`, a remote registry with flags `REG_FLAG_DATA_SAFE/REG_FLAG_PEER` has been invoked.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%REGISTRY-2-REG_FLAG_DEADLOCK : Registry call to [chars] timed out due to deadlock

Explanation When a remote registry is not serviced within 25 seconds, the remote process (and presumably the entire system) is deadlocked. This message is printed when the deadlock is broken by a timeout

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%REGISTRY-2-REG_PARSE_ERROR : [chars]: Could not parse notification [chars] : error/no. of items = [dec]

Explanation Registry library is unable to parse notification received from name server. This could be for several reasons: a) There is a bug in `sscanf` b) The notification block is corrupted c) The pathname published to the name server is invalid This is a serious issue that affects inter-process communication.

%REGISTRY-2-REG_PARSE_ERROR : [chars]: Could not parse notification [chars] : error/no. of items = [dec]

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%REGISTRY-3-REG_XDR : [chars]

Explanation There was an error while marshalling a parameter to a remote (inter-process) registry call

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

REPLICATE_OCE**%REPLICATE_OCE-3-NETWORK_GET_FAIL : MPLS Multicast can not get network offset: datagram [hex]; network [hex]**

Explanation MPLS failed to find a suitable packet network offset

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%REPLICATE_OCE-3-NETWORK_SET_FAIL : MPLS Multicast can not set network offset: datagram [hex]; length [dec]; offset [dec]

Explanation MPLS failed to set offset within packet

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%REPLICATE_OCE-6-PAK_TOO_SHORT : Packet too short, datagram size [dec], tl [dec]

Explanation An IP packet which is too short was received

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%REPLICATE_OCE-3-REPLICATE_PATH_WALK_FAIL : [chars] [dec]

Explanation	Replicate path walk failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%REPLICATE_OCE-3-REPLICATE_INIT_INSUFFICIENT_PARTICLE_SIZE : Platform particle size [dec] may be insufficient for Label Switched multicast; Minimum particle size recommended is [dec]; Replicate packets may not be forwarded

Explanation	LSM Replicated packets may not be forwarded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

RFMGR_SYSLOG

%RFMGR_SYSLOG-4-DCA_CHANNEL_LIST_EMPTY : The DCA Channel list is empty for rf profile [chars]

Explanation	DCA Channel list is empty It affects Channel Assignment to AP
Recommended Action	Please add channels to DCA List

RFS

%RFS-3-CLIENT_REG : RFS Client ([dec]) Registration failed

Explanation	RFS ISSU client registration failed
Recommended Action	Enter the following command:'show issu client' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why no uid with this value found registered in ISSU Database

%RFS-3-ENTITY_REG : RFS Entity ([dec]) Registration failed

Explanation	RFS ISSU entity failed to register with ISSU
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%RFS-3-ENTITY_REG : RFS Entity ([dec]) Registration failed

Recommended Action Enter the following command: 'show issu entities' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this entity failed to register

%RFS-3-MSGTYPE_REG : RFS Msg Type for Entity ([dec]) Registration failed

Explanation RFS ISSU Msg Type registration failed

Recommended Action Enter the following commands: 'show issu entities', 'show issu message types' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this message types failed to register

%RFS-3-MSGGROUP_REG : RFS Msg Group ([dec]) for Entity ([dec]) Registration failed

Explanation RFS ISSU Msg Group registration failed

Recommended Action Enter the following commands: 'show issu message groups', and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this message group failed to register

%RFS-3-CAPTYPE_REG : RFS Cap Type for Entity ([dec]) Registration failed

Explanation RFS ISSU Cap Type registration failed

Recommended Action Enter the following commands: 'show issu capability types' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this capability type failed to register

%RFS-3-CAPENTRY_REG : RFS Cap Entry ([dec]) for Entity ([dec]) Registration failed

Explanation RFS ISSU Cap Entry registration failed

Recommended Action Enter the following commands: show issu capability entries and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this capability entry failed to register

%RFS-3-CAPGROUP_REG : RFS Cap Group ([dec]) for Entity ([dec]) Registration failed

Explanation RFS ISSU Cap Group registration failed

Recommended Action Enter the following commands: show issu capability groups and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this capability group failed to register

%RFS-3-CLIENT_SESSION_REG : RFS ISSU client shared msg session for entity ([dec]) registration failed

Explanation	RFS ISSU client shared msg session registration failed
Recommended Action	Enter the following commands: show issu sessions and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this shared message session failed to register

%RFS-3-CLIENT_SESSION_UNREG : RFS session ([dec]) Un-Registration failed

Explanation	RFS ISSU client session un-registration failed
Recommended Action	Enter the following commands: show issu sessions and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client session failed to un-register

%RFS-3-NEGO_SESSION_REG : RFS nego session for Entity ([dec]) Registration failed

Explanation	RFS ISSU shared nego session registration failed
Recommended Action	Enter the following commands: 'show issu sessions', 'show issu entities' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation session failed to register

%RFS-3-NEGO_SESSION_UNREG : RFS session ([dec]) Un-Registration failed

Explanation	RFS ISSU shared nego session un-registration failed
Recommended Action	Enter the following commands: 'show issu sessions' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation session failed to un-register

%RFS-3-START_NEGO_SESSION : RFS nego ([dec]:[dec]) to [[chars]:[hex]] failed: [[chars]]

Explanation	RFS ISSU start shared nego session failed
Recommended Action	Enter the following commands: 'show issu sessions' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation session failed to start

%RFS-3-NEGO_COMP : RFS nego is not compatible ([dec])

Explanation	RFS ISSU start shared nego session failed
Recommended Action	Enter the following commands: 'show issu sessions' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation session is not compatible

%RFS-3-SEND_NEGO_MESSAGE : RFS send nego message ([IPv6 address]) failed

Explanation	RFS ISSU send nego message failed
Recommended Action	Enter the following commands: 'show issu session' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation message failed

%RFS-3-RECEIVE_NEGO_FAILED : RFS receive nego message ([IPv6 address]) failed

Explanation	RFS ISSU receive nego message failed
Recommended Action	Enter the following commands: 'show issu session' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation message failed

%RFS-3-RECEIVE_NEGO_NOT_DONE : RFS receive nego message is not done ([dec])

Explanation	RFS ISSU receive nego message is not done
Recommended Action	Enter the following commands: show issu session and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client negotiation failed to complete

%RFS-3-IPC_GET_BUFFER : RFS issu ipc get buffer failed

Explanation	RFS ISSU ipc get buffer failed
Recommended Action	Enter the following commands: 'show proc mem' or 'show buffs' to check if memory or buffer is full. shutdown unused tasks or reset cards usually can recover those memory leak problem. Copy the error and send it to TAC if those actions do not help.

%RFS-3-REG_PORT : RFS reg port ([dec]) failed

Explanation	RFS ISSU reg port failed
Recommended Action	Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this port failed to register

%RFS-3-LOCATE_PORT : RFS locates port ([chars]) failed

Explanation	RFS ISSU locates port failed
Recommended Action	Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be located

%RFS-3-OPEN_CLIENT_PORT : RFS open client port ([chars]) failed. Reason:[chars]

Explanation	RFS ISSU open client port failed
Recommended Action	Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be opened

%RFS-3-OPEN_SERVER_PORT : RFS open server port ([chars]) failed

Explanation	RFS ISSU open server port failed
Recommended Action	Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be opened

%RFS-3-CREATE_CLIENT_PORT : RFS create client port ([chars]) failed

Explanation	RFS ISSU create client port failed
Recommended Action	Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be created

%RFS-3-CREATE_SERVER_PORT : RFS create server port ([chars]) failed

Explanation	RFS ISSU create server port failed
Recommended Action	Enter the following commands: show ipc port and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be created

%RFS-3-RFS_ISSU_START_SESSION : RFS create rfs_issu_start_session watch boolean failed

Explanation	RFS ISSU create rfs_issu_start_session watch boolean failed
Recommended Action	Copy the error and send it to TAC. TAC team can contact the file-systems team to check why this ipc port could not be created

%RFS-3-RFS_ISSU_START_PORT : RFS create rfs_issu_start_port watch boolean failed

Explanation	RFS ISSU create rfs_issu_start_port watch boolean failed
Recommended Action	Enter the following commands: show proc mem and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this watched boolean could not be created

%RFS-3-RFS_ISSU_NEGO_PROCESS : RFS create rfs_issu_start_port watch boolean failed

Explanation	RFS ISSU create nego process failed
Recommended Action	Enter the following commands: show proc mem and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this watched boolean could not be created

%RFS-3-MSG_MTU : RFS Client ([dec]) get msg mtu failed. Error = [dec]

Explanation	RFS ISSU client get msg mtu failed
Recommended Action	Enter the following commands: show issu fsm, show issu ses and copy the error and send it to TAC. TAC team can contact the file-systems team to check why get message mtu failed

%RFS-3-MSG_XMIT : RFS Client ([dec]) on session ([dec]) to seat [[hex]] failed send transformation with error[[chars]]

Explanation	RFS ISSU client send msg failed
Recommended Action	Enter the following commands: show issu sessions and copy the error and send it to TAC. TAC team can contact the file-systems team to check why send message for this client failed

%RFS-3-MSG_RCV : RFS Client ([dec]) on session ([dec]) to seat [[hex]] failed receive transformation with error[[chars]]

Explanation	RFS ISSU client receive msg failed
Recommended Action	Enter the following commands: show issu sessions and copy the error and send it to TAC. TAC team can contact the file-systems team to check why receive message for this client failed

%RFS-3-UNREG_ENTITY : RFS ISSU Client unreg entity failed.

Explanation	RFS ISSU client unreg entity failed
Recommended Action	Enter the following command: 'show issu entities' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this entity failed to un-register

%RFS-3-RFS_ISSU_CLIENT_OR_ENTITY_ID : RFS ISSU couldnt find client/entity id in peer.

Explanation	RFS ISSU couldnt find client/entity id in peer.
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%RFS-3-RFS_ISSU_CLIENT_OR_ENTITY_ID : RFS ISSU couldnt find client/entity id in peer.

Recommended Action	Enter the following command: 'show issu entities' and copy the error and send it to TAC. TAC team can contact the file-systems team to check why this client/entity id couldnt find in peer
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%RFS-3-MSG_GET_NEGO_VER : RFS Client ([dec]) get msg negotiated version failed. Error = [dec]

Explanation	RFS ISSU client get msg negotiated version failed
Recommended Action	Enter the following commands: show issu fsm, show issu ses and copy the error and send it to TAC. TAC team can contact the file-systems team to check why get message negotiated version failed

%RFS-3-MSG_INCOMP : [chars](): msg_type [[dec]] under session [[dec]] is incompatible

Explanation	The message types are incompatible under ISSU
Recommended Action	Enter the following command: show issu message types 110 and copy the output and send it to TAC. TAC team can contact the file-systems team to check why messages are incompatible

%RFS-3-RFS_RF_PROG_ERR : Failed to send the bulk sync notification done. Error ([dec]).

Explanation	The RFS RF client failed to send the final bulk sync otification.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RFS-3-RFS_RF_PROG_NOT_SENT_ERR : [chars].

Explanation	The RFS RF client has error in sending client progression.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RFS-3-RFS_BOOL_CREATE_ERR : [chars].

Explanation	The RFS RF client has error in creating watched boolean.
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%RFS-3-RFS_BOOL_CREATE_ERR : [chars].

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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RG_AR

%RG_AR-3-NOPROCESS : Unable to create process for [chars].

Explanation	Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.
Recommended Action	If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.

%RG_AR-3-NOPEER : Peer does not exist for RG ID = ([dec]) with error code = ([dec])

Explanation	Failures in communication with peer
Recommended Action	Make sure that there are no configuration errors.

RG_FAULTS

%RG_FAULTS-6-PRICHANGE : RG Infra RG[[dec]] Priority update. new priority [[dec]] old priority [[dec]] [chars]

Explanation	The runtime priority of the group was updated
Recommended Action	Look at rg_infra trace for the cause for priority change

%RG_FAULTS-6-PRICONFCHANGE : RG Infra RG[[dec]] Priority configuration changed. New runtime priority:[[dec]]

Explanation	The configured priority changed, runtime priority was affected
Recommended Action	No action need to be taken

%RG_FAULTS-3-NOPROCESS : Unable to create a new process for [chars].

Explanation	Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.
Recommended Action	If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.

RG_MEDIA

%RG_MEDIA-3-NOPROCESS : Unable to create process for [chars].

Explanation	Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.
Recommended Action	If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.

%RG_MEDIA-3-NOSOCKET : Unable to open socket

Explanation	The system was unable to initialize an IP connection for RG Protocol
Recommended Action	Make sure that there is at least one interface configured to run IP.

%RG_MEDIA-4-BADSEQ : Group [dec]: Sequence number larger than expected - indicates packet loss

Explanation	Sequence number expected from peer is too big, this usually indicates packet loss
Recommended Action	Check for connectivity problems between the 2 peers.

%RG_MEDIA-3-INVALIDPLATFORM : Unsupported Platform

Explanation	The peer platform is unsupported as a RG-pair
Recommended Action	Only like platforms can be configured as a RG pair.

%RG_MEDIA-3-TIMEREXPIRED : RG id [dec] Hello Timer Expired.

Explanation	This router did not receive hello message from the peer within the configured hold time. This may result in a role change.
Recommended Action	Enter show tech-support, show history commands, collect all the information and error message and report it to your technical support representative.

RG_PROTOCOL

%RG_PROTOCOL-3-NOPROCESS : Unable to create process for [chars].

Explanation	Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.
Recommended Action	If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.

%RG_PROTOCOL-5-ROLECHANGE : RG id [dec] role change from [chars] to [chars]

Explanation	RG role (Init/Standby/Active) has been changed
Recommended Action	No action is required.

%RG_PROTOCOL-3-UNEXPECTEDACTIVE : RG id [dec] unexpected Active peer [IP_address]

Explanation	An unexpected Active peer has been detected via control interface; there are 2 Active RGs in the redundancy group
Recommended Action	If this is not a transient state, check for connectivity problems or inconsistency of rg protocol timer configuration between the peers

%RG_PROTOCOL-4-UNEXPECTEDSTANDBY : RG id [dec] unexpected Standby peer [IP_address]

Explanation	An unexpected Standby peer has been detected via control interface; there are 2 Standby RGs in the redundancy group
Recommended Action	If this is not a transient state, check for connectivity problems or inconsistency of rg protocol timer configuration between the peers

RG_TRANSPORT through RRM_MGR_TRACE_MESSAGE

- [RG_TRANSPORT](#)
- [RG_VP](#)
- [RMON](#)
- [ROLLBACK_ISSU](#)
- [ROUITEMAP](#)
- [RPL](#)
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- [RRM_COMMON_TRACE_MESSAGE](#)
- [RRM_MGR_DB](#)
- [RRM_MGR_TRACE_MESSAGE](#)

RG_TRANSPORT

%RG_TRANSPORT-3-NOPROCESS : Unable to create process for [chars].

Explanation	Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.
Recommended Action	If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.

%RG_TRANSPORT-3-TRANSFAIL : Negotiation failure with error code: [dec]

Explanation	The query_status in msg is not RG_TRANS_SUCCESS
Recommended Action	Make sure that there are no configuration errors.

RG_VP**%RG_VP-3-NOPROCESS : Unable to create process for [chars].**

Explanation	Quite likely, we ran out of memory. Other explanations are possible.;msgdef_recommended_action(If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.
Recommended Action	If this message recurs. Check bug toolkit on Cisco website for the issue. If you didn't find one, Enter Show tech-support command, collect all the information and error message and report it to your technical support representative.

%RG_VP-6-STANDBY_READY : RG group [dec] Standby router is in SSO state

Explanation	Indicates standby readiness
Recommended Action	No action is required.

%RG_VP-6-BULK_SYNC_DONE : RG group [dec] BULK SYNC to standby complete.

Explanation	Indicagtes Standby bulk sync complete
Recommended Action	No action is required.

RMON**%RMON-5-RISINGTRAP : Rising threshold has been crossed because the value of [chars] exceeded the rising-threshold value [dec]**

Explanation	A Rising Event will be generated.The value of the specified MIB object has exceeded the rising threshold value as configured by the rmon alarm command for the specified object
Recommended Action	Take appropriate action on the specified object.

%RMON-5-FALLINGTRAP : Falling threshold has been crossed because the value of [chars] has fallen below the falling-threshold value [dec]

Explanation	A Falling Event will be generated.The value of the specified MIB object has fallen below the falling threshold value as configured by the rmon alarm command for the specified object
Recommended Action	Take appropriate action on the specified MIB object.

%RMON-5-HCRISINGTRAP : Rising trap is generated because the value of [chars] exceeded the rising-threshold hc value [int]

Explanation A Rising Trap has been generated. The value of the specified MIB object has exceeded the rising threshold value as configured by the **rmon hc-alarms** command for the specified object

Recommended Action Take appropriate action on the specified object.

%RMON-5-HCFALLINGTRAP : Falling trap is generated because the value of [chars] has fallen below the falling-threshold hc value [int]

Explanation A Falling Trap has been generated. The value of the specified MIB object has fallen below the falling threshold value as configured by the **rmon hc-alarms** command for the specified object

Recommended Action Take appropriate action on the specified MIB object.

ROLLBACK_ISSU

%ROLLBACK_ISSU-2-INIT : Rollback ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation The Rollback ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ROLLBACK_ISSU-3-TRANSFORM_FAIL : Rollback ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation The Rollback ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the Rollback state between the active device and the standby device is not identical.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%ROLLBACK_ISSU-3-MSG_NOT_OK : Rollback ISSU client 'Message Type [dec]' is not compatible

Explanation	The Rollback ISSU client received an incompatible message from the peer device. The message cannot be processed.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%ROLLBACK_ISSU-3-MSG_SIZE : Rollback ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation	The Rollback ISSU client failed to calculate the MTU for the specified message. The Rollback ISSU client is not able to send the message to the standby device.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%ROLLBACK_ISSU-3-INVALID_SESSION : Rollback ISSU client does not have a valid registered session.

Explanation	The Rollback ISSU client does not have a valid registered session.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%ROLLBACK_ISSU-2-SESSION_REGISTRY : Rollback ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The Rollback ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%ROLLBACK_ISSU-3-SESSION_UNREGISTRY : Rollback ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The Rollback ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%ROLLBACK_ISSU-2-SESSION_NEGO_FAIL_START : Failed to start Rollback ISSU session negotiation. Error: [dec] ([chars])

Explanation	The Rollback ISSU client failed to start session negotiation. If a problem occurs with the ISSU session start, the standby device cannot be brought up properly.
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%ROLLBACK_ISSU-2-SESSION_NEGO_FAIL_START : Failed to start Rollback ISSU session negotiation. Error: [dec] ([chars])

Recommended Action LOG_STD_SH_CMD_ACTION(show issu session <client_id>)

%ROLLBACK_ISSU-2-SEND_NEGO_FAILED : Rollback ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation The Rollback ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%ROLLBACK_ISSU-2-GET_BUFFER : Rollback ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation The Rollback ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

ROUTEMAP

%ROUTEMAP-4-BADTRACKOBJECTTYPE : can't track this type of object

Explanation Route maps only support STATE type track objects. This object is not a STATE object

Recommended Action Reconfigure the track object to make it a STATE object.

RPL

%RPL-3-CONFIG_ERROR : RPL [chars] configuration failed: [chars] [chars] code [dec]

Explanation This Error message would be encountered when trying to configure rpl through api.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RPL-3-CHUNK_ERROR : [chars]

Explanation	This Error message would be encountered when trying to 1. access chunk or chunk element when they are not valid. 2. lock failure on chunk element.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RPL-3-MALFORMEDMSG : Malformed [chars] received from: [IPv6 address]

Explanation	This Error message would be encountered if a malformed RPL Control message is received
Recommended Action	Informational

RRM_CLIENT

%RRM_CLIENT-3-CHD_INV_RF_PROF : Coverage message received profile from [chars]

Explanation	CHD message was received for a radio which has a non existent RF Profile Configured.
Recommended Action	Can be seen during configuration changes,if seen otherwise Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RRM_CLIENT-3-EWLC_EXEC_ERR : %% Error: AP [chars] MAC: [hex][hex].[hex][hex].[hex][hex] Slot-id [dec] - [chars]

Explanation	Improper arguments or config
Recommended Action	Arguments to be changed

%RRM_CLIENT-3-RRM_AP_DB_ERR : Load profile violation on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec] Channel load in percentage: [dec] Number of stations: [dec]Load profile recovery on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec]Interference profile violation on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec] Interference in percentage: [dec] On channel: [dec]Interference profile recovery on [chars] AP [hex][hex].[hex][hex].[hex][hex]: Slot: [dec]Noise profile violation on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec] Noise: [dec] dBm On channel: [dec]Noise profile recovery on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec]Coverage profile violation on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec] Failed client count: [dec] Total client count: [dec]Coverage profile recovery on [chars] AP [hex][hex].[hex][hex].[hex][hex] Slot: [dec]RRM failed to create [chars] timerUnable to find AP [hex][hex].[hex][hex].[hex][hex] entry in the database, could not process [chars]

Explanation	Load profile violationLoad profile recoveryInterference profile violationInterference profile recoveryNoise profile violationNoise profile recoveryCoverage profile violationCoverage profile recoveryFailed to create timerThe operation being performed for the AP failed because the internal entry for the AP was not found. It is possible that the AP has been removed from the controller.
Recommended Action	Use the 'show ap summary' command to determine if the AP is still joined to the controller. If it is not, the message may be ignored. If it is still joined, restart the AP to ensure that it has the latest configuration and contact technical assistance if the problem recurs.

%RRM_CLIENT-3-HA_CONFIG_SYNC : Invalid slot number [dec] for AP [hex]:[hex]:[hex]:[hex]:[hex]:[hex] could not process [chars]RRM HA Config tables not yet synced: [chars]

Explanation	AP included wrong slot numberSome critical RRM configuration was found to be missing, \ immediately after switchover.
Recommended Action	If the message appears persistently, RRM may not function as configured. \ System reboot will be required to restore RRM function

%RRM_CLIENT-3-RRM_CONFIG : RRM Config Notification: [chars]

Explanation	Some critical RRM configuration still not populated.
Recommended Action	If the message appears persistently, \ for more than 8 times for each phy type, \ RRM may not function as configured. \ System reboot will be required to restore RRM function

RRM_COMMON_TRACE_MESSAGE

%RRM_COMMON_TRACE_MESSAGE-3-RRM_COMMON_INVALID_SLOT : Error encountered: [chars]

Explanation	Invalid slot identifier is found while processing RRM packet
Recommended Action	Please report the error to technical support representative

RRM_MGR_DB

%RRM_MGR_DB-5-DUPLICATE_IP_WLC : WLC: [chars] having duplicate IP: [dec].[dec].[dec].[dec] detected while \ processing RRM pkt. IP address of the conflicting WLC: [chars] should \ be changed immediately to avoid impact on RRM functionality

Explanation Another WLC in the rf-network is having duplicate IP, it will \ impact RRM functionality for the conflicting controllers

Recommended Action IP address of the conflicting controller \ should be changed immediately

RRM_MGR_TRACE_MESSAGE

%RRM_MGR_TRACE_MESSAGE-3-EWLC_EXEC_ERR : Error in [chars]%% Error: [chars]

Explanation General ewlc Error Message.Improper arguments or config

Recommended Action Arguments to be changed

%RRM_MGR_TRACE_MESSAGE-3-HA_CONFIG_SYNC : Unable to register with platform to receive packets - error [dec] Unable to register with platform to get Management IP Address Change Notification - error [dec]. RRM failed to create [chars] timerRRM HA Config tables not yet synced: [chars]

Explanation Unable to register with platform to receive packetsUnable to register with platform to get Management Interface IP Address Change Notification. Failed to create timerSome critical RRM configuration was found to be missing, \ immediately after switchover.

Recommended Action If the message appears persistently, RRM may not function as configured. \ System reboot will be required to restore RRM function



CHAPTER 7

RRM_UTIL through SYS

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RRM_UTIL through SBC_HA

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RRM_UTIL

%RRM_UTIL-6-SETCHANNEL_ED : Set channel on cell [hex][hex].[hex][hex].[hex][hex]: [dec] to [chars] chanwidth [dec] to reduce co-channel interference from [dec] to [dec] Reason [chars]Set channel on cell [hex][hex].[hex][hex].[hex][hex]: [dec] to [chars] due to Air Quality violation reason [chars]

Explanation Set channel to reduce co-channel interferenceSet channel because of Air Quality Violation

Recommended Action Investigate the cause of bad air quality on the channel and eliminate if possible

RSCMSM

%RSCMSM-3-NO_SUCH_INTERFACE : [chars]: The interface doesn't exist

Explanation The interface for resource measurement doesn't exist at the time of the operation.

Recommended Action Check the configuration to see if that interface is there

%RSCMSM-5-TEST_ALREADY_RUNNING : One test is already running.

Explanation there is already one test running at the same time.

Recommended Action Please wait for the completeness of the running test before starting another test.

%RSCMSM-3-NO_LIST_CREATED : [chars]: Cannot create interface-based rsc list.

Explanation This failure is due to the list create operation.

Recommended Action Please check the memory at the moment.

RSRB

%RSRB-4-OPTNULL : Remopened and t NULL

Explanation An internal software error occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

%RSRB-4-PEERSTAT : Peer [chars], wrong state [dec]

Explanation An internal software error occurred.

%RSRB-4-PEERSTAT : Peer [chars], wrong state [dec]

Recommended Action If any of these messages recur, call your technical support representative for assistance.

%RSRB-4-CONNSTAT : Peer [chars], IFin, bad connection state [dec]

Explanation An internal software error occurred.

Recommended Action If any of these messages recur, call your technical support representative for assistance.

%RSRB-4-BADLEN : Peer [chars], [chars], bad length [dec], trn [dec]

Explanation An internal software error occurred.

Recommended Action If either message recurs, call your technical support representative for assistance.

%RSRB-3-BADVERSIONIF : IFin: [chars]: version mismatch, mine [dec], theirs [dec]

Explanation The remote end of a direct serial peer is running the wrong version of the system software. Either the local end, the remote end, or both are not up to date.

Recommended Action Call your technical support representative for an update.

%RSRB-3-BADVERSIONFST : FSTin: [chars]: version mismatch, mine [dec], theirs [dec]

Explanation The remote end of a direct serial peer is running the wrong version of the system software. Either the local end, the remote end, or both are not up to date.

Recommended Action Call your technical support representative for an update.

%RSRB-3-BADVERSIONTCP : [chars]: [dec]/[IP_address]: version mismatch, mine [dec], theirs [dec]

Explanation The remote end of a TCP remote peer is running the wrong version of the system software. Either the local end, the remote end, or both are not up to date.

Recommended Action Call your technical support representative for an update.

%RSRB-3-IFERR : [chars]: [chars]: [chars], op [hex], len [dec], trn [dec]

Explanation The remote end of a direct serial RSRB connection detected a configuration problem or traffic that is not recognized by the configuration.

Recommended Action Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration. The destination target ring is denoted by the value of trn.

%RSRB-3-SENDPUNTIF : [chars]: sent [chars] to [chars]

Explanation The local end of a direct serial RSRB connection detected a configuration problem or traffic that is not recognized by the configuration.

Recommended Action Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration.

%RSRB-3-FSTERR : [chars]: [chars]: [IP_address], op [hex], len [dec], trn [dec]

Explanation The remote end of a direct serial RSRB connection detected a configuration problem or traffic that is not recognized by the configuration.

Recommended Action Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration. The destination target ring is denoted by the value of trn.

%RSRB-3-SENDPUNTFST : [chars]: sent [chars] to [chars]

Explanation The local end of a direct serial RSRB connection detected a configuration problem or traffic that is not recognized by the configuration.

Recommended Action Examine the configuration on both sides of the serial connection for possible problems. Examine the traffic being offered for propagation with respect to the configuration.

%RSRB-4-BADLENIP : Peer [dec]/[IP_address], [chars], bad length [dec], trn [dec]

Explanation An internal software error occurred.

Recommended Action If either message recurs, call your technical support representative for assistance.

%RSRB-4-ILLPEER : Peer [chars] [%-08x], illegal state [dec]

Explanation An internal software error occurred.

Recommended Action If either of these messages recur, call your technical support representative for assistance.

%RSRB-4-CONNILLSTATE : Peer [chars], CONN, illegal state [dec]

Explanation An internal software error occurred.**Recommended Action** If any of these messages recur, call your technical support representative for assistance.

%RSRB-4-CONIPST : Peer [dec]/[IP_address], CONN, illegal state [dec]

Explanation An internal software error occurred.**Recommended Action** If any of these messages recur, call your technical support representative for assistance.

%RSRB-3-HDRNOVRP : Peer [IP_address], HDR, no vrp

Explanation An internal software error occurred.**Recommended Action** If any of these messages recur, call your technical support representative for assistance.

%RSRB-3-HDRVRP : Peer [dec]/[IP_address], HDR, vrp state wrong, [dec]

Explanation An internal software error occurred.**Recommended Action** If any of these messages recur, call your technical support representative for assistance.

%RSRB-4-HDRRECV : Peer [dec]/[IP_address], HDR, rcv state invalid, not empty [dec]

Explanation An internal software error occurred.**Recommended Action** If any of these messages recur, call your technical support representative for assistance.

%RSRB-3-NOMEMORY : Unit [dec], no memory for [chars]

Explanation The requested operation could not be accomplished because of a low memory condition.**Recommended Action** Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%RSRB-4-LOCAL : Unit [dec], local/vring set simultaneously, vrn [dec]

Explanation	An internal software error occurred.
Recommended Action	If either of these messages recur, call your technical support representative for assistance.

%RSRB-3-NOTREM : Null idb and not remote

Explanation	An internal software error occurred.
Recommended Action	If any of these messages recur, call your technical support representative for assistance.

%RSRB-4-BADVRE : Bad vre type

Explanation	An internal software error occurred.
Recommended Action	If any of these messages recur, call your technical support representative for assistance.

%RSRB-4-RNGXFAIL : Ring exchange failure, resetting peer: [chars]

Explanation	The RSRB peer initiation logic failed due to a memory shortage or congestion condition.
Recommended Action	The problem should clear and the peers should re-open without operator intervention.

RSVP

%RSVP-5-CLEAR_COUNTERS : Clear RSVP message counters by [chars]

Explanation	The RSVP message counters have been cleared
Recommended Action	No action is required.

%RSVP-5-NO_MATCH_IF_ID_HOP : Received PATH ([IP_address] [int]->[IP_address] [int]) - Failed to find interface from IF_ID HOP from neighbor [IP_address]

Explanation	The interface id in the HOP object does not match any of this node's interfaces.
Recommended Action	Verify the configuration.

%RSVP-3-BAD_RMSG_TIMER : Inconsistent RSVP reliable message timer

Explanation	The summary refresh timer may be blocked.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Issue the show tech-support rsvp command to gather data which may help identify the nature of the error. Then send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_LEN : RSVP Message had a bad length; ip data len: [dec] rsvp len: [dec]

Explanation	The router received an RSVP message with the length field set to an unexpected value. Be aware that a bad length error may also be a side-effect of packet corruption.
Recommended Action	LOG_BAD_RSVP_MSG_ACTION Copy the error message(s) exactly as it appears on the console or in the system log. Issue the show tech-support rsvp command to gather data that may help identify the nature of the error and send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_MALFORMED : RSVP Message was malformed; traversed objects len: [dec] rsvp msg len: [dec]

Explanation	An error was encountered during validation of the objects in an RSVP message received by the router.
Recommended Action	LOG_BAD_RSVP_MSG_ACTION Copy the error message(s) exactly as it appears on the console or in the system log. Issue the show tech-support rsvp command to gather data that may help identify the nature of the error and send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_VER : RSVP Message had a bad version: [dec]

Explanation	The router received an RSVP message with the version field set to an unexpected value.
Recommended Action	LOG_BAD_RSVP_MSG_ACTION Copy the error message(s) exactly as it appears on the console or in the system log. Issue the show tech-support rsvp command to gather data that may help identify the nature of the error and send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_CHECKSUM : RSVP Message had a bad checksum: [dec] foo: [dec]

Explanation	The router received an RSVP message with the checksum field incorrectly set. Bad checksums would most likely be caused by packet corruption outside RSVP. Be aware that corruption reported by RSVP might also be affecting other protocols on the router and might explain other unexpected non-RSVP protocol behavior. Please attempt to track down the source of the corruption.
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%RSVP-3-BAD_RSVP_MSG_RCVD_CHECKSUM : RSVP Message had a bad checksum: [dec] foo: [dec]

Recommended Action LOG_BAD_RSVP_MSG_ACTION Copy the error message(s) exactly as it appears on the console or in the system log. Issue the **show tech-support rsvp** command to gather data that may help identify the nature of the error and send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_TYPE : RSVP Message had a bad type: [dec]

Explanation The router received an incorrect RSVP message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the **show tech-support rsvp** command to gather data which may help identify the nature of the error. Then send this information to your Cisco technical support representative.

%RSVP-3-IP_HDR : [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation This is an auxiliary message to several packet-related messages. It displays the contents of 8 32-bit words immediately following the start of the IPv4/v6 header, in hex format. To decode the information in the IPv4 and IPv6 headers, please refer to RFCs 791 and 2460.

Recommended Action Decode the information in the IPv4 and IPv6 headers to determine the source of the RSVP message.

%RSVP-3-MSG_1 : [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation This is an auxiliary message to several packet-related messages. It displays the contents of the first 8 32-bit words immediately following the start of the RSVP header, in hex format. To decode the information in the RSVP header, please refer to RFC 2205.

Recommended Action If you need additional information about the packet, then turn on **debug ip rsvp dump-messages <msg type> [hex]** and try to capture the bad message. If you use the hex version of this command, you can convert it to pcap format with the offline tool text2pcap and then view the contents with another offline tool such as ethereal.

%RSVP-3-MSG_2 : [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Explanation This is an auxiliary message to several packet-related messages. It displays the contents of the next 8 32-bit words following those that are printed by the MSG_1 message above, in hex format. To decode the information in these 32-bit words, please refer to RFC 2205.

%RSVP-3-MSG_2 : [hex] [hex] [hex] [hex] [hex] [hex] [hex] [hex]

Recommended Action If you need additional information about the packet, then turn on `debug ip rsvp dump-messages <msg type> [hex]` and try to capture the bad message. If you use the hex version of this command, you can convert it to pcap format with the offline tool `text2pcap` and then view the contents with another offline tool such as `ethereal`.

%RSVP-3-BAD_RSVP_MSG_RCVD_OBJ_LEN : Received a bad RSVP message, num objs: [dec] obj len: [dec] msg len: [dec]

Explanation An error was encountered during validation of the objects in an RSVP message received by the router. The number of objects in the RSVP message was found to be greater than the maximum expected number or the size of an object was found to be smaller than the minimum expected size.

Recommended Action `LOG_BAD_RSVP_MSG_ACTION` Copy the error message(s) exactly as it appears on the console or in the system log. Issue the `show tech-support rsvp` command to gather data that may help identify the nature of the error and send this information to your Cisco technical support representative.

%RSVP-3-CONSISTENCY : [chars]: [chars] [chars] [chars]

Explanation An action attempted by the rsvp implementation encountered an unexpected condition

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Issue the `show tech-support rsvp` command to gather data which may help identify the nature of the error. Then send this information to your Cisco technical support representative.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_NO_SA : [chars] message from [IP_address] discarded: no security association for [IP_address] - no RSVP security key configured or no memory left.

Explanation The router received an RSVP message that contained a secure hash but dropped the message because the router was not able to create a security association for the sending system.

Recommended Action Check the configuration on the router to make sure that RSVP has access to a security key for the sending system. If such a key is configured, then check to see if the router has run out of memory.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_DIGEST : [chars] message from [IP_address] discarded - incorrect message digest

Explanation The router received an RSVP message that contained a different secure hash from the one computed by the router. RSVP discarded the message because the message may have come from an untrusted source.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_DIGEST : [chars] message from [IP_address] discarded - incorrect message digest

Recommended Action Check the configuration on the router and the sending system to make sure they are using the correct security key and secure hash algorithm.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_WIN : [chars] message from [IP_address] discarded - seq #[int] outside authentication window

Explanation The router received an RSVP message whose authentication sequence number is less than the lower limit of the out-of-order window. RSVP discarded the message because an untrusted source may be (unsuccessfully) attempting an RSVP message replay attack.

Recommended Action It is possible that a trusted source is sending a burst of reordered RSVP messages that is too large for the authentication window size. If you can verify that the source is trusted and its messages are being sent in large reordered bursts, use the **ip rsvp authentication window-size** command to increase the window size on the receiving router. It is also possible that a trusted source has rebooted and its clock has gone backward in time; in this case, the source should be configured to synchronize its clock with an NTP server. Otherwise, the sender could be an untrusted source (unsuccessfully) attempting an RSVP message replay attack; try to find and disable the untrusted source.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_DUP : [chars] message from [IP_address] discarded - authentication seq #[int] is a duplicate

Explanation The router received an RSVP message with an authentication sequence number that has already been seen. RSVP discarded the message because an untrusted source may be (unsuccessfully) attempting an RSVP message replay attack.

Recommended Action If you can verify that the source is trusted, it is possible that the source has rebooted and its clock has gone backward in time; in this case, the source should be configured to synchronize its clock with an NTP server. Otherwise, the sender could be an untrusted source (unsuccessfully) attempting an RSVP message replay attack; try to find and disable the untrusted source.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_COOKIE : [chars] message from [IP_address] discarded - challenge failed for key ID %*s

Explanation The router sent an RSVP message to challenge the untrusted source to compute a secure hash on a random piece of data and return the hash with the same data, but the source did not return the expected data. RSVP discarded the response because the untrusted source may be (unsuccessfully) attempting an RSVP challenge response replay attack.

%RSVP-3-BAD_RSVP_MSG_RCVD_AUTH_COOKIE : [chars] message from [IP_address] discarded - challenge failed for key ID %*s

Recommended Action If you can verify that the source is trusted, it is possible that the source has malfunctioned; in this case, copy the error message exactly as it appears on the console or in the system log, issue the **show tech-support rsvp** command to gather data which may help identify the nature of the error, and send this information to your Cisco technical support representative. Otherwise, try to find and disable the untrusted source.

%RSVP-3-RSVP_MSG_AUTH_CHALLENGE_TIMEOUT : No response to challenge issued to [IP_address] for key ID %*s

Explanation The router sent an RSVP message to challenge the untrusted source to compute a secure hash on a random piece of data and return the hash with the same data, but the source did not reply. The source may have crashed or lost its network connection. However, it is also possible that the source was (unsuccessfully) attempting to replay an RSVP message before the challenge and gave up when it saw the challenge from the router

Recommended Action If you can verify that the source is trusted, try to determine if it has crashed or lost its network connection and then restore network connectivity to it. If the source repeatedly crashes when challenged, a temporary workaround might be to disable challenges on the router by issuing a **no ip rsvp authentication challenge** command until the problem on the source is resolved. Otherwise, assume the source is untrusted; try to find and disable it.

%RSVP-3-RSVP_MSG_AUTH_TYPE_MISMATCH : [chars] message from [IP_address] discarded - authentication algorithm mismatch

Explanation The router received an RSVP message from a source that required authentication but the received message was using the wrong authentication algorithm.

Recommended Action Issue a **show ip rsvp authentication detail <source>** command on the router to display the expected algorithm type. Then find the source and change its configuration to match.

%RSVP-5-RSVP_AUTH_ONE_KEY_EXPIRED : Key (ID) [int] in chain [chars] has expired

Explanation The router has detected that one key in a RSVP key chain has expired and that RSVP has switched to the next unexpired key in that chain.

Recommended Action Update the key chain by changing the text and expiration time(s) for the expired key.

%RSVP-2-RSVP_AUTH_KEY_CHAIN_EXPIRED : All the keys in chain [chars] have expired - please update the key chain now

Explanation The router attempted to use a key in an RSVP key chain but discovered that all the keys in the chain have expired. The router will attempt to find another suitable key. If no other suitable per-neighbor key can be found, the router will attempt to use key (chain) configured for the interface over which the authenticated RSVP message is being sent or received.

Recommended Action Update the key chain by updating the text and expiration time(s) for the expired key(s).

%RSVP-1-RSVP_AUTH_NO_KEYS_LEFT : No valid keys left for [IP_address]

Explanation The router attempted to use a key in an RSVP key chain but discovered that all the keys in the chain have expired and no other per-neighbor or per-interface keys are available for the specified neighbor. The router will continue to use the last key in the chain rather than revert to an unauthentication condition. However, the specified neighbor router may start discarding RSVP messages at that point and reservations with that neighbor may eventually time out.

Recommended Action Update the key chain by updating the text and expiration time(s) for the expired key(s).

%RSVP-4-RSVP_AUTH_DUPLICATE_KEY_ID : Key chains [chars] and [chars] contain duplicate key ID [int]

Explanation An attempt is being made to add a new key identifier to a key chain in the router configuration but RSVP detected that this identifier is found in another key chain already assigned to RSVP. Since key identifiers must be unique across all the key chains used by RSVP, RSVP will not use the keys with this identifier in all such key chains. This could cause RSVP authentication to fail in some cases.

Recommended Action Update the listed key chain(s) so they use different key identifiers.

%RSVP-5-RSVP_AUTH_KEY_ACL_CHANGE : Key chain [chars][chars] for [IP_address] because ACL [chars] [chars]

Explanation	The ACL specified in the message text associates the key chain specified in the message text with a set of RSVP neighbors. RSVP uses the specified key chain to authenticate each RSVP message exchanged with that set of RSVP neighbors after the association is configured. Subsequently, the specified ACL has been reconfigured such that the key chain association is no longer valid for one or more RSVP neighbors in the set. This causes RSVP to search the configuration for another suitable key chain to use with those neighbors. If no such key chain is found, RSVP will no longer be able to provide authentication for messages exchanged with those RSVP neighbors. This causes RSVP to discard RSVP messages from that set of neighbors. Because this may ultimately lead to loss of RSVP functionality with those neighbors, RSVP generates this system message. This system message may also be generated if the ACL is subsequently changed so that it re-associates RSVP neighbors with the specified key chain. If RSVP is not using another key chain for the set of RSVP neighbors specified by the ACL, RSVP will begin using the specified key chain to exchange authenticated RSVP messages with that set of RSVP neighbors, potentially restoring RSVP functionality with those neighbors.
Recommended Action	If the ACL change unexpectedly caused authentication to be disabled or enabled for one or more RSVP neighbors, undo the ACL change so that RSVP authentication is not impacted.

%RSVP-3-RSVP_MFI_RECOVERY : RSVP calculated Recovery Time is longer than TE Rewrite Hold-Time registered with LSD. Some LSPs may not be recovered.

Explanation	TE registered a maximum cutover time with the LSD that is less than the time it may actually take to recover all LSPs. As a result, more than usual traffic loss may occur on some LSPs during recovery
Recommended Action	Make note of the number of Checkpointed LSPs in the RSVP HA database by issuing the command show ip rsvp high-availability database internal . This number likely exceeds the hard defined limit of the number of recoverable LSPs. Provide this information to Cisco technical support representative.

RTMGR

%RTMGR-3-GENERAL : [chars]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-UNLOCK_ERR : Attempt to unlock active topology '[chars]' (in VRF [chars] [chars])

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-VRF_ERR : Topology VRF [chars] creation error

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_VRF_ERR : Topology [chars] address-family [chars] has no VRF entry

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_IPMCAST_BASE_ERR : Failed to create the base mcast topology in vrf [chars] with error [chars]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_INTF_CTX : Interface [chars] address-family [chars] topology context is NULL or the function [chars] is not set

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_SYNC_ERR : Failed to duplicate active topology on standby (rc=[dec]), id [hex] [chars]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_UNSUPPORTED_AFI : Attempt to enable unsupported AFI ([hex])

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_AF_ENABLE_ERR : Failed to enable AF base topology [chars] (error [chars])

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_AFI_CTX : Topology address-family [chars] context block is NULL.

Explanation	An internal software error occurred.
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%RTMGR-3-TOPO_AFI_CTX : Topology address-family [chars] context block is NULL.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_INTF_INV_VRFID : Interface [chars] with invalid vrfid [hex]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_CACHE_INIT_ERROR : ([chars])

Explanation cached topo initialization failure

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_CACHE_ADD_ERROR : ([chars])

Explanation cached topo entry creation failure

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_CACHE_ERROR : ([chars])

Explanation cached topo failure

%RTMGR-3-TOPO_CACHE_ERROR : ([chars])

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%RTMGR-3-TOPO_LCKMGR_INIT_ERROR : ([chars]) manager init failure

Explanation	Topology lock manager initialization failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_LCKMGR_GET_LOCK_COUNT_ERROR : Failed to get lock count for topology([chars])

Explanation	Topology lock manager get lock count failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_HA_LOCK_IVRF_TOPO : Acquired a HA lock on an iVRF topology([chars])

Explanation	Topology HA lock shouldn't be applied in an iVRF topology
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_UNSUPPORTED_API : Topology API [chars] is unsupported due to [chars]

Explanation	Topology API is unavailable
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_PROCESS_INIT_ERROR : Topology process init failed due to [chars]

Explanation	Topology process initialization failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%RTMGR-3-TOPO_SUBMODE_ERROR : Unexpected transition from parser submode '[chars]'

Explanation	An error occurred while parsing the topology command
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

RTT

%RTT-4-DuplicateEvent : IP SLAs [dec]: Duplicate event received. Event number [dec]

Explanation	IP SLAs process has received a duplicate event
Recommended Action	This is only a warning message. If this recurs, enter the command <CmdBold>show ip sla configuration<NoCmdBld> and copy the output of the command. Copy the message as it appears on the console or in the system log, contact your Cisco technical support representative, and provide the representative with the gathered information along with information about the application that is configuring and polling the Service Assurance Agent probes.

%RTT-3-IPSLANOPROCESS : IP SLAs: Cannot create a new process

Explanation	IP SLAs is unable to start a new process, and may not be running.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%RTT-3-IPSLANEGATIVEVALUE : IP SLAs([dec]): Negative Value for [chars]

Explanation	IP SLAs statistics has generated an error message.
Recommended Action	Contact your Cisco technical support representative

%RTT-3-IPSLAPROBENOTFOUND : IP SLAs: Error deleting the probe

Explanation	Trying to delete a probe which does not exist
Recommended Action	Contact your Cisco technical support representative

%RTT-3-IPSLATHRESHOLD : IP SLAs([dec]): Threshold [chars] for [chars]

Explanation	This informational message logs threshold violations in the Service Assurance Agent probes. This messages appears when the ip sla logging trap command is entered
Recommended Action	If this message is not necessary, enter the no ip sla logging trap command to disable logging. Otherwise, no action is required

%RTT-3-IPSLAINITIALIZEFAIL : IP SLAs: Failed to initialize, IP SLAs functionality will not work

Explanation	IP SLAs failed to initialize. This condition is caused by either a timer wheel timer functionality init that failed or a process that could not be created. A likely cause of this condition is that sufficient memory is not available to complete the task.
Recommended Action	Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . LOG_STD_REDUCE_ACTION

%RTT-3-IPSLATWINITFAIL : IP SLAs: Generic Timer wheel timer functionality failed to initialize

Explanation	IP SLAs could not initialize the timer wheel.
Recommended Action	Search for resolved software issues using the Bug Toolkit at http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl . LOG_STD_REDUCE_ACTION

%RTT-4-IPSLACLOCKNOTSET : IP SLAs Probe(s) could not be scheduled because clock is not set.

Explanation	One or more IP SLAs probes could not be scheduled because system clock is not set.
Recommended Action	Ensure that the system clock is functional by using Network Time Protocol or another mechanism.

%RTT-4-IPSLASCHEDCONFIGFAIL : IP SLAs Probe [dec]: [chars]

Explanation	The IP SLAs probe could not be scheduled. Either the configured starting time has already occurred, or the starting time is invalid.
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%RTT-4-IPSLASCHEDCONFIGFAIL : IP SLAs Probe [dec]: [chars]

Recommended Action Reschedule the failed probe with a valid start time.

%RTT-3-IPSLARESPTWINITFAIL : IP SLAs responder initialization failed

Explanation

Recommended Action

%RTT-4-IPSLAENDPOINTDEREGISTER : IP SLAs end point de-registered by hub [IP_address].

Explanation

Recommended Action

%RTT-4-IPSLAAUTODISCOAUTHFAIL : IP SLAs end point discovery authentication failure for spoke [IP_address].

Explanation The IP SLAs responder initialization failed to initialize timerwheel. Because of this failure the IP SLAs probes on other routers for which this router acts as responder will not work.

Recommended Action Contact your Cisco technical support representative.

%RTT-3-IPSLARESPEVQINITFAIL : IP SLAs responder initialization failed

Explanation The IP SLAs responder initialization failed to initialize event queue. Because of this failure the IP SLAs probes on other routers for which this router acts as responder will not work.

Recommended Action Contact your Cisco technical support representative.

%RTT-3-IPSLARTPAPPINITFAILED : IP SLAs rtp operation application process initialization failed

Explanation The IP SLAs rtp operation application process failed to initialize. Because of this failure the IP SLAs rtp operations will not work.

Recommended Action Contact your Cisco technical support representative.

%RTT-4-SAASCHEDCONFIGFAIL : IP SLA Monitor Probe [dec]: [chars]

Explanation	The IP SLA Monitor probe could not be scheduled. Either the configured starting time has already occurred, or the starting time is invalid.
Recommended Action	Reschedule the failed probe with a valid start time.

%RTT-4-SAAGRPSCHEDCONFIGFAIL : Group Schedule Entry [dec]: [chars]

Explanation	The probes could not be group scheduled. Either the configured starting time has already occurred, or the starting time is invalid.
Recommended Action	Reschedule the group scheduling entry with a valid start time.

%RTT-3-SAAMPLS : IP SLA Monitor([dec]): MPLS [chars] Probe [chars] [chars] for destination-address [IP_address] lsp-selector [IP_address]

Explanation	This informational message logs violations in the Service Assurance Agent probes. This messages appears when the <code>ip sla logging trap</code> command is entered
Recommended Action	If this message is not necessary, enter the <code>no ip sla logging trap</code> command to disable logging. Otherwise, no action is required

%RTT-3-IPSLA_AQM : [chars]: [chars]

Explanation	This message indicates software error in IPSLA auto qos monitor feature.
Recommended Action	Contact your Cisco technical support representative.

%RTT-4-OPER_TIMEOUT : condition [chars], entry number = [dec]

Explanation	This message logs timeout condition in the IPSLAs operations. This message is enabled when the <code>ip sla monitor logging trap</code> command is entered
Recommended Action	Ensure that the destination for the IPSLAs operation is reachable. If you do not want to log these messages for IPSLAs operations, enter the <code>no ip sla monitor logging trap</code> command to disable the logging

%RTT-4-OPER_CLOSS : condition [chars], entry number = [dec]

Explanation	This message logs connection loss condition in the IPSLAs operations. This message is enabled when the <code>ip sla monitor logging trap</code> command is entered
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%RTT-4-OPER_CLOSS : condition [chars], entry number = [dec]

Recommended Action	Ensure the the destination for the IPSLAs operation is reachable. Also ensure that the IPSLAs responder operation is configured on the destination. If you do not want to log these messages for IPSLA operations, enter the no ip sla monitor logging trap command to disable logging.
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%RTT-4-AUTOAPI : IPSLAs Auto CFG ERR: [chars]([chars]) [chars]

Explanation	An error occured while configuring IPSLAs Auto parameters. Some, or all of your configurations may not have been (un)set
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Recommended Action	Please check the configuration and try again
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%RTT-4-AUTOAPIOPER : IPSLAs Auto CFG ERR: [chars]([chars])([dec]) [chars]

Explanation	An error occured while configuring IPSLAs Auto parameters. Some, or all of your configurations may not have been (un)set
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Recommended Action	Please check the configuration and try again
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%RTT-3-AUTO : Error: [chars]

Explanation	An error occured while generating IPSLAs Auto operation.
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Recommended Action	Please check the configuration and try again
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%RTT-4-AUTOMEM : IPSLAs Auto MEM ERR: [chars]([chars]) [chars]

Explanation	IPSLAs Auto feature failed during memory allocation
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Recommended Action	These maybe transient errors, please try again
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%RTT-4-INVALIDSRCIPADDR : Possible invalid src IP address ([IP_address]) configured.

Explanation	This message appears when no source IP address is found on the host matching the one specified by the user
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Recommended Action	Unconfigure the probe and reconfigure with valid source IP address
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%RTT-3-REACTNOTIFYFAILED : entry number = [dec], reason = [chars]

Explanation IPSLAs Reaction condition was met for specified operation and one or more IPSLAs Event Publisher clients have registered interest for this condition but the notification for this occurrence failed.

Recommended Action These maybe transient system errors and the notification may work next time. Use show ip sla event-publisher command to see which clients are registered and take action recommended by them.

%RTT-4-REACTPARTIALEVENT : entry number = [dec], missing data = [chars]

Explanation IPSLAs Reaction Event is missing some interesting data

Recommended Action This could be because of IPSLAs software error. Please collect show ip sla config output and report issue to TAC

%RTT-3-EPNOTIFYFAILED : event type = [chars], client = [chars], reason = [chars]

Explanation Notification for specified type to specified IPSLAs Event Publisher client failed

Recommended Action This maybe transient system error and the notification may work next time. Take the action as suggested by the identified client for loss of notification.

%RTT-3-EPSTARTERROR : Failed to start IPSLAs Event Publisher

Explanation IPSLAs is unable to start a new process for Event Publisher. Reaction Alert notifications will not work.

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%RTT-3-EPURFTYPE : IPSLAs EventPublisher: Unknown reaction filter type for client [chars]

Explanation IPSLAs Event Publisher encountered unknown filter type while sending the reaction alert to specified client Reaction Alert notifications may continue to work for same and other clients.

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%RTT-4-EPINIT : IPSLAs Event Publisher Init Failed. Reason = [chars]

Explanation IPSLAs Event Publisher Initialization failed. The system will try to recover by doing the initialization tasks when first client subscribes to IPSLAs events.

%RTT-4-EPINIT : IPSLAs Event Publisher Init Failed. Reason = [chars]

Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.
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%RTT-4-EPAPI : IPSLAs EP API: [chars] api failed, client = [chars], reason = [chars]

Explanation	IPSLAs Event Publisher API failed for reason identified
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Recommended Action	The error code is reported to API client. Take the action recommended by the client identified.
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%RTT-4-OPER_PROTOERR : Entry number = [dec], Protocol Specific Error [chars], specific code = [dec]

Explanation	This message logs protocol specific error condition in the IPSLAs operations. This message is enabled when the <code>ip sla logging traps</code> command is entered
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Recommended Action	Ensure that the destination for the IPSLAs operation is reachable. Also ensure that the IPSLA responder operation is configured on the destination. If you do not want to log these messages for IPSLAs operations, enter the <code>no ip sla logging traps</code> command to disable the logging
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%RTT-3-XOS_XDM_ERR : IP SLAs: Cannot create a new xdm instance

Explanation	IP SLAs is unable to start a new xdm instance and may not be running.
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Recommended Action	This message indicates that the system is running out of xdm instance and the IPSLAs configured after this message may fail. So do not configure any probe after this syslog
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%RTT-3-IPSLARESP_UDP_PORT_IN_USE : IP SLA Responder: udp: [chars] - [dec] Port already in use.

Explanation	IP SLA Responder is unable to bind the socket as the port specified in the port enable control message is already in use by other application.
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Recommended Action	This message indicates that the port configured. in the udp-jitter operation targeting this Responder is already in use and it is recommended to reconfigure the udp operation with a different port number.
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%RTT-3-IPSLARESP_TCP_PORT_IN_USE : IP SLA Responder: tcp: [chars] - [dec] Port already in use.

Explanation	IP SLA Responder is unable to bind the socket as the port specified in the port enable control message is already in use by other application.
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Recommended Action	This message indicates that the port configured. in the udp-jitter operation targeting this Responder is already in use and it is recommended to reconfigure the tcp operation with a different port number.
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SADB**%SADB-4-TREE_CORRUPTED : SADB : AVL Tree got corrupted**

Explanation	SADB's one of the AVL Trees got corrupted
Recommended Action	No action is required.

SBC**%SBC-3-FEAT_DOWN : Invalid request [chars] while feature down, call id [int]**

Explanation	While the feature was not active, an invalid request was received from another layer of the SBC software stack for the specified call ID. Some requests do not have an associated call ID. For them the displayed call ID is zero.
Recommended Action	This is a software issue. The consequences could be limited to only one or a few calls. LOG_STD_RECUR_ACTION

%SBC-3-FEAT_UP : Invalid request [chars] while feature up

Explanation	While the feature was active, an invalid request was received from another layer of the SBC software stack.
Recommended Action	This is a software issue. There are no consequences as this can only have been an Init request while the feature was already active. LOG_STD_RECUR_ACTION

%SBC-3-NO_RES : [chars] resource not available for the [chars] request, call id [int]

Explanation	The specified software resource was not available or could not be located for the specified request from upper SBC software stack layers for the specified call ID.
Recommended Action	This is a software issue. The consequences are that the specified request could not be performed. LOG_STD_RECUR_ACTION

%SBC-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]

Explanation	For a request from upper SBC software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck call that cannot be established etc. In rare cases this could also affect other operations such as feature activation, deactivation, modification, High-Availability switchover operations.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%SBC-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation For a request from upper SBC software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck call that cannot be established etc. In rare cases this could also affect other operations such as feature activation, deactivation, modification, High-Availability switchover operations.

Recommended Action This is normally a software issue. LOG_STD_RECUR_ACTION

%SBC-2-IPC_INIT : IPC message handler registration failure, rc [int]

Explanation Registering an IPC message handler for the SBC feature failed. This will cause the feature not to function. The function

Recommended Action This is normally a software issue. The consequences are that the SBC feature will not function. LOG_STD_ACTION

%SBC-3-MEM_INIT_FAILED : Allocation of [chars] memory failed for SBC

Explanation SBC Initialization of channel pool failed.

Recommended Action LOG_STD_ACTION

%SBC-3-PKT_REPLICA_INIT_FAILED : Register to Generic Packet Replication failed for SBC

Explanation SBC Initialization of packet replication registration failed.

Recommended Action LOG_STD_ACTION

SBC_CFG

%SBC_CFG-3-DBE_CONFIG_FAILURE : An SBC DBE configuration failure has occurred.

Explanation SBC has been unable to apply its DBE configuration.

Recommended Action Attempt to manually reconfigure the SBC DBE. LOG_STD_ACTION

%SBC_CFG-6-SERVICE_CHANGE_COLD_BOOT : Delay [chars].

Explanation SBC has been configured to delay sending a ServiceChange message at boot. Upon the delay timer expiring, the ServiceChange message will be sent.

%SBC_CFG-6-SERVICE_CHANGE_COLD_BOOT : Delay [chars].

Recommended Action	This message is for informational purposes only. A ServiceChange message will be sent out once the delay timer expires.
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%SBC_CFG-4-SERVICE_CHANGE_COLD_BOOT_DELAY_FAILED : Failed to delay ServiceChange.

Explanation	SBC has failed to start a timer for delaying a ServiceChange message at boot. The ServiceChange message will be sent out without a delay.
Recommended Action	Ensure that SBC has been fully Activated and that all requested pinholes have been established. LOG_STD_ACTION

%SBC_CFG-3-SERVICE_CHANGE_COLD_BOOT_FAILED : Delayed ServiceChange failed.

Explanation	SBC has failed to send the delayed ServiceChange message at boot.
Recommended Action	Ensure that the SBC configuration is valid, and perform a manual SBC Activation.

%SBC_CFG-3-MED_NOT_DEL_V4 : IPv4 address(es) deleted ([IP_address] [IP_address], VRF '[chars]'), media addresses/pools not removed.

Explanation	One or more IPv4 addresses of an SBC interface were removed while the SBC was still active. Please remove the media addresses/pools later manually. If the media addresses/pools were associated with a VRF then it will be necessary to remove the media addresses/pools by unconfiguring the SBC.
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Recommended Action

%SBC_CFG-3-MED_NOT_DEL_V6 : IPv6 address(es) deleted ([IPV6 address]/[int] VRF '[chars]'), media addresses/pools not removed.

Explanation	One or more IPv6 addresses of an SBC interface were removed while the SBC was still active. Please remove the media addresses/pools later manually. If the media addresses/pools were associated with a VRF then it will be necessary to remove the media addresses/pools by unconfiguring the SBC.
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Recommended Action

%SBC_CFG-3-SBC_NOT_CONFIG : SBC is not configured. VOIP LI configuration request failed

Explanation	Since SBC is not configured, the VOIP LI request is rejected. First configure SBC and then VOIP LI requests will be processed.
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%SBC_CFG-3-SBC_NOT_CONFIG : SBC is not configured. VOIP LI configuration request failed

**Recommended
Action**

%SBC_CFG-4-BLACKLIST_CLEARED : Source [chars]: cleared blacklist event or alert, reason: [chars]

Explanation A blacklist event or alert is cleared.

**Recommended
Action**

%SBC_CFG-4-BLACKLIST_MINOR : Source [chars]: minor blacklist alert, reason: [chars]

Explanation A minor blacklist alert has been generated.

**Recommended
Action**

%SBC_CFG-4-BLACKLIST_MAJOR : Source [chars]: major blacklist alert, reason: [chars]

Explanation A major blacklist alert has been generated.

**Recommended
Action**

%SBC_CFG-4-BLACKLIST_CRITICAL : Source [chars]: critical blacklist alert, reason: [chars]

Explanation A critical blacklist alert has been generated.

**Recommended
Action**

%SBC_CFG-4-BLACKLIST_BLOCKED : Source [chars]: blacklisted, blocked, reason: [chars]

Explanation The source is blacklisted.

**Recommended
Action**

SBC_HA

%SBC_HA-3-INTERNAL : An internal SBC HA error has been encountered[chars].

Explanation An internal error has been encountered.

%SBC_HA-3-INTERNAL : An internal SBC HA error has been encountered[chars].

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SBC_HA-3-LARGE_IPS_MSG : SBC failed to receive large sync message of size [dec].

Explanation	The SBC module was unable to successfully receive a large sync message on the Standby. The Standby will be will not have an identical dynamic state as the Active.
Recommended Action	No action is required.

%SBC_HA-3-LARGE_IPS_MSG_FAIL : SBC failed to send large sync message of size [dec].

Explanation	The SBC module was unable to successfully send a large sync message to the Standby because this version of the Standby does not support large messages. The Standby will be will not have an identical dynamic state as the Active.
Recommended Action	No action is required.

%SBC_HA-3-CONFIG_SYNC : SBC failed to cache SBC config of size [dec].

Explanation	The SBC module was unable to successfully cache the SBC config on the Standby. The Standby will be unable to write SBC config to NVRAM.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-RF_REGISTRATION : SBC RF failed to register

Explanation	The SBC module was unable to successfully register with the RF infrastructure. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-WATCH_PROGRESSION : SBC RF failed to create progression watch points.

Explanation The SBC module was unable to successfully create the RF progression watch points. RF progression will not be suspended at bulk synchronisation time, so some SBC calls may be lost if a switchover occurs immediately after the system reaches the Standby Hot redundancy state.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-NO_SYNC_PROCESS : SBC RF failed to start the config sync process.

Explanation The SBC module was unable to successfully start the configuration sync process. The Standby will be unable to fully initialise.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-RF_TIMER_EXTENSION_EXPIRY : SBC RF progression extension timer expired.

Explanation The SBC module's RF progression extension timer expired. RF progression will resume, but if a switchover occurs immediately after the system reaches the Standby Hot redundancy state then some SBC calls may be lost.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-HOLD_PROGRESSION : SBC RF failed to start the progression holding process.

Explanation The SBC module was unable to successfully start the RF progression holding process. RF progression will resume immediately, but if a switchover occurs immediately after the system reaches the Standby Hot redundancy state then some SBC calls may be lost.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-RF_PROGRESSION : SBC RF failed to resume RF progression at state [chars].

Explanation The SBC module was unable to successfully resume RF progression at the noted state. The Standby will be unable to fully initialise.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-RF_CONFIG_SYNC : SBC RF will not be able to synchronise SBC configuration to the Standby. Failure cause: [chars].

Explanation The SBC module will not be able to synchronise the SBC config to the Standby. The Standby will be unable to write SBC config to NVRAM.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-IPC_RMI_INIT : SBC IPC failed to register with RMI ([chars]).

Explanation The SBC IPC module was unable to successfully register with the Resource Manager. SBC may not be able to operate in a stateful mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-IPC_INIT : SBC IPC failed to initialise ([chars]).

Explanation The SBC IPC module was unable to successfully initialise. SBC may not be able to operate in a stateful mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-IPC_SEND : SBC IPC message send failed (error [chars]).

Explanation The SBC module was unable to successfully send a message to its peer. SBC will not be able to operate in a stateful mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_REGISTRATION : SBC ISSU failed to register.

Explanation The SBC module was unable to successfully register with the ISSU infrastructure. SBC will not be able to operate in a stateful mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_CLIENT_REGISTRATION : SBC Client ([dec]) Registration failed ([chars]).

Explanation The SBC module was unable to successfully register with the ISSU infrastructure. SBC will not be able to operate in a stateful mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show issu clients** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_ENTITY_REGISTRATION : SBC Entity ([dec]) Registration failed ([chars]).

Explanation The SBC ISSU entity could not be registered. SBC will not be able to operate in a stateful mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show issu entities** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_MSGTYPE_REGISTRATION : SBC Msg Type for Entity ([dec]) Registration failed ([chars]).

Explanation	The message type for SBC ISSU could not be registered. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show issu message types command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_MSGGROUP_REGISTRATION : SBC Msg Group ([dec]) for Entity ([dec]) Registration failed ([chars]).

Explanation	The message group for SBC ISSU could not be registered. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show issu message groups command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_CAPTYPE_REGISTRATION : SBC Cap Type for Entity ([dec]) Registration failed ([chars]).

Explanation	A capability type could not be registered for SBC ISSU. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show issu capability types command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_CAPENTRY_REGISTRATION : SBC Cap Entry ([dec]) for Entity ([dec]) Registration failed ([chars]).

Explanation	A capability entry could not be registered for SBC ISSU. SBC will not be able to operate in a stateful mode.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries)

%SBC_HA-3-ISSU_CAPGROUP_REGISTRATION : SBC Cap Group ([dec]) for Entity ([dec]) Registration failed ([chars]).

Explanation	A capability group could not be registered for SBC ISSU. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show capability groups command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_SESSION_REGISTRATION : SBC session for Entity ([dec]) Registration failed ([chars]).

Explanation	The SBC ISSU session could not be registered. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show issu sessions command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_START_NEGOTIATION : SBC ISSU negotiation failed to start ([chars]).

Explanation	The SBC module was unable to successfully start negotiation with its peer. SBC will not be able to operate in a stateful mode.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show issu fsm command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-4-ISSU_GET_BUFFER : SBC ISSU session failed to get buffer.

Explanation	The SBC ISSU client failed to get a buffer. Some High-Availability SBC information may be missing from the peer.
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%SBC_HA-4-ISSU_GET_BUFFER : SBC ISSU session failed to get buffer.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show processes memory** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_NEGOTIATION : SBC ISSU negotiation failed.

Explanation The SBC module was unable to successfully negotiate with its peer. SBC will not be able to operate in a stateful mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_MSG_MTU : SBC Client ([dec]) get msg mtu failed. Error = [dec].

Explanation The SBC ISSU client could not obtain a message of the required size.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show issu fsm** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ISSU_TRANSFORM : SBC ISSU [chars] transformation failed ([chars]).

Explanation The transformation operation for an SBC ISSU message has failed.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu fsm and show issu sessions)

%SBC_HA-3-LARGE_IPS_UNSUPP : The current version of the SBC Standby does not support the syncing of large SBC contexts

Explanation The current version of the SBC Standby does not support the syncing of large SBC contexts. A context that contains 24 or more media and signaling flows is a large context. It is rare to have such a large context and thus, ISSU compatibility has been permitted even though this difference in support exists. Normal SBC High Availability synchronization will continue to operate successfully as long as no contexts contain more than 24 signaling or media flows. Context information beyond 24 flows will not be replicated and thus on RP switchover the Active RP will not have information about all the contexts

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ILT_STUB : SBC ILT Stub process creation failed.

Explanation The SBC module was unable to successfully create the ILT Stub process. SBC will not be able to operate in a stateful mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ILT_REGISTRATION : SBC ILT registration failed.

Explanation The SBC module was unable to successfully register for communication with the peer unit. SBC will not be able to operate in a stateful mode.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_HA-3-ILT_PROC_CREATE : SBC ILT process creation failed.

Explanation The SBC module was unable to successfully create an SBC process. SBC will not be able to operate in a stateful mode.

%SBC_HA-3-ILT_PROC_CREATE : SBC ILT process creation failed.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SBC_HA-3-SBC_IPV6_CFG : SBC has detected configuration/dynamic state ([chars]) which is not supported on the peer.

Explanation	Peer SBC does not support IPv6.
Recommended Action	Manually remove IPv6 configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_DYNAMIC_CODEC_CFG : SBC has detected Dynamic Codec configuration which is not supported on the peer. SBC cannot proceed as HA client. Remove all codec configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support Dynamic Codec configuration.
Recommended Action	Manually remove Dynamic Codec configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_XML_BILLING_CFG : SBC has detected Xml Billing configuration which is not supported on the peer. SBC cannot proceed as HA client. Remove all xml billing configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support Xml Billing configuration.
Recommended Action	Manually remove Xml Billing configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_RG_NO_TRANSPORT : SBC was unable to register a transport with the RG infrastructure for inter-chassis HA.

Explanation	SBC will not be able to support inter-chassis HA.
Recommended Action	No action is required.

%SBC_HA-3-SBC_RG_NO_CLIENT : SBC was unable to register the RG Client with the RG infrastructure for inter-chassis HA.

Explanation	SBC will not be able to support inter-chassis HA.
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%SBC_HA-3-SBC_RG_NO_CLIENT : SBC was unable to register the RG Client with the RG infrastructure for inter-chassis HA.

Recommended Action No action is required.

%SBC_HA-3-SBC_RG_NO_PROCESS : SBC was unable to start a process used by the RG client

Explanation SBC will not be able to support inter-chassis HA.

Recommended Action No action is required.

%SBC_HA-3-SBC_RG_NO_SOCKET : SBC was unable to open a socket for the RG client

Explanation SBC will not be able to support inter-chassis HA.

Recommended Action No action is required.

%SBC_HA-3-SBC_RG SOCK_FAIL : SBC lost connection with RG peer, socket failure [chars], len=[dec]

Explanation SBC HA may be disabled until peer connection is established.

Recommended Action No action is required.

%SBC_HA-3-SBC_CODEC_INTERWORK_CFG : SBC has detected codec configuration which is not supported on the peer. SBC cannot proceed as HA client. Remove all newly entered codec configuration to proceed with ISSU/ISSD.

Explanation Peer SBC does not support codec preference, variant or interwork configuration.

Recommended Action Manually remove newly added codec configuration and reinitiate ISSU.
LOG_STD_ACTION

%SBC_HA-3-SBC_MSMB_CFG : SBC has detected Multi SBC Media Bypass configuration which is not supported on the peer. SBC cannot proceed as HA client. Remove all Multi SBC Media Bypass configuration to proceed with ISSU/ISSD.

Explanation Peer SBC does not support Multi SBC Media Bypass configuration.

Recommended Action Manually remove Multi SBC Media Bypass configuration and reinitiate ISSU.
LOG_STD_ACTION

%SBC_HA-3-SBC_DBL_NA_ALERT_CFG : SBC has detected blacklist entries configured which have reason na-policy-failure OR minor, major, critical alerts which is not supported on the peer. SBC cannot proceed as HA client. Remove all blacklist entries with this reason or any alerts configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support blacklist reason na-policy-failure or blacklist alerts configuration.
Recommended Action	Manually remove blacklist reason na-policy-failure and minor, major or critical alerts configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_B2B_RESTART : SBC restart has taken longer than expected. The SBC will be restarted, but may require a shut/no shut of the redundancy group in order to return to stateful HA with the active router.

Explanation	SBC process restart timedout, may require manual intervention.
Recommended Action	Shut/No shut the standby redundancy group associated with the SBC. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_CALL_ONA_CFG : SBC has detected first-outbound-na-table configured within a call-policy-set. This command is not supported on the peer. SBC cannot proceed as HA client. Remove all first-outbound-na-table configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support first-outbound-na-table configuration within a call-policy-set.
Recommended Action	Manually remove the first-outbound-na-table configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_ADMIN_DOMAIN_CFG : SBC has detected an admin-domain configuration. This feature is not supported on the peer. SBC cannot proceed as HA client. Remove all admin-domain submodes from the configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support admin-domain configuration.
Recommended Action	Manually remove the admin-domain submodes from configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_CAC_AVG_PER2_CFG : SBC has detected averaging-period 2 cac configuration. Averaging-period 2 is not supported on the peer. SBC cannot proceed as HA client. Remove the cac-policy-set averaging-period 2 configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support averaging-period 2 cac configuration.
Recommended Action	Manually remove the cac-policy-set averaging-period 2 configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_CAC_AVG_PER2_RATE_CFG : SBC has detected cac-policy-set rate limit configuration for averaging-period 2. Averaging-period 2 is not supported on the peer. SBC cannot proceed as HA client. Remove the cac-policy-set rate limit configuration for averaging-period 2 to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support cac rate limit configuration for averaging-period 2.
Recommended Action	Manually remove the rate limit commands for averaging-period 2 found within the cac-policy-set entry and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_PORT_TAG_CFG : SBC has detected an port tag configuration. This feature is not supported on the peer. SBC cannot proceed as HA client. Remove all port tag from the configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support port tag configuration.
Recommended Action	Manually remove the port tag from configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_FLEX_MED_RTG_CFG : SBC has detected flexible media routing configuration. This feature is not supported on the peer. SBC cannot proceed as HA client. Remove all flexible media routing config from the configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support flexible media routing configuration.
Recommended Action	Manually remove flexible media routing from configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_HA_CAC_PRIVACY_SERV_CFG : SBC has detected cac-policy-set privacy-service configuration for a cac entry. This enhancement is not supported on the peer. SBC cannot proceed as HA client. Remove the cac-policy-set privacy-service related configuration to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support cac-policy-set privacy-service configuration for a cac entry.
Recommended Action	Manually remove the privacy-service related commands configured within the cac-policy-set entry and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_IMP_NA_REGEX_CFG : SBC has detected number analysis entries that match on text addresses, which are not supported on the peer. Remove all regex number analysis entries to proceed with ISSU/D

Explanation	Peer SBC does not support regex number analysis entries.
Recommended Action	Manually remove regex number analysis entries and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_IMP_NA_EDITSRC_CFG : SBC has detected number analysis entries that have edit-src actions, which are not supported on the peer. Remove all edit-src actions from all number analysis entries to proceed with ISSU/D

Explanation	Peer SBC does not support edit-src actions in number analysis entries.
Recommended Action	Manually remove edit-src actions from all number analysis entries and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_IMP_NA_SRCANON_CFG : SBC has detected na-src-name-anonymous number analysis tables, which are not supported on the peer. Remove all na-src-name-anonymous number analysis tables to proceed with ISSU/D

Explanation	Peer SBC does not support na-src-name-anonymous number analysis tables.
Recommended Action	Manually remove all na-src-name-anonymous number analysis tables and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_MESSAGE_EDITING_CFG : SBC has detected message editing configured which may have sip editor_type editor OR parameter-editor OR header-editor OR method-editor OR body-editor OR option-editor which is not supported on the peer. SBC cannot proceed as HA client. Remove all message editing config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support message editing configuration.
Recommended Action	Manually remove message editing configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_RG_NO_VRF : SBC VRF mismatch between active and standby, please add [chars]

Explanation	SBC may fail to fully support SSO
Recommended Action	No action is required.

%SBC_HA-3-SBC_RG_VRF_INUSE : VRF is used by SBC, add back or remove from active, please add [chars]

Explanation	SBC may fail to fully support SSO
Recommended Action	No action is required.

%SBC_HA-3-SBC_SIPS_H323_INTWK_CFG : SBC has detected SIPS-H323 Interworking configured which may have trusted H323 Adjacencies or secure calls configured which is not supported on the peer. SBC cannot proceed as HA client. Remove all SIPS-H323 Interworking config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support SIPS-H323 Interworking configuration.
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%SBC_HA-3-SBC_SIPS_H323_INTWK_CFG : SBC has detected SIPS-H323 Interworking configured which may have trusted H323 Adjacencies or secure calls configured which is not supported on the peer. SBC cannot proceed as HA client. Remove all SIPS-H323 Interworking config to proceed with ISSU/ISSD.

Recommended Action Manually remove SIPS-H323 Interworking configuration and reinitiate ISSU.
LOG_STD_ACTION

%SBC_HA-3-SBC_LRU_CFG : SBC has detected LRU configured SBC cannot proceed now. Remove all LRU CONFIG to proceed with ISSU/ISSD.

Explanation Peer SBC does not support LRU configuration.

Recommended Action Manually remove LRU configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_SDP_EDITING_CFG : SBC has detected sdp editing configured which may have script-set OR active-script-set OR test script-set on any adjacency configured which is not supported on the peer. SBC cannot proceed as HA client. Remove all sdp editing config to proceed with ISSU/ISSD.

Explanation Peer SBC does not support sdp editing configuration.

Recommended Action Manually remove sdp editing configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_CAC_ENHANCEMENT_CFG : SBC has detected cac enhancement feature configured which may have branch cli OR cac-scope (adjacency ,account)cli SBC cannot proceed as HA client. Remove all cac enhancement feature config to proceed with ISSU/ISSD.

Explanation Peer SBC does not support cac enhancement feature configuration.

Recommended Action Manually remove cac enhancement feature configuration and reinitiate ISSU.
LOG_STD_ACTION

%SBC_HA-3-SBC_QOS_DEMARCATION_CFG : SBC has detected qos demarcation configured which may have statistics threshold OR g107a factor OR cal_moscqe OR g107 bpl OR g107 ie OR qos trap configured ,which is not supported on the peer. SBC cannot proceed as HA client. Remove all qos demarcation config to proceed with ISSU/ISSD.

Explanation Peer SBC does not support qos demarcation configuration.

Recommended Action Manually remove qos demarcation configuration and reinitiate ISSU.
LOG_STD_ACTION

%SBC_HA-3-SBC_VIA_PASSTHROUGH_CFG : SBC has detected Via Passthrough configured SBC cannot proceed now. Remove all Via Passthrough CONFIG to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support Via Passthrough configuration.
Recommended Action	Manually remove Via Passthrough configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_MEDIA_BYPASS_NATTAGGEN_CFG : SBC has detected media bypass auto-nat-tag-gen configured SBC cannot proceed now. Remove all media bypass auto-nat-tag-gen config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support media bypass auto-nat-tag-gen configuration.
Recommended Action	Manually remove media bypass auto-nat-tag-gen configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_MEDIA_ADDRESS_PRESERVE_INIT_NEGO_CFG : SBC has detected media address preserve init-negotiation configured SBC cannot proceed now. Remove all media address preserve init-negotiation config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support media address preserve init-negotiation configuration.
Recommended Action	Manually remove media address preserve init-negotiation configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_SUBSCRIBER_TCP_CFG : SBC has detected subscriber tcp configured which may have subscriber tcp incoming-only configured which is not supported on the peer. SBC cannot proceed as HA client. Remove all subscriber tcp config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support subscriber tcp configuration.
Recommended Action	Manually remove subscriber tcp configuration and reinitiate ISSU. LOG_STD_ACTION

%SBC_HA-3-SBC_IMS_RF_CFG : SBC has detected ims rf configured. SBC cannot proceed now. Remove all ims rf config to proceed with ISSU/ISSD.

Explanation	Peer SBC does not support ims rf configuration.
Recommended Action	Manually remove ims rf configuration and reinitiate ISSU. LOG_STD_ACTION

SBC_MPS through SEC

- [SBC_MPS](#)
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- [SCHED_TEST](#)
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- [SDWAN_PROXY](#)
- [SEC](#)

SBC_MPS

%SBC_MPS-3-INTERNAL : An internal IOSd SBC error has been encountered[chars].

Explanation	An internal error has been encountered.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-3-INITFAIL : SBC module initialisation failure: [chars].

Explanation	An unexpected condition has occurred which resulted in the module being unable to initialise.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-3-MAX_RESOURCES : The maximum resource limit has been reached.

Explanation	The system was asked to allocate more resources, but the maximum resource limit had already been reached
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%SBC_MPS-3-MAX_RESOURCES : The maximum resource limit has been reached.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SBC_MPS-3-ENQUEFAIL : Enqueue of TDL message failed ([chars]).

Explanation	An unexpected condition has occurred which resulted in configuration or event details not being forwarded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-6-UNEXPECTED_TDL : An unexpected message ([chars]) has been received by SBC while in the [chars] state.

Explanation	An internal message has been received by SBC, but it was not expecting that message at that particular time. The system will ignore the message and continue operation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-4-UNEXPECTED_PKT : An unexpected packet for call [dec] has been received by SBC.

Explanation	A packet been received by SBC for the noted call, but the call was not in a correct state to handle it. The system will ignore the packet and continue operating.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-3-UNEXPECTED_TIMEOUT : An unexpected timeout has been encountered by SBC ([chars]).

Explanation	A timeout was experienced by the IOSd SBC subsystem, but no such timeout should have occurred. The system will ignore the timeout and continue operating.
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%SBC_MPS-3-UNEXPECTED_TIMEOUT : An unexpected timeout has been encountered by SBC ([chars]).

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SBC_MPS-6-DEACTIVATE_NO_RSP : SBC deactivate response is considered lost.

Explanation	The response for SBC deactivate can get lost due to FP startup or switchover while deactivation is in progress.
Recommended Action	SBC can be activated now if needed.

%SBC_MPS-6-DEACTIVATE_RESPONSE : SBC deactivate is complete.

Explanation	SBC deactivation can take a while. This happens when SBC deactivation is done in the presence of a lot calls with deactivation-mode set to abort. SBC deactivate is now complete.
Recommended Action	SBC can be safely activated now if needed.

%SBC_MPS-4-NEW_MPF_CAPABILITIES : New SBC MPF Capabilities handling failure.

Explanation	SBC has received a new set of Media Packet Forwarding capabilities from the associated Forwarding Processor that are inconsistent with those already in use. SBC was unable to process these new capabilities online, and will automatically restart.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-4-TRANSCODE_MPF_CAPABILITIES : Transcoding SBC MPF Capabilities handling failure.

Explanation	SBC has been unable to prepare a transcoding supported Media Packet Forwarding capabilities message. SBC will not be able to support transcoding functionality.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-4-MPF_SRTP_CAPABILITIES : Unable to set SRTP capabilities

Explanation	SBC made an attempt to set the platform capabilities with respect to its handling of SRTP streams and was not successful. SRTP streams will not be handled through the SBC.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_MPS-4-MPF_CAPABILITIES : SBC MPF Capabilities handling failure.

Explanation	SBC has been unable to properly prepare a Media Packet Forwarding capabilities message. SBC may not be able to support select functionality such as transcoding or SRTP.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SBC_SPF**%SBC_SPF-3-INTERNAL : An internal IOSd SBC error has been encountered[chars].**

Explanation	An internal error has been encountered.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_SPF-3-NOT_FOUND : An unsolicited message has been received by SBC ([chars] [int])

Explanation	An internal message has been received by SBC, but it was not expecting that message at that particular time. The system will ignore the message and continue operation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SBC_SPF-3-ENQUEFAIL : Enqueue of TDL message failed ([chars]).

Explanation An unexpected condition has occurred which resulted in configuration or event details not being forwarded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

SCHED_TEST

%SCHED_TEST-6-ERRMSG : This errmsg should print correctly.

Explanation

Recommended Action

%SCHED_TEST-2-EXITHOOK : Exit routine invoked for process [chars].

Explanation

Recommended Action

SCOOBY

%SCOOBY-5-SERIAL_BRIDGE_BLOCK_EVENT : Block [chars]/[dec] of serial bridge [dec] had I/O event [hex]

Explanation A serial bridge I/O event has occurred. This event is not serious but is logged for diagnostic purposes.

Recommended Action No user action is required.

%SCOOBY-0-SERIAL_BRIDGE_CRITICAL_ERROR : Reloading [chars] due critical event [hex] in block [chars]/[dec] of serial bridge [dec]

Explanation A critical serial bridge I/O event has occurred.

Recommended Action The system automatically reloads the hardware component experiencing the error. If the problem persists, copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.

%SCOOBY-5-SERIAL_BRIDGE_EVENT_RATE : The [chars] event rate of [int] has exceeded the threshold of [int] on serial bridge [dec] interconnect [dec]

Explanation	A Serial Bridge has experienced a high event rate. This condition is not considered serious, but is logged for diagnostic purposes. This could be due to a hardware or software driver defect.
Recommended Action	No user action is required. If this message persists, a serial bridge critical message that needs to be addressed will appear.

%SCOOBY-0-SERIAL_BRIDGE_CRITICAL_ERROR_RATE : Reloading [chars] due to critically high serial bridge error rate.

Explanation	A Serial Bridge has experienced a persistently high error rate. The condition is serious and the card must be reloaded. This could be due to a hardware or software driver defect.
Recommended Action	Copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.

SDFLASH

%SDFLASH-6-DEVICE_ENABLED : SDFlash device enabled

Explanation	SDFlash device is enabled in the system.
Recommended Action	No action is required.

%SDFLASH-1-DEVICE_DISABLED : SDFlash device disabled

Explanation	SDFlash device is disabled from the system. Please enable it for correct operation of the switch.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SDLC

%SDLC-4-DROPPED : Dropped SDLC packet from SDLC hold queue

Explanation	An SDLC frame had to be dropped from the output hold queue, usually because of excessive congestion on the output link.
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%SDLC-4-DROPPED : Dropped SDLC packet from SDLC hold queue

Recommended Action If this message occurs frequently, determine why your SDLC link is being overloaded with data and resolve the cause (typically by either increasing bandwidth to your SDLC line or reducing the load on your link).

%SDLC-3-NULLPAK : Interface [chars], NULL packet ptr, rvr [dec], vs [dec], vr [dec]

Explanation An internal software error occurred in the router's SDLC processing system.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDLC-3-NOINPIDB : Input idb not set

Explanation This is a software error. A frame was given to the SDLC handler to process, but the interface on which the frame arrived is not known.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDLC-4-FRAMEERR : Interface [chars], Frame error: CF [hex], VS [dec] %c VR [dec], Reason [hex]

Explanation A FRMR frame was received. This can be due to a noisy serial line, an overloaded SDLC device, or corrupted data.

Recommended Action If this message recurs, service the serial line and the devices attached to it.

%SDLC-4-INFOBAD : Interface [chars], Info field not permitted

Explanation A bad SDLC frame was received.

Recommended Action If this message recurs, check the SDLC serial line and the devices attached to it.

%SDLC-4-CTRLBAD : Interface [chars], Invalid control field

Explanation	A bad SDLC frame was received.
Recommended Action	If this message recurs, check the SDLC serial line and the devices attached to it.

%SDLC-4-N1TOOBIG : Interface [chars], N1 too large

Explanation	An information frame was received from the other end of the SDLC link that was larger than allowed with the N1 parameter on this link.
Recommended Action	Either increase the value of the N1 parameter for this interface on the router or reduce the size of the maximum information frame sent by the other end of the link.

%SDLC-4-INVNR : Interface [chars], Invalid NR value

Explanation	A bad SDLC frame was received.
Recommended Action	If this message recurs, check the SDLC serial line and the devices attached to it.

%SDLC-4-SDLC_ERR : SDLC_ERROR with no poll

Explanation	A protocol error was detected on a secondary station, but FRMR could not be sent because the station did not own the poll bit. This message indicates either poor line conditions or a faulty SDLC implementation.
Recommended Action	If this message recurs, run traces on the SDLC line. Copy the error message exactly as it appears, and report it to your technical support representative.

%SDLC-2-ILLEGSTATE : [chars], illegal state for addr [hex], [chars]([dec])

Explanation	An internal SDLC state violation was detected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDLC-2-NOPOINTER : AW_SDLC_SEC with no sdllc_llc pointer.

Explanation	An error condition occurred during SDLLC initiation.
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%SDLC-2-NOPOINTER : AW_SDLC_SEC with no sdllc_llc pointer.

Recommended Action No action is required. The SDLLC session will restart without operator intervention.

%SDLC-3-CONFIGERR : [chars], addr [hex], Sent SNRM, received SNRM. Check link station roles.

Explanation A hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDLC-4-NOUA : [chars], addr [hex] received command [hex] in response to SNRM, expected UA

Explanation The router received a frame other than a UA in response to a SNRM.

Recommended Action Check the end station to see if the SNA stack is up and running.

%SDLC-5-INVLDGRPPOLL : Interface [chars], not configured for group-poll frame, received [hex]

Explanation An unnumbered poll (UP) was received with the wrong group poll address.

Recommended Action Make sure the group poll address configured on the router matches the one configured in the physical unit macro (GP3174=XX) in the Network Control Program (NCP) generate file.

%SDLC-4-INVLDGRPCFG : Interface [chars], ignoring group-poll mismatch, UPOLL [hex]

Explanation A hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDLC-4-BADFRAME : [chars], Received bad SDLC [chars]frame, address [hex], control [hex]

Explanation A hardware or software error occurred.

%SDLC-4-BADFRAME : [chars], Received bad SDLC [chars]frame, address [hex], control [hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SDLC-2-NOMEMORY : No memory available: [chars]

Explanation	The requested operation failed because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%SDLC-3-DLU_ERROR : [chars], DLU failed to close station [hex] before re-opening, [chars]/[chars]

Explanation	A hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDLC-4-XID_NOMATCH : [chars], XID mismatch for [hex]. CONNECTION REJECTED

Explanation	An inbound exchange identification (XID) from a PU 2.0/PU 2.1 node was rejected. The targeted SDLC address is displayed. The XID information is displayed in a subsequent message = SDLLC-6-XID_DISPLAY or SDLLC-6-FORMAT.
Recommended Action	This is a security feature. Additional information is displayed to help trace the source of the rejected XID. If the message is undesirable, simply remove the XID statement from the router configuration.

%SDLC-6-XID_DISPLAY : sa [enet] da [enet] ss [hex] ds [hex] [[hex][hex][hex][hex]]

Explanation	This message supplies the information for the received and rejected XID.
Recommended Action	See the SDLC-6-XID_NOMATCH error message.

%SDLC-6-XID_FORMAT : Unsupported XID format received, format [dec]

Explanation An inappropriate exchange identification (XID) format was received for this mode of SDLLC operation. Review the type of devices you are connecting with SDLLC to make sure they are supported.

Recommended Action See the SDLLC-6-XID_NOMATCH error message.

SDLLC

%SDLLC-5-ACT_LINK : SDLLC: [chars] LINK address [hex] ACTIVATED: [chars]

Explanation An SDLLC media conversion session was activated.

Recommended Action No action is required.

%SDLLC-5-DACT_LINK : SDLLC: [chars] LINK address [hex] DEACTIVATED: [chars]

Explanation An SDLLC media conversion session was deactivated. If deactivation is a result of an error condition, this message will include a reason.

Recommended Action If the message does not include a description of an error, the deactivation was normal and the message is for information only. If the message does include a description of an error, begin problem analysis. Determine whether session loss is related to LLC2 timers by issuing the debug llc2-err command. If the problem is related to LLC2 timers, consider using SDLLC with the local acknowledgment feature. Copy the error message exactly as it appears, and report it to your technical support representative.

SDVXLAN

%SDVXLAN-3-VXLAN_TUN_FULL : Auto-tunnel ID is running out now

Explanation All the vxlan auto-tunnel ID through the tunnel range was used, no more id available

Recommended Action If the auto-tunnel ID is running out, will need to config the auto-tunnel range to expand it

SDWAN_PROXY

%SDWAN_PROXY-3-SDWAN_MEM_REQ_FAILED : SDWAN IPC subtype: [dec]

Explanation Requesting more memory failed.

%SDWAN_PROXY-3-SDWAN_MEM_REQ_FAILED : SDWAN IPC subtype: [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SDWAN_PROXY-3-SDWAN_MEM_EXTEND_FAILED : SDWAN IPC subtype: [dec]

Explanation	Extending memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-4-PROXY_INVALID_MSG_LEN : QFP SDWAN Proxy IPC invalid length, [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation	Cisco internal software error. QFP SDWAN Proxy received invalid IPC message length from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-4-PROXY_INVALID_MSG : QFP SDWAN Proxy received invalid message type [dec]

Explanation	Cisco internal software error. QFP SDWAN Proxy received an invalid message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-2-PROXY_IPC_INIT_FAILED : QFP SDWAN Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP SDWAN Proxy initialization detected that the IPC interface initialization failed. QFP SDWAN proxy will not be functional while this condition exists.
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%SDWAN_PROXY-2-PROXY_IPC_INIT_FAILED : QFP SDWAN Proxy IPC interface initialization failure (result: [dec]).

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-3-PROXY_BAD_MSG : QFP SDWAN Proxy received bad length message type [dec]

Explanation Cisco internal software error. QFP SDWAN Proxy received a corrupted message from control plane. This message will be ignored.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-3-PROXY_IPC_ALLOC_FAILED : QFP SDWAN Proxy [chars] message lost due to message buffer allocation failure.

Explanation Cisco internal software error. QFP SDWAN Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-3-PROXY_IPC_SEND_FAILED : QFP SDWAN Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation Cisco internal software error. QFP SDWAN Proxy message processing detected a message sent failure. The message is lost as the result of this condition.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-2-SDWAN_MSG_PROXYINIT_FAILURE : SDWAN - Failed to register IPC message handler, result code [int]

Explanation	QFP SDWAN feature failed to register an IPC message handler for communication with control plane. This will cause the feature not to function.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-3-SDWAN_MSG_PROXY_UNKNOWN_IPMSG : SDWAN - Received an unknown type (code [int]), IPC message

Explanation	QFP SDWAN feature received an unknown message from another layer of SDWAN feature's software stack.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-3-SDWAN_MSG_PROXY_INVALID_MSGLEN : SDWAN - Received an invalid length IPC message

Explanation	QFP SDWAN feature received an incorrect length of IPC message from another layer of SDWAN feature's software stack, m_enum %d, m_subtype %d, m_len %d, m_flags 0x%x, m_source %d.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-3-SDWAN_MSG_PROXY_ALLOC_FAILURE : SDWAN - Failed to get [int] bytes space for IPC reply message

Explanation	QFP ET-Analytics feature detected buffer allocation failure while sending reply to a message from another layer of SDWAN feature's software stack.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-3-SDWAN_MSG_PROXY_OPENREPLY_FAIL : SDWAN - Failed to open reply message part of IPC packet

Explanation QFP SDWAN feature failed to open message part of IPC packet while sending a reply to another layer of SDWAN feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-3-SDWAN_MSG_PROXY_IPCSEND_FAIL : SDWAN - Failed to send IPC message, result code [dec]

Explanation QFP SDWAN feature failed to send IPC message to another layer of SDWAN feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-3-SDWAN_MSG_PROXY_DEBUG_REG_FAILED :

Explanation SDWAN Conditional Debugging Registration failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SDWAN_PROXY-4-PROXY_IPC_INVALID_MSG_LEN : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Invalid SDWAN IPC message length.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

SEC

%SEC-4-TOOMANY : Box secured, too many options on internal packet

Explanation No room for all desired IP header options. Packet discarded.

Recommended Action Configure for fewer IP header options.

%SEC-2-NOOPT : Box secured, no option on internal packet

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SEC-2-NOTSEC : First opt in tcb not BASIC security

Explanation An internal software error occurred.

Recommended Action If this message recurs, contact your technical support representative.

%SEC-2-SECINS : Security opt in tcb not SECINSERT

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SEC-3-NOMAX : No default for NLESO defined

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SEC-6-IPACCESSLOGNP : list [chars] [chars] [dec] [IP_address] [chars]-> [IP_address], [dec] packet[chars] [chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%SEC-6-IPACCESSLOGDP : list [chars] [chars] [chars] [IP_address] [chars]-> [IP_address] ([dec]/[dec]), [dec] packet[chars] [chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%SEC-6-IPACCESSLOGP : list [chars] [chars] [chars] [IP_address]([dec]) [chars]-> [IP_address]([dec]), [dec] packet[chars] [chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%SEC-6-IPACCESSLOGRP : list [chars] [chars] [chars] [IP_address] [chars]-> [IP_address], [dec] packet[chars] [chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%SEC-6-IPACCESSLOGS : list [chars] [chars] [IP_address] [dec] packet[chars] [chars]

Explanation A packet matching the log criteria for the given access list was detected.

Recommended Action No action is required.

%SEC-6-IPACCESSLOGRL : access-list logging rate-limited or missed [dec] packet[chars]

Explanation Some packet matching logs were missed because the access list log messages were rate-limited or no access list log buffers were available.

Recommended Action No action is required.

%SEC-4-SHELFCTRLTELOPT : malformed option on vty%t %c%c%c[dec] len [dec] [chars]

Explanation	A packet containing shelf controller telnet options was malformed. Options were ignored or truncated.
Recommended Action	No action is required.

SEC_LOGIN through SGPM

- [SEC_LOGIN](#)
- [SENSORMGR](#)
- [SERDES](#)
- [SERIAL_12IN1](#)
- [SERVICES](#)
- [SERVICE_CHAIN](#)
- [SESSION_MGR](#)
- [SFP](#)
- [SGBP](#)
- [SGPM](#)

SEC_LOGIN

%SEC_LOGIN-1-QUIET_MODE_ON : Still timeleft for watching failures is [int] secs, [user: [chars]] [Source: [chars]] [localport: [int]] [Reason: [chars]] [ACL: [chars]] at [chars]

Explanation	Quiet Mode is ON. No request for connection is accepted other than allowed by the Access List, if configured for the blocking period. Else an implicity *deny all* login's will be in force
Recommended Action	As all the requests from other sources are blocked check ACL and add any source addr. if needed.

%SEC_LOGIN-5-QUIET_MODE_OFF : Quiet Mode is OFF, because [chars] at [chars]

Explanation	Quiet Mode is OFF. Router now operates in normal connection processing mode
Recommended Action	A notification that the device now operates in normal connection processing mode and the reason why it switched mode is also indicated with the notification.

%SEC_LOGIN-4-LOGIN_FAILED : Login failed [user: [chars]] [Source: [chars]] [localport: [int]] [Reason: [chars]] at [chars]

Explanation Invalid User Name or Password is given from terminal.

Recommended Action A notification to indicate that login failed

%SEC_LOGIN-5-LOGIN_SUCCESS : Login Success [user: [chars]] [Source: [chars]] [localport: [int]] at [chars]

Explanation A successful login happened with the device.

Recommended Action A notification that login succeeded.

%SEC_LOGIN-3-INIT_FAILED : Secure Login Initialization failed. [chars]

Explanation Initialization of Secure Login Subsystem failed

Recommended Action Copy the error message exactly as it appears; include the stack trace; and report it to your technical support representative.

SENSORMGR

%SENSORMGR-3-NOMEM : Sensor manger failed to allocate memory : [chars]

Explanation The sensor manager was not able to add a new threshold node to its database.

Recommended Action TBD

SERDES

%SERDES-3-SERDES_CRITICAL_ERROR : Critial error [chars] in FRU [chars] when [chars]

Explanation A critical error was occurred. The condition is serious and the card must be reloaded. This could be due to bad or unknown hardware (chassis or modules). Chassis Manager could also initialize the Serdes library with incorrect input parameters.

Recommended Action Copy the message exactly as it appears on the console or in the system log. Collect the output of show platform, show version, show log, sh diag chassis eeprom detail, show diagnostic slot <slot#> eeprom detail, and any other relevant logs. Contact your Cisco technical support representative.

%SERDES-5-SERDES_NOTICE : from FRU [chars], [chars].

Explanation CMAN sends a significant Serdes event to IOSD to log it

%SERDES-5-SERDES_NOTICE : from FRU [chars], [chars].

Recommended Action No action is required for this notice.

SERIAL_12IN1

%SERIAL_12IN1-3-SPI4_ERR : SPA [dec]/[dec]: [chars] was encountered. Intr status: [hex]

Explanation The SPA driver detected a Hardware error condition on the SPA card. This might result in improper operation.

Recommended Action The SPA driver has encountered a Hardware error on the SPA's SPI4 bus. Please power down and reseal the indicated SPA card. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance, open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging, show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SERIAL_12IN1-1-CLOCKRATE : [chars]:Link has been brought [chars] due to clock rate change, threshold configured = [int], received clock rate = [int]

Explanation The received clock rate is changed from below the threshold configured to above or vice versa..

Recommended Action Check the received clock rate from the provider end and the clockrate threshold configuration, if the clock rate goes below the threshold configured, interface is brought down

%SERIAL_12IN1-3-SW_ERR : [chars]: A software error was encountered at [chars]: [chars]

Explanation The SPA driver detected a software error condition on the SPA card. This might result in improper operation.

Recommended Action The SPA driver has encountered a software error. Please power down and reseal the indicated SPA card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging, show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SERIAL_12IN1-3-SW_ERR_1 : [chars]: A software error was encountered at [chars]: [chars] [hex]

Explanation The SPA driver detected a software error condition on the SPA card. This might result in improper operation.

Recommended Action The SPA driver has encountered a software error. Please power down and reseal the indicated SPA card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SERIAL_12IN1-3-SW_ERR_2 : [chars]: A software error was encountered at [chars]: [chars] [hex]/[hex]

Explanation The SPA driver detected a software error condition on the SPA card. This might result in improper operation.

Recommended Action The SPA driver has encountered a software error. Please power down and reseal the indicated SPA card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

SERVICES

%SERVICES-2-NOINIT : Error initializing services: [chars]

Explanation An application failed to initialize the core services library. The application will not be able to communicate with other modules on the system.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SERVICES-2-NORESOLVE_LOCAL : Error resolving local FRU: [chars]

Explanation An application was not able to determine its local FRU. The application was likely started incorrectly.

%SERVICES-2-NORESOLVE_LOCAL : Error resolving local FRU: [chars]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SERVICES-2-NORESOLVE_ACTIVE : Error resolving active FRU: [chars]

Explanation An application was not able to determine the active FRU. The application was likely started incorrectly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SERVICES-2-NORESOLVE_STANDBY : Error resolving standby FRU: [chars]

Explanation An application was not able to determine the standby FRU. The application was likely started incorrectly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SERVICES-0-INVALID_OWNERSHIP : Error using service handle [IPv6 address] - invalid ownership ([IPv6 address], [IPv6 address])

Explanation A multi-thread application is trying to incorrectly use the services library. Applications must follow thread confinement strategy with the services library. Each thread of the application must initialize private managed context of the service library.

Recommended Action Copy the error message, tracebacks and version information and contact a Cisco representative.

%SERVICES-3-INVALID_CHASFS : Thread [IPv6 address] has no global chasfs context

Explanation	A multi-thread application is trying to incorrectly use the services library. Applications must follow thread confinement strategy with the services library. Each thread of the application must initialize private managed context of the service library.
Recommended Action	Copy the error message, tracebacks and version information and contact a Cisco representative.

SERVICE_CHAIN

%SERVICE_CHAIN-3-ALLOC_FAILED : Allocation of [chars] memory failed for Service Chaining feature

Explanation	Allocation of memory by the Service Chaining feature microcode failed. The name of the memory chunk is specified in the message. This indicates a software failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SERVICE_CHAIN-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for Service Chaining feature

Explanation	Service Chaining initialization of packet replication registration failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SESSION_MGR

%SESSION_MGR-5-START :

Explanation	Starting an authentication method
Recommended Action	Message notification informing about the session manager client is being started to authenticate the endpoint attached to the interface

%SESSION_MGR-5-SUCCESS :

Explanation	Authorization was successful.
Recommended Action	Client connected to the switch has been successfully authorized by the session manager framework

%SESSION_MGR-5-FAIL :

Explanation	Authorization was unsuccessful.
Recommended Action	Authorization was unsuccessful for the client. Collect the smd logs and system console logs

%SESSION_MGR-5-VLANASSIGN :

Explanation	VLAN assignment to an interface for the session
Recommended Action	No action is required.

%SESSION_MGR-5-SECURITY_VIOLATION :

Explanation	A host on the specified interface is attempting to gain access into the network or is trying to authenticate in a host mode that does not support the number of hosts attached. This is treated as a security violation and the port has been error-disabled.
Recommended Action	Ensure that the port is configured to support the host count attached. Enter the shutdown command followed by no shutdown command to restart the port.

%SESSION_MGR-7-STOPPING :

Explanation	Stopping the current authentication method
Recommended Action	No action is required.

%SESSION_MGR-7-NOMOREMETHODS :

Explanation	All available authentication methods have been tried
Recommended Action	No action is required.

%SESSION_MGR-5-MACMOVE :

Explanation	Client has moved to a new interface without logging off on the previous one.
Recommended Action	No action is required.

%SESSION_MGR-5-MACREPLACE :

Explanation	A new client has triggered a violation causing an existing client to be replaced
Recommended Action	No action is required.

%SESSION_MGR-4-UNAUTH_MOVE :

Explanation	Move while not authenticated on old IDB
Recommended Action	No action is required.

%SESSION_MGR-4-ILLEGAL_TRACE_REQ :

Explanation	Component ID %d not registered.
Recommended Action	No action is required.

%SESSION_MGR-0-CONFIG_CORRUPT :

Explanation	Interface configuration field was modified unexpectedly.
Recommended Action	No action is required.

SFP

%SFP-3-EEPROM_DUP_ERR : SFP on ports [chars] and [chars] have duplicate serial numbers

Explanation	The GBIC/SFP was identified as a Cisco GBIC, but its vendor id and serial number match that of another GBIC on the system.
Recommended Action	Report to Cisco tech support.

%SFP-4-EEPROM_READ_ERR : Error in reading SFP serial ID in [chars]

Explanation	Error when reading SFP type from EEPROM
Recommended Action	Please remove SFP from this Port

%SFP-4-EEPROM_CRC_ERR : EEPROM checksum error for SFP in [chars]

Explanation	The SFP in the port specified in the error message has invalid EEPROM data.
Recommended Action	Remove the SFP from the specified port.

%SFP-4-EEPROM_SECURITY_ERR : SFP in [chars] failed security check

Explanation	The SFP in the port specified in the error message has invalid EEPROM data.
Recommended Action	Remove the SFP from the specified port.

%SFP-4-REMOVED : SFP module removed from [chars]

Explanation	The online insertion and removal (OIR) facility detected the removal of a SFP module from the interface specified in the error message.
Recommended Action	No action is required.

%SFP-6-INSERTED : SFP module inserted in [chars]

Explanation	The online insertion and removal (OIR) facility detected a newly inserted SFP module for the interface specified in the error message.
Recommended Action	No action is required.

%SFP-3-NOT_SUPPORTED : Detected for SFP module in [chars], module disabled

Explanation	The SFP module for the interface specified in the error message is not a cisco supported module. As a result of the error, the module is disabled.
Recommended Action	Replace the module with a cisco supported SFP.

%SFP-3-NOT_COMPATIBLE : Detected for SFP module in [chars], module disabled

Explanation	The SFP module for the interface specified in the error message is not compatible with the interface. As a result of the error, the module is disabled.
Recommended Action	Replace the module with a compatible SFP.

SGBP**%SGBP-3-INVALIDB : [chars] for bundle '[chars]' -- [chars]**

Explanation An internal software error has occurred.

Recommended Action LOG_STD_ACTION

%SGBP-7-NEWL : Local query #[dec] for [chars], count [dec], ourbid [dec]

Explanation This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-DUPL : Duplicate local query #[dec] for [chars], count [dec], ourbid [dec]

Explanation This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-NEWP : Peer query #[dec] for [chars], count [dec], peerbid [dec], ourbid [dec]

Explanation This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-CANCEL : Local query #[dec]:[dec] for bundle [chars]

Explanation This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-DONE : Query #[dec] for bundle [chars], count [dec], master is [chars]

Explanation This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.

Recommended Action LOG_STD_NO_ACTION

%SGBP-3-TIMEOUT : Peer [IP_address] bidding; state 'PB [chars]' deleted

Explanation This message is generated only when SGBP event debugging is enabled. It indicates that a peer timed out while closing a query. The connection has been dropped.

Recommended Action Check the peer equipment and network media for problems.

%SGBP-7-MQB : tBundle: [chars]tState: [chars]tOurBid: %03d

Explanation This message is part of a list of debug states displayed at the request of the operator.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-PB : t[IP_address]tState: [chars]tBid: %03d Retry: [dec]

Explanation This message is part of a list of debug states displayed at the request of the operator.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-EQUAL : [dec] equal highest bids, randomly select bid# [dec]

Explanation This message is generated only when SGBP query debugging is enabled. It provides information about queries in progress.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-HANGUP : I am a forward-only member, can't forward bundle [chars], hangup

Explanation This message is generated only when SGBP query, event and/or error debugging is enabled. This indicates a routine change of role for the router in its SGBP interactions with its peers.

Recommended Action LOG_STD_NO_ACTION

%SGBP-3-INVFIELD : [chars] field type [hex] has [chars] [dec] (expected [dec])

Explanation This message indicates that an SGBP request from a peer contained invalid or corrupt data.

Recommended Action Check the peer equipment or network media for any problems.

%SGBP-7-RCVD : MQ [chars] from [IP_address] for query [dec]:[dec], bundle [chars], bid [dec], prot[chars]

Explanation This message is generated only when SGBP message debugging is enabled. It indicates that an SGBP packet was received.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-SENT : MQ [chars] to [IP_address] for query [dec]:[dec], bundle [chars], bid [dec], prot[chars], len [dec]

Explanation This message is generated only when SGBP message debugging is enabled. It indicates that an SGBP packet was sent.

Recommended Action LOG_STD_NO_ACTION

%SGBP-3-UNEXP : MQ [chars] from [IP_address] for query [dec]:[dec], bundle [chars], bid [dec], state [chars]

Explanation This message is generated only when SGBP error debugging is enabled. The SGBP connection has entered an unexpected state, possibly due to a software error.

Recommended Action LOG_STD_ACTION

%SGBP-3-INVALID : MQ message with [chars]

Explanation This message is generated only when SGBP error debugging is enabled. An invalid message was received and discarded.

Recommended Action This probably indicates an error in network media or a peer which is generating erroneous packets.

%SGBP-7-MQ : [chars] ([hex]) for query [dec]:[dec], bundle [chars], bid [dec], len [dec]

Explanation This message is generated only when SGBP error debugging is enabled. This message indicates that an SGBP query has been received.

Recommended Action LOG_STD_NO_ACTION

%SGBP-3-PEERERROR : Peer [IP_address] [chars] during 'PB [chars]' state for bundle [chars]

Explanation An internal software error has occurred.

%SGBP-3-PEERERROR : Peer [IP_address] [chars] during 'PB [chars]' state for bundle [chars]

Recommended Action LOG_STD_ACTION

%SGBP-3-UNKNOWNPEER : Event [hex] from peer at [IP_address]

Explanation This message is generated only when SGBP error debugging is enabled. An SGBP event came from a network host which was not recognizable as an SGBP peer. The event was discarded.

Recommended Action Check if a network media error could have corrupted the address, or if peer equipment is malfunctioning to generate corrupted packets. Depending on the network topology and firewalling, SGBP packets from a non-peer host could indicate probing and attempts to breach security. If there is a chance your network is under attack, obtain knowledgeable assistance. LOG_STD_ACTION

%SGBP-3-UNKNOWNEVENT : Event [hex] from peer at [IP_address]

Explanation This message is generated only when SGBP error debugging is enabled. An invalid event occurred, which probably indicates an internal software error.

Recommended Action LOG_STD_ACTION

%SGBP-5-SHUTDOWN : [chars]

Explanation This message is generated only when SGBP event debugging is enabled. A process involved in SGBP was terminated upon completion of its work.

Recommended Action LOG_STD_NO_ACTION

%SGBP-5-STARTUP : [chars]

Explanation This message is generated only when SGBP event debugging is enabled. An process involved in SGBP was started.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-CLOSE : Closing pipe for member [chars]

Explanation This message is generated only when SGBP event debugging is enabled. An interprocess communication link was closed.

%SGBP-7-CLOSE : Closing pipe for member [chars]

Recommended Action LOG_STD_NO_ACTION

%SGBP-5-ARRIVING : New peer event for member [chars]

Explanation This message is generated only when SGBP event debugging is enabled. An SGBP peer joined the group.

Recommended Action LOG_STD_NO_ACTION

%SGBP-5-LEAVING : Member [chars] leaving group [chars]

Explanation This message is generated only when SGBP event debugging is enabled. An SGBP peer has left the group.

Recommended Action LOG_STD_NO_ACTION

%SGBP-3-UNKNOWN : [IP_address] not known

Explanation This message is generated only when SGBP error debugging is enabled. An SGBP connection was attempted by a host which was not recognized as a peer. The connection was not accepted.

Recommended Action Depending on the network topology and firewalling, SGBP connection attempts from a non-peer host could indicate probing and attempts to breach security. If there is a chance your network is under attack, obtain knowledgeable assistance.
LOG_STD_ACTION

%SGBP-1-AUTHFAILED : Member [chars] failed authentication

Explanation This message is generated only when SGBP hellos or errors debugging is enabled. This indicates that an attempted peer connection ended in authentication failure. A peer may be misconfigured. Or this could indicate an attempted security breach.

Recommended Action Check if the peer is correctly configured. If there is a chance your network is under attack, obtain knowledgeable assistance. LOG_STD_ACTION

%SGBP-7-CHALLENGED : Rcv Hello Challenge message from member [chars] using [IP_address]

Explanation This message is generated only when SGBP hellos debugging is enabled. This indicates that an authentication challenge was received from a peer.

%SGBP-7-CHALLENGED : Rcv Hello Challenge message from member [chars] using [IP_address]

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-RESPONSED : Rcv Hello Response message from member [chars] using [IP_address]

Explanation This message is generated only when SGBP hellos debugging is enabled. This indicates that a response to an authentication challenge was received from a peer.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-CHALLENGE : Send Hello Challenge to [chars] group [chars]

Explanation This message is generated only when SGBP hellos debugging is enabled. This indicates that an authentication challenge was sent to a peer.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-RESPONSE : Send Hello Response to [chars] group [chars]

Explanation This message is generated only when SGBP hellos debugging is enabled. This indicates that a response to an authentication challenge was sent to a peer.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-NORESP : Failed to respond to [chars] group [chars], may not have password

Explanation An authentication challenge was received but there was no information available to respond to it. This probably indicates a configuration error, a missing password.

Recommended Action Refer to the documentation to configure a username with the same name as the SGBP group.

%SGBP-1-UNKNOWNHELLO : Rcv Hello message from non-group member using [IP_address]

Explanation This message is generated only when SGBP hellos or error debugging is enabled. An SGBP Hello message was received from a host that is not a member of the SGBP group, and discarded.

Recommended Action This is a configuration error. Either that host should be listed in this router's configuration as a member (if that is actually true) or the other host is misconfigured to attempt to join this group.

%SGBP-1-MISSCONF : Possible misconfigured member [chars] using [IP_address]

Explanation This message is generated only when SGBP hellos or error debugging is enabled. This indicates a configuration error. Either this router has an incorrect IP address listed for the peer or the peer is using an incorrect IP address.

Recommended Action Find and correct the configuraton error.

%SGBP-7-RCVINFO : Received Info Addr = [IP_address] Reference = [hex]

Explanation This message is generated only when SGBP hellos debugging is enabled. It indicates that data was received by a listener process.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-SENDINFO : Send Info Addr to [chars]

Explanation This message is generated only when SGBP hellos debugging is enabled. It indicates that data was sent by the listener process in response to received data.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-KEEPALIVE : Sending Keepalive to [chars], retry=[dec]

Explanation This message is generated only when SGBP hellos debugging is enabled. It indicates that a keepalive message was send to an SGBP member.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-KEEPALIVE_TIMEOUT : Keepalive timeout on [chars]

Explanation This message is generated only when SGBP hellos debugging is enabled. It indicates that keepalive messages were not answered so the pipe to an SGBP member has been closed.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-SENDAUTHOK : Send Hello Authentication OK to member [chars] using [IP_address]

Explanation This message is generated only when SGBP hellos debugging is enabled. A message was send or re-sent to another SGBP member indicating that an authentication attempt from that member succeeded.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-AUTHOK : Member [chars] State -> AuthOK

Explanation This message is generated only when SGBP errors or events debugging is enabled. A message was received from another SGBP member indicating that an authentication attempt to that member succeeded.

Recommended Action LOG_STD_NO_ACTION

%SGBP-7-WAITINFO : Member [chars] State -> WaitInfo

Explanation

Recommended Action

%SGBP-7-ACTIVE : Member [chars] State -> Active

Explanation This message is generated only when SGBP errors or events debugging is enabled. This indicates that a link to another SGBP member has completed the interactions to set it up and is now entering the active state.

Recommended Action LOG_STD_NO_ACTION

%SGBP-1-DIFFERENT : Rcv [chars]'s addr [IP_address] is different from the hello's addr [IP_address]

Explanation The internally-configured address for an SGBP member does not match the address of the host that tried to authenticate as that member. The configuration is incorrect on either this system or the other member - they must agree.

Recommended Action Determine which configuration is in error and fix it.

%SGBP-1-NOTAUTH : Rcv Connection request by non-authenticated member [chars]

Explanation

%SGBP-1-NOTAUTH : Rcv Connection request by non-authenticated member [chars]

**Recommended
Action**

%SGBP-1-DUPLICATE : Rcv Duplicate bundle [chars] is found on member [chars]

Explanation This message is generated only when SGBP hellos or errors debugging is enabled. This indicates that a duplicate bundle was received from the same peer more than once. The duplicate was discarded.**Recommended
Action** LOG_STD_RECUR_ACTION

%SGBP-3-INVALIDADDR : Stack group [chars] IP address [IP_address]

Explanation The current configuration does not allow a local IP address to be configured using **sgbp member <address>**. Any local address is automatically removed from the SGBP group.**Recommended
Action** Do not configure **sgbp member <address>** using a local IP address.

SGPM

%SGPM-3-POLICY_INCOMPLETE_RULE : Subscriber policy rule ([chars]), event ([chars]) is missing a mandatory action for service [chars] automatically adding.

Explanation The subscriber policy rule was missing a mandatory action; automatically added.**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SGPM-3-POLICY_CTX_POISONED : Policy context [hex] has bad magic, [hex].

Explanation The magic number in the policy context is wrong.**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SGPM-3-PACL_NAME_TOO_LONG : The acl name ([chars]-[chars]) is too long, it exceeds the maximum length of [dec].

Explanation	Too many acl entries have made the acl name exceed the maximum supported length
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SGPM-3-POLICY_RULE_SERVICE_CONFIG_ERROR : Service ([chars]) is configured incorrectly, service_failed event will be thrown

Explanation	In policy rule, the service is configured incorrectly, then a service-failed event will be thrown.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SGPM-3-POLICY_CTX_ACTIVE : Active policy context [hex] has bad magic, [hex].

Explanation	The magic number in the active policy context is wrong.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SHDSL through SISF_TRACKING_HA

- [SHDSL](#)
- [SHELL_ISSU](#)
- [SHFWD](#)
- [SIGNAL_OCE](#)
- [SIP](#)
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- SISF
- SISF_ISSU
- SISF_TRACKING_HA

SHDSL

%SHDSL-3-NOMEM : SHDSL [chars] malloc failed : out of memory

Explanation	The router does not have enough memory installed to run this SHDSL feature
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SHDSL-1-INIT : SHDSL([dec]/[dec]/[dec]): [chars].

Explanation	An attempt to initialize the SHDSL NIM failed. This module cannot be used
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SHDSL-1-FWDNLD : [chars] [chars].

Explanation	An attempt to download firmware for SHDSL card failed. This interface cannot be used.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SHDSL-1-TCLAYER : SHDSL([dec]/[dec]/[dec]): [chars] [dec].

Explanation	if CPE-CO mode(ATM/EFM) configuration is improper This Error Message is generated which means that the peer device has different TC layer or no common TC layer was selected during handshake.
Recommended Action	Change the mode(ATM to EFM or EFM to ATM)configuration on CPE or CO side

%SHDSL-1-INFO : SHDSL([dec]/[dec]/[dec]): [chars].

Explanation	Info on SHDSL card.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SHDSL-4-ERRORINT : Error interrupt: [chars] received

Explanation	A spurious event happened for the SHDSL card.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SHDSL-6-DSLGROUP_UPDOWN : [chars] dsl-group [dec] state changed to [chars].

Explanation	DSL Group state is changed.
Recommended Action	No action is required.

%SHDSL-6-EFM_BOND_LINK_RATE_CHANGE : [chars] EFM Link([dec]) bandwidth is changed.

Explanation	SHDSL link is trained to a different rate EFM bonding group.
Recommended Action	No action is required.

%SHDSL-6-EFM_ACT_LINK_CHANGE : [chars] EFM Group [dec] has [dec] active links, active link bitmap is [hex].

Explanation	Active Links were added or removed from the Group, changing its bandwidth.
Recommended Action	No action is required.

%SHDSL-5-DYING_GASP : Power failure at CPE detected at link no [dec].

Explanation	CPE has gone down because of power failure.
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%SHDSL-5-DYING_GASP : Power failure at CPE detected at link no [dec].

Recommended Action No action is required.

%SHDSL-3-EFM_FRAME_SIZE : [chars] [chars].

Explanation An attempt to change the maximum frame size in EFM bonding scenario has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SHDSL-1-EFM_BOND : [chars] CPE-CO configuration mismatch detected for link:[dec].

Explanation If CPE is configured in efm bonding and CO is configured in plain 2wire then link will come-up in plain 2-wire. Since CPE is configured in efm bonding, CPE will ignore link up event

Recommended Action Correct either CPE or CO's configuration

%SHDSL-3-FIRMWARE : [chars] [chars]

Explanation Error occurred in the SHDSL module firmware.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SHDSL-6-PHY_FWDNLD : [chars] [chars] [chars]

Explanation Info about status of SHDSL Phy firmware download.

Recommended Action No action is required.

%SHDSL-3-PHY_FWDNLD_FAIL : [chars] [chars] could be incomplete or corrupted or not present in [chars]

Explanation Error occurred in the SHDSL Phy firmware download.

Recommended Action Use correct firmware package file

%SHDSL-1-NGIO_DROP : Command dropped since phy re-init is in progress.

Explanation	If ngio_drop_messages is set, then the messages are dropped in host
Recommended Action	Wait till the phy reinit is complete

SHELL_ISSU

%SHELL_ISSU-2-INIT : Shell ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation	The Shell ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SHELL_ISSU-3-MSG_NOT_OK : Shell ISSU client 'Message Type [dec]' is not compatible

Explanation	The Shell ISSU client received an incompatible message from the peer device. The message cannot be processed.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%SHELL_ISSU-3-MSG_SIZE : Shell ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation	The Shell ISSU client failed to calculate the MTU for the specified message. The Shell ISSU client is not able to send the message to the standby device.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%SHELL_ISSU-3-INVALID_SESSION : Shell ISSU client does not have a valid registered session.

Explanation	The Shell ISSU client does not have a valid registered session.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%SHELL_ISSU-2-SESSION_REGISTRY : Shell ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The Shell ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%SHELL_ISSU-3-SESSION_UNREGISTRY : Shell ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The Shell ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%SHELL_ISSU-2-SESSION_NEGO_FAIL_START : Failed to start Shell ISSU session negotiation. Error: [dec] ([chars])

Explanation	The Shell ISSU client failed to start session negotiation. If a problem occurs with the ISSU session start, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id>)

%SHELL_ISSU-2-SEND_NEGO_FAILED : Shell ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation	The Shell ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%SHELL_ISSU-2-GET_BUFFER : Shell ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation	The Shell ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%SHELL_ISSU-2-COPY_SHELL_INIT_TO_STANDBY : Failed to copy the shell init file [chars] to standby

Explanation	If the shell init file is not copied to standby, the shell init file CLI will not be applied to maintain the consistency between active and standby.
Recommended Action	LOG_STD_SH_CMD_ACTION(Try manually copy a file to standby to see if it's a filesystem issue. It could be a space issue in the standby disk)

%SHELL_ISSU-2-SAVE_TRIGGER_FOR_REAPPLY : Failed to add trigger to the re-apply queue. Trigger: [chars], Env: [chars]

Explanation	Triggers that failed to get applied during ISSU must be saved and then re-applied after ISSU completes.
Recommended Action	LOG_STD_SH_CMD_ACTION(Manually re-apply the trigger after ISSU completes)

SHFWD**%SHFWD-6-PACKET_TRACE_DONE : Packet Trace Complete: [chars]**

Explanation	Packet trace cmd initiated by admin is complete
Recommended Action	No action is required

%SHFWD-6-PACKET_TRACE_FLOW_ID : Packet Trace Flow id is [int]

Explanation	Packet trace instance can be tracked by flowid
Recommended Action	No action is required

%SHFWD-6-PACKET_TRACE_FAIL : Show fwd is failed at [chars]

Explanation	Packet trace cmd initiated by admin is fail
Recommended Action	Collect the trace from all the switch using the cli \ (show platform software trace fed switch <>)

SIGNAL_OCE**%SIGNAL_OCE-3-SOCE : Failed to [chars] signal oce [chars][chars]**

Explanation	An internal software error occurred.
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%SIGNAL_OCE-3-SOCE : Failed to [chars] signal oce [chars][chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SIGNAL_OCE-3-SOCE_SB_OPERATION_FAILED : Failed to [chars] subblock on [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SIP

%SIP-3-QUEUE_ERROR : Unable to enqueue event [chars] ([dec]) to a process watched queue. Current size: [dec], max size: [dec]

Explanation	An internal or external event was dropped because it could not be added to the queue, probably because the queue is full. The result may be minor (retransmission of a SIP message) or major (dropped call), depending on the event which was lost. This error may indicate that the call rate is exceeding the capacity of the gateway. If this is the case, the CPU utilization will be excessively high (above 75%).
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show process cpu command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-INSV_ERROR : Error encountered while trying to bring the SIP component into service

Explanation	During bootup of the gateway, each of the Service Provider Interfaces (SPIs) are brought into service. The SIP SPI creates several processes and notifies the Call Control API (CCAPI) when it is finished. One or more of these tasks failed, so the SIP component will not be properly initialized.
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%SIP-3-INSV_ERROR : Error encountered while trying to bring the SIP component into service

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-LIST_ERROR : Unable to create list for [chars]

Explanation Failure to create a list generally indicates that the router is out of memory, either due to a memory leak or insufficient memory. If the error was generated soon after a reload, its more likely that the router doesn't have enough memory. If the router has been running for a while, a memory leak is more likely. The SIP component is not properly initialized, and SIP calls may not complete properly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show process memory** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-INTERNAL : [chars]

Explanation

Recommended Action

%SIP-3-UNSUPPORTED : [chars]

Explanation An internal software error has occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show tech-support** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-INVALID : Invalid [chars] [dec]

Explanation An internal software error has occurred.

%SIP-3-INVALID : Invalid [chars] [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SIP-3-BADPAIR : Unexpected [chars] [dec] ([chars]) in state [dec] ([chars]) substate [dec] ([chars])

Explanation	The SIP state machine has encountered an error while processing an event or timer.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-6-IGNORE : Unexpected [chars] [dec] ([chars]) in state [dec] ([chars]) substate [dec] ([chars])

Explanation	The SIP state machine has encountered an error while processing an event or timer.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-CONSTRUCT : Error encountered while trying to construct a [dec] [chars] [chars] message

Explanation	An error was encountered while attempting to construct a SIP request or response message. If malloc errors were also seen, then that is most likely the root of the problem. If no memory allocation errors have occurred, then this may be an internal problem.
Recommended Action	If there were memory allocation errors at the same time as this error, then this error can be ignored. Otherwise: LOG_STD_SH_TECH_ACTION

%SIP-3-NORESOURCE : No resources for [chars]

Explanation	An error was encountered while trying to obtain memory resources for an internal queue or table. If malloc errors were also seen, then that is most likely the root of the problem. If no memory allocation errors have occurred, then this may be an internal problem.
Recommended Action	If there were memory allocation errors at the same time as this error, then this error can be ignored. Otherwise: LOG_STD_SH_TECH_ACTION

%SIP-3-NOMATCH : Unable to find matching CCB for ccCallID [dec]

Explanation	An internal error was encountered while trying to match a call ID with a call control block
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-5-DIALPEER_STATUS : VoIP dial-Peer <[dec]> is [chars]

Explanation	VoIP dial-peer's operational status is changed
Recommended Action	If the dial-peer status is busyout, the session target configured under the dial-peer is not reachable

%SIP-3-DIGITEND : Missing digit end event for '%c' for call ID [chars]

Explanation	A digit begin event was detected without a matching digit end. This is most likely an internal error which is self correcting (the NOTIFY for the digit has been transmitted).
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-FORKING_CODEC : No forking codecs configured for dial-peer [dec], the forked m-lines will be rejected. Forking codecs are [chars]

Explanation Media forking requests which arrive in an INVITE message are identified by multiple media lines (m-lines) in the SDP. Each media line defines a media stream with destination port and payload types. In order to fork multiple media streams from a single call, all streams must share the same payload type and codec. Only a subset of the full list of SIP codecs are available for media forking, and the dial-peer selected for the call which is to be forked must include one of these supported codecs. This error indicates that the dial-peer does not include one of the supported codecs, so only the original media stream will be maintained; the remaining media streams will be rejected in the response by setting the port number to zero (0) in the SDP.

Recommended Action Modify the dial-peer configuration to include one of the forking codecs listed using either the codec command or the voice-class codec command.

%SIP-4-MAXSDP : SIP message sent with maximum SDP.

Explanation An SIP protocol message containing the maximum allowable SDP size has been sent. If the desired SDP was greater than the maximum size limit, the SDP has been truncated at the limit. If the desired SDP was equal to the maximum size limit, no truncation has occurred. This warning may indicate that an SIP request containing an unusually large SDP has been received from an external SIP application for a specific call, resulting in an SIP response with the maximum SDP.

Recommended Action No action is required.

%SIP-3-DIGITQFULL : Unable to queue DTMF digit. Queue full. size: [dec]

Explanation A request to queue a DTMF digit was rejected because the DTMF queue is full. A 5xx server error has been returned. This error may indicate that a flood of DTMF digit requests from an external SIP application for a specific call has been received in a very short period of time.

Recommended Action No action is required.

%SIP-3-UNKNOWNOBJ : MIB object [chars].[dec] is not known by MIB API subsystem.

Explanation The MIB object specified in the SNMP GET PDU has been correctly identified by the SNMP Agent infrastructure, but was not correctly identified by the subsystem responsible for the MIB. Processing of the GET operation cannot continue. The SNMP Agent infrastructure and subsystem responsible for the MIB, under normal conditions, will always be synchronized to the same set of MIB objects (that is, the same version of the MIB). This condition indicates that synchronization has not occurred.

%SIP-3-UNKNOWNOBJ : MIB object [chars].[dec] is not known by MIB API subsystem.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SIP-3-NOGETSTRUCT : No data structure passed to MIB API subsystem.

Explanation	The SNMP Agent MIB subsystem for this MIB did not pass any data structure to the MIB API subsystem for the proper retrieval of the requested object data. Processing of the GET operation cannot continue.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-NOSETDATA : No SET data passed to MIB API subsystem.

Explanation	The SNMP Agent MIB subsystem for this MIB did not pass any data to the MIB API subsystem for the proper assignment of values to the internal data structures of the object. Processing of the SET operation cannot continue.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-6-LONG_DUR_CALL_DETECTED : Long Duration Call is detected [chars]

Explanation	The call is active for configured duration of long call
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-DIALPEERBWCAC : Calling number [chars], called number [chars], dial-peer [dec], used bandwidth [dec], available bandwidth [dec], requested bandwidth [dec], call state [chars]

Explanation	Bandwidth CAC has rejected the call/media renegotiation due to configured dial-peer bandwidth threshold being exceeded
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%SIP-3-DIALPEERBWCAC : Calling number [chars], called number [chars], dial-peer [dec], used bandwidth [dec], available bandwidth [dec], requested bandwidth [dec], call state [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-INTBWCAC : Calling number [chars], called number [chars], dial-peer [dec], interface [chars], used bandwidth [dec], available bandwidth [dec], requested bandwidth [dec], call state [chars]

Explanation Bandwidth CAC has rejected the call/media renegotiation due to configured interface bandwidth threshold being exceeded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-PTIME : Unsupported Ptime value [dec], using minimum Ptime value of [dec] on CallID [dec] Codec=[chars]

Explanation Unsupported Ptime value negotiated

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-INTCALLCAC : Call rejected due to CAC based on number of calls on the interface, sent response [dec]

Explanation Interface-calls CAC has rejected the call due to configured int-calls threshold being exceeded.

%SIP-3-INTCALLCAC : Call rejected due to CAC based on number of calls on the interface, sent response [dec]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-TOTCALLCAC : Call rejected due to CAC based on Total-calls, sent response [dec]

Explanation Total-calls CAC has rejected the call due to configured total-calls threshold being exceeded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-CPUCAC : Call rejected due to CAC based on CPU usage, sent response [dec]

Explanation CPU usage CAC has rejected the call due to configured cpu-avg|cpu-5sec threshold being exceeded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-MEMCAC : Call rejected due to CAC based on Memory usage, sent response [dec]

Explanation Memory usage CAC has rejected the call due to configured io-mem|proc-mem|total-mem threshold being exceeded.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-MAXCONNAC : Call rejected due to CAC based on maximum number of connections on dial-peer [dec], sent response [dec]

Explanation	Maximum number of connections CAC has rejected the call due to configured max-conn threshold being exceeded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-5-EVENT_TRACE_PATH_ERR : Event Trace Dump PATH [chars] not accesible. Verify credentials, directory path and network connectivity. Correct the Error and reconfigure Dump-file

Explanation	Event Trace Dump-file Location not accessible
Recommended Action	Correct the accesibility Error and reconfigure

%SIP-2-SILENT_DISCARD : Silent Discard [chars]

Explanation	Request received from Untrusted Host.
Recommended Action	Block the request from untrusted host at network layer

%SIP-5-BIND_LINE_STATUS : bind line proto status

Explanation	Informational message on bind line proto
Recommended Action	No action is required.

%SIP-4-WEAK_PASSWORD_TYPE : Command has been added to the configuration using a type [int] password. However, type [int] passwords will soon be deprecated. Migrate to a supported password type [int]

Explanation	Password encryption type deprecated. New password type to be used
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-3-PASSWORD_REKEY_FAILED : Failed to encrypt type 6 password after master key change. Password [chars] will become unusable

Explanation	Type 6 password encryption failed after master key change
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SIP-2-TLS_HANDSHAKE_FAILED : TLS handshake failure - remote_addr=[chars], remote_port=[int]

Explanation	TLS handshake failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SIPPHONE

%SIPPHONE-6-REGISTER : VOICE REGISTER POOL-[dec] has registered. Name:[chars] IP:[chars] DeviceType:Phone-[chars]

Explanation	SIP phone is registered.
Recommended Action	No action is required.

%SIPPHONE-6-UNREGISTER : VOICE REGISTER POOL-[dec] has unregistered. Name:[chars] IP:[chars] DeviceType:Phone-[chars]

Explanation	SIP phone is unregistered.
Recommended Action	No action is required.

%SIPPHONE-6-AUTOREGISTER80 : AUTO-REGISTER: 80%% of DN range is consumed

Explanation	80%% of capacity is consumed.
Recommended Action	No action is required.

%SIPPHONE-6-AUTOREGISTER100 : AUTO-REGISTER: 100%% of DN range is consumed

Explanation 100%% of capacity is consumed.**Recommended Action** No action is required.

SIP_SUPPSERV

%SIP_SUPPSERV-6-TRANSFER : Transfer from pool([dec]) to [chars] is not allowed

Explanation Transfer from the SIP Phone to this specific destination is not allowed**Recommended Action** No action is required.

%SIP_SUPPSERV-6-TRANSFER_BLOCKED : All external transfers from pool([dec]) are blocked

Explanation Transfer from the SIP Phone to any external destination is not allowed**Recommended Action** No action is required.

%SIP_SUPPSERV-6-TRANSFER_LEN_EXCD : Transfer number exceeds configured number length. Transfer blocked for pool ([dec])

Explanation Transfer from the SIP Phone is blocked as the transfer digits entered exceeds the dialplan limit for transfers**Recommended Action** No action is required.

%SIP_SUPPSERV-6-CONFERENCE : Conference from pool ([dec]) to [chars] is not allowed

Explanation Conference from the SIP Phone to this specific destination is not allowed**Recommended Action** No action is required.

%SIP_SUPPSERV-6-CONFERENCE_BLOCKED : All external conferences from pool([dec]) are blocked

Explanation Conference from the SIP Phone to any external destination is not allowed**Recommended Action** No action is required.

%SIP_SUPPSERV-6-CONFERENCE_LEN_EXCD : Conference number exceeds configured number length. Conference blocked for pool ([dec])

Explanation	Conference from the SIP Phone is blocked as the conference digits entered exceeds the dialplan limit for conferences
Recommended Action	No action is required.

SISF

%SISF-3-INTERNAL : Internal error, [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SISF-6-ENTRY_CREATED : Entry created [chars]

Explanation	An entry was created in the binding table
Recommended Action	This is an informationnal message

%SISF-6-ENTRY_DELETED : Entry deleted [chars]

Explanation	An entry was created in the binding table
Recommended Action	This is an informationnal message

%SISF-6-ENTRY_CHANGED : Entry changed [chars]

Explanation	An entry was changed in the binding table
Recommended Action	This is an informationnal message

%SISF-6-ENTRY_MAX_ORANGE : Reaching 80%% of max adr allowed per [chars]

Explanation	Reached 80% of maximum # addresses for the target
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%SISF-6-ENTRY_MAX_ORANGE : Reaching 80%% of max adr allowed per [chars]

Recommended Action	A client is approaching red zone and might soon be blocked. The maximum value configured may be too low and you should consider increasing it. Or some of this client addresses are stale and you could clear them
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%SISF-4-ENTRY_BLOCKED : Entry blocked [chars]

Explanation	An attempt to install an entry in the IPv6 binding table was blocked. This can be due to a conflicting entry or maximum number of entries reached
Recommended Action	If the maximum table size is reached, consider increasing it. If a conflicting entry already exist, this maybe an attempt to steal address ownership. You should investigate which host is connected on the interface and wether it should be disconnected

%SISF-4-IP_THEFT : IP Theft [chars]

Explanation	A duplicate IP address has been detected (IP theft) and blocked This can be due to a configuration error on end-device, an intentional IP theft or an IP movind too quickly
Recommended Action	If the existing entry is REACHABLE in the binding table, and it moved to a new port consider reducing the REACHABLE timer otherwise it is either an attack or a configuration issue that must be resolved

%SISF-4-MAC_THEFT : MAC Theft [chars]

Explanation	A duplicate MAC address has been detected (MAC theft) and blocked This can be due to a configuration error on end-device, an intentional MAC theft or MAC moving too quickly
Recommended Action	If the existing entry is REACHABLE in the binding table, and it moved to a new port consider reducing the REACHABLE timer otherwise it is either an attack or a configuration issue that must be resolved

%SISF-4-MAC_AND_IP_THEFT : MAC_AND_IP Theft [chars]

Explanation	A duplicate MAC and IP address has been detected (MAC_AND_IP theft) and blocked This can be due to a configuration error on end-device, an intentional MAC_AND_IP theft or MAC moving too quickly
Recommended Action	If the existing entry is REACHABLE in the binding table, and it moved to a new port consider reducing the REACHABLE timer otherwise it is either an attack or a configuration issue that must be resolved

%SISF-4-PAK_DROP : Message dropped [chars]

Explanation	A message was dropped because one of the IPv6 first-hop security features said so
Recommended Action	Look at the reason. It can either be a valid drop and the could go up to disconnect the host attached to the interface, or the policy configured on this interface is too severed and should be amended

%SISF-4-DATA_GLEAN_NOTIF_RECEIVED : No binding for [chars]

Explanation	A data packet notification has been received because a snooping policy with the data glean option is configured and the Source address of the packet is not currently in the Binding Table.
Recommended Action	There are valid scenarios where the binding could not be learned (e.g. control packet was lost) or the binding is lost (e.g. switch reboot). Conversely, it could also be the case that an unauthorized Source Address is trying to generate traffic, in which case this should be investigated further to determine if the host on this particular interface needs to be disconnected.

%SISF-4-RESOLUTION_VETO : Resolution vetoed [chars]

Explanation	IPv6 Neighbor Discovery (ND) was about to resolve a target destination. SISF Destguard has vetoed this because the target is known not to be on-link.
Recommended Action	A low rate of vetoed resolutions is not serious. If there is a high rate of vetos this might suggest that the link is under attack. Investigate the source of the packets driving these resolution requests

SISF_ISSU**%SISF_ISSU-2-INIT : Sisf ISSU client initialization failed to [chars]. Error: [dec] ([chars])**

Explanation	The Sisf ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SISF_ISSU-3-TRANSFORM_FAIL : Sisf ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation	The Sisf ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the Sisf state between the active device and the standby device is not identical.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%SISF_ISSU-3-MSG_NOT_OK : Sisf ISSU client 'Message Type [dec]' is not compatible

Explanation	The Sisf ISSU client received an incompatible message from the peer device. The message cannot be processed.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%SISF_ISSU-3-MSG_SIZE : Sisf ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation	The Sisf ISSU client failed to calculate the MTU for the specified message. The Sisf ISSU client is not able to send the message to the standby device.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%SISF_ISSU-3-INVALID_SESSION : Sisf ISSU client does not have a valid registered session.

Explanation	The Sisf ISSU client does not have a valid registered session.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%SISF_ISSU-2-SESSION_REGISTRY : Sisf ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The Sisf ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%SISF_ISSU-3-SESSION_UNREGISTRY : Sif ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The Sif ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%SISF_ISSU-2-SESSION_NEGO : Sif ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	An ISSU-compliant client transitions through a series of internal states. The Sif ISSU client encountered a 'client negotiation done' state that was unexpected. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%SISF_ISSU-2-SEND_NEGO_FAILED : Sif ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation	The Sif ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%SISF_ISSU-2-GET_BUFFER : Sif ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation	The Sif ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%SISF_ISSU-3-CAP_NOT_COMPATIBLE : Sif ISSU client capability exchange result incompatible.

Explanation	The Sif ISSU client capability exchange have negotiated as incompatible with the peer.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu negotiated capability <Session_ID>)

%SISF_ISSU-3-CAP_INVALID_SIZE : SISF ISSU client capability list is empty.

Explanation	The SISF ISSU client capability exchange list size is invalid.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entires <Client_ID>)

SISF_TRACKING_HA

%SISF_TRACKING_HA-4-ENTRY_OUT_OF_SYNC : Host mac-address [enet] ip-address [IP_address] interface [chars]

Explanation	An inconsistency has been detected in the IP device tracking table for this host between active and standby
Recommended Action	No action is required.

SKINNYMAIN through SMRP

- [SKINNYMAIN](#)
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SKINNYMAIN

%SKINNYMAIN-4-KEYPADFAST : Keypad messages from the phone [dec] are too fast

Explanation	The inter digit interval is too short. Each digit may not be processed properly
Recommended Action	Please configure keypad-normalize for the phone

%SKINNYMAIN-4-KEYPADFAST : Keypad messages from the phone [dec] are too fast

Explanation	The inter digit interval is too short. Each digit may not be processed properly
Recommended Action	Please configure keypad-normalize for the phone

SKINNYSECURESERVICE

%SKINNYSECURESERVICE-3-NOINIT : Can't initialize Secure Skinny server

Explanation	Internal problems with initializing ports for the Secure Skinny server
Recommended Action	Make sure the Skinny secure server port is available on the local machine.

%SKINNYSECURESERVICE-3-NOMEM : Can't initialize memory for Secure Skinny server

Explanation	Insufficient Memory for Secure Skinny server
Recommended Action	Increase amount of available memory

%SKINNYSECURESERVICE-3-NOSOCKETS : Max Number of Skinny Secure Server sockets exceeded: too many IP phones

Explanation	There are too many skinny Secure server clients requesting service
Recommended Action	Reduce number of Secure IP phones requesting service

%SKINNYSECURESERVICE-3-NOPROC : Could not start Skinny Secure Server

Explanation	Internal Problem in process creation
Recommended Action	None

%SKINNYSECURESERVICE-6-TLS_EVAL_LIMIT : The TLS signaling tunnels usage exceeds the license limit.

Explanation	The TLS signal tunnels usage exceeds the license limit.
Recommended Action	Please install the Permanent license

%SKINNYSECURESERVICE-6-TLS_EVAL_FREE_ERROR : Error encountered on release TLS signaling tunnels.

Explanation	Error encountered on release TLS signaling tunnels.
Recommended Action	Please install the Permanent license

SKINNYSERVER

%SKINNYSERVER-3-NOINIT : Can't initialize Skinny server

Explanation	Internal problems with initializing ports for the Skinny server
Recommended Action	Make sure the Skinny server port is available on the local machine.

%SKINNYSERVER-3-NOMEM : Can't initialize memory for Skinny server

Explanation	Insufficient Memory for Skinny server
Recommended Action	Increase amount of available memory

%SKINNYSERVER-3-NOSOCKETS : Max Number of Skinny Server sockets exceeded: too many IP phones

Explanation	There are too many skinny server clients requesting service
Recommended Action	Reduce number of IP phones requesting service

SLA

%SLA-3-SLATHRESHOLD : IP SLAs([int]): Threshold for [chars]; [chars]; [dec]

Explanation	This informational message logs threshold violations in the Service Assurance Agent probes. This messages appears when the ip sla logging trap command is entered
Recommended Action	If this message is not necessary, enter the no ip sla logging trap command to disable logging. Otherwise, no action is required

%SLA-3-SLAAVAILABILITY : IP SLAs([int]): State change for [chars];[chars];FLR - [dec]

Explanation	This informational message logs availability transitions in the Service Assurance Agent probes. This messages appears when the ip sla logging trap command is entered
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%SLA-3-SLA AVAILABILITY : IP SLAs([int]): State change for [chars];[chars];FLR - [dec]

Recommended Action	If this message is not necessary, enter the <code>no ip sla logging trap</code> command to disable logging. Otherwise, no action is required
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SLIP

%SLIP-2-BADSTATE : Impossible input state [hex]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SLIP-2-BADQUOTE : Impossible quoted character [hex]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SM

%SM-2-INITIALIZATION_FAILED :

Explanation	Initialization of session manager process failed.
Recommended Action	Review SM logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.

SMAN**%SMAN-3-PTL_RENDERER_FAILURE : Rendering error with [chars],[chars]. Transform is missing or invalid for data.**

Explanation	The Shell Manager process attempted to render a command response but the transformation failed due to an internal error. The failure may have been caused by a missing transform file or an included file cannot be found. The transformation may also fail if the data returned in the response is binary and has not been processed correctly. In this case, the rendering engine is unable to interpret the data resulting in a failure. The transformation may also fail if there is a mismatch of packages installed on the system. In this case, incompatible messages are exchanged between the Shell Manager and the daemon servicing the command request and incorrect data is passed to the rendering engine.
Recommended Action	This error indicates a configuration issue resulting from bad or mismatched packages. Review the Shell Manager trace files and log files. Uninstall, then reinstall, any new packages.

%SMAN-2-TDL_MESSAGE : Cannot construct an IPC message for library. The message name is [chars] and the reason is: [chars]

Explanation	A problem occurred while constructing a type definition language (TDL) message or setting a field in a TDL message. If the problem occurred during construction of a TDL message, the system is out of memory. If the problem occurred while setting a field in the TDL message, there is a library mismatch issue.
Recommended Action	Check [uipeer] ERR entries in the log files for message reporting problems.

%SMAN-2-NO_MEMORY : Cannot allocate memory for an internal data structure

Explanation	An out-of-memory condition occurred when attempting to create an internal data structure. The daemon encountering the problem will exit, after which the process manager will restart.
Recommended Action	Check the log files for the associated daemon. Monitor processes for excessive memory consumption.

%SMAN-3-INVALID_EPOCH_FILE : An upgrade or installation has produced an invalid messaging configuration file [chars], [chars]

Explanation	During an upgrade or installation of a new package, an invalid messaging configuration file was produced. The file is either empty or has invalid permissions and cannot be read.
Recommended Action	Repeat the installation or upgrade. If the problem persists, revert to a previous known good package.

%SMAN-3-HOSTINFO_READ_FAILURE : Error reading host info ([chars]): [chars]

Explanation During process startup and when changes occur, the Shell Manager reads host-related information, such as the hostname. This error occurs if there is a failure reading information.

Recommended Action Check the Shell Manager trace file for related details.

%SMAN-3-HOSTINFO_MONITOR_FAILURE : Error initializing host info monitoring: [chars]

Explanation During initialization, the Shell Manager monitors changes to host-related information, such as the hostname. This error occurs if initialization fails.

Recommended Action Check the Shell Manager trace file for related details.

%SMAN-3-NO_CD_L_FILE : Could not access command definition file [chars]: [chars]

Explanation During initialization, the Shell Manager loads a XML CDL file to load all the CLI structure. This file is for some reason not found.

Recommended Action Check the Shell Manager trace file for related details.

%SMAN-3-CRDU_PATCH_REPLY_TIMEOUT : Failed to receive patch response from peer process [chars]

Explanation During patch operation the Shell Manager broadcasts a request to all affected processes (peers). If a peer does not respond in time then the patch process cannot be completed correctly

Recommended Action Check that the process(es) that failed to respond are still active and check their trace files for any potential errors that could prevent them from responding to a patch request in a timely manner

%SMAN-5-CRFT_COLLECT_REQUEST_SUCCESS : CRFT collection completed successfully.

Explanation This message serves to inform the user of exactly when the collection completes and they are no longer waiting for additional processes

Recommended Action No action required. This message is expected

%SMAN-4-CRFT_COLLECT_REQUEST_FAIL : CRFT collection request finished with one or more failures. Check trace logs for further details.

Explanation After a request to collect CRFT data if any program reports an error or fails to respond within the timeout period this message will be emitted.

Recommended Action Inspect btrace logs for information about which programs failed and why

%SMAN-5-CRFT_COLLECT_REQUEST_NOT_SUPPORTED : CRFT collection request not supported on peer [chars]

Explanation Some processes may not support CRFT collection for any of a number of reasons. This message serves to alert the user so that they do not go searching for CRFT stats for the process in question and determine an error has occurred when they cannot find them

Recommended Action None. Information only.

%SMAN-5-CRFT_COLLECT_REQUEST_INPROGRESS : CRFT collection already in progress. Please try again later

Explanation CRFT collection is something that should happen infrequently so if there is already a collection request in progress we reject the incoming request and emit a message to the user informing them that their request is rejected.

Recommended Action Try the request again later if necessary

SMANRP

%SMANRP-3-MSGDISPATCHNULL : Received NULL TDL message

Explanation An unexpected condition in which IOS has received a NULL TDL message from Shell Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-MSGDISPATCH : Unable to dispatch received TDL message '[chars]' from Shell Manager. LUID: [chars]

Explanation An unexpected condition has occurred while IOS is trying to dispatch to the TDL message handler functions for received TDL messages from Shell Manager.

%SMANRP-3-MSGDISPATCH : Unable to dispatch received TDL message '[chars]' from Shell Manager. LUID: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SMANRP-3-MSGMISSINGFIELD : Missing field '[chars]' in TDL message '[chars]' received from the Shell Manager

Explanation	A message missing a required field was received from the Shell Manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-MSGINVALIDFIELDINT : Invalid field '[chars]' in TDL message '[chars]' received: value '[int]' from the Shell Manager

Explanation	A message with an invalid field value was received from the Shell Manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-MSGINVALIDFIELDSTR : Invalid field '[chars]' value '[chars]' in TDL message '[chars]' received from the Shell Manager

Explanation	A message with an invalid field value was received from the Shell Manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-MSGERROR : Error [dec] handling a received TDL message '[chars]' from the Shell Manager: [chars]

Explanation	An unexpected condition has occurred while IOS is processing a TDL message received from the Shell Manager
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%SMANRP-3-MSGERROR : Error [dec] handling a received TDL message '[chars]' from the Shell Manager: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SMANRP-3-MSGBUILDERROR : Error [dec] building TDL message '[chars]' to send to the Shell Manager: [chars]

Explanation	An unexpected condition has occurred while IOS is building a TDL message to send to the Shell Manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-MSGMARSHALERROR : Error '[dec]' marshaling TDL message '[chars]' to send to the Shell Manager

Explanation	An unexpected condition has occurred while IOS is marshaling TDL message to send to the Shell Manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-MSGENQUEUEERROR : Error queueing TDL message '[chars]' to send to the Shell Manager

Explanation	An unexpected condition has occurred when IOS attempted to queue a TDL message to send to the Shell Manager
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-BADREPLYJOBID : Incorrect command reply job id [int] (origin [chars]), expecting [int]

Explanation A command reply message from the Shell Manager referenced the wrong originating job id

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-CMDTOOLONG : Interactive command too long

Explanation Instructions for command execution would result in creation of a command string that is beyond the maximum size.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-CMDBUILD : Interactive command directive [dec] of [dec] failed

Explanation In processing a CLI command, one of the instructions returned through the Shell Manager could not be turned into an interactive command for remote execution.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-CMDCONNECT : Connection to local interactive relay failed: [chars]

Explanation Connecting to the local relay for an interactive command failed due to the reason indicated in the error message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-CMDSEND : Send interactive command to relay failed: [chars]

Explanation Sending the interactive command string to the local relay after the connection was established failed by the reason indicated in the error message.

%SMANRP-3-CMDSEND : Send interactive command to relay failed: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SMANRP-3-MSGBIPCONNERR : Unable to register with the BIPC subsystem for connections to Shell Manager

Explanation	IOS Shell Manager client code could not register with the BIPC communications infrastructure in order to establish a connection with the Shell Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-MSGBIPCERR : Unable to process received BIPC messages from Shell Manager, error: [chars]

Explanation	An unexpected condition has occurred while IOS trying to process a received BIPC message from Shell Manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-MSGBIPCBUFFER : Unable to acquire a BIPC buffer for sending messages.

Explanation	A message was to be sent by IOS, but no BIPC buffer was available. The message to be sent has been discarded and the associated operation failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-INVALIDCONNHANDLE : Invalid connection handle [int] referenced during command execution.

Explanation	The execution of a CLI command, which must communicate with Shell Manager for command execution, has referenced a connection handle that is invalid. The CLI command execution will have failed.
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%SMANRP-3-INVALIDCONNHANDLE : Invalid connection handle [int] referenced during command execution.

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SMANRP-3-SMAN_INIT_WQ_FAIL : Shell Manager client connection handler initialization failed: Unable to create [int] of [int] receiving queues.

Explanation	The Shell Manager client has failed to create all of its receiving queues. Ability to execute some CLI commands will be severely restricted or non-existent.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-SMAN_INIT_CONN_FAIL : Shell Manager client connection pool initialization failed: Unable to request creation of [int] of [int] connections.

Explanation	The Shell Manager client has failed to create all of its connections to Shell Manager. Ability to execute some CLI commands will be severely restricted or non-existent.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-SMAN_HANDLER_QUEUE_NOTEMPTY : Dynamic command handler exited foreground process with non-empty queue

Explanation	The dynamic command handler which dispatches commands to the shell manager, has exited without proper cleanup.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-SMAN_INIT_DC_TDL_FAIL : Shell Manager client initialization failed: Unable to initialize messaging: [chars]

Explanation	The Shell Manager client has failed to initialize the infrastructure for messaging with the Shell Manager. Ability to execute some CLI commands will be severely restricted or non-existent.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SMANRP-3-SET_ACCESS_FAIL : Installing LIIN interface access control failed

Explanation	This error happens when the Shell Manager shim failed to set the access control function for the LIIN, possibly due to IOS out of memory or corruption. Interactive commands will not work.
Recommended Action	LOG_STD_ACTION

%SMANRP-6-SMSTATUS : Shell Manager is [chars]

Explanation	The current status of Shell Manager.
Recommended Action	No action is required.

SMF

%SMF-4-INVALID_ACTION : failed to create SMF entry for [enet] on [chars] with result [hex]

Explanation	An internal software error occurred.
Recommended Action	LOG_STD_ACTION

SMRP

%SMRP-6-PORTUP : [chars]: SMRP port up - [chars]

Explanation	An SMRP port has come up.
Recommended Action	Notification message only. No action required.

%SMRP-5-PORTDOWN : [chars]: SMRP port down - [chars]

Explanation	An SMRP port is down and is no longer operational.
Recommended Action	Notification message only. No action required.

%SMRP-6-NEIGHBORUP : [chars]: SMRP neighbor up - [chars]

Explanation	A neighboring SMRP router has appeared.
Recommended Action	Notification message only. No action required.

%SMRP-5-NEIGHBORDOWN : [chars]: SMRP neighbor down - [chars]

Explanation	A neighboring SMRP router is now down.
Recommended Action	Notification message only. No action required.

%SMRP-3-NOFDDICOMPAT : SMRP port [chars] disabled; pre-fdditalk not supported

Explanation	SMRP cannot be started on an interface that is running pre-FDDITalk.
Recommended Action	Use FDDITalk on the FDDI ring if possible.

%SMRP-2-ASSERTFAILED : SMRP assertion failed: [chars]

Explanation	The software detected an inconsistency. This is considered a serious error. The router attempts to continue, but SMRP processing may be impaired.
Recommended Action	Copy the error message exactly as it appears, noting any SMRP problems that you are experiencing, and report it to your technical support representative.

%SMRP-7-DEBUGMSG : SMRP Debug: [chars]

Explanation	This message is generated by some debug commands to provide additional information about conditions in SMRP.
Recommended Action	If you are experiencing problems in SMRP, these messages should be provided, along with any other information, in a report to your technical support representative.

SNAPSHOT through SPANTREE_VLAN_SHIM

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SNAPSHOT

%SNAPSHOT-2-BADSTATE : Bad state for Snapshot block [chars][[dec]], location [dec]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNAPSHOT-2-TOOMANYDIALERS : Exceeded maximum dialer interfaces to watch. Ignoring [chars]

Explanation	Snapshot is being used over more than 100 DDR interfaces.
Recommended Action	Do not use snapshot over more than 100 DDR interfaces.

SNMP

%SNMP-3-TRAPINTR : Attempt to generate SNMP trap from interrupt level

Explanation	During the processing of an interrupt, the code attempted to generate an SNMP trap. This is not allowed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-3-TRAPBLOCK : Attempt to generate SNMP trap from a process with blocking disabled

Explanation	During processing, a process with blocking disabled attempted to generate an SNMP trap which would block. This is not allowed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-4-TRAPDROP : [chars]

Explanation	An attempt was made to generate an SNMP trap, but the trap could not be sent because of the reason given in this message. Most likely, this message means that the SNMP traps process is not running.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative. Use the show process command to determine whether the SNMP traps process is running. If it is not running, reload the system. If, after reloading, the SNMP traps process is still not running, there may not be enough memory for it to run.

%SNMP-3-BADVALUE : Maximum number of index supported is 20

Explanation	An SNMP trap contains some number of MIB objects, and the size of the instance identifier for these objects is restricted. This message indicates that an attempt was made to generate an SNMP trap containing a MIB object whose size exceeded this limit.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-3-BADOID : Attempt to generate an invalid object identifier

Explanation	A valid object identifier must contain at least two subidentifiers. An attempt was made to generate an object identifier whose size was less than two.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-3-CPUHOG : Processing [chars] of [chars]

Explanation	SNMP took too much time processing a request.
Recommended Action	If feasible, use the debug snmp packet command to determine the contents of the SNMP request that is causing the message. Copy the error message exactly as it appears, and report it along with any debug output to your technical support representative.

%SNMP-4-HIGHCPU : Process exceeds [dec]ms threshold ([dec]ms IOS quantum) for [chars] of [chars]--result [chars]

Explanation	SNMP took more than the warning threshold processing a var-binding.
Recommended Action	If feasible, use the debug snmp packet command to determine the contents of the SNMP request that is causing the message. Copy the error message exactly as it appears, and report it along with any debug output to your technical support representative. Some MIB objects require a relatively large amount of time to process. MIB objects in the multi-variable-binding are processed one by one. If possible, MIB objects appearing in this message should NOT be retrieved using multi-variable-binding SNMP PDUs.

%SNMP-3-SYNCFAIL : SNMP MIB Sync Failure: [chars]

Explanation	One of the SNMP MIB Sync to standby failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-3-DYNSYNCFAIL : Snmp Dynamic Sync Failed for [chars] = [chars]

Explanation	One of the SNMP MIB Dynamic Sync(sync of Snmp SET) to standby failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-4-NOFLASH : Reading snmpEngineBoots from flash failed

Explanation	An attempt to read the snmpEngineBoots file from flash failed. Most likely, this means that the flash card does not exist on the router. This message should appear only when the router is reloaded.
Recommended Action	Check if installing a flash card makes the message go away. If a flash card exists already, it may be full. Try erasing flash and reloading the router. If after these steps, the problem persists, copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-4-NOENGINEID : Remote snmpEngineID for [IP_address] not found when creating user: [chars]

Explanation	An attempt to create a user failed. This is likely because the engine ID of the remote agent (or SNMP manager) was not configured.
Recommended Action	Configure the remote snmpEngineID and reconfigure the user. If the problem persists, copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-4-NOENGINEIDV6 : Remote snmpEngineID for [IPV6 address] not found when creating user: [chars]

Explanation	An attempt to create a user failed. This is likely because the engine ID of the remote agent (or SNMP manager) was not configured.
Recommended Action	Configure the remote snmpEngineID and reconfigure the user. If the problem persists, copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP-5-COLDSTART : SNMP agent on host [chars] is undergoing a cold start

Explanation	The snmp server underwent a coldstart.
Recommended Action	Notification message only. No action required.

%SNMP-5-WARMSTART : SNMP agent on host [chars] is undergoing a warm start

Explanation	The snmp server underwent a warmstart.
Recommended Action	Notification message only. No action required.

%SNMP-3-AUTHFAIL : Authentication failure for SNMP req from host [IP_address]

Explanation	An SNMP request was sent to this host which was not properly authenticated.
Recommended Action	Make sure that the community/user name used in the SNMP req has been configured on the router.

%SNMP-5-LINK_DOWN : LinkDown:Interface [chars] changed state to down

Explanation	The state of the Interface is changed to down.
Recommended Action	

%SNMP-5-LINK_UP : LinkUp:Interface [chars] changed state to up

Explanation	The state of the Interface is changed to up.
Recommended Action	

%SNMP-6-VIEWNAMELENGTH : Invalid view name length; truncated.

Explanation SNMP agent generated view length greater than that allowed by definition so the view name was truncated to fit the defined maximum view name length.

Recommended Action Make sure your trap group and view names are setup appropriately. You can override with 'snmp-server group' command. Notify Cisco that this needs to be fixed.

%SNMP-3-AUTHFAILIPV6 : Authentication failure for SNMP request from host [IPV6 address]

Explanation An SNMP request was sent by this host which was not properly authenticated.

Recommended Action Make sure that the community/user name used in the SNMP req has been configured on the router.

%SNMP-5-MODULETRAP : Module [dec] [[chars]] Trap

Explanation This message shows the SNMP agent sends out the Module Up/Down Traps to the engine ID of the remote agent (or SNMP manager) because the corresponding module is up/down.

Recommended Action

%SNMP-5-CHASSISALARM : Chassis Alarm Trap: tmpAlarm([chars]), minorAlarm([chars]), and/or majorAlarm([chars])

Explanation This message shows the SNMP agent sends out the Chassis Alarm On/Off Traps to the engine ID of the remote agent (or SNMP manager) because the corresponding chassis alarm is on/off.

Recommended Action

%SNMP-3-BADIFINDEXTABLE : The file nvram:ifIndex-table is corrupt.

Explanation The file is not in the expected format.

Recommended Action If possible, please delete the file.

%SNMP-3-IFINDEXTABLEFILEINTWOFORMATS : ifIndex-table is present in two formats.

Explanation Both nvram:ifIndex-table and nvram:ifIndex-table.gz are present.

Recommended Action No action is necessary.

%SNMP-3-IFINDEXTABLE_DECOMPRESSFAILED : The file nvram:ifIndex-table.gz could not be decompressed.

Explanation There is either insufficient memory to compress it or the nvram space is insufficient or some other reason.

Recommended Action If possible, please delete the file.

%SNMP-3-TOOMANYIFINDICES : Some ifindices might not be persisted.

Explanation There are too many ifindices and the system is unable to persist all of them.

Recommended Action Most likely, this is a system limitation and there is no workaround.

%SNMP-3-FILEOPENFAILED : Could not open [chars].

Explanation The ifIndex-table is not accesible, and hence the facility for ifindex persistence may not be available.

Recommended Action Please debug using the debug ifs file command.

%SNMP-3-FILESTATFAILED : Could not get information for file [chars].

Explanation The ifIndex-table is not accesible, and hence the facility for ifindex persistence may not be available.

Recommended Action Please debug using the debug ifs file command.

%SNMP-3-INCORRECT_SIZE_FOR_NVRAM : Size should be > 0, but it is [dec].

Explanation There is some initialization problem in software.

Recommended Action Ideally, you should never see this message. If you do, please report it at the earliest convenience.

%SNMP-4-IFINDEXPERS_INTERNAL_ERROR : An internal error occurred in ifindex persistence code.

Explanation There is an unexpected internal error in ifindex persistence software.

Recommended Action

%SNMP-3-ISSU_ERR : [chars]

Explanation	Error happens when doing ISSU Versioning Operation
Recommended Action	Report this message to technical support

%SNMP-3-DUPLICATE_IFINDEX : [chars] has [dec] duplicate ifIndices.

Explanation	ifIndex-table file is corrupt. Ignoring duplicate entries.
Recommended Action	If ifIndex-table is not needed, please delete the file from nvram.

%SNMP-3-NON_POSITIVE_IFINDEX : [chars] has [dec] non-positive ifIndices.

Explanation	ifIndex-table file has some invalid entries that have non-positive ifIndex values. Ignoring invalid entries.
Recommended Action	If ifIndex-table is not needed, please delete the file from nvram.

%SNMP-3-INPUT_QFULL_ERR : Packet dropped due to input queue full

Explanation	Snm packet dropped due to input queue full error
Recommended Action	The condition is usually caused by a large delay collecting data for a specific OID, which will backup the SNMP queue with subsequent requests. You may see an accompanying SNMP-CPUHOG message that displays which OID is taking too long. If the SNMP-CPUHOG error consistently points to the same OID, then the user should search for a matching Cisco CDETS ID which improves performance of that OID. Blocking the OID with an snmp view is an optional workaround, but that will impact the ability for management software to get data from the device. In a small percentage of cases, the root cause is overall CPU utilization, which affects all processes, including SNMP. So, reducing CPU load (especially on the control plane CPU) is recommended. This is more likely the root cause if the SNMP-CPUHOG errors point to a variety of OIDs.

%SNMP-3-INTERRUPT_CALL_ERR : [chars] function, cannot be called from interrupt handler

Explanation	This message indicates that a call has been made to the function from an interrupt handler. This is not permitted because it will fail and device will reboot down the stack in malloc call.
Recommended Action	If this messages recurs, copy it exactly as it appears and report it to your technical support representative.

%SNMP-3-DVR_DUP_REGN_ERR : Attempt for dupe regn with SNMP IM by driver having ifIndex [dec] and ifDescr [chars]

Explanation	Driver is attempting to register an idb with the interface manager while there is already an interface with the same ifIndex and ifDescr BUT different idb registered. This would lead into the problem that interface counters shown by snmp would not work properly for this particular interface.
Recommended Action	Fix the duplicate registration in driver level.

%SNMP-3-DVR_DUP_REGN_WARNING : Attempt for dupe regn with SNMP IM by driver having ifIndex [dec] and ifDescr [chars]

Explanation	Driver is attempting to register the same idb with the interface manager while it's already registered. This is just a warning message and handled by snmp.
Recommended Action	Fix the duplicate registration in driver level.

%SNMP-3-MAX_TRAPS_EXCEED_ERR : Maximum number of traps exceeded the maximum allowed in the current sync-message to STANDBY

Explanation	This message indicates the number of SNMP traps defined exceeded the maximum we can accomodate in a checkpoint sync-message. You, the developer need to increase SNMP_SYNC_BITMASK_MAX to a higher value. Please check smci_rf_status_event() for further details.
Recommended Action	Developers will never see this error message.

%SNMP-5-MODULERESET : [chars] object has been set to 'reset' for [chars]=[dec] from IP address [chars].

Explanation	The SNMP server has reset a module.
Recommended Action	Notification message only. No action required.

%SNMP-3-RESPONSE_DELAYED : processing [chars] of [chars] ([dec] msec)

Explanation	SNMP OID that is not responding within the threshold time specified
Recommended Action	Get the OID causing the error and block using snmp views Contact mib owners to solve the issue further

SNMP_MGR**%SNMP_MGR-4-NOTENABLED : SNMP Manager not enabled (requested by [chars])**

Explanation An IOS application is attempting to make use of the SNMP manager's services. However the SNMP manager functionality has not been enabled.

Recommended Action If you wish to enable the SNMP manager services you may do so via the 'snmp-server manager' config command. Otherwise the IOS application that is requesting these services is given in the message. Disable or reconfigure this application such that it no longer tries to make SNMP manager requests.

%SNMP_MGR-3-NOPROC : Failed to create SNMP Manager process

Explanation The SNMP manager process was unable to initialize. This is most likely due to a lack of memory.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative. Use the show memory command to examine the amount of available memory. If free memory is low, you may need to reconfigure and/or reload the system.

%SNMP_MGR-3-RESPDROP : Insufficient memory to handle response to request id [int]

Explanation An SNMP response PDU was received but there was not enough memory available in order to cache the response and return it to the original requesting IOS application.

Recommended Action If this was only a transient problem, the original SNMP request will likely be resent, another SNMP response will be returned and delivered to the original requesting IOS application. If this message repeats, then you will need to free up some memory in order for the SNMP manager to function. Use show memory to verify whether available memory is low. You may need to reconfigure and/or reload the system in order to free up some memory. Otherwise you can disable the SNMP manager functionality via the no snmp-server manager command.

%SNMP_MGR-3-BADAGETIMER : Unexpected age timer found on session [hex]

Explanation An internal timer was found running when it should not have been.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative. Disable the SNMP manager via the no snmp-server manager command. Then re-enable it via the snmp-server manager command. This should effectively reset all of the internal structures.

%SNMP_MGR-3-BADUSECOUNT : Corrupted use counter found on session [hex]

Explanation A cached SNMP session structure appears to have been corrupted.

%SNMP_MGR-3-BADUSECOUNT : Corrupted use counter found on session [hex]

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative. Disable the SNMP manager via the no snmp-server manager command. Then re-enable it via the snmp-server manager command. This should effectively reset all of the internal structures.

%SNMP_MGR-3-BADPDUTYPE : Received unknown PDU type: [int]

Explanation The SNMP manager was delivered a PDU of an unknown type.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-3-BADTRANSPORT : Unknown transport type: [int]

Explanation The SNMP manager was delivered a PDU from an unknown transport type.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-3-SESSIONINUSE : Attempt to destroy session [hex] that is still in use

Explanation An attempt was made to remove a cached SNMP session structure, however it appears that the session is still in use, and therefore should not be removed.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-3-BADOP : Unknown operation code [int]

Explanation An SNMP PDU delivered to the SNMP manager contains an unknown operation code.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-3-MISSINGHOST : Cannot locate information on SNMP informs host: [IP_address]

Explanation A table entry for the mentioned SNMP informs destination cannot be found. As a result, inform notifications will not be sent to this destination.

Recommended Action Run the 'show snmp host' and 'show snmp' commands. Copy the error message and output from the show commands exactly as they appear, and report it to your technical support representative. Deleting and re-adding the informs destination via the 'snmp-server host' configuration command may clear the condition. Otherwise, reloading the system may be necessary.

%SNMP_MGR-3-MISSINGHOSTIPV6 : Cannot locate information on SNMP informs host: [IPv6 address]

Explanation	A table entry for the mentioned SNMP informs destination cannot be found. As a result, inform notifications will not be sent to this destination.
Recommended Action	Run the 'show snmp host' and 'show snmp' commands. Copy the error message and output from the show commands exactly as they appear, and report it to your technical support representative. Deleting and re-adding the informs destination via the 'snmp-server host' configuration command may clear the condition. Otherwise, reloading the system may be necessary.

%SNMP_MGR-3-BADINFORMTRANSPORT : Unknown inform transport type: [chars]

Explanation	This SNMP inform destination uses an unknown transport type. Inform notifications cannot be sent to this destination.
Recommended Action	Copy the error message and the output from 'show techsupport' exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-4-EMPTYQUEUE : Input queue is empty

Explanation	The SNMP Manager process was notified that it needs to process its input queue. But, when the queue was examined, it was found to be empty.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-4-BADRESPONSESTATUS : Unknown response status code: [int]

Explanation	The SNMP Manager process received an internal response with an unknown status code.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-4-BADAUTHTYPE : Unsupported SNMP authorization type: [int]

Explanation	An unknown SNMP authorization type was found. This may result in the inability of the SNMP manager functionality to correctly send and/or receive SNMP messages to/from a particular SNMP agent.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SNMP_MGR-4-NOCANCEL : Unable to cancel a previously sent inform request.

Explanation	The number of unacknowledged inform requests in-flight has reached the configured maximum limit. In order to make available resources for sending out a new inform request, one of these older inform requests must be cancelled. The algorithm used to choose the most appropriate inform to cancel has failed to choose any. The new inform that was to be sent will be dropped instead.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

SNMP_MIB_ISSU**%SNMP_MIB_ISSU-2-INIT : SNMP MIB ISSU client initialization failed to [chars]. Error: [dec] ([chars])**

Explanation	The SNMP MIB ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SNMP_MIB_ISSU-3-TRANSFORM_FAIL : SNMP MIB ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation	The SNMP MIB ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the SNMP MIB state between the active device and the standby device is not identical.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%SNMP_MIB_ISSU-3-MSG_NOT_OK : SNMP MIB ISSU client 'Message Type [dec]' is not compatible

Explanation	The SNMP MIB ISSU client received an incompatible message from the peer device. The message cannot be processed.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%SNMP_MIB_ISSU-3-MSG_SIZE : SNMP MIB ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation	The SNMP MIB ISSU client failed to calculate the MTU for the specified message. The SNMP MIB ISSU client is not able to send the message to the standby device.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%SNMP_MIB_ISSU-3-INVALID_SESSION : SNMP MIB ISSU client does not have a valid registered session.

Explanation	The SNMP MIB ISSU client does not have a valid registered session.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%SNMP_MIB_ISSU-2-SESSION_REGISTRY : SNMP MIB ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The SNMP MIB ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%SNMP_MIB_ISSU-3-SESSION_UNREGISTRY : SNMP MIB ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The SNMP MIB ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%SNMP_MIB_ISSU-2-SESSION_NEGO : SNMP MIB ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	An ISSU-compliant client transitions through a series of internal states. The SNMP MIB ISSU client encountered a 'client negotiation done' state that was unexpected. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%SNMP_MIB_ISSU-2-SEND_NEGO_FAILED : SNMP MIB ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation The SNMP MIB ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%SNMP_MIB_ISSU-2-GET_BUFFER : SNMP MIB ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation The SNMP MIB ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.

Recommended Action LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%SNMP_MIB_ISSU-3-CAP_NOT_COMPATIBLE : SNMP MIB ISSU client capability exchange result incompatible.

Explanation The SNMP MIB ISSU client capability exchange have negotiated as incompatible with the peer.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu negotiated capability <Session_ID>)

%SNMP_MIB_ISSU-3-CAP_INVALID_SIZE : SNMP MIB ISSU client capability list is empty.

Explanation The SNMP MIB ISSU client capability exchange list size is invalid.

Recommended Action LOG_STD_SH_CMD_ACTION(show issu capability entires <Client_ID>)

SONET

%SONET-4-ALARM : [chars]: [chars] [chars]

Explanation The specified SONET Alarm has been declared or released.

Recommended Action Recommended action is to repair the source of the alarm.

%SONET-4-APSM : [chars]: APS mode mismatch - [chars]

Explanation	There has been a unidirectional/bidirectional mismatch detected by the APS system
Recommended Action	It is recommended that the router configuration match the provisioned circuit.

%SONET-3-BADAUTH : [chars]: APS Bad authentication from [IP_address],

Explanation	APS software has detected unauthorized message.
Recommended Action	This message could result from improper configuration, unauthorized access, or packet corruption. LOG_STD_ACTION

%SONET-3-MISVER : [chars]: APS version mismatch.t WARNING: Loss of Working-Protect link can deselect both protect and working interfaces. [chars] router require software upgrade for full protection.

Explanation	APS software has detected that either the working or protect router requires software upgrade. APS operation can continue prior to the upgrade.
Recommended Action	Upgrade specified router.

%SONET-6-APSREFL : [chars]: Remote reflection of APS status now [chars]

Explanation	APS software has detected a change in the reflected local APS status
Recommended Action	None - normal situation.

%SONET-6-APSMANPRO : Manual APS switchover initiated for [chars]

Explanation	APS manual switchover is initiated
Recommended Action	None - normal situation.

%SONET-3-APSEVENT : [chars]: APS event type error: event [dec] undefined

Explanation	APS software has malfunctioned
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SONET-6-APSREMSWI : [chars]: Remote APS status now [chars]

Explanation	APS software has detected a change in the APS status of the remote interface
Recommended Action	None - normal situation.

%SONET-3-APSNCHN : APS Local request [dec] has no corresponding channel number

Explanation	APS software has malfunctioned.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SONET-3-APSN0INTFC : APS No interfaces available for IP connection

Explanation	APS requires an out-of-band path for inter-router communication.
Recommended Action	Configure an out-of-band path for inter-router APS communication

%SONET-3-NOBUFFER : No buffer available for sending APS message

Explanation	No data buffer was available for sending APS message.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SONET-3-NOSOCKET : Unable to open socket

Explanation	APS system unable to open a socket for communication purposes
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SONET-3-APSCOMM : [chars]: [chars]

Explanation	APS errors related to failure of working-protect communication
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SONET-3-APSCOMMEST : [chars]: Link to [chars] channel established - PGP protocol version [dec]

Explanation	APS has established connectivity between working and protect routers.
Recommended Action	None - information only.

%SONET-3-APSCOMMCHANGE : [chars]: Link to [chars] channel reverts to PGP protocol version [dec]

Explanation	APS has reverted to a different version of the PGP protocol between working and protect routers.
Recommended Action	None - information only.

%SONET-3-APSCOMMLOST : [chars]: Link to [chars] channel lost

Explanation	Connectivity between Working and Protect has been lost. APS operation can continue in degraded mode.
Recommended Action	Restore connectivity between working and protect routers.

%SONET-3-ALARMTIMERFAIL : [chars]

Explanation	Alarm timer monitor process creation failed
Recommended Action	Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

%SONET-3-APSSYNCSECONDARY : [dec]/[dec]: No hwidb

Explanation	New secondary RP unable to find device descriptor block corresponding to slot/unit specified by primary RP.
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%SONET-3-APSSYNCSECONDARY : [dec]/[dec]: No hwidb

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SONET-3-APSHOLDTIME : [chars]: [chars]

Explanation	Messages issued by HA APS when PGP holdtime is adjusted
Recommended Action	None - information only.

%SONET-3-DELAYTIMER : [chars]

Explanation	Delay timer creation failure
Recommended Action	Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

%SONET-3-BADTCA : TCA signal [dec] is invalid

Explanation	TCA software has malfunctioned.
Recommended Action	Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

%SONET-3-BADTCATH : TCA threshold [int] is not supported

Explanation	The specific TCA threshold is not supported
Recommended Action	Report this occurrence to Engineering. Use Topic to search for a similar DDTS. If you find none, write a DDTS for this problem.

SONETIFMIB**%SONETIFMIB-3-OUTOFBOUND : Out of bound values path=[dec]/tug2=[dec]/e1=[dec]**

Explanation	Invalid values used while determining the ifAlias
Recommended Action	No action is required.

%SONETIFMIB-3-NULLPTR : NULL pointer at step = [dec]

Explanation	Attempted to initialize ifAlias for VT using a NULL pointer.
Recommended Action	No action is required.

SONETMIB

%SONETMIB-1-LOSTUPDATE : Lost raw stats update for if_index=[dec]

Explanation**Recommended Action**

%SONETMIB-1-MALLOCNEW : Malloc failed for new interface=[dec]

Explanation	Unable to allocate enough memory to create SONET MIB structure for new interface.
Recommended Action	No action is required.

%SONETMIB-1-DELETE : could not delete interface, if_index=[dec]

Explanation	The specified interface was not successfully dequeued.
Recommended Action	No action is required.

%SONETMIB-3-NULLCFGPTR : NULL SONET MIB config pointer, if_index=[dec]

Explanation	Attempted to initialize the SONET MIB using a NULL pointer.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

SPAN

%SPAN-3-UNKN_ERR : An internal error occurred during a SPAN operation.

Explanation	SPAN detected an error in its internal operation.
Recommended Action	The error might be transient, in which case trying the SPAN operation again might be successful. If this fails, the switch might need to be reloaded for the desired operation to complete.

%SPAN-3-UNKN_ERR_PORT : An internal error occurred when configuring SPAN on port [chars]

Explanation	SPAN detected an error in its internal operation.
Recommended Action	The error might be transient, in which case trying the SPAN operation again might be successful. If this fails, the switch might need to be reloaded for the desired operation to complete.

%SPAN-3-MEM_UNAVAIL : Memory was not available to perform the SPAN operation

Explanation	Unable to perform a SPAN operation because of a lack of memory
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%SPAN-3-SESS_HW_UNAVAIL : SPAN hardware resource not available [chars]

Explanation	The system could not allocate a SPAN hardware resource for the feature specified in the error message. A possible cause of this condition is that all available SPAN source sessions are already in use. The system can be configured with a maximum of two SPAN source sessions or one RSPAN source session
Recommended Action	Remove one of the existing SPAN or RSPAN source sessions and retry the operation.

%SPAN-5-ERSPAN_ADJ_TUNNEL : ERSPAN Destination behind a tunnel. Shutting down session [dec]

Explanation	The next hop to the IP Address specified as the ERSPAN destination lies behind a tunnel. This configuration is not supported. ERSPAN session is shut down when such configuration is detected
Recommended Action	Specify another IP address as the ERSPAN destination which does not have tunnel as the next-hop adjacency.

%SPAN-6-SPAN_EGRESS_REPLICATION_MODE_CHANGE : Span Egress HW Replication Mode Change Detected. Current replication mode for session [chars] is [chars]

Explanation	When auto detection of egress span replication mode is enabled, the system will transition any available sessions to centralized mode when an distributed egress span incapable linecard is inserted. The system will transition back the available sessions to distributed egress span mode when the last distributed egress span incapable linecard is removed
Recommended Action	To prevent a session switching back to distributed egress span mode, use the command monitor session egress replication-mode centralized

%SPAN-3-REDIR_HW_UNAVAIL : Redirect hardware resource not available [chars]

Explanation	The system could not allocate resource for redirecting BPDUs. A possible cause of this condition is that all available redirect registers in PFC are used by other features.
Recommended Action	Free up a redirect register in PFC by unconfiguring features that use redirect registers and retry allowing BPDUs for SPAN servicemodules. If Protocol Tunneling is configured on any ports, then remove Protocol Tunneling configuration from all ports to free up one redirect register.

%SPAN-5-PKTCAP_START : Packet capture session [dec] started

Explanation	Packet capture is activated by user or after the scheduled time
Recommended Action	Stop the capture when it is not required. You can change the rate of packets reaching CPU for capturing by configuring the rate-limit value in the monitor session type capture config mode. Protocol packets may get dropped if the capture traffic rate is high.

%SPAN-5-PKTCAP_STOP : Packet capture session [dec] ended [chars], [dec] packets captured

Explanation	Packet capture is stopped. This will happen if the capture buffer is full or if user stops the capture or if capture timeout happens.
Recommended Action	Packet capture is stopped. You can export the capture buffer using the 'monitor capture <id> export buffer <url>' command. Buffer can be displayed on the console also. Delete the capture session, if it is no longer required.

SPANTREE

%SPANTREE-3-PORT_SELF_LOOPED : [chars] disabled.- received BPDU src mac ([enet]) same as that of interface

Explanation	The source MAC address contained in a BPDU received on the listed interface matches the MAC address assigned to that interface. This indicates the possibility that a port is looped back to itself, possibly due to a diagnostic cable being plugged in. The interface will be administratively shutdown.
Recommended Action	Check the interface configuration and any cable plugged into the interface. Once problem resolved, re-enable interface by doing a no shutdown in the interface configuration.

%SPANTREE-3-BAD_PORTNUM_SIZE : Rejected an attempt to set the port number field size to [dec] bits (valid range is [dec] to [dec] bits).

Explanation The spanning tree port identifier is a 16 bit wide field that is, by default, divided evenly between port priority and port number, each sub field being 8 bits wide. This allows the port number field to represent port numbers between 1 and 255. However, on systems with greater than 255 ports, the size of port number portion of the port id must be increased to support the greater number of ports. This is done by the STP subsystem at system init time since the maximum number of ports on a particular platform will not change. This error would only occur due to an error in the platform specific code which caused it to request more (or less) bits than were possible. This error should not be seen in any production images.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show version** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPANTREE-7-RECV_1Q_NON_TRUNK : Received 802.1Q BPDU on non trunk [chars] [chars].

Explanation A SSTP BPDU was received on the listed interface that was not operationally a trunk.

Recommended Action Verify that the configuration and operational state of the listed interface and that of the interface to which it is connected have the same mode (access vs trunk). If mode is trunk, verify the same encapsulation (none, ISL, 802.1Q). Once these parameters are consistent, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-2-RECV_1Q_NON_1QTRUNK : Received 802.1Q BPDU on non 802.1Q trunk [chars] [chars].

Explanation The listed interface on which a SSTP BPDU was received, was in trunk mode but not using 802.1Q encapsulation.

Recommended Action Verify that the configuration and operational state of the listed interface and that of the interface to which it is connected have the same mode (access vs trunk). If mode is trunk, verify the same encapsulation (ISL, 802.1Q). Once these parameters are consistent, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-2-RECV_PVID_ERR : Received BPDU with inconsistent peer vlan id [dec] on [chars] [chars].

Explanation The listed interface received a SSTP BPDU that is tagged with a VLAN id that does not match the VLAN id on which the BPDU was received. This occurs when the native VLAN is not consistently configured on both ends of a 802.1Q trunk.

Recommended Action Verify that the configuration of the native VLAN id is consistent on the interfaces on each end of the 802.1Q trunk connection. Once corrected, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-2-RECV_BAD_TLV : Received SSTP BPDU with bad TLV on [chars] [chars].

Explanation	The list interface received a SSTP BPDU that was missing the VLAN id tag. The BPDU is discarded.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPANTREE-7-BLOCK_PORT_TYPE : Blocking [chars] on [chars]. Inconsistent port type.

Explanation	The listed interface is being held in spanning tree blocking state until the port type inconsistency is resolved.
Recommended Action	Verify that the configuration and operational state of the listed interface and that of the interface to which it is connected have the same mode (access vs trunk). If mode is trunk, verify the same encapsulation (ISL, 802.1Q). Once these parameters are consistent, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-4-PORT_NOT_FORWARDING : [chars] [chars] [chars] [chars]

Explanation	The port is not forwarding packets, i.e it is not in a forwarding state
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPANTREE-2-BLOCK_PVID_PEER : Blocking [chars] on [chars]. Inconsistent peer vlan.

Explanation	The spanning tree port associate with the listed spanning tree instance and interface will be held in spanning tree blocking state until the port VLAN Id (PVID) inconsistency is resolved. The listed spanning tree instance is that of the native VLAN id of interface on the peer switch to which the listed interface is connected.
Recommended Action	Verify that the configuration of the native VLAN id is consistent on the interfaces on each end of the 802.1Q trunk connection. Once corrected, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-2-BLOCK_PVID_LOCAL : Blocking [chars] on [chars]. Inconsistent local vlan.

Explanation	The spanning tree port associate with the listed spanning tree instance and interface will be held in spanning tree blocking state until the Port VLAN ID (PVID) inconsistency is resolved. The listed spanning tree instance is that of the native VLAN id of the listed interface.
Recommended Action	Verify that the configuration of the native VLAN id is consistent on the interfaces on each end of the 802.1Q trunk connection. Once corrected, spanning tree will automatically unblock the interfaces as appropriate.

%SPANTREE-2-UNBLOCK_CONSIST_PORT : Unblocking [chars] on [chars]. Port consistency restored.

Explanation	The Port VLAN ID and/or Port Type inconsistencies have been resolved and spanning tree will now unblock the listed interface of the listed spanning tree instance as appropriate.
Recommended Action	No action is required.

%SPANTREE-2-BLOCK_BPDUGUARD : Received BPDU on port [chars] with BPDU Guard enabled. Disabling port.

Explanation	A BPDU was received in the interface specified in the error message that has the spanning tree BPDU Guard feature enabled. As a result, the interface was administratively shut down.
Recommended Action	Either remove the device sending BPDUs or disable the BPDU Guard feature. The BPDU Guard feature can be locally configured on the interface or globally configured on all ports that have portfast enabled. After the conflict has been resolved, reenable the interface by entering the no shutdown command in interface configuration mode.

%SPANTREE-2-BLOCK_BPDUGUARD_VP : Received BPDU on port [chars], vlan [dec] with BPDU Guard enabled. Disabling vlan.

Explanation	A BPDU was received on the interface and vlan specified in the error message. The spanning tree BPDU Guard feature was enabled and configured to shutdown the vlan. As a result, the vlan was placed in the error-disabled state.
Recommended Action	Either remove the device sending BPDUs or disable the BPDU Guard feature. The BPDU Guard feature can be locally configured on the interface or globally configured on all ports that have portfast enabled. After the conflict has been resolved, reenable the interface/vlan by entering the clear errdisable command.

%SPANTREE-2-ROOTGUARD_CONFIG_CHANGE : Root guard [chars] on port [chars].

Explanation	The spanning tree root guard configuration for the listed interface has been changed. If enabled, any BPDU received on this interface which advertizes a superior spanning tree root bridge to that already in use will cause the interface to be put into blocking state and marked as root guard inconsistent.
Recommended Action	Verify that this is the desired configuration for the listed interface. Correct it if this is not the desired configuration otherwise no further action is required.

%SPANTREE-2-ROOTGUARD_BLOCK : Root guard blocking port [chars] on [chars].

Explanation	A BPDU was received on the listed interface which advertizes a superior spanning tree root bridge to that currently in use. The interface is put into blocking state and marked as root guard inconsistent in order to prevent a suboptimal spanning tree topology to form.
Recommended Action	Issue the show spanning-tree inconsistentports command to review the list of interfaces with root guard inconsistencies. Determine why devices connected to the listed ports are sending BPDUs with a superior root bridge and take action to prevent further occurrences. Once the bogus BPDUs have been stopped, the interfaces will automatically recover and resume normal operation. Make sure that it is appropriate to have root guard enabled on the interface.

%SPANTREE-2-ROOTGUARD_UNBLOCK : Root guard unblocking port [chars] on [chars].

Explanation	The listed interface is no longer receiving BPDUs advertizing a superior root bridge. The root guard inconsistency is cleared for the interface and then it is taken out of the blocking state if appropriate.
Recommended Action	No action is required.

%SPANTREE-2-LOOPGUARD_CONFIG_CHANGE : Loop guard [chars] on port [chars].

Explanation	The spanning tree loopguard configuration for the listed interface has been changed. If enabled, the interface will be put into blocking state and marked as loopguard inconsistent when the message age timer expires because no BPDU were received from the designated bridge. This feature is mainly used to detect unidirectional links
Recommended Action	Verify that this is the desired configuration for the listed interface. Correct it if this is not the desired configuration otherwise no further action is required.

%SPANTREE-2-LOOPGUARD_BLOCK : Loop guard blocking port [chars] on [chars].

Explanation	The spanning tree message age timer has expired because and no BPDUs were received from the designated bridge. Since this condition could be caused by an unidirectional link failure, the interface is put into blocking state and marked as loop guard inconsistent in order to prevent possible loops from being created
Recommended Action	Issue the show spanning-tree inconsistentports command to review the list of interfaces with loop guard inconsistencies. Determine why devices connected to the listed ports are not sending BPDUs. One reason could be that they do not run the spanning tree protocol; in this case you should disable loopguard in the inconsistent interface/s or start the spanning tree protocol on the other side of the link/s. depending on the context. Another reason could be a failure in the cable: if the link has a failure that makes it unidirectional (you can transmit but you can not receive) it should be replaced with a proper cable.

%SPANTREE-2-LOOPGUARD_UNBLOCK : Loop guard unblocking port [chars] on [chars].

Explanation	The listed interface has received a BPDU and therefore if the inconsistency was due to an unidirectional link failure, now the problem is not there anymore. The loop guard inconsistency is cleared for the interface which is taken out of the blocking state if appropriate.
Recommended Action	No action is required.

%SPANTREE-2-CHNL_MISCFG : Detected loop due to etherchannel misconfiguration of [chars] [chars]

Explanation	A loop caused the misconfiguration of a channel group has been detected. An example of such a misconfiguration would be where the ports on one side of the etherchannel either aren't configured to be in the channel or failed to bundle for some reason while the other side has successfully bundled the ports into the etherchannel
Recommended Action	Determine which local ports are involved using the command show interfaces status err-disabled and then check etherchannel configuration on the remote device using the command show etherchannel summary on the remote device. Once the configuration is corrected, do shutdown / no shutdown on the associated port-channel interface.

%SPANTREE-3-ERR_NO_UNIDIR_EDGE : [chars]: Portfast disabled, reverting to bidirectional mode

Explanation	Because UCP is for edge ports only, portfast must be configured. This message is typically seen when spanning-tree portfast is enabled on a port, then authentication control-direction is set to inbound (unidirectional), and then portfast is disabled.
Recommended Action	Re-enable portfast on the edge port. This will re-enable unidirectional authentication control.

%SPANTREE-5-EXTENDED_SYSID : Extended SysId [chars] for type [chars]

Explanation The extended system id feature has either enabled or disabled for the given type of spanning tree. If enabled, the spanning tree instance identifier is stored in the lower portion of the bridge id priority field and this will cause the allowed values for the bridge priority to be limited to the range of 0 to 61440 in increments of 4096. If disabled, the bridge id priority field consists entirely of the configured priority but some spanning tree features may not be available on a given platform (i.e. 4096 vlan support). On some platforms, this feature may be mandatory.

Recommended Action No action is required.

%SPANTREE-2-PVSTSIM_FAIL : Blocking [chars] port [chars]: Inconsistent [chars] PVST BPDU received on VLAN [dec], claiming root [dec]:[enet]

Explanation When a MST switch is connected to a PVST+ switch, the CIST (MST00) information on the port of the MST switch must be consistently better than all the PVST+ messages if the port is designated or consistently worse than all the PVST+ messages if the port is root. If this constraint is not respected, the port on the MST switch is blocked in order to prevent a potential bridging loop

Recommended Action When STP is converging after a new switch, or switch port is added to the topology, this condition may happen transiently. The port unblocks automatically in such cases. If the port remains blocked, identify the root bridge as reported in the message, and configure a worse or better priority for the VLAN spanning tree consistent with the CIST role on the port of the MST switch. There could be more inconsistencies than the message indicates, and the port will not recover until all such inconsistencies are cleared. If you cannot determine which other VLANs have inconsistencies, disable and reenable the port. This message will appear again and specify another VLAN with inconsistencies to be fixed. Repeat this process until all inconsistencies on all VLANs are cleared.

%SPANTREE-2-PVSTSIM_OK : PVST Simulation inconsistency cleared on port [chars].

Explanation The listed interface is no longer receiving PVST BPDUs advertising an information inconsistent with the CIST port information. The PVST Simulation Inconsistency is cleared and the interface returns to normal operation

Recommended Action No action is required.

%SPANTREE-6-PORT_STATE : Port [chars] instance [dec] moving from [chars] to [chars]

Explanation The Spanning-Tree port has changed state.

Recommended Action No action is required.

%SPANTREE-7-PORTDEL_SUCCESS : [chars] deleted from Vlan [dec]

Explanation The interface has been deleted from Vlan**Recommended Action** No action is required.

%SPANTREE-6-PORTDEL_ALL_VLANS : [chars] deleted from all Vlans

Explanation The interface has been deleted from all Vlans**Recommended Action** No action is required.

%SPANTREE-6-PORTADD_ALL_VLANS : [chars] added to all Vlans

Explanation The interface has been added to all Vlans**Recommended Action** No action is required.

%SPANTREE-5-TOPOTRAP : Topology Change Trap for [chars] [dec]

Explanation A trap has been generated to indicate the change in topology**Recommended Action** No action is required.

%SPANTREE-5-ROOTCHANGE : Root Changed for [chars] [dec]: New Root Port is [chars]. New Root Mac Address is [enet]

Explanation The Root has changed for an instance of spanning tree**Recommended Action** No action is required.

%SPANTREE-3-PRESTD_NEIGH : pre-standard MST interaction not configured ([chars]). Please, configure: 'spanning-tree mst pre-standard' on ports connected to MST pre-standard switches.

Explanation The switch has received a pre-standard MST BPDU on a port that is not configured for pre-standard MST BPDU transmission. The switch will automatically adjust its mode of operation on this port and will start sending pre-standard BPDUs. However, this auto-detection of pre-standard neighbors is not 100% accurate and it is recommended to configure explicitly the port for pre-standard MST BPDU transmission. This warning message will only be display once.

%SPANTREE-3-PRESTD_NEIGH : pre-standard MST interaction not configured ([chars]). Please, configure: 'spanning-tree mst pre-standard' on ports connected to MST pre-standard switches.

Recommended Action Configure 'spanning-tree mst pre-standard' on all the ports that are connected to switches running Cisco's pre-standard version of MST. It is recommended to migrate all the switches in the network to the IEEE standard MST version when it is possible.

%SPANTREE-2-BRIDGE_ASSURANCE_BLOCK : Bridge Assurance blocking port [chars][chars].

Explanation BPDUs were not received from a neighboring switch on the interface that has spanning tree Bridge Assurance configured. As a result, the interface was moved to the spanning tree Blocking state

Recommended Action Either disable Bridge Assurance configuration on the interface or make sure that the interface is connected to a L2 switch/bridge device

%SPANTREE-2-BRIDGE_ASSURANCE_UNBLOCK : Bridge Assurance unblocking port [chars][chars].

Explanation The interface listed in the message has been restored to normal spanning tree state after receiving BPDUs from the neighboring L2 switch/bridge

Recommended Action No action is required.

%SPANTREE-2-PVST_PEER_BLOCK : PVST+ peer detected on port [chars]

Explanation PVST+ BPDU(s) are detected on the listed interface when MSTP PVST+ Simulation feature is disabled

Recommended Action Please make sure the PVST+ switch is removed from the network or enable the MSTP PVST Simulation feature.

%SPANTREE-2-PVST_PEER_UNBLOCK : Unblocking port [chars]

Explanation The listed interface is no longer receiving the PVST+ BPDUs. The inconsistency is cleared and the interface returns to normal operation.

Recommended Action No action is required.

%SPANTREE-2-NOMEM : Memory Allocation Failure - [chars]: [chars]

Explanation The system could not allocate the memory that is required for the STP feature. This condition might indicate that more memory must be installed on the system.

%SPANTREE-2-NOMEM : Memory Allocation Failure - [chars]: [chars]

Recommended Action	Check available memory and install more if necessary. If sufficient memory is available, reload the Cisco IOS image on the affected platform. If the error persists, LOG_STD_SH_CMD_ACTION(show tech-support and show logging)
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SPANTREE_VLAN_SHIM

%SPANTREE_VLAN_SHIM-2-MAX_INSTANCE : Platform limit of [dec] STP instances exceeded. No instance created for [chars] (port [chars]).

Explanation	The number of currently active VLAN spanning tree instances has reached a platform specific limit. No additional VLAN instances will be created until the number of existing instances drops below the platform limit. The message shows the smallest VLAN number of those VLANs that are unable have STP instances created.
Recommended Action	Reduce the number of currently active spanning tree instances by either disabling some of the currently active spanning tree instances or deleting the VLANs associated with currently active spanning tree instances. Note : need to manually enable the spanning-trees that were unable to be created due to limited instances.

%SPANTREE_VLAN_SHIM-3-ADD_REGISTRY_FAILED : Subsystem [chars] fails to add callback function [chars]

Explanation	Other subsystem must have mistakenly add its own callback functions. This syslog is for debugging purpose.
Recommended Action	No action is required.

SPANTREE_VLAN_SW through SPA_NGIO_ETHER_INTERNAL

- [SPANTREE_VLAN_SW](#)
- [SPA_CHOXC](#)
- [SPA_CHOXC_MCPRP](#)
- [SPA_CHOXC_DSX](#)
- [SPA_CT3](#)
- [SPA_DSPRM](#)
- [SPA_ETHER_INTERNAL_IF](#)
- [SPA_FPD](#)
- [SPA_LNM](#)

- [SPA_NGIO_ETHER_INTERNAL](#)

SPANTREE_VLAN_SW

%SPANTREE_VLAN_SW-2-MAX_INSTANCE : Platform limit of [dec] STP instances exceeded. No instance created for [chars] (port [chars]).

Explanation The number of currently active VLAN spanning tree instances has reached a platform specific limit. No additional VLAN instances will be created until the number of existing instances drops below the platform limit. The message shows the smallest VLAN number of those VLANs that are unable have STP instances created.

Recommended Action Reduce the number of currently active spanning tree instances by either disabling some of the currently active spanning tree instances or deleting the VLANs associated with currently active spanning tree instances. Note : need to manually enable the spanning-trees that were unable to be created due to limited instances.

SPA_CHOXC

%SPA_CHOXC-3-ERROR : Failed to create for [chars] : slot/bay:[dec]/[dec]

Explanation The channelized SPA controller encountered an error.

Recommended Action Check the memory available in system and LOG_STD_SH_TECH_ACTION

%SPA_CHOXC-3-FATAL_ERROR : Fatal error for [chars] : slot/bay:[dec]/[dec]

Explanation The channelized SPA controller encountered a fatal error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOXC-3-INVALID_SPA_TYPE : Invalid SPA type : slot/bay:[dec]/[dec], spa_type=[dec].

Explanation The channelized SPA type cannot be recognized by the version of Cisco IOS software currently running on the system.

Recommended Action Upgrade your system to a version of Cisco IOS software that supports this SPA type.

%SPA_CHOXC-3-CREATE_FAIL : Failed to create [chars] : slot/bay:[dec]/[dec]

Explanation	The channelized SPA controller descriptor block creation failed. Check the amount of available system memory.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOXC-3-NULL_INSTANCE : Null [chars] instance for [chars] : slot/bay:[dec]/[dec]

Explanation	The instance pointer is NULL when getting data structure.
Recommended Action	SPA_CHOXC_INTERNAL_SW_ERROR_ACTION

%SPA_CHOXC-3-UNKNOWN_OPTION : Received unknown [chars]: option=[dec]

Explanation	Unknown option received.
Recommended Action	SPA_CHOXC_INTERNAL_SW_ERROR_ACTION

%SPA_CHOXC-3-RETURN_ERROR : Return error for [chars]: return_value=[dec]

Explanation	Return error code received.
Recommended Action	SPA_CHOXC_INTERNAL_SW_ERROR_ACTION

%SPA_CHOXC-6-XFP_OK : [dec]/[dec]/[dec]: [chars] detected/inserted

Explanation	XFP has been detected or inserted in a port in Channelized SPA.
Recommended Action	This is a information message, no action required

%SPA_CHOXC-3-XFP_UNSUPPORTED : [dec]/[dec]/[dec]: [chars] detected/inserted is not supported

Explanation	Unsupported XFP has been detected or inserted in a port in Channelized SPA.
Recommended Action	Remove the unsupported XFP/SFP and replace it with supported one.

%SPA_CHOXC-6-XFP_REMOVED : [dec]/[dec]/[dec]

Explanation XFP removed from a port in Channelized SPA

Recommended Action This is a information message, no action required

%SPA_CHOXC-3-NULL : [chars]

Explanation The NULL pointer was detected when getting the data structure.

Recommended Action SPA_CHOXC_ENABLE_DEBUG_ACTION

%SPA_CHOXC-6-SONET_ALARM : [chars] [chars] [chars] [chars] [chars]

Explanation This message is generated whenever (a) sonet alarm is present in the system (and the alarm status has been reported to the RP) or (b) sonet alarm has been removed from the system (and the alarm status has been reported to the RP)

Recommended Action No action is required.

%SPA_CHOXC-3-INTFC_FAILED : Channel provisioning failed for [chars]

Explanation Channel could not be provisioned on SPA for this interface, interface corresponding to that channel has been moved to down state. If this interface was provisioned using the user interface then it may not appear in the interface list.

Recommended Action SPA_CHOXC_INTERNAL_SW_ERROR_ACTION

%SPA_CHOXC-3-CORRUPT : Corrupt configuration, unsupported [chars] ([int]) encountered

Explanation The OC3/STM1 RP driver running configuration is corrupted.

Recommended Action SPA_CHOXC_INTERNAL_SW_ERROR_ACTION

%SPA_CHOXC-3-NULL_SUBBLOCK : Null ssb for [chars]

Explanation The hwidb subblock is NULL.

Recommended Action SPA_CHOXC_INTERNAL_SW_ERROR_ACTION

%SPA_CHOXC-5-DEF_SUBRATE : [chars] [chars]

Explanation	Remote subrate configuration changed.
Recommended Action	Inform the network operator that subrate configuration was changed by remote end.

%SPA_CHOXC-3-FRR_ERROR : Error in handling FRR: [chars], [chars], [hex], [hex]

Explanation	Error in FRR processing.
Recommended Action	This is a internal software error. If this error happened while configuring FRR, try reconfiguring the interface. If the error persists or occurred during normal operation, decode the traceback and LOG_STD_ACTION

%SPA_CHOXC-3-CHOXC_NAMESTRING_ERROR : failed to get [chars] namestring

Explanation	Error in retrieving namestring of a specified Controller/IDB
Recommended Action	This is a internal software error. If the error persists or occurred during normal operation, decode the traceback and LOG_STD_ACTION

%SPA_CHOXC-3-SONET_ALARM_PROC_ERR : [chars] Error has occurred while processing in the sonet alarm-proc

Explanation	Either free/create of the memory failed in SONET alarm proc
Recommended Action	

SPA_CHOXC_MCPRP

%SPA_CHOXC_MCPRP-5-PATH_UPDOWN : Path [chars], changed state to [chars]

Explanation	A Sonet high order path changed its state.
Recommended Action	This is a internal software error. Decode the traceback and get the output of show controller sonet . Look into this output to see if there are any alarms being reported at the path level. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of show tech details

%SPA_CHOXC_MCPRP-5-T3_UPDOWN : T3 [chars], changed state to [chars]

Explanation	A T3 within STS1 changed its state.
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%SPA_CHOXC_MCPRP-5-T3_UPDOWN : T3 [chars], changed state to [chars]

Recommended Action This is an internal software error. Decode the traceback and get the output of **show controller sonet**. Look into this output to see if there are any alarms being reported at the T3 level. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show tech details**

%SPA_CHOXC_MCPRP-3-CORRUPT : Corrupt configuration, unsupported [chars] ([int]) encountered

Explanation The OC3/STM1 RP driver running configuration is corrupt

Recommended Action This is an internal software error. Decode the traceback and get the output of **show running-config**. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show tech details**

%SPA_CHOXC_MCPRP-1-ALLOCFAIL : OC3/STM1 [dec]/[dec] [chars] allocation failure

Explanation CHOXC controller or channel memory allocation failure

Recommended Action This is an internal software error. Decode the traceback. Enable **debug hw-module subslot <slot>/<bay> oir plugin** when the problem is happening. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with output of **show logging** and the output of **show tech details**.

%SPA_CHOXC_MCPRP-3-TIMEOUT : Interface ([chars]): [chars]

Explanation The CHOXC RP driver queries the LC for SONET information, the LC didn't reply.

Recommended Action This is an internal software error. Decode the traceback. Enable **debug hw-module subslot <slot>/<bay> command**. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show logging** and the output of **show tech details**.

%SPA_CHOXC_MCPRP-3-PLUGIN_ERR : [chars]

Explanation The RP plugin encountered an error during one of the Plugin calls

Recommended Action This is an internal software error. Decode the traceback. Enable **debug hw-module subslot <slot>/<bay> oir plugin** when the problem is happening. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show logging** and the output of **show tech details**.

%SPA_CHOXC_MCPRP-3-NULL_SUBBLOCK : Null ssb for [chars]

Explanation The hwidb subblock is NULL**Recommended Action** This is a internal software error. Decode the traceback and get the output of **show running-config**. Check Bug Toolkit before calling the TAC. When calling the TAC, please provide the above information along with the output of **show running** and **show tech** details.

%SPA_CHOXC_MCPRP-3-APS_CMD_FAIL : Failed to send APS command [hex] to [chars] (retcode [hex])

Explanation APS command sending failed**Recommended Action** This is a internal software error. If this error happened while configuring APS, try reconfiguring the interface. If the error persists or occurred during normal operation, decode the traceback and LOG_STD_ACTION

%SPA_CHOXC_MCPRP-5-DEF_SUBRATE : [chars] [chars]

Explanation Remote subrate configuration changed**Recommended Action** Inform the network operator that subrate configuration changed by remote end

%SPA_CHOXC_MCPRP-3-FRR_ERROR : Error in handling FRR: [chars], [chars], [hex], [hex]

Explanation Error in FRR processing**Recommended Action** This is a internal software error. If this error happened while configuring FRR, try reconfiguring the interface. If the error persists or occurred during normal operation, decode the traceback and LOG_STD_ACTION

SPA_CHOC_DSX

%SPA_CHOC_DSX-4-UNPROV_FAIL : Interface [chars] unprovisioning failed: [chars]

Explanation The system failed to respond to an unprovisioning command. A hidden VLAN could not be deleted within a 2 second timeout window. This condition may be caused by a system that is too busy, or by a FIB IPC failure. The line card driver code will attempt to delete the hidden VLAN.**Recommended Action** If processing continues normally, no action is required. If system operation is adversely affected, LOG_STD_ACTION

%SPA_CHOC_DSX-3-NODESTROYSUBBLOCK : The [chars] subblock named [chars] was not removed

Explanation IDB sub-blocks could not be removed during the unprovisioning of a channel. This condition indicates a software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-AUTODNR : [chars] failed for slot [dec] bay [dec]

Explanation AUTODNR/USNDNR process has failed. The SPA and SIP are out of synchronization. This condition indicates a software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-UNKNOWN_CMD : Unknown [chars] command recieved on slot/bay:[dec]/[dec]. Command Type = [dec]

Explanation An unknown command was recieved by the SPA card carrier

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-INVLIAD_IF_INDEX : Invalid interface index [dec] on slot/bay:[dec]/[dec]. Min. Index = [dec]. MAx. Index = [dec].

Explanation The index is not valid for the interface specified in the error message.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-NUL DATA_STRUCTURE : Failed to create [chars] on slot/bay:[dec]/[dec]. Port Number = [dec].

Explanation The software resource can not be allocated for this hardware

%SPA_CHOC_DSX-3-NULL_DATA_STRUCTURE : Failed to create [chars] on slot/bay:[dec]/[dec]. Port Number = [dec].

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-INVALID_IF_TYPE : Invalid SPA type [dec] on [chars]. Port Number = [dec].

Explanation The software can not recognize the interface type

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-NULL_SPA_PTR :

Explanation The pointer to an SPA value is of a null value.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-NULL_VIRT_SPA_PTR : [chars]

Explanation Pointer to virtual SPA object is NULL in card prot grp.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-SPA_CMD_SEND_ERR : Failed to send [chars] command to SPA

Explanation The host failed to send a command to SPA

%SPA_CHOC_DSX-3-SPA_CMD_SEND_ERR : Failed to send [chars] command to SPA

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-SPA_CMD_RETURN_ERR : SPA command [chars] return error [int]

Explanation The SPA returned an error status for a host command

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-EFC_ERROR : EFC ERROR: [chars] - [chars] [int]

Explanation The SPA Extended Flow Control encountered an error

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-T3CFG_ERROR : Interface [chars] T3 [int] config command error (cmd [int], arg [int], retval [int])

Explanation A command sent from the system to a linecard has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-T1CFG_ERROR : Interface [chars] T3 [int] T1 [int] config command error (cmd [int], arg [int], retval [int])

Explanation A command sent from the system to a linecard has failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-3-VCCFG_ERROR : Interface [chars] config command error (cmd [int], arg [int], retval [int])

Explanation A command sent from the system to a linecard has failed.

Recommended Action This is an internal software error. Decode the traceback and get the output of the **show logging** command on RP and SIP and check if there are any errors being reported. Try to recreate the problem to see if there is a consistent method to recreate. Check the Bug Toolkit before contacting TAC. When contacting TAC, provide the above information along with the output of the **show tech-support** command.

%SPA_CHOC_DSX-3-LINK_TABLE_ERR : [chars]: Could not create link table, error [dec]

Explanation Error creating link record table. Interfaces may not come up / pass traffic.

Recommended Action If the ports on the SPA are not operating as expected, power down and reseal the indicated SPA card. If the error messages persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-UNCOR_MEM_ERR : SPA [dec]/[dec]: [dec] uncorrectable [chars] memory error(s) encountered. The memory address of most the recent error is: [hex] The SPA is being restarted.

Explanation The SPA driver detected an uncorrectable memory error condition on the SPA card. Packet corruption may result.

%SPA_CHOC_DSX-3-UNCOR_MEM_ERR : SPA [dec]/[dec]: [dec] uncorrectable [chars] memory error(s) encountered. The memory address of most the recent error is: [hex] The SPA is being restarted.

Recommended Action The SPA driver has encountered an uncorrectable memory error on the SPA card. The hexadecimal memory address of the most recent error is specified in the message text on the console or in the system log. Please power down and reseal the indicated SPA card. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-BAD_SIZE_ERR : SPA [dec]/[dec]: [dec] [chars] events on HDLC Controller were encountered. The SPA is being restarted.

Explanation The SPA driver detected an error event on the HDLC controller.

Recommended Action The SPA driver has encountered an error event on the SPA card. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-HDLC_CTRL_ERR : SPA [dec]/[dec]: [dec] [chars] events on HDLC Controller were encountered.

Explanation The SPA driver detected an error event on the HDLC Controller.

Recommended Action The SPA driver has encountered an error event on the SPA card. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-COR_MEM_ERR : SPA [dec]/[dec]: [dec] correctable [chars] memory error(s) encountered. The error has been corrected and normal processing should continue. The memory address of most the recent error is: [hex]

Explanation	The SPA driver detected a correctable memory error on the SPA card.
Recommended Action	The SPA has encountered a correctable memory error on the SPA card. The error has been corrected and normal processing should continue. The hexadecimal memory address of the most recent error is specified in the message text on the console or in the system log. If the condition persists, or other errors are indicated for the SPA, copy the error message exactly as it appears. Then power down and reseal the indicated SPA card. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a tech-support to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-UNCOR_PARITY_ERR : SPA [dec]/[dec]: [dec] [chars] parity error(s) encountered. The address of the most recent error is: [hex]

Explanation	The SPA driver detected an uncorrectable parity error condition on the SPA card. Packet corruption may result.
Recommended Action	Please power down and reseal the indicated SPA card. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a tech-support to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-SPI4_HW_ERR : SPA on [chars]: [chars] Hardware error was encountered.

Explanation	The SPA driver detected a Hardware error condition on the SPA card. This might result in improper operation.
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%SPA_CHOC_DSX-3-SPI4_HW_ERR : SPA on [chars]: [chars] Hardware error was encountered.

Recommended Action The SPA driver has encountered a Hardware error on the SPA's SPI4 bus. Please power down and reseal the indicated SPA card. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at <http://www.cisco.com/public/support/tac/tools.shtml>. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-SPA_SW_ERR : SPA on [chars]: [chars] Software error was encountered.

Explanation The SPA driver detected a Software error condition on the SPA card. This might result improper operation.

Recommended Action The SPA driver has encountered a Software error. Please first reload the configuration by doing shut/no shut on the controllers. If the problem persists, please power cycle the SPA. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the Bug Toolkit on the Cisco web-site. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-SEMAHOG : SPA on [chars]: Semaphore Hog was encountered.Hogged by process [chars]

Explanation The semaphore used by the IPC communication between host and the SPA was hogged by one process. This behavior would cause other processes fail to send commands down to the SPA. This might result improper operation.

Recommended Action Please first stop all the traffic on the SPA and then reload the configuration by doing shut/no shut on the controllers. If the problem persists, please power cycle the SPA. If the condition persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the Bug Toolkit on the Cisco web-site. If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative. Be sure to provide the the information you have gathered and a **tech-support** to your support representative, or attach it to your case in non-zipped, plain text format (.txt).

%SPA_CHOC_DSX-3-PERIODIC_PROCESS : [chars]: periodic process error [chars].

Explanation	The SPA driver detected an error with the periodic processing routine.
Recommended Action	If the ports on the SPA are not operating as expected, take it out of service by issuing command <code>hw-module subslot <noCmdBold><CmdArg>slot#/bay#<noCmdArg><CmdBold> stop</code> followed by <code>hw-module subslot <noCmdBold><CmdArg>slot#/bay#<noCmdArg><CmdBold> start</code> for the indicated SPA card. If the error messages persists, copy the error message exactly as it appears. Next research and attempt to resolve the issue using the SPA hardware troubleshooting documentation as well as the tools and utilities provided at http://www.cisco.com/public/support/tac/tools.shtml . If you still require assistance, open a case with the Technical Assistance Center via the Internet at http://www.cisco.com/cgi-bin/front.x/case_tools/caseOpen.pl or contact your Cisco technical support representative.

%SPA_CHOC_DSX-3-DPIDX_LKUP_ERR : Failed to retrieve datapath identifier for interface [chars]

Explanation	The SPA driver is not able to retrieve the datapath identifier for the interface specified in the message. This indicates a software error.
Recommended Action	No action is required.

%SPA_CHOC_DSX-3-PROCESS_FAIL : process creation failed in [chars] spa type [chars] for [chars]

Explanation	The Periodic one second process creation failed. This indicates a software error.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-5-CHNL_GRP_ADD : Channel Group created on the interface [chars]

Explanation	Channel Group created on the serial interface.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CHOC_DSX-5-CHNL_GRP_DEL : Channel Group delete from the interface [chars]

Explanation	Channel Group deleted from the serial interface.
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%SPA_CHOC_DSX-5-CHNL_GRP_DEL : Channel Group delete from the interface [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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SPA_CT3

%SPA_CT3-3-INVALID_SPA_TYPE : Invalid SPA type : slot/bay:[dec]/[dec], spa_type=[dec].

Explanation	The Channelized T3 SPA type cannot be recognized by the version of Cisco IOS software currently running on the system.
Recommended Action	Upgrade your system to the latest version of Cisco IOS software in your release train. If you require further assistance, LOG_STD_SH_TECH_ACTION

%SPA_CT3-3-PROCESS_FAIL : process creation failed for [chars]

Explanation	A command could not be processed because of a process creation failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_CT3-3-SUBRATE_FPGA_DL_FAILED : [chars]: Failed to download the subrate FPGA image.

Explanation	The indicated SPA was not able to download the subrate FPGA image during card initialization sequence. The image might be corrupted and the system will try to recover from this error by upgrading the image.
Recommended Action	If the system cannot recover from this error automatically after a few attempts, it will power-off the affected SPA. In this case, copy the error message exactly as it appears and gather the output of the show hw-module subslot slot/subslot fpd and show hw-module subslot slot/subslot oir commands, then contact your technical support representative with the gathered information.

%SPA_CT3-5-DEF_SUBRATE : [chars] [chars]

Explanation	Remote subrate configuration changed
Recommended Action	Inform the network operator that subrate configuration changed by remote end

SPA_DSPRM

%SPA_DSPRM-3-DSPALARM : Received alarm indication from dsp ([dec]/[dec]/[dec]).

Explanation Operational error detected in DSP.

Recommended Action Reload the SPA card and if the problem persists LOG_STD_ACTION

%SPA_DSPRM-5-UPDOWN : DSP ([dec]/[dec]/[dec]) is [chars]

Explanation DSP device changed state up/down

Recommended Action No action is required.

%SPA_DSPRM-5-RESTART : DSP ([dec]/[dec]/[dec]) is restarted

Explanation DSP device restarted

Recommended Action No action is required.

%SPA_DSPRM-3-INSUFFICIENT : Insufficient memory for [chars]

Explanation Insufficient memory for SPA-DSP DSPRM operation

Recommended Action Enter the **show memory summary** command to attempt to determine the cause of the error. LOG_STD_REDUCE_ACTION

%SPA_DSPRM-3-DSPALARMINFO : [chars]

Explanation DSP Alarm Data

Recommended Action Reload the SPA card and if the problem persists LOG_STD_ACTION

SPA_ETHER_INTERNAL_IF

%SPA_ETHER_INTERNAL_IF-3-ETHER_INTERNAL_IF_SW_ERR : NULL

Explanation The module driver detected a software error condition on the module card. This might result in improper operation.

%SPA_ETHER_INTERNAL_IF-3-ETHER_INTERNAL_IF_SW_ERR : NULL

Recommended Action	The module driver has encountered a software error. Power down and reseal the indicated module card. If the problem persists, copy the error message exactly as it appears in the console and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN , or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the show logging , show monitor event-trace spa all and show tech-support commands, your troubleshooting logs, and the specific error message.
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SPA_FPD

%SPA_FPD-6-IMG_CORRUPTION : [chars]: FPD image corruption detected for [chars] (ID=[dec]), forcing upgrade of the corrupted image to correct this problem.

Explanation	The software detected corruption on a FPD image and it is triggering the FPD automatic upgrade mechanism to correct the problem.
Recommended Action	No Action is required.

%SPA_FPD-4-UPGRADE_ABORTED : [chars]: Upgrade aborted for [chars] (ID=[dec]) - [chars]

Explanation	The upgrade operation for the FPD image was aborted because the provided image cannot be used by the driver to perform the image programming operation.
Recommended Action	Make sure that the provide FPD image package for the FPD upgrade operation is a valid one for the Cisco IOS release in use. This can be verified with the show upgrade fpd package default command to display the required FPD image package version for the IOS image.

%SPA_FPD-3-GETVER_FAILED : [chars]: Failed to get FPD version for [chars] (ID=[dec]): [chars].

Explanation	Failed to get FPD version due to either IPC problem or operation error. The card will be disabled.
Recommended Action	Check SPA seating and SPA status. Ensure compatibility among FPD, IOS and possible SPA firmware by comparing output of command show hw-module subslot fpd with IOS Release Notes. Obtain IOS version by command show version .

%SPA_FPD-3-UPGRADE_FAILED : [chars]: Failed to upgrade FPD, [chars].

Explanation	The FPD image upgrade operation failed. This error is specific to the SPA. The cause could be a wrong image file, error in accessing fpga storage, physical interrupt such as power failure or card removal. Depending on SPA type and error cause, the card could be in an unusable status. Normally the system automatically reattempts the upgrade and shuts the card after repeated failures.
Recommended Action	Do not interrupt the system while an FPD upgrade is in progress. Obtain the matching FPD package. Refer to IOS Release Notes for more information on obtaining the correct FPD package for the SPA. Review the output of the RP FPD logs.

%SPA_FPD-3-JTAG_ERR : [chars]: Failed to program a [chars] FPD image file. Error code [hex].

Explanation	While attempting to program a SPA FPGA via JTAG bus, an error occurs. It could be caused by an outdated carrier card FPGA or SPA connection. It may also flag an internal software error.
Recommended Action	Retry the upgrade after reseating SPA. Verify carrier card FPGA is current. Copy exact the error message and report to TAC.

%SPA_FPD-3-SW_ERROR : NULL

Explanation	This error is seen when there is a problem in internal software coding; it should not be seen under normal operation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_FPD-3-PWR_OFF_FAILED : Failed to power-off [chars] in [chars] for FPD offline upgrade within [dec] seconds.

Explanation	The power-off operation of the indicated SPA failed within the number of specified seconds. This might indicate that the time used to wait for SPA to power-off is not long enough, which can happen if the SPA has a lot of interfaces configured.
Recommended Action	Retry the upgrade operation again later. If the problem persists, remove the configuration of the SPA before trying again the upgrade operation.

%SPA_FPD-3-SMM665_CONF_WRITE_ERROR : [chars]: Failed to write new configuration into SMM665 device.

Explanation	The write operation to SMM665 is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.
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%SPA_FPD-3-SMM665_CONF_WRITE_ERROR : [chars]: Failed to write new configuration into SMM665 device.

Recommended Action Retry the upgrade operation again later. If the problem persists, remove the configuration of the SPA before trying again the upgrade operation.

%SPA_FPD-3-ADM106X_READ_VER_ERROR : [chars]: Failed to read version info from ADM106x device - [chars]

Explanation The read operation to ADM106x is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.

Recommended Action Try to reload the SPA with `hw-module subslot slot#/subslot# reload` command to correct the failure. If problem persists, move the SPA to another bay of the carrier card.

%SPA_FPD-3-IHEX_PARSE_ERROR : NULL

Explanation This error is seen when there is a problem in the format of the Intel HEX data; it should not be seen under normal operation.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_FPD-3-ADM106X_EEPROM_READ_ERROR : [chars]: Failed to read the content of ADM106x [chars] EEPROM section - [chars]

Explanation The read operation to ADM106x is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.

Recommended Action Retry the same operation again later. If the problem persists, remove the configuration of the SPA before trying again the operation.

%SPA_FPD-3-ADM106X_EEPROM_WRITE_ERROR : [chars]: Failed to write new configuration into ADM106x [chars] EEPROM section - [chars]

Explanation The write operation to ADM106x is performed through C2W serial interface from SPA carrier card, the indicated failure might be caused by busy C2W serial interface.

Recommended Action Retry the upgrade operation again later. If the problem persists, remove the configuration of the SPA before trying again the upgrade operation.

%SPA_FPD-3-ADM106X_EEPROM_VERIFY_ERROR : [chars]: Verification of write operation failed in ADM106x [chars] EEPROM section for address [hex] - read value '[hex]', expected value '[hex]'.

Explanation	The verification of the write operation has found a mismatch on the EEPROM data. The problem might be an indication of aging effect on the device that cannot longer hold written data.
Recommended Action	Retry the upgrade operation again later. If the problem persists, replace the SPA.

%SPA_FPD-2-PWR_NO_OK : SPA POWER OK signal is not asserted for [chars] in [chars] for FPD upgrade.

Explanation	The check for SPA POWER OK signal assertion failed. This might indicate a HW problem with the SPA.
Recommended Action	Contact your Cisco technical support representative to have the SPA replaced.

SPA_LNM

%SPA_LNM-5-ENABLED : Interface [chars], noise monitoring enabled for [chars]

Explanation	Link Noise Monitoring has been enabled on the specified T1/E1 interface
Recommended Action	This is an information message to notify that Link Noise Monitoring has been enabled on the T1/E1 link. No user action is required.

%SPA_LNM-5-DISABLED : Interface [chars], noise monitoring disabled for [chars]

Explanation	Link Noise Monitoring has been disabled on the specified T1/E1 interface
Recommended Action	This is an information message to notify that Link Noise Monitoring has been disabled on the T1/E1 link. No user action is required.

%SPA_LNM-3-MINWARNEXCEED : Interface [chars], noise exceeded above minor warning threshold

Explanation	Noise on the link has exceeded above the threshold value configured for minor warning level
Recommended Action	This link requires administrative attention

%SPA_LNM-3-MINWARNIMPROVE : Interface [chars], noise improved below minor warning threshold

Explanation	Noise on the link has improved and is below the threshold value configured for minor warning level
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%SPA_LNM-3-MINWARNIMPROVE : Interface [chars], noise improved below minor warning threshold

Recommended Action No action required

%SPA_LNM-3-MAJWARNEXCEED : Interface [chars], noise exceeded above major warning threshold

Explanation Noise on the link has exceeded above the threshold value configured for major warning level

Recommended Action This link requires administrative attention

%SPA_LNM-3-MAJWARNIMPROVE : Interface [chars], noise improved below major warning threshold

Explanation Noise on the link has improved and is below the threshold value configured for major warning level

Recommended Action No action required

%SPA_LNM-2-REMOVE : Interface [chars] removed from bundle. Noise exceeded above remove threshold

Explanation Noise on the link has crossed the threshold value configured for link removal. This link is taken out of the MLP bundle. This is critical status for the link. This link is under monitoring state and will be added to the bundle again when the noise level is below the configured value.

Recommended Action This link requires administrative attention

%SPA_LNM-2-RESTORE : Interface [chars] restored to bundle. Noise improved below removal threshold

Explanation Noise on the link has improved below the threshold value configured for link removal. This link is restored back to MLP bundle.

Recommended Action No action required

%SPA_LNM-2-REMEXCEED : Interface [chars], noise exceeded above removal threshold

Explanation Noise on the link has exceeded above the threshold value configured for link removal

Recommended Action This link requires administrative attention

%SPA_LNM-2-REMIMPROVE : Interface [chars], noise improved below removal threshold

Explanation Noise on the link has improved and is below the threshold value configured for link removal

Recommended Action No Action required

%SPA_LNM-2-REMFAILED : Interface [chars], failed to remove link from bundle

Explanation Noise on the link has exceeded above the threshold value configured for link removal. However, this link is not removed from the MLP bundle

Recommended Action No Action required

%SPA_LNM-2-RESTOREFAILED : Interface [chars], failed to restore link to the bundle

Explanation Noise on the link has improved and is below the threshold value configured for link removal. However, the link restore back to the MLP bundle failed

Recommended Action No Action required

%SPA_LNM-2-REMEXCEEDLASTLINK : Interface [chars], Last link in bundle, noise exceeded above removal threshold

Explanation Noise on the link has exceeded above the threshold value configured for link removal. However, this link is the last link in the multilink bundle and it is not removed from the service.

Recommended Action This link requires administrative attention

%SPA_LNM-3-GENEVENT : [chars]

Explanation An Error has occurred in the link noise monitoring

Recommended Action Copy the error message exactly as it appears and report it to your technical support representative

SPA_NGIO_ETHER_INTERNAL**%SPA_NGIO_ETHER_INTERNAL-3-SW_ERR : NULL**

Explanation The module driver detected a software error condition on the module card. This might result in improper operation.

%SPA_NGIO_ETHER_INTERNAL-3-SW_ERR : NULL

Recommended Action	The module driver has encountered a software error. Please power down and reseal the indicated module card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the show logging , show monitor event-log module all and show tech-support commands, your troubleshooting logs, and the specific error message.
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SPA_NGIO_UCSE through SSL

- [SPA_NGIO_UCSE](#)
- [SPA_SRVCS_ENGINE](#)
- [SPA_SRVCS_IF](#)
- [SPA_T3E3](#)
- [SPA_UCSE_IF](#)
- [SPECTRUM](#)
- [SRP](#)
- [SRPMIB](#)
- [SRW](#)
- [SSL](#)

SPA_NGIO_UCSE

%SPA_NGIO_UCSE-3-NGIO_MSG_VER_MISMATCH : UCSE [chars] is using incorrect NGIO message version (expected version = [dec], current version = [dec]). Please update the software package for the module with the correct version. Unexpected behavior might occur if the issue is not addressed.

Explanation	UCSE SW is running with a software version that doesn't use the same NGIO message header version. This could happen if the wrong version of the software package for the module was installed in the system.
Recommended Action	Find the appropriate software package for the module based on the Cisco IOS software version that the system is running. Follow the installation documentation that corresponds to your software version and platform to properly install the software package and correct the problem.

%SPA_NGIO_UCSE-3-SHUTDOWN_FAILED : UCSE Module [chars] shutdown failed to be executed.

Explanation The UCSE Module did not yet respond to the shutdown request. This is probably due to a bug.

Recommended Action No action is required.

%SPA_NGIO_UCSE-5-SHUTDOWN_NOT_DONE : UCSE Module [chars] shutdown was not done in a proper fashion: Reseating the module may corrupt the hard disk.

Explanation The module was not properly shutdown before removal of the module. This could result in the corruption of the hard disk on the module.

Recommended Action No action is required.

%SPA_NGIO_UCSE-3-SE_RESET : UCSE Module [chars] will be reset to recover from failure ([chars]).

Explanation The module is restarting to recover from the communication failure with host.

Recommended Action No action is required.

%SPA_NGIO_UCSE-3-APP_RESET : Application on UCSE Module [chars] has failed and requested a UCSE Module reset.

Explanation The application running on the service module failed and as a result the UCSE Module will be restarted in order to recover from the communication failure with host.

Recommended Action No action is required.

%SPA_NGIO_UCSE-3-APP_STATUS : Application on UCSE Module [chars] is [chars]

Explanation The Application running on the service module has changed state.

Recommended Action No action is required.

%SPA_NGIO_UCSE-5-SHUTDOWN_DONE : UCSE Module [chars] shutdown complete

Explanation The shutdown of the UCSE Module was completed.

Recommended Action No action is required.

%SPA_NGIO_UCSE-5-SHUTDOWN_BUTTON : UCSE Module [chars] shutdown button was pressed, shutdown initiated.

Explanation The Shutdown button on the module was pressed and shutdown initiated.

Recommended Action No action is required.

%SPA_NGIO_UCSE-5-NEWPASSWORD : UCSE Module [chars] password changed to '[chars]'.

Explanation The password of the service module was changed.

Recommended Action No action is required.

%SPA_NGIO_UCSE-5-UNCONFIGURE_IP : UCSE Module [chars] UCSE Module ip address unconfigured.

Explanation The UCSE Module IP address is unconfigured as interface IP address changed.

Recommended Action No action is required.

%SPA_NGIO_UCSE-5-RESTORE_IP : UCSE Module [chars] UCSE Module ip address restored.

Explanation The UCSE Module IP address was restored after the system verified that the interface IP address changed. There are certain configuration requirements for the service-engine IP address and the default gateway IP address with the module interface IP address. The system has verified these requirements and restored the IP address.

Recommended Action No action is required.

%SPA_NGIO_UCSE-5-UNCONFIGURE_EXT_IP : UCSE Module [chars] UCSE Module ext ip address unconfigured.

Explanation The UCSE Module external IP address is unconfigured as interface IP address changed.

Recommended Action No action is required.

%SPA_NGIO_UCSE-5-RESTORE_EXT_IP : UCSE Module [chars] ucse ext ip address restored.

Explanation The UCSE Module external IP address was restored after the system verified that the interface IP address changed. There are certain configuration requirements for the UCSE Module IP address and the default gateway IP address with the module interface IP address. The system has verified these requirements and restored the external IP address.

Recommended Action No action is required.

%SPA_NGIO_UCSE-5-UNCONFIGURE_DEF_GW : UCSE Module [chars] UCSE ip default-gateway unconfigured.

Explanation The UCSE Module default gateway IP is unconfigured as interface IP address changed.

Recommended Action No action is required.

%SPA_NGIO_UCSE-5-RESTORED_DEF_GW : UCSE Module [chars] UCSE ip default-gateway restored.

Explanation The UCSE Module default gateway IP address was restored after the system verified that the interface IP address was changed. There are certain configuration requirements for the UCSE Module IP address and the default gateway IP address with the module interface IP address. The system has verified that the IP address for the UCSE Module IP default gateway is still on the same subnet as the UCSE Module IP address and therefore, the default-gateway configuration is restored.

Recommended Action No action is required.

%SPA_NGIO_UCSE-4-BADPLATFORMINFO : UCSE Module [chars] platform information not received correctly.

Explanation The platform and service module hardware information was not received correctly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_NGIO_UCSE-2-CONFIGFAILED : UCSE Module [chars] [chars] configuration failed

Explanation The indicated configuration for the UCSE Module interface has failed.

%SPA_NGIO_UCSE-2-CONFIGFAILED : UCSE Module [chars] [chars] configuration failed

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_NGIO_UCSE-3-SW_ERR : NULL

Explanation The module driver detected a software error condition on the module card. This might result in improper operation.

Recommended Action The module driver has encountered a software error. Please power down and reseal the indicated module card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log module all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SPA_NGIO_UCSE-3-PASSWORDRESET : UCSE Module [chars] password reset [chars][chars]

Explanation The password reset of the service module failed or is not supported.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_NGIO_UCSE-3-SPA_CPU_ERR : [chars]: module CPU HW errors: [chars]

Explanation An internal hardware device error has occurred on the module CPU. The error message indicates the modular card slot, the module subslot, the module type and the name of the hardware device. The module has been deactivated and reactivated to resolve the problem. If the error occurs more than five times within an hour, no further attempts to reactivate the module will be made. This message is likely due to an unrecoverable hardware failure

Recommended Action If the module does not recover automatically, perform OIR of the module located in the specified subslot. Before removing the module, enter the **hw-module subslot stop** command. Remove the module, wait 5 seconds, and reinsert the module into the slot. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show tech-support** command, contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_NGIO_UCSE-3-HW_ERR : [chars]: A Hardware device error was detected by [chars], trying to recover the module by reload.

Explanation An internal hardware device error has occurred on the module. The error message indicates the slot, the module subslot, the module type and the name of the hardware device. The module has been deactivated and reactivated to resolve the problem. If the error occurs more than five times within an hour, no further attempts to reactivate the module will be made. This message is likely due to an unrecoverable hardware failure.

Recommended Action Perform OIR of the module located in the specified subslot. Before removing the module, enter the **hw-module subslot stop** command. Remove the module, wait 5 seconds, and reinsert the module into the slot. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show diag** command, contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_NGIO_UCSE-0-APP_MSG_EMER : NULL

Explanation The application running on the service module has encountered an emergency error.

Recommended Action UCSE_APP_MSG_STD_ACTION

%SPA_NGIO_UCSE-1-APP_MSG_ALERT : NULL

Explanation The application running on the service module has issued an alert.

Recommended Action UCSE_APP_MSG_STD_ACTION

%SPA_NGIO_UCSE-2-APP_MSG_CRIT : NULL

Explanation The application running on the service module has encountered a critical error.

Recommended Action UCSE_APP_MSG_STD_ACTION

%SPA_NGIO_UCSE-3-APP_MSG_ERR : NULL

Explanation The application running on the service module has encountered an error.

Recommended Action UCSE_APP_MSG_STD_ACTION

%SPA_NGIO_UCSE-4-APP_MSG_WARN : NULL

Explanation	The application running on the service module has issued a warning message.
Recommended Action	UCSE_APP_MSG_STD_ACTION

%SPA_NGIO_UCSE-5-APP_MSG_NOTICE : NULL

Explanation	The application running on the service module has issued a notice.
Recommended Action	Refer to the software application documentation for more information.

%SPA_NGIO_UCSE-6-APP_MSG_INFO : NULL

Explanation	The application running on the service module has issued a informational message.
Recommended Action	Refer to the software application documentation for more information.

%SPA_NGIO_UCSE-7-APP_MSG_DEBUG : NULL

Explanation	The application running on the service module has displayed a debug message.
Recommended Action	Refer to the software application documentation for more information.

SPA_SRVCS_ENGINE

%SPA_SRVCS_ENGINE-3-RBCP_MSG_VER_MISMATCH : Service Engine [chars] is using incorrect RBCP message version (expected version = [dec], current version = [dec]). Please update the software package for the SPA with the correct version. Unexpected behavior might occur if the issue is not addressed.

Explanation	The service engine is running with a software version that doesn't use the same RBCP message header version. This could happen if the wrong version of the software package for the SPA was installed in the system.
Recommended Action	Find the appropriate software package for the SPA based on the Cisco IOS software version that the system is running. Follow the installation documentation that corresponds to your software version and platform to properly install the software package and correct the problem.

%SPA_SRVCS_ENGINE-3-SHUTDOWN_FAILED : Service Engine [chars] shutdown failed to be executed.

Explanation	The service engine did not yet respond to the shutdown request. This is probably due to a bug.
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%SPA_SRVCS_ENGINE-3-SHUTDOWN_FAILED : Service Engine [chars] shutdown failed to be executed.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-5-SHUTDOWN_NOT_DONE : Service Engine [chars] shutdown was not done in a proper fashion: Reseating the SPA may corrupt the hard disk.

Explanation The SPA was not properly shutdown before removal of the SPA. This could result in the corruption of the hard disk on the SPA.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-3-SE_RESET : Service engine [chars] will be reset to recover from failure ([chars]).

Explanation The service SPA is restarting to recover from the communication failure with host.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-3-APP_RESET : Application on service engine [chars] has failed and requested a service engine reset.

Explanation The application running on the service SPA failed and as a result the service engine will be restarted in order to recover from the communication failure with host.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-3-APP_STATUS : Application on service engine [chars] is [chars]

Explanation The Application running on the service SPA has changed state.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-5-SHUTDOWN_DONE : Service engine [chars] shutdown complete

Explanation The shutdown of the service engine was completed.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-5-SHUTDOWN_BUTTON : Service engine [chars] shutdown button was pressed, shutdown initiated.

Explanation The Shutdown button on the SPA was pressed and shutdown initiated.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-5-NEWPASSWORD : Service Engine [chars] password changed to '[chars]'.

Explanation The password of the service SPA was changed.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-5-UNCONFIGURE_IP : Service Engine [chars] service-engine ip address unconfigured.

Explanation The service-engine IP address is unconfigured as interface IP address changed.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-5-RESTORE_IP : Service Engine [chars] service-engine ip address restored.

Explanation The service-engine IP address was restored after the system verified that the interface IP address changed. There are certain configuration requirements for the service-engine IP address and the default gateway IP address with the SPA interface IP address. The system has verified these requirements and restored the IP address.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-5-UNCONFIGURE_EXT_IP : Service Engine [chars] service-engine ext ip address unconfigured.

Explanation The service-engine external IP address is unconfigured as interface IP address changed.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-5-RESTORE_EXT_IP : Service Engine [chars] service-engine ext ip address restored.

Explanation The service-engine external IP address was restored after the system verified that the interface IP address changed. There are certain configuration requirements for the service-engine IP address and the default gateway IP address with the SPA interface IP address. The system has verified these requirements and restored the external IP address.

%SPA_SRVCS_ENGINE-5-RESTORE_EXT_IP : Service Engine [chars] service-engine ext ip address restored.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-5-UNCONFIGURE_DEF_GW : Service Engine [chars] service-engine ip default-gateway unconfigured.

Explanation The service-engine default gateway IP is unconfigured as interface IP address changed.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-5-RESTORED_DEF_GW : Service Engine [chars] service-engine ip default-gateway restored.

Explanation The service-engine default gateway IP address was restored after the system verified that the interface IP address was changed. There are certain configuration requirements for the service-engine IP address and the default gateway IP address with the SPA interface IP address. The system has verified that the IP address for the service-engine IP default gateway is still on the same subnet as the service-engine IP address and therefore, the default-gateway configuration is restored.

Recommended Action No action is required.

%SPA_SRVCS_ENGINE-4-BADPLATFORMINFO : Service Engine [chars] platform information not received correctly.

Explanation The platform and service SPA hardware information was not received correctly.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_SRVCS_ENGINE-2-CONFIGFAILED : Service Engine [chars] [chars] configuration failed

Explanation The indicated configuration for the service-engine interface has failed.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_SRVCS_ENGINE-3-SW_ERR : NULL

Explanation The SPA driver detected a software error condition on the SPA card. This might result in improper operation.

Recommended Action The SPA driver has encountered a software error. Please power down and reseal the indicated SPA card. Copy the error message exactly as it appears and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the **show logging**, **show monitor event-log spa all** and **show tech-support** commands, your troubleshooting logs, and the specific error message.

%SPA_SRVCS_ENGINE-3-PASSWORDRESET : Service Engine [chars] password reset [chars][chars]

Explanation The password reset of the service SPA failed or is not supported.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_SRVCS_ENGINE-3-SPA_CPU_ERR : [chars]: SPA CPU HW errors: [chars]

Explanation An internal hardware device error has occurred on the Services SPA CPU. The error message indicates the modular services card slot, the SPA subslot, the SPA type and the name of the hardware device. The SPA has been deactivated and reactivated to resolve the problem. If the error occurs more than five times within an hour, no further attempts to reactivate the SPA will be made. This message is likely due to an unrecoverable hardware failure

Recommended Action If the SPA does not recover automatically, perform OIR of the SPA located in the specified subslot. Before removing the SPA, enter the **hw-module subslot stop** command. Remove the SPA, wait 5 seconds, and reinsert the SPA into the SIP. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the **show tech-support** command, contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_SRVCS_ENGINE-3-HW_ERR : [chars]: A Hardware device error was detected by [chars], trying to recover the SPA by reload.

Explanation	An internal hardware device error has occurred on the services SPA. The error message indicates the SIP slot, the SPA subslot, the SPA type and the name of the hardware device. The SPA has been deactivated and reactivated to resolve the problem. If the error occurs more than five times within an hour, no further attempts to reactivate the SPA will be made. This message is likely due to an unrecoverable hardware failure.
Recommended Action	Perform OIR of the SPA located in the specified subslot. Before removing the SPA, enter the hw-module subslot stop command. Remove the SPA, wait 5 seconds, and reinsert the SPA into the SIP. If the problem persists, copy the error message text exactly as it appears on the console or in the system log, enter the show diag command, contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_SRVCS_ENGINE-0-APP_MSG_EMER : NULL

Explanation	The application running on the service SPA has encountered an emergency error.
Recommended Action	Refer to the software application documentation for more information. If the problem persists, copy the error message exactly as it appears on the console, and gather the output from the show hw-module subslot bay_num tech-support command from the SIP console, and the output of show tech-support command from service engine Vegas shell console. Contact your Cisco technical support representative with the gathered information.

%SPA_SRVCS_ENGINE-1-APP_MSG_ALERT : NULL

Explanation	The application running on the service SPA has issued an alert.
Recommended Action	Refer to the software application documentation for more information. If the problem persists, copy the error message exactly as it appears on the console, and gather the output from the show hw-module subslot bay_num tech-support command from the SIP console, and the output of show tech-support command from service engine Vegas shell console. Contact your Cisco technical support representative with the gathered information.

%SPA_SRVCS_ENGINE-2-APP_MSG_CRIT : NULL

Explanation	The application running on the service SPA has encountered a critical error.
Recommended Action	Refer to the software application documentation for more information. If the problem persists, copy the error message exactly as it appears on the console, and gather the output from the show hw-module subslot bay_num tech-support command from the SIP console, and the output of show tech-support command from service engine Vegas shell console. Contact your Cisco technical support representative with the gathered information.

%SPA_SRVCS_ENGINE-3-APP_MSG_ERR : NULL

Explanation	The application running on the service SPA has encountered an error.
Recommended Action	Refer to the software application documentation for more information. If the problem persists, copy the error message exactly as it appears on the console, and gather the output from the show hw-module subslot bay_num tech-support command from the SIP console, and the output of show tech-support command from service engine Vegas shell console. Contact your Cisco technical support representative with the gathered information.

%SPA_SRVCS_ENGINE-4-APP_MSG_WARN : NULL

Explanation	The application running on the service SPA has issued a warning message.
Recommended Action	Refer to the software application documentation for more information. If the problem persists, copy the error message exactly as it appears on the console, and gather the output from the show hw-module subslot bay_num tech-support command from the SIP console, and the output of show tech-support command from service engine Vegas shell console. Contact your Cisco technical support representative with the gathered information.

%SPA_SRVCS_ENGINE-5-APP_MSG_NOTICE : NULL

Explanation	The application running on the service SPA has issued a notice.
Recommended Action	Refer to the software application documentation for more information.

%SPA_SRVCS_ENGINE-6-APP_MSG_INFO : NULL

Explanation	The application running on the service SPA has issued an informational message.
Recommended Action	Refer to the software application documentation for more information.

%SPA_SRVCS_ENGINE-7-APP_MSG_DEBUG : NULL

Explanation	The application running on the service SPA has displayed a debug message.
Recommended Action	Refer to the software application documentation for more information.

SPA_SRVCS_IF**%SPA_SRVCS_IF-3-SRVCS_IF_SW_ERR : NULL**

Explanation	The SPA driver detected a software error condition on the SPA card. This might result in improper operation.
Recommended Action	The SPA driver has encountered a software error. Power down and reseal the indicated SPA card. If the problem persists, copy the error message exactly as it appears in the console and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN , or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the show logging , show monitor event-log spa all and show tech-support commands, your troubleshooting logs, and the specific error message.

SPA_T3E3**%SPA_T3E3-5-BERT : Interface [chars], BERT [chars]**

Explanation	The spa t3e3 driver processed a BERT task.
Recommended Action	None, this is just a notification upon completion of a BERT task.

%SPA_T3E3-5-DEF_SUBRATE : [chars] [chars]

Explanation	Remote subrate configuration changed
Recommended Action	Inform the network operator that subrate configuration changed by remote end

%SPA_T3E3-3-MSGERR : Illegal message type [dec] received for Interface [chars]

Explanation	An unknown message was received by RP.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_T3E3-3-NO_SSB : [chars]: Failed to get serial subblock.

Explanation	Serial subblock pointer is NULL. Internal software error.
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%SPA_T3E3-3-NO_SSB : [chars]: Failed to get serial subblock.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_T3E3-3-SSBINIT : [chars]: Fail to initialize serial IDB

Explanation Most common reason is lack of system memory. Earlier messages might indicate memory allocation failures.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_T3E3-3-LOVEFAIL : [chars]: failed to send [chars] love letter

Explanation A love letter (status or configuration message) could not be sent.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SPA_T3E3-5-MSG_QUEUE_ERR : [chars]: T3E3 process message queue not initialized.

Explanation The T3E3 process message queue is not ready.

Recommended Action Copy the error message exactly as it appears, collect the output of 'show tech-support' command immediately, and report it to your technical support representative.

%SPA_T3E3-5-MSG_ENQUEUE_ERR : [chars]: Unable to enqueue message to T3E3 SPA process

Explanation The T3E3 SPA process message queue is full.

Recommended Action Copy the error message exactly as it appears, collect the output of 'show tech-support' command immediately, and report it to your technical support representative.

%SPA_T3E3-5-MSG_UNEXPECTED_ERR : [chars]: Unexpected SPA message [dec].

Explanation	SPA has been removed, but still there are outstanding events.
Recommended Action	If the CPU utilization is high, try to reduce the CPU utilization

%SPA_T3E3-4-SUBRATE_FPGA_LOAD_FAILED : [chars] Programming [chars] subrate FPGA failed. The FPGA image is corrupted. One upgrade attempt is made.

Explanation	The indicated subrate FPGA image is corrupted and programming of FPGA failed. One upgrade attempt will be made to recover from the failure.
Recommended Action	Automatically upgrade the subrate FPGA image uses default FPD Image Package. The package should match the running Cisco IOS release. This can be verified by the use of show upgrade fpd package default command. If subrate FPGA failure persists after upgrade, SPA is disabled. Ensure the package file is intact.

%SPA_T3E3-3-SUBRATE_FPGA_LOAD_FAILED2 : [chars] Programming [chars] subrate FPGA failed. The FPGA image is corrupted. FPD upgrade has been attempted. SPA is shut.

Explanation	The indicated subrate FPGA image is corrupted even after FPD upgrade. The SPA is disabled until this problem is corrected.
Recommended Action	Verify the correctness of the FPD Image Package. Note that the FPD Image Package used in the upgrade should match the running Cisco IOS release. This can be verified by the use of show upgrade fpd package default command.

SPA_UCSE_IF

%SPA_UCSE_IF-3-UCSE_IF_SW_ERR : NULL

Explanation	The module driver detected a software error condition on the module card. This might result in improper operation.
Recommended Action	The module driver has encountered a software error. Power down and reseal the indicated module card. If the problem persists, copy the error message exactly as it appears in the console and open a case with the Technical Assistance Center via the Internet at TAC_CASE_OPEN , or contact your Cisco technical support representative and provide the representative with the information you have gathered. Be sure to attach to your case the output of the show logging, show monitor event-trace spa all and show tech-support commands, your troubleshooting logs, and the specific error message.

SPECTRUM

%SPECTRUM-3-EWLC_EXEC_ERR : %% Error: AP [hex][hex].[hex][hex].[hex][hex]: [chars]

Explanation Improper configuration for dual band AP

Recommended Action please check the requested configuration against ap type

SRP

%SRP-4-RAC_ALARM : [chars] Side %c [chars]

Explanation A physical error condition detected at the indicated RAC

Recommended Action Diagnose and repair the physical error

%SRP-4-ALARM : [chars] Side %c [chars]

Explanation A physical line error condition exists on the indicated network

Recommended Action Diagnose and repair the physical error

%SRP-3-NULL_P_ALARM : Dereferencing NULL pointer [chars] in [chars]

Explanation NULL pointer error condition exists. Some features/commands may not work properly

Recommended Action Please Contact Cisco Systems TAC support

%SRP-3-FALSE_VAL_ALARM : [chars] - error in [chars]

Explanation FALSE value returned. Some features/commands may not work properly

Recommended Action Please Contact Cisco Systems TAC support

%SRP-3-DUP_MAC_ADDR : [chars] : Duplicate mac addresses in topology

Explanation The topology contains 1 or more duplicate mac addresses

Recommended Action Identify duplicate address and correct configuration.

%SRP-3-SINGLE_NODE_TOPO : [chars] : Single node in topology

Explanation	The topology discovery resulted in a single node being found
Recommended Action	This can be due to duplicated mac addresses. Identify mac address of interface and ensure it is not duplicated on other nodes. If the node is in loopback, disregard this message.

%SRP-3-RING_ID_ERROR : [chars] : Rx side [chars], Tx side of fiber originates on side [chars]

Explanation	The fiber on the specified side is remotely connected to the wrong side
Recommended Action	Verify that each side A is connected to side B and each side B is connected to side A.

%SRP-4-WRAP_STATE_CHANGE : [chars] [chars] on side %c ([chars])

Explanation	The specified side of the interface is wrapped or unwrapped.
Recommended Action	Diagnose the cause of the wrap.

%SRP-4-SRR_STATE_CHANGE : [chars] SRR usage changed ([chars])

Explanation	SRR ring usage is changed using Inner, Outer or Both rings.
Recommended Action	Diagnose the cause of the ring usage change.

%SRP-4-SRR_VER_MISMATCH : [chars] SRR version mismatch detected.

Explanation	Different SRR version received from other nodes.
Recommended Action	Update the IOS image on all nodes of the ring to the same SRR version

%SRP-1-WRAPPING_PROCESS_LOCKED : [chars] The wrap/unwrap state-change process is locked

Explanation	A wrap/unwrap state change process has not come to an end on time.
Recommended Action	If message is periodic, issue a shut and no shut on the interface.

SRPMIB**%SRPMIB-3-NULL_P_ALARM : Dereferencing NULL pointer [chars] in [chars]**

Explanation	NULL pointer error condition exists. Some feature/command may not work properly
Recommended Action	Please Contact Cisco Systems TAC support

%SRPMIB-3-FALSE_VAL_ALARM : [chars] - error in [chars]

Explanation	FALSE value returned. Some features/commands may not work properly
Recommended Action	Please Contact Cisco Systems TAC support

SRW**%SRW-7-SRW_ERROR : [chars]: [hex] [hex] [dec] [dec] [dec] [dec] [hex]**

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SRW-7-SRW_ERROR2 : [chars]: [hex] [hex] [dec] [dec] [dec] [dec] [hex] [hex] [hex] [hex] [dec]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%SRW-7-SRW_ERROR3 : [chars]: [hex] [hex] [dec] [dec] [dec] [dec] [hex] [hex] [hex] [dec] [hex] [dec]

Explanation	An internal software error occurred.
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%SRW-7-SRW_ERROR3 : [chars]: [hex] [hex] [dec] [dec] [dec] [dec] [hex] [hex] [hex] [dec] [hex] [dec]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SRW-7-BAD_SRW_DATA : Bad SRW data ([hex])

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SRW-7-BAD_SRW_MAGIC : Bad SRW magic [hex] @ [hex]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

SSL

%SSL-3-SSL_REC_HDR_BUF_OVERFLOW : QFP SSL record header buffer overflow

Explanation Cisco internal software error. QFP SSL record processing detected header buffer overflow condition. The SSL connection will not be functional while this condition exists.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSL-3-SSL_STUB : QFP SSL ([chars]) feature executes stub entry in [chars] direction

Explanation	Cisco internal software error. QFP SSL feature stub entry got executed. The packet will be dropped.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SSLMGR through STP_ISSU

- [SSLMGR](#)
- [SSLVPN](#)
- [SSLVPNMG](#)
- [SSLVPN_PROXY](#)
- [SSSMGR](#)
- [STACKMGR](#)
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- [STILE_CLIENT](#)
- [STILE_PROXY](#)
- [STP_ISSU](#)

SSLMGR

%SSLMGR-0-ASYMMETRIC_KEY_FAIL : Asymmetric key failure: [chars].

Explanation	Asymmetric key failure.
Recommended Action	No action required - forwarding processor (ESP) rebooted automatically.

%SSLMGR-0-SYMMETRIC_KEY_FAIL : Symmetric key failure: [chars].

Explanation	Symmetric key failure.
Recommended Action	No action required - forwarding processor (ESP) rebooted automatically.

%SSLMGR-3-N2_CONTEXT_FAIL : Context failure: [chars].

Explanation	Coprocessor context operation failed due to resource limit
Recommended Action	Monitoring required

%SSLMGR-0-N2_VSERVER_FAIL : Virtual server context failure: [chars].

Explanation	Cryptographic coprocessor critical operation failed. Further data processing on ESP is halted
Recommended Action	forwarding processor (ESP) is rebooted automatically. no action needed

SSLVPN**%SSLVPN-6-RADIUS_ATTRIBUTE_TOO_LONG : Attribute length [dec] is longer than buffer size [dec]**

Explanation	This message indicates that the attribute configured on the Radius server is longer than the allocated buffer size and will be ignored.
Recommended Action	Reconfigure the radius attribute with the appropriate length

%SSLVPN-6-INVALID_RADIUS_CONFIGURATION : Radius configured [chars] [chars] does not exist

Explanation	This message indicates that the name configured on the Radius server, does not match any of the configured names on the gateway <i>*/</i> "This message indicates that the HTTP Authentication method configured <i>*/</i> " on the server for the url, is not supported by the gateway"); <i>*/</i> msgdef_recommended_action(<i>*/</i> "Check the server configuration and reconfigure it"); <i>*/</i>
Recommended Action	Check the gateway configuration and reconfigure the radius server <i>*/</i> "Check the server configuration and reconfigure it"); <i>*/</i>

%SSLVPN-6-UNSUPPORTED_HTTPAUTH_METHOD : Unsupported HTTP Authentication method configured for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Explanation	msgdef (UNSUPPORTED_HTTPAUTH_METHOD, SSLVPN, LOG_INFO, 0 , Unsupported HTTP Authentication method configured for url %s://%s%s being accessed by user %s in context %s This message indicates that the HTTP Authentication method configured on the server for the url, is not supported by the gateway
Recommended Action	msgdef (UNSUPPORTED_HTTPAUTH_METHOD, SSLVPN, LOG_INFO, 0 , Unsupported HTTP Authentication method configured for url %s://%s%s being accessed by user %s in context %s Check the server configuration and reconfigure it

%SSLVPN-6-UNSUPPORTED_BASIC_HTTP_METHOD : Unsupported Basic HTTP method configured for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Explanation This message indicates that the Basic HTTP method configured on the server for the url, is not supported by the gateway

Recommended Action Check the server configuration and reconfigure it

%SSLVPN-6-HTTPAUTH_NTLM_NEGO_ERROR : NTLM Negotiation error while doing HTTP authentication for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Explanation This message indicates that a NTLM negotiation error occurred while doing the HTTP authentication with the the server for the url

Recommended Action Check the server configuration and reconfigure it

%SSLVPN-6-OVERSIZE_NTLM_TYPE3_CREDENTIALS : NTLM Type3 credentials size is larger than supported for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Explanation This message indicates that the NTLM Type3 credentials size for the url, is larger than what is supported on the gateway

Recommended Action Check the server configuration and reconfigure it

%SSLVPN-6-HTTP_KEEPALIVE_DISABLED : HTTP Keepalive is disabled on the server for url [chars]://[chars][chars] being accessed by user [chars] in context [chars]

Explanation This message indicates that the HTTP Keepalive is disabled on the server for the url.

Recommended Action Check the server configuration and reconfigure it

%SSLVPN-3-CERT_GEN_FAILED : Generation of self-signed certificate failed for Gateway [chars]

Explanation This message indicates that generation of self-signed certificate failed

Recommended Action Check the server configuration and reconfigure it

%SSLVPN-6-CONTEXT_MAX_USERS_LOGIN_DENIED : Login denied for user [chars]; Max users exceeded for profile [chars]

Explanation	This message indicates that the user was denied to login because the the max users for the profile has been exceeded
Recommended Action	Check the gateway configuration and reconfigure the maximum allowed users in the profile

%SSLVPN-6-CONTEXT_OUT_OF_SERVICE : Failed to apply configuration on vaccess ; Context [chars] is made out of service ; [chars]

Explanation	This message indicates that applying configuration on vaccess failed. This is caused if the configuration is not valid while doing inservice.
Recommended Action	Check the configuration before doing inservice of the context.

%SSLVPN-6-GLOBAL_MAX_USERS_LOGIN_DENIED : Login denied for user [chars]; Global max users limit reached

Explanation	This message indicates that the user was denied to login because the the max users limit reached
Recommended Action	To support more users, more sslvpn gateways need to be installed

%SSLVPN-6-WEBVPN_TUNNEL_USER_LOGOUT : User: [chars] has logged out from gateway [chars] context [chars]

Explanation	A Tunneling user has logged out from the given gateway/context
Recommended Action	The information is used to track user logout events. No action is required.

%SSLVPN-5-UPDOWN : sslvpn [chars] : [chars] changed state to [chars]

Explanation	sslvpn service state changed.
Recommended Action	No action is required.

%SSLVPN-5-SSLVPNMGR_ERROR : [chars] [chars]

Explanation	SSLVPN Manager error.
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%SSLVPN-5-SSLVPNMGR_ERROR : [chars] [chars]

Recommended Action No action is required.

%SSLVPN-6-WEBVPN_APP_ACL_URL : The request(scheme: [chars], host : [chars], port : [dec], path : [chars]) from user [chars] is [chars] by ACL

Explanation A request is matched with application ACL.

Recommended Action No action is required.

%SSLVPN-6-WEBVPN_APP_ACL_NET : The request(source ip: [IP_address], destion ip : [IP_address]) from user [chars] is [chars] by ACL

Explanation A request is matched with network ACL.

Recommended Action No action is required.

%SSLVPN-6-WEBVPN_SSO_AUTH_SUCCESS : Single Sign On session successfully established for user: [chars] in context [chars]

Explanation This message indicates that a Single Sign On session was established for the user

Recommended Action The information is used to track Single Sign On events. No action is required.

%SSLVPN-6-WEBVPN_SSO_AUTH_REJECT : Single Sign On session establishment failed for user: [chars] in context [chars]

Explanation This message indicates that a Single Sign On session failed for the user

Recommended Action The information is used to track Single Sign On events. No action is required.

%SSLVPN-6-WEBVPN_SSO_SESSION_FAIL : Single Sign On session creation failed for user: [chars] in context [chars]

Explanation This message indicates that a Single Sign On session creation failed for the user. Session creation can fail for various reasons such as DNS lookup failure, timeouts and retry attempts exceeded

Recommended Action The information is used to track Single Sign On events. No action is required.

%SSLVPN-5-LOGIN_AUTH_PASSED : vw_ctx: [chars] vw_gw: [chars] remote_ip: [IP_address] user_name: [chars], Authentication successful, user logged in

Explanation This message indicates that login authentication succeeded for user

Recommended Action No action is required.

%SSLVPN-5-LOGIN_AUTH_FAILED : vw_ctx: [chars] vw_gw: [chars] remote_ip: [IP_address] user_name: [chars], Failed to contact authentication server

Explanation This message is seen when the authentication server is unavailable because it is down or unreachable

Recommended Action Verify if routes are configured correctly to reach authentication and the server is configured correctly

%SSLVPN-5-LOGIN_AUTH_REJECTED : vw_ctx: [chars] vw_gw: [chars] remote_ip: [IP_address] user_name: [chars], Failed to authenticate user credentials

Explanation This message indicates that authentication server failed to validate credentials provided by the user to login under webvpn context

Recommended Action Check username and password configured on authentication server

%SSLVPN-5-SESSION_TERMINATE : vw_ctx: [chars] vw_gw: [chars] remote_ip: [IP_address] user_name: [chars] reason: [chars]

Explanation This message indicates that user session is terminated due to reason indicated

Recommended Action No action is required.

%SSLVPN-5-SSL_TLS_ERROR : vw_ctx: [chars] vw_gw: [chars] i_vrf: [dec] f_vrf: [dec] status: SSL/TLS connection error with remote at [IP_address]:[dec]

Explanation This message indicates that SSL/TLS connection has encountered error this normally means that either handshake failed or protocol error occurred during life-time of the connection

Recommended Action Check certificate and trustpoint configuration in global config mode as well as under webvpn gateway

%SSLVPN-5-SSL_TLS_CONNECT_OK : vw_ctx:[chars]vw_gw:[chars]i_vrf:[dec]f_vrf:[dec] status: SSL/TLS connection successful with remote at [IP_address]:[dec]

Explanation This message indicates that SSL/TLS handshake with peer was successful

Recommended Action No action is required.

%SSLVPN-5-HTTP_REQUEST_NOT_AUTHORIZED : vw_ctx:[chars]vw_gw:[chars]remote_ip:[IP_address] status: HTTP request without login cookie resource:[chars]

Explanation This message indicates that HTTP request doesn't have valid login cookie and is not authorized to access the resource

Recommended Action No action is required.

%SSLVPN-1-LICENSE_EXPIRED : IOS SSLVPN evaluation license has expired

Explanation IOS SSLVPN evaluation license has expired and a new license needs to be obtained. Existing user sessions will continue till they are closed and no new sessions will be allowed.

Recommended Action Please visit <http://www.cisco.com/go/sslvpn> for instructions on how to obtain a IOS SSLVPN license

%SSLVPN-6-LICENSE_NO_FREE_COUNT : All available SSLVPN session licenses are in use

Explanation All SSLVPN sessions available per current license are in use. Hence, no additional user sessions can be allowed.

Recommended Action To support more users, additional license needs to be purchased. Please visit <http://www.cisco.com/go/sslvpn> for instructions on how to obtain a IOS SSLVPN license

%SSLVPN-4-LICENSE_COUNT_EXCEEDS_MAX_LIMIT : License count of currently installed license exceeds the maximum supported sessions on this platform

Explanation License count of currently installed license exceeds the maximum supported sessions on this platform. Excess count will not be utilized.

Recommended Action Please collect the output of show license detail command and contact your technical support representative.

%SSLVPN-3-LICENSE_NO_LICENSE : No valid license is available to use IOS SSLVPN service

Explanation	IOS SSLVPN service is a licensed feature on this platform. It will not be functional until a valid license is installed.
Recommended Action	Please visit http://www.cisco.com/go/sslvpn for instructions on how to obtain a IOS SSLVPN license

SSLVPMGR**%SSLVPMGR-5-LOGIN_AUTH_FAILED : Failed to contact authentication server. [chars]**

Explanation	Authentication server is unavailable because it is down or unreachable
Recommended Action	Verify if routes are configured correctly to reach authentication and the server is configured correctly

%SSLVPMGR-5-LOGIN_AUTH_REJECTED : Failed to authenticate user credentials. [chars]

Explanation	Authentication server failed to validate credentials provided by the user to login under webvpn context
Recommended Action	Check username and password configured on authentication server

%SSLVPMGR-6-CONTEXT_MAX_USERS_LOGIN_DENIED : Authentication successful, user logged in. [chars]Session terminated. [chars]HTTP request without login cookie. [chars>Login denied for user [chars]. Max users exceeded for context [chars]

Explanation	This message indicates that login authentication succeeded for user SSLVPN session was terminated This message indicates that HTTP request doesn't have valid login cookie and is not authorized to access the resource This message indicates that user was denied to login because the the max users for the context has been exceeded
Recommended Action	Check the gateway configuration and reconfigure the maximum allowed users in the context

SSLVPN_PROXY**%SSLVPN_PROXY-2-PROXY_IPC_INIT_FAILED : QFP SSLVPN Proxy IPC interface initialization failure (result: [dec]).**

Explanation	Cisco internal software error. QFP SSLVPN Proxy initialization detected that the IPC interface initialization failed. QFP SSLVPN proxy will not be functional while this condition exists.
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%SSLVPN_PROXY-2-PROXY_IPC_INIT_FAILED : QFP SSLVPN Proxy IPC interface initialization failure (result: [dec]).

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SSLVPN_PROXY-3-PROXY_BAD_MSG : QFP SSLVPN Proxy received bad length message type [dec]

Explanation	Cisco internal software error. QFP SSLVPN Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSLVPN_PROXY-3-PROXY_INV_MSG : QFP SSLVPN Proxy received invalid message type [dec]

Explanation	Cisco internal software error. QFP SSLVPN Proxy received an invalid message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSLVPN_PROXY-3-PROXY_IPC_ALLOC_FAILED : QFP SSLVPN Proxy [chars] message lost due to message buffer allocation failure.

Explanation	Cisco internal software error. QFP SSLVPN Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSLVPN_PROXY-3-PROXY_IPC_SEND_FAILED : QFP SSLVPN Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation	Cisco internal software error. QFP SSLVPN Proxy message processing detected a message sent failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSLVPN_PROXY-4-PROXY_CRYPTO_CTX_REQ_FAIL : QFP SSLVPN Proxy failed to replenish hardware context handles., MSGDEF_LIMIT_SLOW

Explanation	Cisco internal software error. QFP SSLVPN Proxy message processing detected out-of-resource condition and cannot replenish hardware context handles. QFP SSLVPN will not be functional properly while this condition exist.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSLVPN_PROXY-3-PROXY_SSL_CTX_MEM_REQ_FAIL : QFP SSLVPN Proxy failed to repleneish SSL context memory., MSGDEF_LIMIT_SLOW

Explanation	Cisco internal software error. QFP SSLVPN Proxy message processing detected leaking of SSL context memory condition. QFP SSLVPN will not be functional properly while this condition exist.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSLVPN_PROXY-3-PROXY_CRYPTO_CTX_MEM_REQ_FAIL : QFP SSLVPN Proxy failed to repleneish crypto context memory., MSGDEF_LIMIT_SLOW

Explanation	Cisco internal software error. QFP SSLVPN Proxy message processing detected leaking of crypto context memory condition. QFP SSLVPN will not be functional properly while this condition exist.
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%SSLVPN_PROXY-3-PROXY_CRYPTO_CTX_MEM_REQ_FAIL : QFP SSLVPN Proxy failed to repleneish crypto context memory., MSGDEF_LIMIT_SLOW

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

SSSMGR

%SSSMGR-3-NULL_FSM_CONTEXT : Encountered a NULL SSS Mgr context in [chars]

Explanation Encountered a NULL context in SSS Manager.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-3-INVALID_FSM_STATE : Encountered an invalid SSS Mgr state [dec] in [chars]

Explanation An internal SSS Manager error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-3-INIT : Initialisation failure, [chars]

Explanation An internal SSS Manager error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-3-MEMORY_LOW : Memory low ([dec] times), disconnecting session

Explanation Required memory is running low.

%SSSMGR-3-MEMORY_LOW : Memory low ([dec] times), disconnecting session

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SSSMGR-3-RESOURCE_OVERFLOW : Resource overflow

Explanation	A fixed size system resource has been exceeded.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-3-NULL_INFO_STRING : Received a NULL info string value.

Explanation	An internal SSS Manager error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-3-UNEXPECTED_SIP_INFO : Encountered an unexpected SIP info: [chars]

Explanation	Encountered an unexpected SIP info.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-3-INVALID_INFO_TYPE : Received an INVALID info type value ([dec]).

Explanation	An internal SSS Manager error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-3-INVALID_SERVICE_TYPE : Received an INVALID service type ([dec])[chars].

Explanation	An internal SSS Manager error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-3-INFO_TYPE_NO_COPY_VECTOR : info type has no copy vector ([dec]).

Explanation	An internal SSS Manager error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-3-DYNAMIC_UPDATE_NOT_SUPPORTED : [[dec]] Dynamic session updates not allowed on this [chars] session. It is an unsupported configuration.

Explanation	Updates on these sessions not supported. This is an unsupported configuration.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-3-UNEXPECTED_MSG : Encountered an unexpected message: [chars]

Explanation	Encountered an unexpected message.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-5-IFCFG_NOTALLWED_IN_SVC : Interface-config not allowed at service config level, ignoring

Explanation	Interface-config attribute is not allowed while in a service profile. It is only supported in user profiles.
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%SSSMGR-5-IFCFG_NOTALLWED_IN_SVC : Interface-config not allowed at service config level, ignoring

Recommended Action	Remove interface-config attribute from the service profile and reconfigure using a user profile.
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%SSSMGR-3-UNSUPPORTED_CFG : Unsupported configuration detected: [uid: [int]] [chars]

Explanation	Unsupported configuration detected.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SSSMGR-5-UNSUPPORTED_CFG_NOTICE : Unsupported configuration detected, [chars]

Explanation	The value of the specified configuration parameter was out of range. This is not considered an error as the value was adjusted to be within the supported range. Update the configuration source to a value within the supported range to avoid this message.
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Recommended Action	No action is required.
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%SSSMGR-3-ERROR_RESOURCE_OVERFLOW : Resource overflow

Explanation	A fixed size system resource has been exceeded.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SSSMGR-4-WARN_RESOURCE_ABOVE_WM : Resource above watermark

Explanation	A fixed size system resource is above watermark.
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Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%SSSMGR-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation	Initialization of the specified subblock data structure could not be accomplished.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-5-BB_LICENSE_REQUEST_SENT : Broadband license request sent for [int] license with configured license count [int]

Explanation	
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-5-BB_LICENSE_PROCUREMENT_SUCCESS : Successfully procured [int] BroadBand licenses

Explanation	
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-5-BB_LICENSE_PROCUREMENT_FAILURE : Failed to procure [int] BroadBand licenses

Explanation	
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-5-BB_LICENSE_RELEASE_SUCCESS : Successfully released all BroadBand licenses

Explanation

%SSSMGR-5-BB_LICENSE_RELEASE_SUCCESS : Successfully released all BroadBand licenses

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SSSMGR-5-BB_LICENSE_RELEASE_FAILURE : Failed to release all BroadBand licenses

Explanation

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

STACKMGR

%STACKMGR-6-DISC_START : [chars] [dec] is starting stack discovery.

Explanation The specified switch is starting stack discovery.

Recommended Action No action is required

%STACKMGR-6-DISC_DONE : [chars] [dec] has finished stack discovery.

Explanation The specified switch has completed stack discovery and is moving to the election phase.

Recommended Action No action is required

%STACKMGR-4-SWITCH_REMOVED : [chars] [dec] has been removed from the stack.

Explanation The specified switch has been removed from the stack.

Recommended Action No action is required

%STACKMGR-6-CHASSIS_REMOVED : [chars] [dec] has been removed from the stack.

Explanation The specified chassis has been removed from the stack.

%STACKMGR-6-CHASSIS_REMOVED : [chars] [dec] has been removed from the stack.

Recommended Action No action is required

%STACKMGR-4-SWITCH_ADDED : [chars] [dec] has been added to the stack.

Explanation The specified switch has been added to the stack.

Recommended Action No action is required

%STACKMGR-6-CHASSIS_ADDED : [chars] [dec] has been added to the stack.

Explanation The specified chassis has been added to the stack.

Recommended Action No action is required

%STACKMGR-6-ACTIVE_READY : Active [chars] [dec] is ready.

Explanation The active switch is ready.

Recommended Action No action is required

%STACKMGR-6-ACTIVE_ELECTED : [chars] [dec] has been elected ACTIVE.

Explanation The specified switch has been elected active.

Recommended Action No action is required

%STACKMGR-6-STANDBY_ELECTED : [chars] [dec] has been elected STANDBY.

Explanation The specified switch has been elected standby.

Recommended Action No action is required

%STACKMGR-6-SWITCH_READY : [chars] [dec] is ready.

Explanation The specified switch is ready.

Recommended Action No action is required

%STACKMGR-6-CHASSIS_READY : [chars] [dec] is ready.

Explanation The specified chassis is ready.**Recommended Action** No action is required

%STACKMGR-1-RELOAD_REQUEST : Received reload request for [chars], reason [chars]

Explanation The specified switches are being reloaded.**Recommended Action** No action is required

%STACKMGR-1-RELOAD : Reloading due to reason [chars]

Explanation The specified switch has received a reload request and is being reloaded.**Recommended Action** No action is required

%STACKMGR-1-FATAL_ERR : Stack manager encountered an unrecoverable error. [chars]

Explanation The stack manager process has encountered an unrecoverable error and the switch is being reloaded.**Recommended Action** Please ensure valid switch numbers are being used. If you still believe there is an error in the system, please send the system report to a TAC representative

%STACKMGR-6-STACK_LINK_CHANGE : Stack port [dec] on [chars] [dec] is [chars]

Explanation The specified stack port has changed status.**Recommended Action** No action is required

%STACKMGR-1-STACK_MERGE_IGNORE : Stack Merge Ignored [chars]

Explanation Switch detected multiple Active switches. But stack-merge is being ignored.**Recommended Action** No action is required

%STACKMGR-1-DUAL_ACTIVE_CFG_MSG : Dual Active Detection [chars]

Explanation Switch detected availability or unavailability of Dual Active Detection ports.

Recommended Action No action is required

%STACKMGR-1-EPA_MISMATCH : [chars]. The mis-match may caused by hardware failure or different EPA types.

Explanation The Standby EPA mismatch with Active EPA.

Recommended Action Need to make them match

%STACKMGR-1-LIC_MISMATCH : License level is [chars] and needs to be upgraded to [chars] for Stackwise Virtual to function.

Explanation Current Licnese level on active switch does not support Stackwise Virtual.

Recommended Action Need to be upgraded to supported license level

STILE

%STILE-4-STATIC_SLINK_ALLOC_FAILED : Memory resources exhausted to configure custom/sub protocol, MSGDEF_LIMIT_GLACIAL

Explanation This message indicates that current user configuration could not be activated because of unavailability of memory resources. The NBAR cannot classify packets for this new protocol configured.

Recommended Action The memory resource exhaustion is happening because too many port range based protocols are configured by the user. Recommended action is to avoid very large range of ports.

%STILE-3-PDL_DEBUG : Action action_print is supported only in pdl debug mode. Text = [chars] Value = [hex]

Explanation print action output

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STILE-3-NBAR_DEBUG_REG_FAILED : [dec]

Explanation NBAR Conditional debugging registration failed.

**Recommended
Action**

%STILE-3-VM_ERRORS : STILE VM traceback with cause: *[chars]*, please see FP log for more information

Explanation

**Recommended
Action**

STILE_CLIENT**%STILE_CLIENT-4-MAX_LINK_TOUCH_WARN : NBAR number of [chars] threshold is reached, can't allocate more memory for [chars].**

Explanation Because of non-availability of flow links new traffic flows may not be classified properly

**Recommended
Action** No action is required.

%STILE_CLIENT-4-MAX_LINK_TOUCH_CLEAR : NBAR number of [chars] has declined below its threshold, links are available for [chars].

Explanation After NBAR was in links shortage, the number of links has declined below its threshold. New traffic flows will be classified properly

**Recommended
Action** No action is required.

%STILE_CLIENT-4-NBAR_MEMORY_BOUNDARY_TOUCH_WARN : NBAR reached maximum configured memory utilization. Can't allocate more memory for [chars].

Explanation Because of NBAR memory shortage new flows may not be classified properly

**Recommended
Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STILE_CLIENT-4-NBAR_MEMORY_BOUNDARY_TOUCH_CLEAR : NBAR memory utilization has declined below its threshold, memory is available for [chars].

Explanation	After NBAR was in memory shortage, memory utilization has declined below its threshold New traffic flows will be classified properly
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STILE_CLIENT-4-SYS_FREE_MEMORY_LOW_WATERMARK_TOUCH_WARN : System free memory has reached its lower watermark. Can't allocate more memory for [chars].

Explanation	Because of system memory shortage new flows may not be classified properly
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STILE_CLIENT-4-SYS_FREE_MEMORY_LOW_WATERMARK_TOUCH_CLEAR : System free memory has increased above its lower watermark, memory is available for [chars].

Explanation	After system memory was in shortage, free memory has increased above its lower watermark New traffic flows will be classified properly
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STILE_CLIENT-4-NBAR_NOT_ENOUGH_STATIC_MEMORY : NBAR does not have enough memory to be activated.

Explanation	System does not have enough free memory to allow activation of NBAR
Recommended Action	No action is required.

%STILE_CLIENT-4-NBAR_ACTIVATION_FAILED : NBAR activation process has failed with errcode [dec].

Explanation	Activation of NBAR has failed. the cause is provided through the error code from cernno.h
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%STILE_CLIENT-4-NBAR_ACTIVATION_FAILED : NBAR activation process has failed with errcode [dec].

Recommended Action No action is required.

%STILE_CLIENT-4-NBAR_GENERAL_FAILED : An error occurred, with errcode [dec].

Explanation An error occurred, will not handle the messages, wait for deactivate the cause is provided through the error code from cernno.h

Recommended Action No action is required.

STILE_PROXY

%STILE_PROXY-3-IPC_OPEN_REPLY : IPC Open Reply failed, request [int]

Explanation For a request from upper STILE software stack layers it was not possible to open the reply buffer. The consequence of this could be a stuck binding that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_ACTION

%STILE_PROXY-3-IPC_NORES : No space for the IPC reply, size [int]

Explanation For a request from upper STILE software stack layers it was not possible to allocate space for a reply for the specified size. The consequence of this could be a stuck binding that cannot be established etc. In rare cases this could also affect other operations such as feature activation.

Recommended Action This is normally a software issue. LOG_STD_ACTION

%STILE_PROXY-3-IPC_UNHANDLED : type [dec]

Explanation An unknown message was received by the STILE Client Proxy.

Recommended Action LOG_STD_ACTION

%STILE_PROXY-3-SLINK_MEM_REQ_FAILED :

Explanation IPC Failure occurred when attempting to request more stile link memory.

Recommended Action LOG_STD_ACTION

%STILE_PROXY-3-PROXY_SLINK_MEM_EXTEND_FAILED :

Explanation Increasing of stile slink pool failed.**Recommended Action** LOG_STD_ACTION

%STILE_PROXY-3-PROXY_IPC_SEND_FAILED : IPC send msg for [chars] [dec] failed

Explanation IPC failed to reply**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

STP_ISSU

%STP_ISSU-2-INIT : STP ISSU client initialization failed to [chars]. Error: [dec] ([chars])

Explanation The STP ISSU client could not be initialized. This initialization failure must be addressed before in-service software upgrade or downgrade can be performed successfully. If you do not address this failure, there will be downtime during software upgrade or downgrade.**Recommended Action** Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STP_ISSU-3-TRANSFORM_FAIL : STP ISSU client [chars] transform failed for 'Message Type [dec]'. Error: [dec] ([chars])

Explanation The STP ISSU client could not transform the specified message type. If the transmit transformation failed, the checkpoint message was not sent to the standby device. If the receive transformation failed, the checkpoint message was not applied on the standby device. In both cases, the STP state between the active device and the standby device is not identical.**Recommended Action** LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated version <session_id>)

%STP_ISSU-3-MSG_NOT_OK : STP ISSU client 'Message Type [dec]' is not compatible

Explanation	The STP ISSU client received an incompatible message from the peer device. The message cannot be processed.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%STP_ISSU-3-MSG_SIZE : STP ISSU client failed to get the MTU for Message Type [dec]. Error: [dec] ([chars])

Explanation	The STP ISSU client failed to calculate the MTU for the specified message. The STP ISSU client is not able to send the message to the standby device.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu message group <client_id> and show issu session <client_id> and show issu negotiated version <session_id>)

%STP_ISSU-3-INVALID_SESSION : STP ISSU client does not have a valid registered session.

Explanation	STP ISSU client does not have a valid registered session.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%STP_ISSU-2-SESSION_REGISTRY : STP ISSU client failed to register session information. Error: [dec] ([chars])

Explanation	The STP ISSU client failed to register session information. If a problem occurs with the ISSU session registration, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%STP_ISSU-3-SESSION_UNREGISTRY : STP ISSU client failed to unregister session information. Error: [dec] ([chars])

Explanation	The STP ISSU client failed to unregister session information.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%STP_ISSU-2-SESSION_NEGO : STP ISSU client encountered unexpected client nego_done. Error: [dec] ([chars])

Explanation	An ISSU-compliant client transitions through a series of internal states. The STP ISSU client encountered a 'client negotiation done' state that was unexpected. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id> and show issu negotiated capability <session_id>)

%STP_ISSU-2-SEND_NEGO_FAILED : STP ISSU client failed to send negotiation message. Error: [dec] ([chars])

Explanation	The STP ISSU client failed to send a session negotiation message to the peer device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%STP_ISSU-2-SESSION_ARBITRATE : STP ISSU client failed to register arbitrate callback. Error: [dec] ([chars])

Explanation	The STP ISSU client failed to register arbitrate callback. If a problem occurs with the callback registration, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%STP_ISSU-2-GET_BUFFER : STP ISSU client failed to get buffer for message. Error: [dec] ([chars])

Explanation	STP ISSU client failed to get buffer space for building a negotiation message. A negotiation message cannot be sent to the standby device. If a problem occurs with the ISSU session negotiation, the standby device cannot be brought up properly.
Recommended Action	LOG_STD_SH_CMD_ACTION(show logging and show checkpoint client)

%STP_ISSU-3-INVALID_CAPABILITY : STP ISSU client: invalid capability list

Explanation	STP ISSU client observed an error during capability negotiaiton. When this error happens there is a mismatch in the client capability between the active and standby unit.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%STP_ISSU-3-REJECTED_CAPABILITY : STP ISSU client rejected capability '[chars]'

Explanation	STP ISSU client rejected a capability during negotiaiton. When this error happens there is a mismatch in the client capability between the active and standby unit.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%STP_ISSU-3-REJECTING_CAPABILITY : STP ISSU client rejecting capability '[chars]'

Explanation	STP ISSU client is rejecting a capability during negotiaiton. When this error happens there is a mismatch in the client capability between the active and standby unit.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu capability entries <client_id> and show issu session <client_id> and show issu negotiated capability <session_id>)

%STP_ISSU-3-POLICY_NOT_SUPPORTED : STP ISSU client does not support Message Type [dec]

Explanation	STP ISSU client received an message type which it does not support. The policy is applied to make the session incompatible.
Recommended Action	LOG_STD_SH_CMD_ACTION(show issu session <client_id>)

STUN through SYS

- STUN
- SUBSYS
- SWITCH
- SWITCH_L2M
- SWPORT
- SWPORT_PROXY
- SW_MATM
- SW_MGR
- SW_VLAN
- SYS

STUN

%STUN-4-DUPROUTE : Cannot define duplicate route on the same group

Explanation This route command is defined on another interface belonging to the same group. Cannot define duplicate route on the same group

Recommended Action Consider defining a new group and moving this interface onto that group

%STUN-4-PEERSTATE : Peer [chars], wrong state [dec] ([dec])

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%STUN-3-BADMAGIC : [chars]: wrong magic, mine [hex], theirs [hex] ([dec])

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%STUN-3-BADMAGICTCP : [chars]: peer [chars], wrong magic, mine [hex], theirs [hex]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%STUN-3-BADLENOP : [chars]: bad len or unknown op, op [dec], len [dec]

Explanation An internal software error occurred.

%STUN-3-BADLENOP : [chars]: bad len or unknown op, op [dec], len [dec]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STUN-6-TCPPEERSHUT : [chars] [chars], [IP_address]([dec])

Explanation This route closed a STUN connection with a remote peer.

Recommended Action Examine this router to see why it closed this connection with this peer. (This can be caused by normal events, such as reconfiguration.)

%STUN-3-CONNILLSTATE : CONN: Peer [chars], illegal state [dec]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STUN-3-BADCONN : CONN: bad connection ([dec]), peer: [chars]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STUN-4-ERR : [chars]: [chars]: [chars], op [hex], len [dec]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STUN-3-SENDPUNT : [chars]: sent [chars] to [chars]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%STUN-3-SENDPUNTTCP : [chars]: sent [chars] to ([[int]])IP_address]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%STUN-6-OPENING : CONN: opening peer [chars], [dec]

Explanation	A connection attempt to a remote peer completed successfully (OPENED, PASSIVE-OPEN) or is in the process of being opened (OPENING). This is good, expected behavior.
Recommended Action	No action is required.

%STUN-6-CONNOPENFAIL : CONN: peer [chars] open failed, [chars] [[int]]

Explanation	An attempt to connect to a remote TCP STUN peer failed.
Recommended Action	Verify that the remote peer is accessible from this router, that it is running software capable of supporting STUN, and that it is configured correctly.

%STUN-3-BADPASSIVEOPEN : passive open from [IP_address]([dec]) -> [dec] failed

Explanation	An internal software error occurred.
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%STUN-3-BADPASSIVEOPEN : passive open from [IP_address]([dec]) -> [dec] failed

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%STUN-6-PASSIVEOPEN : passive open [IP_address]([dec]) -> [dec]

Explanation A connection attempt to a remote peer completed successfully (OPENED, PASSIVE-OPEN) or is in the process of being opened (OPENING). This is good, expected behavior.

Recommended Action No action is required.

%STUN-6-TCPFINI : peer [chars] closed [previous state [chars]]

Explanation A remote peer closed a STUN connection with this router.

Recommended Action Examine the other router to see why it closed this connection with this peer. (This can be caused by normal events, such as reconfiguration.)

%STUN-6-PEERSHUTDOWN : shutting down peer [chars] on [chars]

Explanation A connection to a remote peer is being shut down. This is typically the result of user intervention in STUN reconfiguration or disabling. This is good, expected behavior.

Recommended Action No action is required.

%STUN-6-OPENED : [chars]: peer [chars] opened, [previous state [chars]]

Explanation A connection attempt to a remote peer completed successfully (OPENED, PASSIVE-OPEN) or is in the process of being opened (OPENING). This is good, expected behavior.

Recommended Action No action is required.

%STUN-3-NOINPIDB : Input idb not set

Explanation A software or hardware error occurred.

%STUN-3-NOINPIDB : Input idb not set

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%STUN-6-RECONNECT : PHDR: reconnect from peer [chars]

Explanation	A remote peer reestablished a connection to this router.
Recommended Action	No action is required.

%STUN-2-NOBUF : Interface [chars], no buffer available to [chars]

Explanation	A memory shortage existed at the time that the configuration command was issued. This condition is rare and, under normal conditions, temporary.
Recommended Action	Reconfigure the STUN group. If memory shortages persist, call your Cisco technical support representative for assistance.

%STUN-2-NOTGI : Please remove and redefine protocol group [dec]

Explanation	An internal error occurred. The configuration is irregular.
Recommended Action	Remove and reconfigure the STUN protocol group. Record the configuration and call your Cisco technical support representative for assistance.

%STUN-2-NOMEMORY : No memory available: [chars]

Explanation	The requested operation failed because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

SUBSYS

%SUBSYS-2-BADVERSION : Bad subsystem version number ([dec]) - ignoring subsystem

Explanation	A software consistency check failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-2-MISMATCH : Kernel and subsystem version differ ([dec].[dec]) - ignoring subsystem

Explanation	A software consistency check failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-2-BADCLASS : Bad subsystem class ([dec]) - ignoring subsystem

Explanation	A software consistency check failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-2-BADSEQUENCE : Subsystem ([chars]) has cross-class sequence for ([chars])

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-2-RECURSION : Maximum sequence depth exceeded ([dec]) by ([chars])

Explanation	A software or hardware error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-2-NOTFOUND : Subsystem ([chars]) needs subsystem ([chars]) to start

Explanation	A software consistency check failed.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-3-PAGEZERO : The [chars] class subsystem [chars] was being initialized.

Explanation	In all Cisco products the first 256 bytes of memory is unused and off limits. Newer platforms have hardware to immediately trap reads or writes to this area. Older platforms periodically perform checks on this memory. This message appears only on older platforms and indicates that this off limits memory area was modified.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%SUBSYS-3-NOAPIHOOK : The API [chars] has no lookup hook for subsystems.

Explanation This process uses the named API, but the process initialization code could not find the subsystem-initialization hook for this API. Process initialization cannot proceed without all hooks being present.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative, along with output from 'show tech'.

%SUBSYS-3-UNORDERED : The subsys class [dec]([chars]) has no initialization order.

Explanation The specified class subsystem has an unknown initialization order.

Recommended Action Copy the error message exactly as it appears, and report it to your technical support representative, along with output from 'show tech'.

%SUBSYS-4-MALLOC : Class [chars], subsys [chars], bytes [int], malloc [dec]

Explanation This message is only for tracking malloc/free in a subsys init.

Recommended Action For development debugging only.

SWITCH

%SWITCH-1-NOMEMORY : msgtxt_nomemory

Explanation The CPU was unable to access the memory it needs to carry out its functions. Here are some possible causes. The network is large, requiring a lot of memory for routing tables, and so on. The router configuration has many features enabled, each of which require a certain amount of memory. A software error (memory leak) exists.

Recommended Action Reduce system activity to ease the memory demand, or upgrade to a larger memory configuration.

SWITCH_L2M

%SWITCH_L2M-3-INIT_FAILED : Initialization of the SVI feature in QFP failed

Explanation Initialization of the SWITCH_L2M feature in the QFP failed. This indicates a software failure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWITCH_L2M-3-ALLOC_FAILED : Allocation of [chars] memory failed for SWITCH_L2M feature in QFP

Explanation	Allocation of memory by the QFP SWITCH_L2M feature microcode failed. The name of the memory chunk is specified in the message. This indicates a software failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWITCH_L2M-3-PKT_REPLICA_INIT_FAILED : Failed to register with generic packet replication for SWITCH_L2M feature in QFP

Explanation	SWITCH_L2M initialization of packet replication registration failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SWPORT**%SWPORT-3-INIT_FAILED : Initialization of the SWPORT feature in QFP failed**

Explanation	Initialization of the SWPORT feature in the QFP failed. This indicates a software failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWPORT-3-ALLOC_FAILED : Allocation of [chars] memory failed for SWPORT feature in QFP

Explanation	Allocation of memory by the QFP SWPORT feature microcode failed. The name of the memory chunk is specified in the message. This indicates a software failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SWPORT_PROXY**%SWPORT_PROXY-3-SWPORT_MEM_REQ_FAILED : SWPORT IPC subtype: [dec]**

Explanation	Requesting more memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWPORT_PROXY-3-SWPORT_MEM_EXTEND_FAILED : SWPORT IPC subtype: [dec]

Explanation	Extending memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWPORT_PROXY-4-PROXY_INVALID_MSG_LEN : QFP SWPORT Proxy IPC invalid length, [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation	Cisco internal software error. QFP SWPORT Proxy received invalid IPC message length from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWPORT_PROXY-4-PROXY_INVALID_MSG : QFP SWPORT Proxy received invalid message type [dec]

Explanation	Cisco internal software error. QFP SWPORT Proxy received an invalid message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWPORT_PROXY-2-PROXY_IPC_INIT_FAILED : QFP SWPORT Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP SWPORT Proxy initialization detected that the IPC interface initialization failed. QFP SWPORT proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWPORT_PROXY-3-PROXY_BAD_MSG : QFP SWPORT Proxy received bad length message type [dec]

Explanation	Cisco internal software error. QFP SWPORT Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWPORT_PROXY-3-PROXY_IPC_ALLOC_FAILED : QFP SWPORT Proxy [chars] message lost due to message buffer allocation failure.

Explanation	Cisco internal software error. QFP SWPORT Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SWPORT_PROXY-3-PROXY_IPC_SEND_FAILED : QFP SWPORT Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation	Cisco internal software error. QFP SWPORT Proxy message processing detected a message sent failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

SW_MATM

%SW_MATM-4-MACFLAP_NOTIF : Host [enet] in [chars] [dec] is flapping between port [chars] and port [chars]

Explanation The system has found the specified host moving between the specified ports.

Recommended Action Check the network for possible loops.

%SW_MATM-4-WIRELESS_MAC_MOVE_NOTIF : Host [enet] moving from Port [chars] to Port [chars] as wireless entry

Explanation The system has found the specified host moving between the specified ports. The host transitioned from wired to wireless.

Recommended Action Check that this move does not happen too often

%SW_MATM-4-WIRELESS_MAC_MOVE_DENY_NOTIF : Host [enet] moving from Port [chars] to Port [chars] as wired entry not allowed

Explanation The system has found the specified host moving between the specified ports. The host transition from wireless to wired not allowed.

Recommended Action Check that this move does not happen too often

SW_MGR

%SW_MGR-3-INVALID_HANDLE : Segment Manager Error - Invalid [chars] handle - [dec].

Explanation A Connection Manager error occurred due to a invalid handle.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_MGR-3-INVALID_SEGMENT : Segment Switch Manager Error - Invalid segment - [chars].

Explanation A Segment Switch Manager error occurred due to a invalid segment.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_MGR-3-CM_ERROR_CLASS : Connection Manager Error: Class [chars]: - [chars].

Explanation	A Segment Switch Connection Manager error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_MGR-3-CM_ERROR : Connection Manager Error - [chars].

Explanation	A Segment Switch Connection Manager error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_MGR-3-SM_ERROR : Segment Manager Error - [chars].

Explanation	A Segment Manager error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_MGR-3-FHM_ERROR : SSM Feature Handler Manager Error - [chars].

Explanation	A Feature Handler Manager error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_MGR-3-CM_ERROR_FEATURE_CLASS : Connection Manager Feature Error: Class [chars]: ([chars]) - [chars].

Explanation	A Segment Switch Connection Manager feature error occurred.
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%SW_MGR-3-CM_ERROR_FEATURE_CLASS : Connection Manager Feature Error: Class [chars]: ([chars]) - [chars].

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_MGR-3-CM_ERROR_FEATURE : Connection Manager Feature Error: ([chars]) - [chars].

Explanation A Segment Switch Connection Manager feature class error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_MGR-3-SSM_SEG_ISSU : SSM Segment ISSU: [chars] not supported.

Explanation ISSU of this SSM Segment is not supported.

Recommended Action No action is required.

%SW_MGR-3-XDRREGISTRATION : XDR failed to register [chars] client due to [chars]

Explanation Failure to register the said XDR client.

Recommended Action No action is required.

SW_VLAN

%SW_VLAN-6-VTP_MODE_CHANGE : VLAN manager changing device mode from [chars] to [chars].

Explanation Some switch devices must automatically change VTP device modes upon receipt of a VLAN configuration database containing more than a set number of VLANs, depending on the device. This message indicates that such a spontaneous conversion has occurred, what the previous mode was, and what the current mode is.

Recommended Action No action is required.

%SW_VLAN-6-VTP_DOMAIN_NAME_CHG : VTP domain name changed to [chars].

Explanation The VTP domain name was changed through configuration to the name specified in the message. A management domain is the naming scope of a VLAN name. Each VLAN has a name that is unique within the management domain.

Recommended Action No action is required.

%SW_VLAN-4-VTP_FLOOD_ERROR : Primary server request failedPrimary server can only change once every [dec] seconds

Explanation VTP takeover packet received within takeover rate limit

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-VTP_INTERNAL_ERROR : VLAN manager received an internal error [dec] from vtp function [chars]: [chars]

Explanation An unexpected error code was received by the VLAN Manager from the VTP configuration software.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-VTP_INVALID_DATABASE_DATA : VLAN manager received bad data of type [chars]: value [dec] from vtp database function [chars]

Explanation Invalid data was received by the VLAN Manager from a VTP configuration database routine.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-NO_PM_COOKIE_RETURNED : VLAN manager unexpectedly received a null [chars] type cookie from the Port Manager, data reference: [chars]

Explanation	The VLAN manager queried the Port Manager for a reference cookie but received a NULL pointer instead.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-BAD_PM_VLAN_COOKIE_RETURNED : VLAN manager unexpectedly received a bad PM VLAN cookie from the Port Manager, VLAN indicated: [dec]

Explanation	The VLAN manager received an upcall from the Port Manager containing a VLAN cookie which translated to a bad VLAN number.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-VTP_INVALID_EVENT_DATA : VLAN manager received bad data of type [chars]: value [dec] while being called to handle a [chars] event

Explanation	Invalid data was received by the VLAN Manager from the VTP configuration software.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-3-VTP_PROTOCOL_ERROR : VTP protocol code internal error: [chars]

Explanation	VTP protocol code encountered an unexpected error will processing configuration request, packet, or timer expiration.
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%SW_VLAN-3-VTP_PROTOCOL_ERROR : VTP protocol code internal error: [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-VTP_USER_NOTIFICATION : VTP protocol user notification: [chars]

Explanation VTP protocol code encountered an unusual diagnostic situation which the user should be made aware of.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-IFS_FAILURE : VLAN manager encountered file operation error: call = [chars] / file = [chars] / code = [dec] ([chars]) / bytes transfered = [dec]

Explanation The VLAN manager received an unexpected error return from a IOS file system call.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-BAD_VLAN_CONFIGURATION_FILE : VLAN configuration file contained incorrect verification word: [hex]

Explanation The VLAN configuration file read by the VLAN manager did not begin with correct value which would indicate a valid VLAN configuration file. Thus, it has been rejected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-BAD_VLAN_CONFIGURATION_FILE_VERSION : VLAN configuration file contained unknown file version: [dec]

Explanation The VLAN configuration file read by the VLAN manager contained an unrecognized file version number. (This may indicate an attempt to regress to an older version of the VLAN manager software.)

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-BAD_VLAN_DOMAIN_NAME_LENGTH : VLAN configuration file contained incorrect domain name length: [int]

Explanation The VLAN configuration file read by the VLAN manager did not contain a valid domain name length. Thus, it has been rejected.

Recommended Action Please provision VTP domain name again

%SW_VLAN-4-BAD_VLAN_PASSWORD_LENGTH : VLAN configuration file contained incorrect VTP password length: [int]

Explanation The VLAN configuration file read by the VLAN manager did not contain a valid VTP password length. Thus, it has been rejected.

Recommended Action Please provision VTP password again

%SW_VLAN-4-BAD_VLAN_TIMER_ACTIVE_VALUE : Encountered incorrect VLAN timer active value: [chars]

Explanation Due to a software error, a VLAN timer was detected active when it should have been inactive or inactive when it should have been active.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-3-VLAN_PM_NOTIFICATION_FAILURE : VLAN Manager synchronization failure with Port Manager over [chars]

Explanation Due to lack of ready pool space, the VLAN manager dropped a notification from the Port Manager as indicated by the message.

%SW_VLAN-3-VLAN_PM_NOTIFICATION_FAILURE : VLAN Manager synchronization failure with Port Manager over [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-6-OLD_CONFIG_FILE_READ : Old version [dec] VLAN configuration file detected and read OK. Version [dec] files will be written in the future.

Explanation VLAN software detected an old version of the VLAN configuration file format. It was able to interpret the file with no problems but will create files using the new format in the future.

Recommended Action No action is required.

%SW_VLAN-4-BAD_STARTUP_VLAN_CONFIG_FILE : Failed to configure VLAN from startup-config. Fallback to use VLAN configuration file from non-volatile memory

Explanation VLAN software failed to use VLAN configuration from startup-config file. It will fallback to use the binary VLAN configuration file in non-volatile memory.

Recommended Action No action is required.

%SW_VLAN-4-EXT_VLAN_INTERNAL_ERROR : Extended VLAN manager received an internal error [dec] from [chars]: [chars]

Explanation An unexpected error code was received by the VLAN Manager from the extended VLAN configuration software.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-EXT_VLAN_INVALID_DATABASE_DATA : Extended VLAN manager received bad data of type [chars]: value [dec] from function [chars]

Explanation Invalid data was received by the extended VLAN Manager from an extended VLAN configuration database routine.

%SW_VLAN-4-EXT_VLAN_INVALID_DATABASE_DATA : Extended VLAN manager received bad data of type [chars]: value [dec] from function [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-VLANMGR_INVALID_DATABASE_DATA : VLAN MANAGER received bad data of type [chars]: value [dec] from function [chars]

Explanation Invalid data was received by the VLAN MANAGER from a VLAN configuration database routine.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-VLAN_CREATE_FAIL : Failed to create VLANs [chars]: [chars]

Explanation The VLANs specified in the error message could not be created. The VLAN manager called an VLAN database routine to create one or more VLANs, but the Port Manager failed the VLAN creation requests. A possible cause of this error is that the VLANs already exist in the Port Manager as internal VLANs.

Recommended Action Check the internal VLAN usage using 'show vlan internal usage' command. Unconfigure the feature which occupies the internal VLAN and retry the VLAN creation operation.
LOG_STD_SH_TECH_ACTION

%SW_VLAN-4-STARTUP_EXT_VLAN_CONFIG_FILE_FAILED : Failed to configure extended range VLAN from startup-config. Error [chars]

Explanation VLAN software failed to use extended VLAN configuration from startup-config file. All extended range VLANs configuration will be lost after system boot up.

Recommended Action No action is required.

%SW_VLAN-4-VTP_SEM_BUSY : VTP semaphore is unavailable for function [chars]. Semaphore locked by [chars]

Explanation The VTP database is currently locked by another task and is not available. Users should retry the operation sometime later.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-3-MALLOC_FAIL : Failed to allocate [dec] bytes

Explanation Memory allocation failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-6-VLAN_DAT_CACHE_EXISTS : Unexpected vlan.dat cache exists. Removing the cache and continuing the sync with new set.

Explanation Although we do not expect to see this message ever, the switch continues to work properly even after encountering this situation. Please report it to Customer Support.

Recommended Action No action is required.

%SW_VLAN-3-VLAN_DAT_CACHE_SEQUENCE : Out of sequence vlan.dat sync message. Expected: [dec]; received: [dec].

Explanation vlan.dat file is synced to the STANDBY via one or more checkpoint message from ACTIVE. The sequence number for each such set of checkpoint messages starts with 1. These messages are cached at the STANDBY till the end-of-set indication is received. Here, the STANDBY received a checkpoint message with a sequence number that does not match the expected sequence number. Please report it to Customer Support.

%SW_VLAN-3-VLAN_DAT_CACHE_SEQUENCE : Out of sequence vlan.dat sync message. Expected: [dec]; received: [dec].

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-3-VLAN_DAT_CACHE_SIZE_EXCEED : Data exceeds allocated size. Offset: [dec]; data_size: [dec]; allocated: [dec]

Explanation vlan.dat file is synced to the STANDBY via one or more checkpoint message from ACTIVE. The sequence number for each such set of checkpoint messages starts with 1. These messages are cached at the STANDBY till the end-of-set indication is received. Here, the STANDBY received a checkpoint message with a size that does not fit the size of cache specified in the checkpoint message with sequence number 1. Please report it to Customer Support.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%SW_VLAN-4-VTP_PRIMARY_SERVER_CHG : [enet] has become the primary server for the [chars] VTP feature

Explanation The primary server status has changed and the indicated device has become the primary server for the indicated VTP feature.

Recommended Action No action is required.

%SW_VLAN-4-VTP_DB_SIZE_CHECK_FAILED : The [chars] VTP database of length [dec] cannot be supported by the system

Explanation The VTP database size is more than what the system can support.

Recommended Action Reduce the database size by decreasing the configuration parameters, example, reduce the size of vlan-names

%SW_VLAN-3-IIF_ID_ALLOC_FAILED : IIF_ID alloc failed for vlan [dec] due to memory allocation failure. Some features will not work.

Explanation	The system is low on memory due to which IIF-ID allocation failed. This results in failure to apply polices such as QoS and Security acls on this vlan.
Recommended Action	LOG_STD_REDUCE_ACTION Once memory is available, shutdown the vlan and then unshut the vlan

%SW_VLAN-3-IIF_ID_REGISTRATION_FAILED : IIF_ID registration failed for vlan [dec] due to memory allocation failure. Some features will not work. Vlan has been shutdown

Explanation	The system is low on memory due to which IIF-ID registration failed. This results in failure to apply polices such as QoS and Security acls on this vlan. If vlan exists, it is shutdown. If vlan doesn't exist, then it will be shutdown when it is created.
Recommended Action	LOG_STD_REDUCE_ACTION Once memory is available, run 'no shutdown' on the vlan

SYS

%SYS-1-CISCOPRO : CiscoPro hardware requires CiscoPro software.

Explanation	The CiscoPro hardware platforms require the use of CiscoPro specific software. Other software images from Cisco Systems will not function on this hardware
Recommended Action	Obtain the appropriate CiscoPro software for your hardware.



CHAPTER 8

SYSHW through ZONE

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SYSHW through TENSRRFSM

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SYSHW

%SYSHW-3-SYSHW_READ : A read operation has failed for device: [chars] error: [chars]

Explanation A syshw read operation failed for the mentioned device

%SYSHW-3-SYSHW_READ : A read operation has failed for device: [chars] error: [chars]

Recommended Action	The error message indicates a read failure for the device. No action is needed from the user. However, if these errors come continuously or frequently, it may indicate permanent fault with the specific device/component.
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%SYSHW-3-SYSHW_WRITE : A write operation has failed for device: [chars] error: [chars]

Explanation	A syshw write operation failed for the mentioned device
Recommended Action	The error message indicates a write failure for the device. No action is needed from the user. However, if these errors come continuously or frequently, it may indicate a permanent fault with the specific device/component.

%SYSHW-3-SYSHW_REG_READ : A register read operation has failed for device: [chars] register: [chars] error: [chars]

Explanation	A syshw register read operation failed for the mentioned device
Recommended Action	The error message indicates a read failure for the device. No action is needed from the user. However, if these errors come continuously or frequently, it may indicate permanent fault with the specific device/component.

%SYSHW-3-SYSHW_REG_WRITE : A register write operation has failed for device: [chars] register: [chars] error: [chars]

Explanation	A syshw register read operation failed for the mentioned device
Recommended Action	The error message indicates a read failure for the device. No action is needed from the user. However, if these errors come continuously or frequently, it may indicate permanent fault with the specific device/component.

SYSPLAT

%SYSPLAT-5-PLIM_BLOCK_EVENT : Block [chars]/[dec] of PLIM device had I/O event [hex]

Explanation	A PLIM device I/O event has occurred. This event is not serious but is logged for diagnostic purposes.
Recommended Action	No user action is required.

%SYSPLAT-3-PLIM_BRIDGE_CRITICAL_ERROR : Reloading [chars] due critical event [hex] in block [chars]/[dec] of PLIM device

Explanation	A critical PLIM device I/O event has occurred.
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%SYSPLAT-3-PLIM_BRIDGE_CRITICAL_ERROR : Reloading [chars] due critical event [hex] in block [chars]/[dec] of PLIM device

Recommended Action The system automatically reloads the hardware component experiencing the error. If the problem persists, copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.

%SYSPLAT-5-PLIM_EVENT_RATE : The [chars] event rate of [int] has exceeded the threshold of [int] on interconnect [dec]

Explanation A Serial Bridge has experienced a high event rate. This condition is not considered serious, but is logged for diagnostic purposes. This could be due to a hardware or software driver defect.

Recommended Action No user action is required. If this message persists, a PLIM device critical message that needs to be addressed will appear.

%SYSPLAT-3-PLIM_CRITICAL_ERROR_RATE : Reloading [chars] due to critically high PLIM device error rate.

Explanation A Serial Bridge has experienced a persistently high error rate. The condition is serious and the card must be reloaded. This could be due to a hardware or software driver defect.

Recommended Action Copy the message exactly as it appears on the console or in the system log, collect the output of show tech-support and any other relevant logs, and contact your Cisco technical support representative.

TAC

%TAC-6-SENDTMO : Send type [dec] to [IP_address] timed out

Explanation A background TACACS notification (enabled with the command tacacs notify) was not acknowledged by the TACACS server processor within the timeout period (5 minutes). The information contained in that notification was lost. This loss of information may interfere with accounting or auditing on the server. This condition arises when the TACACS server is misconfigured, crashed, or became unreachable via the network.

Recommended Action Check the TACACS server and the network attached to it.

%TAC-4-UNEXREP : Reply for non-existent request, [dec] on queue

Explanation The TACACS facility received a message it was not expecting. This may occur when a TACACS server sends duplicate responses or when it responds to a request that has already timed out. It also may be due to an internal software problem.

Recommended Action If this message recurs, call your technical support representative for assistance.

%TAC-3-XTACACL : [chars]: accesslist [hex] out of range for [chars]

Explanation The TACACS facility created a message that contains an accesslist which is not a valid accesslist (out of bounds).

Recommended Action If this message recurs, call your technical support representative for assistance.

%TAC-4-NOTIMEOUT : Warning: This command has been deprecated in favor of the line-command timeout login response

Explanation This command is deprecated, and should no longer be used. Instead, the line-command `timeout login response` now provides this functionality

Recommended Action Use the line-command `timeout user-response`

%TAC-3-PICKCTX : No pick-context

Explanation The context to pick the next server has disappeared.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TAC-4-SERVREF : Warning: Server [chars]:[dec] is still referenced by server group.

Explanation The server being removed is still referenced by a server group

Recommended Action Please dereference the server from the server group as soon as possible.

%TAC-4-SERVREFNAME : Warning: Server [chars] is still referenced by server group.

Explanation The server being removed is still referenced by a server group

%TAC-4-SERVREFNAME : Warning: Server [chars] is still referenced by server group.

Recommended Action Please dereference the server from the server group as soon as possible.

%TAC-3-SERVNO : Server [chars] is not configured

Explanation The server is not configured

Recommended Action Please configure a server before un-configuring it

%TAC-6-SERVDEP : tacacs-server host CLI will be deprecated soon. Please move to tacacs server <name> CLI

Explanation Migration from tacacs-server host CLI to tacacs server <name> CLI

Recommended Action Please try to use new CLI

%TAC-3-SERVCONF : Server config failure: [chars]

Explanation The server configuration failed

Recommended Action Please configure the server properly

%TAC-3-SERVINT : [chars]

Explanation This is an internal software error.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TAC-3-SECRETDEFINEFAILED : Key definition ignored.

Explanation The user is attempting to store either a corrupted shared secret or memory allocation failed during secret definition. Any existing shared secret will be preserved.

Recommended Action Configure a proper secret.

TAGMGR_DB_SYSLOG

%TAGMGR_DB_SYSLOG-3-TAGMGR_RF_TAG_CREATE_ERROR : Failure during RF tag [chars] creation, could not add to rf profile tag list

Explanation	Failed to add RF tag to RF profile tag list
Recommended Action	Please delete the RF tag and configure again

TAR_FS

%TAR_FS-3-IMAGE_FILE_INVALID : [chars] file not found in archive

Explanation	The Tar File System could not locate the relevant tar element inside the archive
Recommended Action	Check whether the Archive is complete and not corrupted or of the wrong format. If the problem could be recreated with debug ifs file turned on, it could help in quick identification of the problem. Collect the output of archive tar /table archive-name if it is a pure tar archive or show image contents file archive-name if the archive is a system image

TCP

%TCP-3-TCP_REG_FAILED : QFP TCP registers failed

Explanation	Cisco internal software error. QFP TCP feature initialization detected that registration failed. QFP TCP will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

TCP_PROXY

%TCP_PROXY-2-PROXY_IPC_INIT_FAILED : QFP TCP Proxy IPC initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP TCP Proxy initialization detected that the IPC interface initialization failed. QFP TCP proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TCP_PROXY-3-PROXY_BAD_MSG : CPP TCP Proxy received bad length message type [dec]

Explanation	Cisco internal software error. CPP TCP Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TCP_PROXY-3-PROXY_INV_MSG : CPP TCP Proxy received invalid message type [dec]

Explanation	Cisco internal software error. CPP TCP Proxy received an invalid message type from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TCP_PROXY-3-PROXY_IPC_CHUNK_FAILED : CPP TCP Proxy chunk memory failure [dec]

Explanation	Cisco internal software error. QFP TCP Proxy chunk memory allocation detected failure. QFP TCP proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TCP_PROXY-3-PROXY_IPC_ALLOC_FAILED : CPP TCP Proxy [chars] message lost due to message buffer allocation failure.

Explanation	Cisco internal software error. CPP TCP Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TCP_PROXY-3-PROXY_IPC_SEND_FAILED : CPP TCP Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation	Cisco internal software error. CPP TCP Proxy message processing detected a message sent failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TCP_PROXY-3-PROXY_DEBUG_REG_FAILED :

Explanation	TCP Conditional Debugging registration failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

TDLDB

%TDLDB-3-SESSION_LOCK_TIMEOUT : Owner: user-proc: [chars], DB: [chars]. Lock expired [chars] ago.

Explanation	An application running in a process wishes to have an exclusive write access to DB. It acquires a session lock with for a specific period and is expected to release or renew the session lock. The application has failed to do so and hence the unexpected timeout has occurred
Recommended Action	This is unexpected. Report this to Cisco TAC.

TELNETD

%TELNETD-3-ISSUE_FILE_OPEN : Error opening login banner: [chars]

Explanation	An error has occurred opening the login banner. It could not be displayed to a user connecting via telnet.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

TENSFRFSM**%TENSFRFSM-3-NULLMACH : Invalid machine pointer [hex]**

Explanation	state machine invalid pointer
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TENSFRFSM-3-INVSTATE : Invalid current state [hex]

Explanation	state machine invalid state
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TENSFRFSM-3-INVEVENT : Invalid event_id [hex]

Explanation	state machine invalid event
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TENSFRFSM-3-INVTRANS : obj: [[hex]] event_id: [[hex]] er_p: [[hex]] arg: [[hex]] session state [chars] -> [chars]

Explanation	state machine invalid transition
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TENSFRFSM-3-NOEVENT : Unable to apply event [hex]

Explanation	state machine transition failure
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%TENSRRFSM-3-NOEVENT : Unable to apply event [hex]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%TENSRRFSM-3-NOPROCID : Unable to launch TE NSR FSM Process.

Explanation	state machine transition process launch failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

THREAT_DEFENSE through TRACK

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- [TPLUS](#)
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THREAT_DEFENSE

%THREAT_DEFENSE-3-VTCP_INIT_FAILED :

Explanation	Initialization of VTCP failed.
Recommended Action	LOG_STD_ACTION

%THREAT_DEFENSE-3-DESTROY_CHUNK_FAILED :

Explanation	Destroy chunk failed.
Recommended Action	LOG_STD_ACTION

%THREAT_DEFENSE-4-TD_ERM_AVERAGE_THREAT : Event Rate Monitoring: Average threat identified. Zone [[chars]], event type [[chars]], average [[dec]] configured threshold [[dec]]

Explanation	Event Rate Monitoring: Average threat identified
Recommended Action	LOG_STD_ACTION

%THREAT_DEFENSE-4-TD_ERM_BURST_THREAT : Event Rate Monitoring: Burst threat identified. Zone [[chars]], event type [[chars]], configured threshold [[dec]]

Explanation	Event Rate Monitoring: Burst threat identified
Recommended Action	LOG_STD_ACTION

THREAT_DEFENSE_PROXY

%THREAT_DEFENSE_PROXY-3-PROXY_MEM_EXTEND_FAILED :

Explanation	Extending memory failed.
Recommended Action	LOG_STD_ACTION

%THREAT_DEFENSE_PROXY-4-PROXY_IPC_INVALID_MSG_LEN : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation	Invalid IPC message length.
Recommended Action	LOG_STD_ACTION

%THREAT_DEFENSE_PROXY-4-PROXY_IPC_INVALID_MSG : [dec]

Explanation	Invalid IPC message
Recommended Action	LOG_STD_ACTION

%THREAT_DEFENSE_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]

Explanation IPC handler initialization failed.**Recommended Action** LOG_STD_ACTION

TIME

%TIME-3-HB_SEQ_FAIL : expected seq_num [hex], rcvd seq_num [hex], MSGDEF_LIMIT_MEDIUM

Explanation The timer services had exceeded the maximum number of timer heartbeat sequence number errors.**Recommended Action** LOG_STD_ACTION

%TIME-2-TIMESTAMP_BAD_CLOCK : [int]

Explanation Unsupported PPE core clock frequency.**Recommended Action** LOG_STD_ACTION

%TIME-2-HB_START_FAILED : timer services failed to start

Explanation The timer services could not be started, because GPM allocation failed**Recommended Action** LOG_STD_ACTION

TLSCIENT

%TLSCIENT-5-UPDOWN : Session [[IPv6 address]] to TLSGW: [[chars]] is [chars]

Explanation TLS Tunnel service state changed.**Recommended Action** No action is required.

%TLSCIENT-5-REKEY_CONN_FAILURE : Rekey failed for Session [[IPv6 address]] to TLSGW [[chars]]

Explanation This message indicates that the Rekey for the tunnel to the tlsgw failed.

%TLSCLIENT-5-REKEY_CONN_FAILURE : Rekey failed for Session [[IPv6 address]] to TLSGW [[chars]]

Recommended Action Either the server is down or the connectivity to the server is broken

TMQ

%TMQ-3-NOTFOUND : TMQ, Attempt to delete entry not in queue

Explanation An attempt was made to delete an entry not in the queue.

Recommended Action Advisory message only. No action required.

TN

%TN-3-READLINE : Unknown return code [dec] from telnet_readline()

Explanation An internal software error occurred.

Recommended Action If any message recurs, call your technical support representative for assistance.

%TN-3-BADSTATE : Illegal state [dec]

Explanation An internal software error occurred.

Recommended Action If any message recurs, call your technical support representative for assistance.

%TN-2-BADLOGIN : Bad login string pointer [hex]

Explanation An internal software error occurred.

Recommended Action If any message recurs, call your technical support representative for assistance.

%TN-2-BADCONN : Bad conn pointer [hex] closing all connections on terminal line [dec]

Explanation An internal software error occurred.

Recommended Action If any message recurs, call your technical support representative for assistance.

TN3270**%TN3270-2-INP_OVF1 : Input Buffer overflow**

Explanation	A problem in TN3270 protocol was detected. Eight KB (8192) bytes of data were received without a TN3270 end-of-packet indicator. The TN3270 buffer overflowed.
Recommended Action	Copy this error message exactly as it appears, and contact your technical support representative for assistance.

TPLUS**%TPLUS-3-FORKFAIL : Failed to fork process for [chars].**

Explanation	Quite likely, we ran out of memory. Other explanations are possible.
Recommended Action	If this message recurs, call your technical support representative for assistance.

%TPLUS-3-UNKNOWNATYPE : TPLUS: [hex] Unknown Request type [int].

Explanation	Unknown request type in client request
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

TR**%TR-2-PANICTYPE : Unit [dec], [chars] error**

Explanation	This message is similar to the %TR-3-PANIC error message, but indicates a nonfatal error. This message appears in very unusual situations that should not arise in normal operation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-2-PANIC : Unit [dec], panic %-08x %-08x %-08x

Explanation	The Token Ring monitor firmware detected a fatal error that indicates an impending interface failure.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-2-PANICINF : Unit [dec], PI %-08x %-08x %-08x %-08x %-08x %-08x

Explanation	This message is similar to the %TR-3-PANIC error message, but indicates a nonfatal error. This message appears in very unusual situations that should not arise in normal operation.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-BADMUL : [chars]: Can't set address to a multicast ([enet])

Explanation	An attempt was made to set the Token Ring interface MAC address to a reserved multicast address.
Recommended Action	Check your configuration. Make sure that your XNS and/or Novell Token Ring addresses have not inadvertently been set to reserved multicast addresses.

%TR-3-BADSTART : Unit [dec], Start completion and wrong idb state - state= [dec]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-RESETFAIL : Unit [dec], reset failed, error code %-08x.

Explanation	An internal software error occurred.
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%TR-3-RESETFAIL : Unit [dec], reset failed, error code %-08x.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-6-STATE : [chars]: Ring Status: [chars]

Explanation This message is displayed when the Token Ring's status changed as determined by the chipset. This information also is used to automatically determine whether the interface is still usable to propagate network traffic.

Recommended Action No action is required.

%TR-6-STATRING : TR[dec]: Ring Status: [chars] [chars]

Explanation This message is displayed when the Token Ring's status changed as determined by the chipset. This information also is used to automatically determine whether the interface is still usable to propagate network traffic. The meaning of each status code is shown in the Token Ring Status Codes Table. Code Explanation Fatal 0x8000 Signal loss Yes 0x4000 Hard error Yes 0x2000 Soft error No 0x1000 Transmit beacon Yes 0x0800 Lobe wire fault Yes 0x0400 Auto removal error Yes 0x0100 Receive request removed Yes 0x0080 Counter overflow No 0x0040 Single station No 0x0020 Ring recovery No

Recommended Action Check the Token Ring for the indicated condition.

%TR-3-INTFAIL : Unit [dec] interface failure: [hex] [hex] [hex], idb state [dec]

Explanation The Token Ring Monitor firmware detected a fatal error due either to an internal software problem or to a hardware failure.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-BADRNGNUM : Unit [dec], ring number ([dec]) doesn't match established number ([dec]).

Explanation	The number you have configured for the local ring does not match the value currently in use on the ring.
Recommended Action	Check the configuration to make sure you used the correct ring number. If it is correct, confirm the configuration of all other bridges on the ring to make sure they are using the same ring number.

%TR-3-WIREFAULT : Unit [dec], wire fault: check the lobe cable MAU connection.

Explanation	The Token Ring hardware is reporting a wire fault condition.
Recommended Action	Check the cable connecting the router to the Token Ring media attachment unit (MAU).

%TR-3-OPENFAIL : Unit [dec], open failed: [chars], [chars]

Explanation	The Token Ring interface was unable to insert itself into the ring. This is an indication of a busy or broken ring. The first character string in this error message indicates the stage of initialization at which the error occurred, and the second describes the error.
Recommended Action	Try to open the interface again. This generally can be accomplished by issuing the clear interface tokenring command. If the error message recurs, call your Cisco technical support representative for assistance.

%TR-3-OPENFAIL2 : Unit [dec], open failed: check the lobe cable DB-9 connection.

Explanation	The Token Ring interface was unable to insert itself into the ring, and the error code returned indicates a wiring problem.
Recommended Action	Check the cable connecting the router to the Token Ring MAU, and try to open the interface again. This generally can be accomplished by issuing the clear interface tokenring command. LOG_STD_RECUR_ACTION

%TR-3-SETGRPFAIL : Unit [dec], set group address failed (code [hex]).

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-SETFUNFAIL : Unit [dec], set functional address failed (code [hex]).

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-SETBRIDGEFAIL : Unit [dec], set bridge failed (code [hex]).

Explanation	A hardware error occurred. The source routing accelerator (SRA) chip on the Token Ring card could not be initialized.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-BADUNIT : Bad unit number [dec]

Explanation	This error message pertains only to the IGS. When displayed, it indicates that the system cannot find the chipset registers where it expects them to be. This is most likely a hardware error.
Recommended Action	If this message recurs, call your technical support representative for assistance. It will be necessary to determine the hardware unit configuration.

%TR-3-BADBUFFSIZE : Unit [dec], bad buffersize = [dec]

Explanation	An internal software error occurred.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-BADFUNC : Unit [dec], bad functional address=[hex], ring mode=[hex]

Explanation	An internal software error occurred.
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%TR-3-BADFUNC : Unit [dec], bad functional address=[hex], ring mode=[hex]

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-BADBRDGPARAMS : Unit [dec], bad bridge parameters: bridge_num=[dec], max_rd=[dec]thisring=[dec], targetring=[dec]

Explanation An internal software error occurred.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-INITFAIL : Unit [dec], init failed. result code=[hex], error code=[hex]

Explanation The Token Ring hardware failed to initialize properly.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-MODEFAIL : Unit [dec], change mode failed. result code=[hex], error code=[hex]

Explanation An internal hardware or software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-NOFIRM : Unit [dec], no TMS380 firmware present. eagle=[hex], magic=[hex]

Explanation	An internal hardware or software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-BADFIRMTYPE : Unit [dec], bad firmware type code during [chars]. type=[hex], fw=[hex]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-3-BADFIRM : Unit [dec], Tokenring firmware download failed got [hex], expected [hex], at address [hex].[hex]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TR-2-NOMEMORY : Unit [dec], no memory for [chars]

Explanation	The requested operation could not be accomplished because of a low memory condition.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%TR-3-DIAGFAIL : Interface [chars] failed init diags ([hex]), [chars]

Explanation	The microcode attempted to run its diagnostics on the chip and failed.
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%TR-3-DIAGFAIL : Interface [chars] failed init diags ([hex]), [chars]

Recommended Action Issue a clear interface command. LOG_STD_RECUR_ACTION

%TR-3-ADPCHK : Interface [chars], adapter check error (non-fatal)([hex] [hex] [hex] [hex])

Explanation The Token Ring monitor firmware detected a non-fatal error on the interface card.

Recommended Action Issue a clear interface command. If this message recurs, call your technical support representative for assistance.

%TR-3-ADPCHKFATAL : Interface [chars], adapter check error (fatal) ([hex] [hex] [hex] [hex])

Explanation The Token Ring monitor firmware detected a fatal error on the interface card.

Recommended Action Issue a clear interface command. If this message recurs, call your technical support representative for assistance. You may need to replace the interface card

TRACK

%TRACK-3-ERROR : Internal error, [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TRACK-4-WARN : Internal warning, [chars]

Explanation An internal software warning occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TRACK-6-STATE : [chars]

Explanation The Tracked object has changed state.

Recommended Action No action is required.

%TRACK-6-INFO : Internal info, [chars]

Explanation	An internal software information message occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

TRCCFG through UDLD

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TRCCFG

%TRCCFG-3-INVALID_BOOT_TRACE_CFG : Boottime trace configuration string [chars] invalid

Explanation	The value is not accepted by flash library due to an error. The result is that the boottime trace configuration settings are not successfully saved for use across re-boots.
Recommended Action	Check that the boot trace configuration is valid. If valid, try saving configuration again.

%TRCCFG-3-ROMMON_OUT_OF_SPACE_TRACE_CFG : No space in rommon for boot trace configuration

Explanation	Rommon is full and does not have room to save boot trace configuration.
Recommended Action	Remove any unnecessary rommon variables to free up space and retry.

TSP

%TSP-3-NOEVENT : no free event structure available from [chars] for DSP message

Explanation	There were no event structures remaining in the system pools to alert the router of a voice or signaling event.
Recommended Action	Check that the voice port for which the event was reported is still operational. If not, clear the voice port.

%TSP-3-CAPABILITYMISMATCH : voice port [chars]: call connection id [[hex] [hex] [hex] [hex]]

Explanation	There was a capabilities mismatch between the two call legs. capabilities are negotiated between call legs for CODEC, VAD and FAX rate.
Recommended Action	Check that the dial peer configuration is appropriate for the interface in question. Also check that and configuration on the interface is correct.

%TSP-3-DSPALARM : voice port [chars]: status=[hex] message=[hex]

Explanation	The DSP reported a fatal error. All calls on the DSP were dropped and a DSP reload was attempted.
Recommended Action	Verify that the DSP reloaded properly by attempting to place a call on the affected voice port. Contact your technical support representative, include the full text of the error message.

%TSP-5-PRI : [chars] at slot [dec], unit [dec], channel [dec]

Explanation	A PRI signalling channel is added/deleted to TSP's inventory of signalling channels.
Recommended Action	This is a notification message only. No action is required.

%TSP-3-FSM_ERROR : [chars]

Explanation	Internal Finite State Machine Error.
Recommended Action	Contact your technical support representative, include the full text of the error message.

TTY

%TTY-3-AUTOCONFIG : TTY%t: Modem auto-configuration failed

Explanation	Modem auto-configuration failed either because the modem rejected the configuration string or because of a timeout. An attempt should be made to apply the configuration string manually.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TTY-3-NOPROCESS : Cannot create [chars] process

Explanation	Failed creating the process.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

TTYMON

%TTYMON-3-INIT : The software which monitors ownership of the console port cannot be initialized correctly

Explanation	The Host Manager process on the Route Processor, and only the Route Processor, is responsible for determining which process has control of the console port, either IOSd or an IOSXE process. A user can initiate a switch in ownership by entering the 'send break' command at a telnet prompt to switch from IOSd to a shell instance. Control is returned to IOSd by exiting the shell instance. The component within the Host Manager responsible for this has encountered an initialization error and console monitoring is no longer available.
Recommended Action	Check the status of the Host Manager process. Check the Host Manager log files for further indications as to why the initialization failed and if necessary restart the machine.

%TTYMON-3-CHASFS : The software which monitors ownership of the console port cannot [chars] a filesystem configuration value.

Explanation	The Host Manager process on the Route Processor, and only the Route Processor, is responsible for determining which process has control of the console port, either IOSd or an IOSXE process. A user can initiate a switch in ownership by by entering the 'send break' command at a telnet prompt to switch from IOSd to a shell instance. Control is returned to IOSd by exiting the shell instance. The component within the Host Manager responsible for monitoring a change of console ownership uses the filesystem to store various settings. This error indicates that the daemon encountered a problem either reading or writing a value from/to the filesystem.
Recommended Action	Check the log files for the Host Manager and search for entries related to 'ttymon' and 'chasfs' and this should give an indication as to why the operation failed. Check available resources and see if other daemons are also experiencing problems with the chassis filesystem since this may indicate a more pervasive problem. If so the reboot the box.

%TTYMON-3-AGETTY : Cannot initiate a switch in console ownership. A required program could not be launched successfully.

Explanation	The Host Manager process on the Route Processor, and only the Route Processor, is responsible for determining which process has control of the console port, either IOSd or an IOSXE process. A user can initiate a switch in ownership by by entering the 'send break' command at a telnet prompt to switch from IOSd to a shell instance. Control is returned to IOSd by exiting the shell instance. Switching ownership of the console port is initiated by the user entering a 'send break' command at a telnet prompt. The Host Manager launches one or more programs to authenticate users and to provide a shell instance. One or more of these programs has not been configured correctly.
Recommended Action	Some required programs are either not available or not configured correctly or are failing for some reason. If this occurs after a recent upgrade it is possible that the upgrade has corrupted the current installation.

TUN

%TUN-3-API_ARGS : unexpected arguments: [chars], [chars]

Explanation	A public tunnel component api was driven with arguments outside the expected boundaries.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-TUN_DB_IF : Operation on tunnel interface table failed for [chars] - [chars]

Explanation	Manipulation of the tunnel interface table failed.
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%TUN-5-TUN_DB_IF : Operation on tunnel interface table failed for [chars] - [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%TUN-5-RECURDOWN : [chars] temporarily disabled due to recursive routing

Explanation	When routing the same payload protocol over a carrier protocol (tunneling IP over IP, for example), it is possible to misconfigure your network so that you will try to route to the tunnel destination address via the tunnel. This is usually caused by a misconfiguration of the tunnel or a temporary instability due to route flapping elsewhere in your network. It is important to take steps to ensure that routing information between the carrier networks and the payload networks is not allowed to mix. If the router discovers a recursive routing problem, it will temporarily shut down the tunnel interface for a few minutes so that the situation that is causing this problem can resolve itself as routing protocols converge. If the problem is caused by misconfiguration, the link may oscillate indefinitely.
Recommended Action	No action is required.

%TUN-5-RECURDOWN_SRC : [chars] linestate down, recursive source interface, next output [chars]

Explanation	Whilst evaluating tunnel linestate we revisited a source interface.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-ENDPOINT_STORE : Operation [chars] failed for [chars]

Explanation	Manipulation of the tunnel endpoint store failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-MULTI_KEYS_INFO : [chars] [chars]

Explanation	Manipulation of the tunnel keys database failed.
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%TUN-3-MULTI_KEYS_INFO : [chars] [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%TUN-3-MULTI_KEYS_INFO_ERROR : [chars] [dec]

Explanation	Manipulation of the tunnel keys database failed because of incorrect idb_index.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-4-UDLR_IDB_ERROR : UDLR [chars] - [chars]

Explanation	An error was encountered on a udlr interface
Recommended Action	No action is required.

%TUN-3-ENDPOINT_ERROR : [chars] [chars]

Explanation	An internal software error occurred when manipulating the tunnel endpoint database
Recommended Action	No action is required.

%TUN-5-IGNOREICMPMTU : [chars] ignoring received ICMP Type 3 Code 4, due to pmtud min-mtu setting

Explanation	An ICMP Type 3 Code 4 (fragmentation needed and DF set) packet has been received. This packet has specified a Next-Hop MTU smaller than the tunnel current minimum path mtu discovery mtu value. The ICMP packet has been ignored and the MTU of the tunnel has not been changed.
Recommended Action	If you want the ICMP packet to be accepted and to be used to decrease the tunnel MTU then use the tunnel path-mtu-discovery min-mtu command to decrease the minimum mtu allowed. The min-mtu specified is the minimum tunnel payload mtu allowed. Use the show interface tunnel command to view the current path mtu discovery settings.

%TUN-5-IGNOREICMP6MTU : [chars] ignoring received ICMP6 Type 2 Code 0 , due to pmtud min-mtu setting

Explanation An ICMP6 Type 2 Code 0 (ICMP6 Packet Too Big message) packet has been received. This packet has specified a Next-Hop MTU smaller than the tunnel current minimum path mtu discovery mtu value. The ICMP6 packet has been ignored and the MTU of the tunnel has not been changed.

Recommended Action If you want the ICMP6 packet to be accepted and to be used to decrease the tunnel MTU then use the **tunnel path-mtu-discovery min-mtu** command to decrease the minimum mtu allowed. The min-mtu specified is the minimum tunnel payload mtu allowed. Use the **show interface tunnel** command to view the current path mtu discovery settings.

%TUN-3-MTUCONFIGEXCEEDS2MTU_IPV4 : [chars] IPv4 MTU configured [int] exceeds tunnel maximum MTU [int]

Explanation An IPv4 MTU value is configured on the tunnel interface and this value exceeds the tunnel's maximum MTU. This message is typically observed when the tunnel header size changes or when the MTU of the underlying exit interface changes. As a result of either, the tunnel maximum MTU can change. This message can also be observed when using an IPv6 tunnel to carry IPv4 since IPv4 MTU config in this case allows for a value to be configured that is greater than the tunnel's maximum MTU. As a result of any of these conditions, packets may be dropped.

Recommended Action If a specific IPv4 MTU value is not required, it is recommended that you leave the value at the default by typing **no ip mtu** on the tunnel interface. If a specific value is required, it is recommended that you check the interface MTU value from the **show interface tunnel** command and adjust **ip mtu** on the tunnel interface to be lower than or equal to this.

%TUN-3-MTUCONFIGEXCEEDS2MTU_IPV6 : [chars] IPv6 MTU configured [int] exceeds tunnel maximum MTU [int]

Explanation An IPv6 MTU value is configured on the tunnel interface and this value exceeds the tunnel's maximum MTU. This message is typically observed when the tunnel header size changes or when the MTU of the underlying exit interface changes. As a result of either, the tunnel maximum MTU can change. This message can also be observed when using an IPv6 tunnel to carry IPv6 since IPv6 MTU config in this case allows for a value to be configured that is greater than the tunnel's maximum MTU. As a result of any of these conditions, packets may be dropped.

Recommended Action If a specific IPv6 MTU value is not required, it is recommended that you leave the value at the default by typing **no ipv6 mtu** on the tunnel interface. If a specific value is required, it is recommended that you check the interface MTU value from the **show interface tunnel** command and adjust **ipv6 mtu** on the tunnel interface to be lower than or equal to this.

%TUN-4-MTUCONFIGLESSTHAN_MINIPV4MTU : [chars] IPv4 MTU [int] is lesser than the minimum IP MTU [int], fragmentation may occur

Explanation	The IPv4 MTU value calculated on the tunnel interface is less than the minimum IP MTU. The MTU of the underlying exit interface of the tunnel is too small. As a result, fragmentation of the transport packet may occur before this goes out of the underlying exit interface.
Recommended Action	If a specific MTU value is not required for the exit interface, it is recommended that you leave the value at the default by typing no mtu on the exit interface. If a specific value is required, it is recommended that you check the MTU value from the show interface command for the exit interface and adjust mtu on the tunnel exit to be higher than this.

%TUN-4-MTUCONFIGEXCEEDSTRMTU_IPV4 : [chars] IPv4 MTU configured [int] exceeds tunnel transport MTU [int]

Explanation	An IPv4 MTU value has been configured on the tunnel interface and this value exceeds the tunnel's transport (default) MTU. As a result, fragmentation of the transport packet may occur before this goes out of the underlying exit interface.
Recommended Action	If a specific IPv4 MTU value is not required, it is recommended that you leave the value at the default by typing no ip mtu on the tunnel interface. If a specific value is required, it is recommended that you check the tunnel transport MTU value from the show interface tunnel command and adjust ip mtu on the tunnel interface to be lower than or equal to this.

%TUN-4-MTUCONFIGEXCEEDSTRMTU_IPV6 : [chars] IPv6 MTU configured [int] exceeds tunnel transport MTU [int]

Explanation	An IPv6 MTU value has been configured on the tunnel interface and this value exceeds the tunnel's transport (default) MTU. As a result, fragmentation of the transport packet may occur before this goes out of the underlying exit interface.
Recommended Action	If a specific IPv6 MTU value is not required, it is recommended that you leave the value at the default by typing no ipv6 mtu on the tunnel interface. If a specific value is required, it is recommended that you check the tunnel transport MTU value from the show interface tunnel command and adjust ipv6 mtu on the tunnel interface to be lower than or equal to this.

%TUN-4-MTUDEFAULTEXCEEDSL2MTU_IPV4 : [chars] transport MTU [int] exceeds [chars] configured IPv4 MTU [int], fragmentation may occur

Explanation	A default MTU value has been configured on the tunnel and this value exceeds the underlying physical interface MTU. As a result, fragmentation of the transport packet may occur before this goes out of the underlying exit interface.
Recommended Action	If possible, increase the size of the IPv4 MTU on the underlying physical interface using ip mtu .

%TUN-5-TUN_TABLE : Operation [chars] on tunnel table failed for [chars] - [chars]

Explanation	Manipulation of the tunnel table failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-DECAP_OCE : [chars] [chars]

Explanation	An internal software error occurred in the tunnel subsystem which is responsible for building forwarding for the purposes of decapsulation
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-DECAP_TINFO : [chars] [chars]

Explanation	An internal software error occurred in the tunnel subsystem which is responsible for driving forwarding based on the tinfo configuration
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-ILLEGAL_ARGS : Illegal arguments - [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-TUN_HWIDB_RECYCLE : Failed to recycle hwidb for Tunnel [dec] index [dec]

Explanation	Recycling of tunnel interface failed.
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%TUN-5-TUN_HWIDB_RECYCLE : Failed to recycle hwidb for Tunnel [dec] index [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%TUN-5-TUN_SWIDB_RECYCLE : Failed to recycle swidb for Tunnel [dec] index [dec]

Explanation	Recycling of tunnel interface failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-TUN_HWIDB_DELETE : Failed to delete hwidb for Tunnel [dec] index [dec]

Explanation	Deletion of tunnel interface failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-TUN_SWIDB_DELETE : Failed to delete swidb for Tunnel [dec] index [dec]

Explanation	Deletion of tunnel interface failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-TUN_INTF_STATE_RESET : Failed to reset tunnel interface state for [chars]

Explanation	Reset of tunnel interface failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-TUN_UNIT_LIST_INSERT : Failed to add entry unit [dec] to tunnel unit list

Explanation	Insertion of tunnel unit failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-TUN_HWIDB_LIST_INSERT : Failed to add [chars] to tunnel hwidb list

Explanation	Insertion of tunnel to hwidb list failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-TUN_UNIT_LIST_DELETE : Failed to delete entry unit [dec] to tunnel unit list

Explanation	Deletion from tunnel unit failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-TUN_HWIDB_LIST_DELETE : Failed to delete [chars] from tunnel hwidb list

Explanation	Deletion of tunnel from hwidb list failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-TUN_LIST_CREATE : Failed to create tunnel list [chars]

Explanation	Creation of tunnel list failed.
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%TUN-5-TUN_LIST_CREATE : Failed to create tunnel list [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%TUN-5-HW_IF_INDEX_ILLEGAL : Attempt to create tunnel interface for [chars] with illegal index: [dec]

Explanation	Creation of tunnel interface failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-INIT_ERROR : A critical error [chars] occurred during initialization

Explanation	Creation of tunnel subsystem failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-TUN_SIDB2TUNS : [chars]: [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-TUN_SB : TUN_SB: [chars][chars][chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-TUN_DBG : TUN_DBG: [chars] [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-TUN_HA : Tunnel HA: [chars]

Explanation	Tunnel HA encountered an internal software error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-GROUPS : Tunnel Groups: [chars]: [chars]

Explanation	The tunnel group component encountered an internal software error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-WCCP_GROUP : Tunnel WCCP Groups: [chars]: [chars]

Explanation	The tunnel group component encountered an internal software error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-OTV_GROUP : Tunnel OTV Groups: [chars]: [chars]

Explanation	The tunnel group component encountered an internal software error
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%TUN-3-OTV_GROUP : Tunnel OTV Groups: [chars]: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%TUN-3-L3VPN_GROUP : Tunnel L3VPN Groups: [chars]: [chars]

Explanation	The tunnel group component encountered an internal software error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-L3VPN_ENCAP_IP_PROFILE : L3VPN Encap IP : [chars]: [chars]

Explanation	The L3VPN Encap IP component encountered an internal software error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-4-L3VPN_ENCAP_IP_SRC_DEL : L3VPN Encap IP : [chars]: [chars]

Explanation	The user configuration change results in a warning. This message is typically printed when the user tries to delete a loopback interface, and the loopback interface is configured as the source interface of the L3VPN encap IP profile
Recommended Action	It is recommended that the user removes the loopback interface as the source interface of the L3vpn encap ip profile, before deleting the loopback interface.

%TUN-3-SIA_GROUP : Tunnel SIA Groups: [chars]: [chars]

Explanation	The tunnel group component encountered an internal software error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-6RD : [chars]: [chars]

Explanation	The tunnel 6RD feature encountered an internal software error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-6RD_INFO : [chars]: [chars]

Explanation	6RD configuration has been removed as it is not compatible with the new sub-mode
Recommended Action	No action is required.

%TUN-3-CM1 : [chars]

Explanation	The tunnel classification module encountered an internal software error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-CM2 : [chars] [dec]

Explanation	The tunnel classification module encountered an internal software error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-3-TUNTO : Operation: [chars], Action: [chars], Reason: [chars]

Explanation	The tunnel-to module encountered an internal software error
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TUN-5-L3VPN_IP_PROFILE_DELETE : l3vpn encap ip profile [chars] deleted

Explanation	l3vpn encap ip profile is deleted
Recommended Action	No action is required.

TVI_PROXY

%TVI_PROXY-2-TVI_MSG_PROXYINIT_FAILURE : ET-Analytics - Failed to register IPC message handler, result code [int]

Explanation	QFP ET-Analytics feature failed to register an IPC message handler for communication with control plane. This will cause the feature not to function.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TVI_PROXY-3-TVI_MSG_PROXY_UNKNOWN_IPCMMSG : ET-Analytics - Received an unknown type (code [int]), IPC message

Explanation	QFP ET-Analytics feature received an unknown message from another layer of ET-Analytics feature's software stack.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TVI_PROXY-3-TVI_MSG_PROXY_INVALID_MSGLEN : ET-Analytics - Received an invalid length IPC message

Explanation	QFP ET-Analytics feature received an incorrect length of IPC message from another layer of ET-Analytics feature's software stack, m_enum %d, m_subtype %d, m_len %d, m_flags 0x%x, m_source %d.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TVI_PROXY-3-TVI_MSG_PROXY_ALLOC_FAILURE : ET-Analytics - Failed to get [int] bytes space for IPC reply message

Explanation QFP ET-Analytics feature detected buffer allocation failure while sending reply to a message from another layer of ET-Analytics feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TVI_PROXY-3-TVI_MSG_PROXY_OPENREPLY_FAIL : ET-Analytics - Failed to open reply message part of IPC packet

Explanation QFP ET-Analytics feature failed to open message part of IPC packet while sending a reply to another layer of ET-Analytics feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TVI_PROXY-3-TVI_MSG_PROXY_IPCSEND_FAIL : ET-Analytics - Failed to send IPC message, result code [dec]

Explanation QFP ET-Analytics feature failed to send IPC message to another layer of ET-Analytics feature's software stack.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TVI_PROXY-3-TVI_MSG_PROXY_DEBUG_REG_FAILED :

Explanation ET-Analytics Conditional Debugging Registration failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%TVI_PROXY-4-PROXY_IPC_INVALID_MSG_LEN : [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation Invalid ET-Analytics IPC message length.
Recommended Action LOG_STD_ACTION

%TVI_PROXY-3-PROXY_HSL_CREATE_FAILED :

Explanation HSL creation failed.
Recommended Action LOG_STD_ACTION

%TVI_PROXY-3-PROXY_HSL_ADD_DEST_FAILED :

Explanation HSL add destination failed.
Recommended Action LOG_STD_ACTION

%TVI_PROXY-4-PROXY_HSL_ALREADY_INIT :

Explanation HSL logger already initialized
Recommended Action LOG_STD_ACTION

%TVI_PROXY-3-PROXY_HSL_MODIFY_DEST_FAILED :

Explanation HSL modify destination failed.
Recommended Action LOG_STD_ACTION

%TVI_PROXY-3-PROXY_HSL_BIND_FAILED :

Explanation HSL bind failed.
Recommended Action LOG_STD_ACTION

%TVI_PROXY-3-PROXY_HSL_ENABLE_FAILED :

Explanation HSL enable failed.

%TVI_PROXY-3-PROXY_HSL_ENABLE_FAILED :

Recommended Action LOG_STD_ACTION

%TVI_PROXY-4-PROXY_HSL_NOT_INIT : [int]

Explanation HSL logger not initialized
Recommended Action LOG_STD_ACTION

%TVI_PROXY-3-PROXY_HSL_MODIFY_FAILED :

Explanation HSL modification failed.
Recommended Action LOG_STD_ACTION

%TVI_PROXY-3-PROXY_HSL_BIND_TEMPLATE_FAILED : [dec]

Explanation HSL bind tempalte failed at given index.
Recommended Action LOG_STD_ACTION

UBD

%UBD-2-INITIALIZATION_FAILED :

Explanation Initialization of ursa bootstrap process failed.
Recommended Action Review UBOOTD logs taking note of the timestamp information to select specific information to review. Copy the message and other related information exactly as it appears on the console or in the system log.

%UBD-0-MQIPC_INITIALIZATION : MQIPC initialization failed because [chars]

Explanation MQIPC initialization failed. This could be due to a software defect or system resource exhaustion.
Recommended Action In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot | subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%UBD-0-MQIPC_ADVANCE : Failed to advance MQIPC queue because [chars]

Explanation	The MQIPC initialization failed.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

%UBD-0-EVENT_LIBRARY : An event facility initialization or maintenance function failed because [chars]

Explanation	An event facility initialization or maintenance function failed. This could be due to a software defect or system resource exhaustion.
Recommended Action	In most cases, the problem can be corrected by reloading the impacted hardware using the hw-module [slot subslot] slot-number reload command. If the reload fails to correct the problem, collect the output of the error message, the logs, and the output of show tech-support and provide the gathered information to a Cisco technical support representative.

UCODE**%UCODE-3-BADCHKSUM : Bad checksum in [chars], found [hex] expected [hex]**

Explanation	The microcode file is corrupted in some way; the checksum computed after reading the file from Flash does not match the one in the file. The file will not be downloaded, and the onboard ROM microcode will be used instead.
Recommended Action	Reload the microcode. If the message recurs, call your technical support representative for assistance.

%UCODE-3-HDRCORRUPT : Ucode header corrupted in [chars], found [hex] expected [hex]

Explanation	The microcode file is corrupted in some way; the checksum computed after reading the file from Flash does not match the one in the file. The file will not be downloaded, and the onboard ROM microcode will be used instead.
Recommended Action	Reload the microcode. If the message recurs, call your technical support representative for assistance.

%UCODE-3-LDFAIL : Unable to download ucode from [chars] in slot [dec], trying [chars] ucode

Explanation	For some reason, the microcode file specified by the configuration is not suitable for downloading, or another error occurred. The onboard ROM microcode will be loaded so the interface can remain operational.
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%UCODE-3-LDFAIL : Unable to download ucode from [chars] in slot [dec], trying [chars] ucode

Recommended Action Attempt to reload the microcode. If the message recurs, call your technical support representative for assistance.

%UCODE-3-NOFILE : Ucode file [chars] not found, system ucode loaded in slot [dec]

Explanation The file specified by the configuration was not found in Flash. The onboard ROM microcode will be loaded so the interface can remain operational.

Recommended Action Use show flash to determine if the file is located in Flash. If the file is there, attempt to reload the microcode. If the message recurs, call your technical support representative for assistance.

%UCODE-3-BADHWVER : Ucode file [chars] requires [chars] version [dec].x hardware

Explanation A mismatch was detected during an attempt to load a microcode file into an interface processor. The hardware requires a different version than the one specified.

Recommended Action Use the required microcode version.

%UCODE-3-RDFAIL : Unable to read ucode file [chars] from flash

Explanation For some reason, the microcode file was not read from Flash. Flash might be locked by another process or otherwise unavailable.

Recommended Action Use the show flash command to determine whether Flash is in use and issue another microcode reload when Flash is free. If the message recurs, call your technical support representative for assistance.

%UCODE-3-TOOBIG : File [chars] at length [dec] is too long for buffer (size [dec])

Explanation The file is too large for the buffer. The onboard ROM microcode will be loaded.

Recommended Action If the error message recurs after the onboard ROM microcode is loaded, call your technical support representative for assistance.

%UCODE-3-WRONGHARD : [chars] is [chars] ucode not [chars], microcode/hardware mismatch

Explanation The specified microcode file is for a different interface processor than specified in the configuration. The user has made a configuration error. The onboard ROM microcode will be loaded.

Recommended Action Reenter your microcode configuration command after confirming the interface type and reload the microcode.

%UCODE-5-OBSOLETE : FDDI unit [dec] has obsolete microcode: please upgrade it

Explanation	This message occurs when an FDDI interface processor is found running microcode that does not support microcode CMT, which is required for all software releases from 10.2 on.
Recommended Action	Upgrade the microcode on the interface processor.

%UCODE-3-VERSIONCK : Inappropriate version [int],[int] for [chars]

Explanation	An attempt was made to load an inappropriate version of microcode.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%UCODE-3-NOBUF : Unable to allocate memory for ucode buffer

Explanation	A buffer is required to decompress microcode before loading it into an interface processor. This buffer could not be allocated for some reason.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%UCODE-3-NOMEMORY : Unable to allocate memory during microcode reload

Explanation	An attempt at memory allocation failed while downloading microcode to Interface processor.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative.

%UCODE-3-NOROM : Invalid attempt to load ROM ucode in slot [dec]

Explanation	Some interface processors cannot load microcode from ROM.
Recommended Action	Remove the erroneous configuration statement.

%UCODE-3-IPCINITFAIL : Unable to initialize IPC [chars] services

Explanation	The InterProcess Communication (IPC) service used to download microcode to certain interface processors has failed to initialize.
Recommended Action	Certain Interface Processors will not load properly. The router must be reloaded to clear the problem.

%UCODE-3-IPCBUFFAIL : Unable to obtain IPC resources

Explanation	The InterProcess Communication (IPC) service used to download microcode to certain interface processors has failed to obtain a buffer.
Recommended Action	Certain interface processors will not load properly. Try the reload command again. If this message recurs, call your technical support representative for assistance.

%UCODE-3-IPCINVALID : Invalid IPC request ([dec]) received from ([hex])

Explanation	The InterProcess Communication (IPC) service used to download microcode to certain interface processors has received an invalid message.
Recommended Action	Verify that the proper revisions of code are selected.

%UCODE-3-SRCTYPE : Invalid Ucode source type ([dec])

Explanation	Microcode source type as specified is not supported on the given platform
Recommended Action	Verify that the proper revisions of code are selected.

UDEV

%UDEV-3-UDEVPERMS : An invalid permissions value, [chars], was found in a udev file

Explanation	The udev files for a particular filesystem contain a description the file system. If the permissions attribute is not recognized then this file system may run with incorrect permissions.
Recommended Action	No action is required.

UDLD

%UDLD-3-UDLD_INTERNAL_ERROR : UDLD internal error: [chars]

Explanation	A softare sanity check failed in the course of UDLD processing.
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%UDLD-3-UDLD_INTERNAL_ERROR : UDLD internal error: [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UDLD-3-UDLD_INTERNAL_IF_ERROR : UDLD internal error, interface [chars]: [chars]

Explanation A software sanity check failed in the course of UDLD processing.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UDLD-3-UDLD_IDB_ERROR : UDLD error handling [chars] interface: [chars]

Explanation A software error occurred in UDLD processing associated with a specific interface.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UDLD-4-UDLD_PORT_DISABLED : UDLD disabled interface [chars], [chars] detected

Explanation An interface was disabled because UDLD protocol detected the cause indicated on the interface indicated. Cause is likely due to bad interface hardware or cable misconfiguration. User should investigate.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UDLD-6-UDLD_PORT_RESET : UDLD reset interface [chars]

Explanation	A port which had been disabled for UDLD has been reset.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UDLD-4-UDLD_PORT_FAILURE : UDLD failure reported per user request, interface [chars], [chars] detected.

Explanation	An interface failure was reported because UDLD protocol detected the cause indicated on the interface. Cause is likely due to bad interface hardware or cable misconfiguration. Interface not err-disabled as user choose to see error-report. User should investigate and take action.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

UFAST_MCAST_SW through UTD

- [UFAST_MCAST_SW](#)
- [UI](#)
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UFAST_MCAST_SW

%UFAST_MCAST_SW-4-MEM_NOT_AVAILABLE : No memory is available for transmitting UplinkFast packets on Vlan [dec].

Explanation	UplinkFast packets will not be transmitted on Vlan %d due to a lack of memory.
Recommended Action	Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%UFAST_MCAST_SW-3-PROC_START_ERROR : No process available for transmitting UplinkFast packets.

Explanation	UplinkFast packets will not be transmitted as the process could not be created.
Recommended Action	UplinkFast will not work unless you reload. If this problem persists even after reload, please contact your Cisco Technical Support representative with the configuration and technical support information.

UI

%UI-6-NOHANDLER : module type [int] subtype [int]

Explanation	A UI message was received containing an unrecognized module type or module subtype
Recommended Action	LOG_STD_ACTION

%UI-3-REPLY : module type [int] subtype [int]

Explanation	A UI reply message failed in the IPC send. Sender will not get reply
Recommended Action	LOG_STD_ACTION

%UI-3-IPC_ALLOC : module type [int] subtype [int]

Explanation	IPC packet allocation failed for UI reply. Sender will not get reply
Recommended Action	LOG_STD_ACTION

UICFGEXP

%UICFGEXP-3-MESSAGE_ERROR : Unable to process message for '[chars]': [chars]

Explanation	A message was received by the configuration export module which could not be processed. The message has been discarded.
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%UICFGEXP-3-MESSAGE_ERROR : Unable to process message for '[chars]': [chars]

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UICFGEXP-3-WRITE_FAILED : Unable to write configuration for '[chars]': [chars]

Explanation The configuration export module failed to write the server configuration files. The server configuration change has not occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UICFGEXP-6-SERVER_NOTIFIED_START : Server [chars] has been notified to start

Explanation The server has been notified to start.

Recommended Action No action is required.

%UICFGEXP-6-SERVER_NOTIFIED_STOP : Server [chars] has been notified to stop

Explanation The server has been notified to stop.

Recommended Action No action is required.

%UICFGEXP-3-LIBRARY_ERROR : Error loading library '[chars]': [chars]

Explanation A configuration message was received which required a library to be loaded. The library failed to load.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UICFGEXP-3-SYMBOL_ERROR : Error loading library symbol '[chars]' from '[chars]': [chars]

Explanation	A configuration message was received which required a library to be loaded. The library failed to load all required symbols.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

UIPEER

%UIPEER-3-INVALID_EPOCH_MESSAGE : The peer process was unable to process an incoming epoch update message from the shell-manager

Explanation	For each new type definition language (TDL) epoch, the Shell Manager broadcasts a change notification message to its peers. If the Shell Manager's message is incorrect or corrupt, the peers are unable to identify the new epoch. In this case, the peers reject the proposed epoch.
Recommended Action	Check the trace files for the Shell Manager failed process. Check or undo any recently installed packages, then restart the system.

%UIPEER-3-INVALID_DEBUG_MESSAGE : The peer process was unable to process an incoming message for 'debug all' from the shell-manager

Explanation	When the 'debug all' command is issued, the Shell Manager broadcasts a notification of the command request to its peers. If the notification message has been corrupted or incorrectly created, the peers cannot complete the requested operation.
Recommended Action	Check the trace files for the Shell Manager failed process. Restart the system.

%UIPEER-3-INVALID_HOSTINFO_MESSAGE : The peer process was unable to process an incoming message for host info from the shell-manager

Explanation	When host information, such as the hostname, changes, the Shell Manager broadcasts a notification of the change to its peers. If the notification message has been corrupted or incorrectly created, the peers cannot complete the requested operation.
Recommended Action	Check the trace files for the Shell Manager failed process. Restart the system.

%UIPEER-2-TDL_MESSAGE : Cannot construct an IPC message for library. The message name is [chars] and the reason is: [chars]

Explanation	A problem occurred while constructing a type definition language (TDL) message or setting a field in a TDL message. If the problem occurred during construction of a TDL message, then the system is out of memory. If the problem occurred while setting a field in the TDL message, there is a library mismatch issue.
Recommended Action	Check [uipeer] ERR entries in the log files for message reporting problems.

%UIPEER-3-NO_PEER : A process was unable to retrieve a shell-manager peer handle.

Explanation	A process was attempting to communicate with the Shell Manager daemon using the integrated [uipeer] component. The error occurred because the peer instance could not be found.
Recommended Action	Check [uipeer] ERR entries in the log files for message reporting problems.

%UIPEER-5-TIMER_ACCURACY_TEST : Timer Accuracy Test [chars].

Explanation	Test result of Timer Accuracy Test
Recommended Action	No action is required. This is informational message

UMBRELLA

%UMBRELLA-6-UMBRELLA_DIRECT_CLOUD_ACCESS : Direct cloud access is enabled

Explanation	Umbrella Direct cloud access Enabled
Recommended Action	This message is for informational purposed only

%UMBRELLA-3-DNSCRYPT_CERT_MAGIC_MISMATCH : Invalid certificate received: Certificate magic mismatch

Explanation	Umbrella DNSCrypt certificate magic mismatch
Recommended Action	This message is for informational purposed only

%UMBRELLA-3-DNSCRYPT_UMBRELLA_OUT_FAILURE : DNSCrypt Channel connect failed: Interface with umbrella out config not found

Explanation Umbrella out is required on an interface for DNSCrypt channel connect

Recommended Action This message is for informational purposed only

%UMBRELLA-3-DNSCRYPT_CERT_MAJOR_VER_MISMATCH : Invalid certificate received: Certificate major version mismatch

Explanation Umbrella DNSCrypt certificate major version mismatch

Recommended Action This message is for informational purposed only

%UMBRELLA-3-DNSCRYPT_CERT_MINOR_VER_MISMATCH : Invalid certificate received: Certificate minor version mismatch

Explanation Umbrella DNSCrypt certificate minor version mismatch

Recommended Action This message is for informational purposed only

%UMBRELLA-3-DNSCRYPT_CERT_SIGNATURE_MISMATCH : Invalid certificate received: Certificate signature mismatch

Explanation Umbrella DNSCrypt certificate signature mismatch

Recommended Action This message is for informational purposed only

%UMBRELLA-3-DNSCRYPT_CERT_INVALID_START_TIME : Invalid certificate received: Certificate not active yet: start time [chars]

Explanation Umbrella DNSCrypt certificate not active yet

Recommended Action This message is for informational purposed only

%UMBRELLA-3-DNSCRYPT_CERT_INVALID_END_TIME : Invalid certificate received: Certificate expired on [chars]

Explanation Umbrella DNSCrypt certificate expired

Recommended Action This message is for informational purposed only

%UMBRELLA-3-DNSCRYPT_CERT_SUCCESS : Umbrella DNSCrypt certificate successfully received

Explanation Umbrella DNSCrypt certificate successfully received**Recommended Action** This message is for informational purposed only

%UMBRELLA-3-DNSCRYPT_CERT_FAILURE : Failed to fetch Umbrella DNSCrypt certificate

Explanation Failed to fetch Umbrella DNSCrypt certificate**Recommended Action** This message is for informational purposed only

%UMBRELLA-3-DNS_RES_FAILURE : Failed to resolve name [chars] Retry attempts:[dec]

Explanation Umbrella dns resolution for device registration server is failed.**Recommended Action** This message is for informational purposed only

%UMBRELLA-3-SSL_HANDSHAKE_FAILURE : SSL handshake failed

Explanation Umbrella device registration failed,as SSL handshake did not succed**Recommended Action** This message is for informational purposed only

%UMBRELLA-3-CONNECT_FAILURE : socket connection to the server [chars] failed ,Retry attempts:[dec]

Explanation Umbrella device registration failed, as socket connect failed**Recommended Action** This message is for informational purposed only

%UMBRELLA-3-NO_UMBRELLA_OUT_FAILURE : umbrella out is not configured on wan interface

Explanation Umbrella out is required on wan for device registration**Recommended Action** This message is for informational purposed only

%UMBRELLA-6-DEV_REG_SUCCESS : Device id for [chars]/tag [chars]/[chars] is [chars]

Explanation Device registration for the interface/profile is successful

Recommended Action This message is for informational purposes only

%UMBRELLA-3-DEV_REG_UNAUTHORIZED : Invalid token/api-key/secret/orgid

Explanation Token/api-key/secret/orgid used for device registration is invalid

Recommended Action This message is for informational purposes only

%UMBRELLA-3-DEV_REG_INTERNAL_SERVER_ERROR : Internal Server Error

Explanation Server is not down/not responding

Recommended Action This message is for informational purposes only

%UMBRELLA-6-DEV_REG_CONFLICT : Device id is already assigned

Explanation Device id for this Token/API key is already assigned

Recommended Action This message is for informational purposes only

%UMBRELLA-6-DEV_REG_BAD_REQUEST : Request for device registration does not contain required parameters

Explanation Request for device registration does not contain required parameters

Recommended Action This message is for informational purposes only

%UMBRELLA-6-DEV_REG_TOO_MANY_REQUEST : Too many device registration requests

Explanation Too many device registration requests

Recommended Action This message is for informational purposes only

%UMBRELLA-6-DEV_REG_FORBIDDEN : Request for device registration does not contain correct uri

Explanation Request for device registration does not contain correct uri

%UMBRELLA-6-DEV_REG_FORBIDDEN : Request for device registration does not contain correct uri

Recommended Action This message is for informational purposed only

%UMBRELLA-3-UMBRELLA_SPLITDNS_MAX_PAT_EXCEEDED : UMBRELLA local domain bypass (maximum 64 rules allowed): [chars]

Explanation Max number of local domain patterns cannot exceed 64 as allowed by DSA.
Recommended Action This message is for informational purposed only

%UMBRELLA-3-UMBRELLA_SPLITDNS_MAX_PAT_LEN_EXCEEDED : UMBRELLA splitdns ignoring pattern as length exceeds maximum limit.[chars]

Explanation Local domain pattern length cannot exceed 100 for DSA.
Recommended Action This message is for informational purposed only

%UMBRELLA-3-UMBRELLA_HA_INIT_FAILURE : Failed to register with RF, rc = [dec]

Explanation Failed to register with RF during system initialization
Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UMBRELLA-3-UMBRELLA_HA_SYNC_FAILED : UMBRELLA HA syncing [chars] failed.

Explanation syncing of info to the peer node failed.
Recommended Action This message is for informational purposed only

%UMBRELLA-6-UMBRELLA_HA_MSG_RECV : UMBRELLA HA message [chars] received.

Explanation Message HA message received from peer node.
Recommended Action This message is for informational purposed only

%UMBRELLA-3-DEV_REG_TOKEN_INVALID : Token expired

Explanation	Token used for device registration expired
Recommended Action	Reactivtae Umbrella license

%UMBRELLA-3-DEV_REG_ORG_NOT_EXISTS : Org does not exists

Explanation	Organization does not exists
Recommended Action	Reactivtae Umbrella license

UPGRADE**%UPGRADE-3-STAGGERED_UPGRADE_MOVE_REPORT_ERROR : Staggered AP Upgrade reboot process startedStaggered AP Upgrade completed succesfullyStaggered AP Upgrade errorAborted AP Upgrade successfullyStaggered AP Upgrade not in progress, fail to abort AP upgradeTrigger abort CLI from source WLC, fail to abort AP upgradelInvalid ap upgrade report name**

Explanation	Rebooting given APs in staggered wayAll APs in current upgrade process rebooted with the new versionError ocured in upgrade reset process. Operation aborted.Aborted AP upgrade process.Error ocured in AP upgrade abort process. Operation aborted.AP upgrade abort CLI should be triggered from source WLC.Upgrade report name entered is invalid
Recommended Action	Please enter a valid ap upgrade report name.

%UPGRADE-3-STAGGERED_UPGRADE_IN_PROGRESS : AP upgrade is in progress. New ap upgrade process is not allowed

Explanation	If an ap upgrade process is already running, either in source or destination mode, new ap upgrade process is not allowed
Recommended Action	Please wait for the current ap upgrade to finish before triggering this command.

%UPGRADE-3-MOBILITY_TUNNEL_DOWN : AP upgrade process aborted. Mobility tunnel is down for more than the permissible amount of time

Explanation	If the mobility tunnel with the peer is down for more than the permissible amount of time, the current upgrade process is aborted
Recommended Action	Please restore the mobility status between source and destination controllers before initiation of AP move/upgrade to destination

%UPGRADE-3-DESTINATION_NOT_READY : Destination controller not ready. Aborting upgrade process

Explanation	Destination controller may be going through another AP upgrade or move
Recommended Action	Please wait for the current ap upgrade to finish before triggering this command.

%UPGRADE-3-DESTINATION_NOT_RESPONDING : AP upgrade process aborted. Destination controller is not responding

Explanation	Destination controller is not responding to the upgrade request message
Recommended Action	Destination Controller may be down or unreachable. Please restore the mobility status between source and destination controllers before initiation of AP move/upgrade to destination

%UPGRADE-3-AP_SW_UPDATE_ERR_LOG_MSG : AP Upgrade record deleted successfullyAP Upgrade clear report error, failed to find upgrade report name : <[chars]> from upgrade report tableStaggered AP Upgrade in progress, failed to delete upgrade record with report name : <[chars]> from upgrade report tableAP SW update [chars]

Explanation	Deleted AP upgrade record.Error occurred in deleting record from upgrade report table. Operation aborted.Error occurred in deleting record from upgrade report table. Operation aborted.AP Software Update logging
Recommended Action	AP software update failed. ISSU image upgrade or SMU patching could be aborted. The user needs to initiate ISSU upgrade/SMU patch again. If the error occurred during manual operation, operation can be initiated again

%UPGRADE-5-AP_SW_UPDATE_LOG_MSG : AP SW update [chars]

Explanation	AP Software Update logging
Recommended Action	No action required

%UPGRADE-3-AP_UPGRADE_FALLBACK_VERSION_VALIDATION_FAILURE : AP Upgrade fallback process startedAP Upgrade fallback process completed successfullyStaggered AP Upgrade with fallback type as either reset or reset with fallback completed successfullyAP Upgrade fallback errorSource controller is not responding or has responded with invalid software version

Explanation	Starting AP upgrade fallback processAP Upgrade fallback process completedAll APs in current upgrade process rebooted with the new versionError occurred in upgrade fallback process. Operation aborted.Source controller is not responding to the upgrade fallback version request message or it has responded with an invalid software version
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%UPGRADE-3-AP_UPGRADE_FALLBACK_VERSION_VALIDATION_FAILURE : AP Upgrade fallback process startedAP Upgrade fallback process completed successfullyStaggered AP Upgrade with fallback type as either reset or reset with fallback completed successfullyAP Upgrade fallback errorSource controller is not responding or has responded with invalid software version

Recommended Action Please reload source controller with valid image

%UPGRADE-3-AP_UPGRADE_FALLBACK_INIT_TIMEOUT : Timeout occurred either source controller is not responding or has responded with invalid software version. Aborting fallback process

Explanation Timeout occurred. Source controller is not responding to the upgrade fallback version request message or it has responded with an invalid software version. Aborting fallback process

Recommended Action Please reload source controller with valid image and initiate upgrade process from destination controller by using CLI: 'ap image move destination <Destination Name> <Destination IPv4/IPv6 address> <Report name>'

%UPGRADE-3-AP_UPGRADE_FALLBACK_TYPE_MSG_ERROR : AP upgrade process aborted. Failed to send fallback type message to peer

Explanation Error occurred while sending fallback type message to peer. Operation aborted.

Recommended Action Please restore the mobility status between source and destination controller

URLF

%URLF-6-SITE_ALLOWED : [chars]Client [IP_address]:[dec] accessed server [IP_address]:[dec]

Explanation This message indicates that all URLs belongs to the server are allowed to be passed with out URL filter servers authentication

Recommended Action This message is just for informational purpose, it can be used to keep track of number of GET request that are sent from client to server

%URLF-4-SITE_BLOCKED : [chars]Access denied for the site '[chars]', client [IP_address]:[dec] server [IP_address]:[dec]

Explanation This message indicates that all underlying URLs of the specified domain are blocked

Recommended Action This indicates that an user has made an attempt to browse a forbidden site

%URLF-6-URL_ALLOWED : [chars]Access allowed for URL '[chars]', client [IP_address]:[dec] server [IP_address]:[dec]

Explanation This message indicates that the http GET request sent from client is allowed to be transmitted to http server

Recommended Action This is just an informational message

%URLF-4-URL_BLOCKED : [chars]Access denied URL '[chars]', client [IP_address]:[dec] server [IP_address]:[dec]

Explanation This message indicates that access to the requested URL is denied and the corresponding TCP connection is closed

Recommended Action This indicates that an user has made an attempt to browse a forbidden site

%URLF-3-SERVER_DOWN : [chars]Connection to the URL filter server [IP_address] is down

Explanation This messages indicates that a connection between the router and a url filter server is down. If more than one servers are configured the router will make use of other servers for URL authentication, otherwise it will check whether allow mode is 'on' or 'off'. If allow mode is 'on' the router will pass all the packets, otherwise it will drop all the packet and close the TCP connection.

Recommended Action The network administrator can possibly check whether the URL filter server (WebSense/N2H2) is down and restart it if required. If it still does not work then the admin may have to install a URL filter server on another system and configure the same on the router.

%URLF-3-ALLOW_MODE : [chars]Connection to all the URL filter servers are down and the allow mode is '[chars]'

Explanation This messages indicates that connection to all the URL filter servers are down. If allow mode is 'on' the router will pass all the http traffic, otherwise it will drop the http traffic and close the TCP connection

Recommended Action The network administrator can possibly check whether the URL filter server (WebSense/N2H2) is down and restart it if required. If it still does not work then the admin may have to install a URL filter server on another system and configure the same on the router.

%URLF-5-SERVER_UP : [chars]Connection to an URL filter server([IP_address]) is made, the router is returning from ALLOW MODE

Explanation This message indicates that at least one connection is up between router and a URL filter server. System is leaving out of allow mode

%URLF-5-SERVER_UP : [chars]Connection to an URL filter server([IP_address]) is made, the router is returning from ALLOW MODE

Recommended Action This is just an informational message

%URLF-3-URL_TOO_LONG : [chars]URL sent from [IP_address] is too long (more than [dec] bytes), possibly a fake packet?

Explanation The URL parsed from http GET request is too long, it could possibly be a fake packet, so the packet will be dropped

Recommended Action This could be a fake packet sent by the attackers

%URLF-3-MAX_REQ : [chars]The number of pending request exceeds the maximum limit [dec]

Explanation This message indicates that the number of requests pending in the router for URL authentication from URL filter server exceeds the maximum limit. In this case the http request will be dropped

Recommended Action This message is just for informational purpose

%URLF-3-RESOURCE_ALLOC_FAILED : The resource allocation failed for URL filter subsystem

Explanation This message indicates that the URLF feature is not able to allocate memory for various data structures

Recommended Action The router is running out of memory, disable the features that are not used, or check if something goes wrong

USB_TOKEN

%USB_TOKEN-3-USB_TOKEN_NOMEM : No available memory for [chars]

Explanation Memory allocation failure.

Recommended Action Reduce other system activity to ease memory demands. If conditions warrant, upgrade to a larger memory configuration.

%USB_TOKEN-3-USB_TOKEN_MSG_FAILURE : Failure in handling USB Security Token insertion/removal event

Explanation Retrieving Token insertion/removal message failed in Token Daemon

%USB_TOKEN-3-USB_TOKEN_MSG_FAILURE : Failure in handling USB Security Token insertion/removal event

Recommended Action Remove the token and insert it back. If the problem still persists, report the problem to your technical support representative along with the output of show usb device, show usb controller and show file systems commands.

%USB_TOKEN-3-USB_TOKEN_SEMCREATE_FAILURE : Failure in creating USB Security Token semaphore

Explanation Watched semaphore creation failed

Recommended Action Report the problem to your technical support representative along with the output of show usb device and show usb controller commands.

%USB_TOKEN-3-USB_TOKEN_MAX_TOKENS_INSERTED : Unavailable USB Security Token slot

Explanation Maximum number of tokens that can be supported are already inserted

Recommended Action Remove the other tokens that are not in use. And, remove and insert this token again.

USB_TOKEN_FILESYS

%USB_TOKEN_FILESYS-6-USB_TOKEN_INSERTED : USB Token device inserted: [chars].

Explanation A USB Token device has been detected.

Recommended Action Informational message only. No action required.

%USB_TOKEN_FILESYS-6-USB_TOKEN_REMOVED : USB Token device removed: [chars].

Explanation A USB Token device has been removed.

Recommended Action Informational message only. No action required.

%USB_TOKEN_FILESYS-6-REGISTERING_WITH_IFS : Registering USB Token File System [chars]: might take a while...

Explanation Registering USB Token File System is being registered.

Recommended Action Informational message only. No action required.

%USB_TOKEN_FILESYS-3-FAIL_TO_BUILD_MFD : USB Token File System failed to build MFD...

Explanation	USB Token File System failed to build the Master File Directory (MFD) database.
Recommended Action	Remove this token and insert it again. If the problem still persists, report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-MFD_FORWARD_INCOMPATIBLE : Unable to understand MFD database of version [dec].[dec].

Explanation	The version of the Master File Directory (MFD) database stored in token device is higher than what the running USB Token File System can support or understand.
Recommended Action	Upgrade the USB Token File System by reloading the router with a higher version of IOS software.

%USB_TOKEN_FILESYS-6-REGISTERED_WITH_IFS : USB Token File System [chars] is registered...

Explanation	USB Token File System registered successfully.
Recommended Action	Informational message only. No action required.

%USB_TOKEN_FILESYS-3-FAIL_TO_REGISTER_WITH_IFS : Failed to register USB Token File System with IFS.

Explanation	The process of registering USB Token File System with IOS File System (IFS) did not succeed. IFS provides a common user interface to all users of file system functionality regardless of the differences among file systems.
Recommended Action	Remove this token and insert it again. If the problem still persists, report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-MAX_TOKENS_INSERTED : The number of tokens exceeded the maximum that can be supported by USB Token File System.

Explanation	Maximum number of tokens that can be supported by USB Token File System are already inserted.
Recommended Action	Remove the other tokens that are not in use. And, remove and insert this token again. If the problem still persists, report the problem to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-FAIL_TO_CREATE_TALKER : Token File System callback: failed to create token talker, token name [chars], status [dec].

Explanation	USB Token File System failed to establish connection with USB Token Device Driver.
Recommended Action	Remove and insert this token again. If the problem still persists, report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-FAIL_TO_DESTROY_TALKER : Token File System callback: failed to destroy token talker, token name [chars], status [dec].

Explanation	USB Token File System failed to destroy the connection with USB Token Device Driver.
Recommended Action	Insert and remove this token again. If the problem still persists, report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-UNKNOWN_TOKEN_EVENT : Token File System callback: unknown event [dec].

Explanation	USB Token File System callback function received an unknown event from USB Token Device Driver.
Recommended Action	Check USB ports to see if the token device is inserted or removed correctly. If the problem still persists, report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-FAIL_TO_CREATE_WATCHED_BOOLEAN : Could not create a watched boolean!

Explanation	USB Token File System could not create a watched boolean. This condition indicates that memory resources are being exhausted.
Recommended Action	Reduce other system activities to ease memory demands or remove any token device that is not in use to free up some memory.

%USB_TOKEN_FILESYS-3-ASYNC_IO_UNEXPECTED_EVENT : Token Asynchronous I/O: Unexpected Event [dec].

Explanation	Token Asynchronous I/O process received an unexpected event.
Recommended Action	Report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-ASYNC_IO_FAIL_TO_REQUEUE_REQUEST : Token Asynchronous I/O: failing to requeue an I/O request.

Explanation	Token Asynchronous I/O process failed to requeue an I/O request.
Recommended Action	Report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-ASYNC_IO_FAIL_TO_GET_ARGUMENT : Token Asynchronous I/O: Could not get argument.

Explanation	Token Asynchronous I/O process failed to retrieve argument.
Recommended Action	Report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-ASYNC_IO_ERROR_WRITING_FILE : Error writing file: file [chars], ret code [hex], [chars].

Explanation	Token Asynchronous I/O process encountered I/O write failure.
Recommended Action	Report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-ASYNC_IO_ERROR_CREATING_FILE : Error creating file: file [chars], ret code [hex], [chars].

Explanation	Token Asynchronous I/O process failed to create a file in USB token device.
Recommended Action	Report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-ASYNC_IO_ERROR_CREATING_DIRECTORY : Error creating directory: dir [chars], ret code [hex], [chars].

Explanation	Token Asynchronous I/O process failed to create a directory in USB token device.
Recommended Action	Report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

%USB_TOKEN_FILESYS-3-ASYNC_IO_ERROR_DECODE_OP_CODE : Unrecognized I/O Op-code: [dec].

Explanation	Token Asynchronous I/O process could not decode the Op-code in an I/O request.
Recommended Action	Report the error message to your technical representative along with the output of 'show usb', 'show usb controller' and 'show file system' commands.

UTD

%UTD-3-UTD_COND_DEBUG_REG_FAILED : Failed to initialize Conditional Debugging for UTD

Explanation	A non-fatal error occurred when attempting to Register/Initialize conditional debugging.
Recommended Action	LOG_STD_ACTION

%UTD-5-UTD_POLICY_NAT_DROP_PKT : NAT packet drop, MSGDEF_LIMIT_SLOW

Explanation	Packet dropped by NAT during UTD policy phase
Recommended Action	Inspect NAT diagnostics to determine reason for packet drop LOG_STD_ACTION

%UTD-5-UTD_POLICY_DROP_PKT : Policy: Dropped packet from vrf [chars] [chars] %CA:[int] => %CA:[int] proto [chars] due to ([int]) [chars] ident [int] [chars], MSGDEF_LIMIT_FAST

Explanation	Packet dropped during packet policy phase for the given reason
Recommended Action	This message is for informational purposed only, but may indicate a security problem. LOG_STD_NO_ACTION

%UTD-4-UTD_INSPECT_DROP_PKT : Inspection: Dropped packet from vrf [chars] [chars] %CA:[int] => %CA:[int] proto [chars] due to ([int]) [chars] ident [int] [chars], MSGDEF_LIMIT_FAST

Explanation	Packet dropped during packet inspection for the given reason
Recommended Action	This message is for informational purposed only, but may indicate a security problem. LOG_STD_NO_ACTION

%UTD-4-UTD_DIVERT_DROP_PKT : Diversion: VPATH decapsulation dropped packet from vrf [chars] [chars] %CA:[int] => %CA:[int] proto [chars] due to ([int]) [chars] ident [int] [chars], MSGDEF_LIMIT_FAST

Explanation	Packet dropped during packet reinjection
Recommended Action	This message is for informational purposed only, but may indicate a security problem. LOG_STD_NO_ACTION

%UTD-4-UTD_ENCAPS_DROP_PKT : Diversion: VPATH encapsulation dropped packet from vrf [chars] [chars] %CA:[int] => %CA:[int] proto [chars] due to ([int]) [chars] ident [int] [chars], MSGDEF_LIMIT_FAST

Explanation	Packet dropped while attempting to add VPATH data
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%UTD-4-UTD_ENCAPS_DROP_PKT : Diversion: VPATH encapsulation dropped packet from vrf [chars] [chars] %CA:[int] => %CA:[int] proto [chars] due to ([int]) [chars] ident [int] [chars], MSGDEF_LIMIT_FAST

Recommended Action This message is for informational purposed only, but may indicate a security problem.
LOG_STD_NO_ACTION

%UTD-1-UTD_HEALTH_CHANGE : Service node changed state [chars] => [chars] ([int])

Explanation Service node and changed health status

Recommended Action Service node has changed status Green - Service node is health. No action required.
Yellow - Service node not accepting new connections. Too many connections for enhanced inspection. Red - Service node is down Check IPS/IDS service node Not detected - Unknown state. Service node not detected Check IPS/IDS service node
LOG_STD_ACTION

%UTD-6-UTD_DF_WHITELIST_MATCH : UTD WebFilter Domain Whitelist [] [Domain: [chars]] [Matched Pattern: [chars]] {[chars]} %CA:[int] -> %CA:[int], MSGDEF_LIMIT_FAST/100**

Explanation DNS domain matched to one of the configured whitelist patterns

Recommended Action This message is for informational purposed only, but may indicate a security problem.
LOG_STD_NO_ACTION

%UTD-6-UTD_DF_BLACKLIST_MATCH : UTD WebFilter Domain Blacklist [] [Domain: [chars]] [Matched Pattern: [chars]] {[chars]} %CA:[int] -> %CA:[int], MSGDEF_LIMIT_FAST/100**

Explanation DNS domain matched to one of the configured blacklist patterns

Recommended Action This message is for informational purposed only, but may indicate a security problem.
LOG_STD_NO_ACTION

%UTD-3-IPC_INVALID_MSG : UTD-Invalid request [int]

Explanation We received an invalid message from another layer of the UTD software stack.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UTD-3-FEAT_DOWN : UTD-Invalid request [chars] ([int]) while feature is down

Explanation	While the feature was not active, an invalid request was received from another layer of the UTD software stack.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%UTD-3-FEAT_CTX_DOWN : UTD-Invalid request [chars] ([int]) while context is down

Explanation	While the feature context was not active, an invalid request was received from another layer of the UTD software stack.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%UTD-3-IPC_OPEN_REPLY : UTD-IPC Open Reply failed, request [int]

Explanation	For a request from upper UTD software stack layers it was not possible to open the reply buffer.
Recommended Action	This is normally a software issue. LOG_STD_RECUR_ACTION

%UTD-3-IPC_NORES : UTD-No space for the IPC reply, size [int], request [int]

Explanation	For a request from upper UTD software stack layers it was not possible to allocate space for a reply for the specified size.
Recommended Action	If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl) . If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case) , or contact your Cisco technical support representative and provide the representative with the gathered information.

%UTD-3-IPC_INVALID_MSG_LEN : UTD-Invalid IPC length, [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation	Invalid IPC message length
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%UTD-3-IPC_INVALID_MSG_LEN : UTD-Invalid IPC length, [dec]:[dec] len [dec] flags [hex] source [dec]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%UTD-3-IPC_SEND_FAILED : UTD-IPC [chars] [int] send failed [int]

Explanation	IPC message send failure
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UTD-2-IPC_INIT_FAILED : UTD-IPC message handler registration failure, rc [int]

Explanation	Registering an IPC message handler for the UTD feature failed. This will cause the feature to not function.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UTD-2-IPC_FAILURE : UTD-IPC message [chars] handler failed, rc [int]

Explanation	An IPC message handler for the UTD feature failed. This will cause the feature to not function.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

UTIL through VOICE_HA

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UTIL

%UTIL-3-RANGEINCON : internal inconsistency [dec] [hex]

Explanation	A fatal software error occurred.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

%UTIL-3-RANGENULLINPUT : null pointer input to range function

Explanation	An attempt was made to access a range function with a NULL pointer. The range list creation failed.
Recommended Action	Review the error log for a corresponding malloc failed message. Copy the error message exactly as it appears, and report it to your technical support representative.

%UTIL-0-ITEMLIST_RESIZE : An attempt was made to resize an itemlist but not enough memory is available

Explanation	An attempt was made to resize itemlist memory to be larger than the memory available. Itemlists are often used when showing interface statistics. This event is unexpected and may be an indication of memory corruption.
Recommended Action	Note any recent commands that may have triggered this error. Copy the error message and traceback exactly as it appears, and report it to your technical support representative.

%UTIL-3-RADIXTREE : Data structure error--[chars]

Explanation	A software error occurred, resulting in a data structure inconsistency.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative. Ask for their assistance in obtaining a version of code with the error fixed.

%UTIL-3-TREE : Data structure error--[chars]

Explanation	A software error occurred, resulting in a data structure inconsistency.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative. Ask for their assistance in obtaining a version of code with the error fixed.

%UTIL-6-RANDOM : A pseudo-random number was generated twice in succession

Explanation	A pseudo-random number generator produced the same number twice in succession.
Recommended Action	Under normal circumstances a pseudo-random number generator will occasionally produce the same number twice in succession and this is not a problem. However if this message occurs frequently, the system should be manually reloaded. If the message is persistent across reloads, copy the error message exactly as it appears, and report it to your technical support representative.

%UTIL-3-IDTREE_TRACE : [chars]

Explanation	A software error occurred, resulting in a data structure inconsistency.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UTIL-3-IDTREE_NOTRACE : [chars]

Explanation	A software error occurred, resulting in a data structure inconsistency.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%UTIL-3-DLL : Data structure error -- [chars]

Explanation	A software error occurred, resulting in data structure inconsistency.
Recommended Action	Copy the error message exactly as it appears, and report it to your technical support representative.

VASI**%VASI-2-DB_ENTRY_ALLOC_FAIL : VASI pair db entry allocation for interface [chars] failed**

Explanation	VASI pair database error. Memory chunk allocation for VASI pair database entry has failed.
Recommended Action	Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute 'show proc memory' command.

%VASI-2-DB_INSERT_FAIL : VASI pair db entry add for interface [chars] failed

Explanation	VASI pair database error. Insertion of a new entry into VASI pair database has failed.
Recommended Action	Check for accurate memory management. Perform memory leak checks, look for memory corruption causes, verify correct database management. Execute 'show proc memory' command.

%VASI-2-DB_DELETE_FAIL : VASI pair db entry delete for interface [chars] failed

Explanation	VASI pair database error. Removal of entry from VASI database has failed.
Recommended Action	Check for accurate memory management. Perform memory leak checks, look for mamory corruption causes and check for correct database management. Execute 'show proc memory' command.

%VASI-2-DB_ENTRY_FREE_FAIL : VASI pair entry free failed

Explanation	VASI pair database error. Memory chunk free of VASI pair database entry has failed.
Recommended Action	Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute 'show proc memory' command.

%VASI-2-DB_ALLOC_FAIL : VASI pair db allocation failed

Explanation	VASI pair database error. Memory chunk creation for VASI pair database has failed.
Recommended Action	Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute 'show proc memory' command.

%VASI-2-DB_DESTROY_FAIL : VASI pair database destroy failed

Explanation	VASI pair database error. Memory chunk destroy has failed for VASI pair database.
Recommended Action	Check for accurate memory management. Perform memory leak checks and look for memory corruption causes. Execute show proc memory command.

VDSL_DAEMON**%VDSL_DAEMON-3-NOPROC : VDSL Daemon [chars] SM create event process failed**

Explanation	The router does not have enough memory run this VDSL/ADSL feature
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VDSL_DAEMON-3-NOMEM : VDSL Daemon [chars] malloc failed : out of memory

Explanation	The router does not have enough memory installed to run this VDSL/ADSL feature
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VDSL_DAEMON-3-MALLOCFAIL : There is not enough main memory for the new VDSL [chars] firmware images on flash

Explanation	The router failed to malloc a buffer for the firmware images on the flash. More DRAM is required for the feature which allows specific VDSL firmware images on the flash to replace the VDSL firmware images embedded in IOS.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VDSL_DAEMON-3-INITFAIL : VDSL Daemon [chars] init failed.

Explanation	The VDSL module hardware may be bad
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VDSL_DAEMON-3-INVALID_DS : Daemon [chars] invalid vdsl instance.

Explanation	Encounter an invalid vdsl instance
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%VDSL_DAEMON-3-INVALID_DS : Daemon [chars] invalid vdsl instance.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VDSL_DAEMON-4-QUEUE_EMPTY : Daemon [chars] configuration queue is empty.

Explanation program is unable to send a message to the queue process.

Recommended Action nothing

%VDSL_DAEMON-4-INVALID_CDB : Invalid daemon [chars] controller [chars].

Explanation Encounter an invalid daemon cdb instance.

Recommended Action nothing

%VDSL_DAEMON-3-FPGA_FAIL : VDSL FPGA Download failed.

Explanation The VDSL module hardware may be bad

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VDSL_DAEMON-3-MODEMRESET : VDSL Modem reset. [chars]

Explanation The VDSL module is under reset.

Recommended Action If this message recurs, copy the error message exactly as it appears on the console or in the system log. Research and attempt to resolve the error using the output Interpreter (<https://www.cisco.com/cgi-bin/Support/OutputInterpreter/home.pl>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VDSL_DAEMON-4-TRAINMODE_NOT_SUPPORTED : [chars] transport mode is not supported on [chars].

Explanation Only ATM is supported on ADSL and PTM/Ethernet is supported on VDSL2).

%VDSL_DAEMON-4-TRAINMODE_NOT_SUPPORTED : [chars] transport mode is not supported on [chars].

Recommended Action Change DSLAM profile to select the correct mode for CPE

%VDSL_DAEMON-3-VDSL_CMD_ADD_FAIL : VDSL [chars] add failed.

Explanation adding a command exceeds the maximum number of commands allowed

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VDSL_DAEMON-3-FIRMWARE_WARN : Need to reload IOS for VDSL PHY firmware file change to take effect

Explanation The old phy firmware is used until IOS is reload

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VDSL_DAEMON-4-MODE_SWITCH : Please save the configuration and reload the Router due to the ATM-PTM mode change on vdsl 0 controller

Explanation Operating mode switch between ATM and PTM mode require reload

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VDSL_DAEMON-3-VDSL_LINE_UPDOWN : Controller [chars], line [dec], changed state to [chars]

Explanation VDSL Line changed state

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

VFI**%VFI-4-CONFIG : [chars]**

Explanation Invalid VFI configuration data passed.

Recommended Action No action is required.

%VFI-3-ILLEGAL : [chars]

Explanation An illegal event has been processed by the xconnect subsystem.

Recommended Action No action is required.

%VFI-6-VFI_STATUS_CHANGED : Status of VFI [chars] changed from [chars] to [chars]

Explanation VFI status has changed

Recommended Action No action is required.

VIDB**%VIDB-3-FORKFAIL : Failed to fork process for [chars].**

Explanation Quite likely, we ran out of memory. Other explanations are possible.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIDB-3-FREETIMENOTSET : Value not specified for vidb forcible free time by platform.

Explanation Platform has requested for delayed vidb recycling support, but hasn't specified any value for forcible free time.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

VINES**%VINES-2-CORRUPTENTRY : Detected a corrupted entry in the [chars] table**

Explanation	The VINES code detected that an internal table entry was corrupted.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative. If possible, clear the VINES routing table or neighbor table, depending on the table in which the corrupted entry was observed. This will result in a temporary loss of connectivity until the routing or neighbor table is rebuilt.

%VINES-2-INVALIDPATH : Bad [chars] in path for neighbor entry %z

Explanation	While searching the neighbor table, the code determined that a pointer that should point to a VINES path structure actually points to some other structure.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative. If possible, clear the VINES neighbor table. This will result in a temporary loss of connectivity until all neighbors and routes are relearned.

%VINES-2-INVALIDROUTE : Bad [chars] in route for server entry %Z

Explanation	While searching the routing table, the code determined that a pointer that should point to a VINES route structure actually points to some other structure.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative. If possible, clear the VINES routing table. This will result in a temporary loss of connectivity until all routes are relearned.

%VINES-2-CONSISTENCY : Error [chars]

Explanation	The VINES code ran into a situation that should not happen. For example, an IPC port number needs to be allocated, but all 65535 port numbers are currently in use. Another possible cause is that VINES attempted to add a cache entry but had no path associated with the destination address. This may cause temporary slow performance to only those stations that have experienced this inconsistency until complete cache entries are added. However, connectivity should not be lost, because all data traffic can still be routed vvia process-level switching.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative. If the warning message is about IPC port number depletion, use the show vines ipc command to check how many IPC ports are currently in use by which services and determine whether the IPC connections are all legitimate. To release IPC ports, issue the clear vines ipc command. If the warning message is about vines cache entries, provide the contents of the vines route cache, neighbor, and route tables immediately after the error messages appeared. If the problem persists, issue the clear vines cache command, and monitor the router if the situation improves.

%VINES-2-NOBUFFERS : No buffers available for [chars]

Explanation	There were no buffers available to send a VINES service query or reply.
Recommended Action	Examine your system's memory and buffer capacity and compare it with current usage. If you notice a substantial discrepancy, monitor your system for possible memory leaks or buffer drainage and report the problem to your technical support representative, along with the output of the show memory, show memory processor, show buffers, show buffers assigned, and show buffers old commands.

%VINES-2-ENCAPFAILED : Encapsulation failed for %#z via %#z on [chars]

Explanation	VINES fast switching encountered an encapsulation failure when building a cache entry for a neighbor.
Recommended Action	Examine your configuration for causes of the encapsulation failure. Look for missing map statements, interfaces that have gone down, and so on. If this error results in lost connectivity, disable vines fast switching by issuing the no vines route-cache command. Because disabling fast switching will slow network perform, you should issue the vines route-cache command to re-enable fast switching as soon as you have identified the cause of the problem. If you cannot identify the cause, contact your technical support representative. Provide the output of the show vines cache, show vines neighbor, and show vines route commands for the destination address and neighboring routers you are using. Also provide the output of the show interface and show vines interface commands for the incoming and outgoing interfaces.

%VINES-2-CACHEFAILED : Cannot build cache entry ([dec] bytes) for %#z on [chars]

Explanation	VINES fast switching detected that the packet destined to a given address did not have proper encapsulation information or its encapsulation size was too large to fit into the cache.
Recommended Action	Verify that the VINES encapsulation and interface-specific mappings for the interface concerned are properly configured. Copy the message exactly as it appears, and report it your technical support representative.

%VINES-2-CACHEUNSUPP : Caching of [chars] not supported on [chars]

Explanation	The cache population routing for VINES fast switching was called for an interface that does not support VINES fast switching.
Recommended Action	Copy the message exactly as it appears, and report it your technical support representative. If other encapsulation types are available on the interface, try using them. If this problem is not limited to one or two destinations but rather occurs with all traffic using the interface, disable VINES fast switching for the interface until you have identified the real cause of the problem.

%VINES-2-DUPADDR : Duplicate address detected on interface [chars]

Explanation	The router detected that its VINES address is being used by another router.
Recommended Action	To identify the other router that is using this address, manually inspect each router's configuration. When you have identified the router with the duplicate address, issue the vines routing recompute command on both routers or issue the enable vines routing command, specifying specify a unique address. If one of the routers does not support the recompute keyword, disable VINES on that router, issue the write terminal command to save the configuration to memory, reboot the router, and then enter the vines routing command with a unique vines address on the offending routers until each router has a unique address.

%VINES-2-BADPARAM : [chars] called with [chars] parameter set to [chars]

Explanation	One of the VINES lookup functions was called with an illegal argument.
Recommended Action	Copy the message exactly as it appears, do a memory dump up to 128 bytes and the location specified in the error message, and report this information to your technical support representative.

%VINES-2-BADTIMER : RTP timer for [chars] was found disabled, and was reset

Explanation	An internal interface timer is not running. This condition usually occurs after an interface is reset.
Recommended Action	No action is required. The system automatically restarts the timer.

%VINES-6-IPCNOROUTINE : IPC port [dec] registered without an upcall ([chars])

Explanation	There is an inconsistency in the active VINES data structure for handling IPC data messages. A message was received for a port that should have a listener, but the listener routine cannot be found.
Recommended Action	Examine the IPC ports currently supported on the router by issuing the show vines ipc command, and see whether the reported IPC port is indeed not active. Copy the message exactly as it appears, and report it to your technical support representative along with the output of the debug vines ipc command.

%VINES-6-RPCNOSERVICE : IPC port [dec] registered without a service

Explanation	There is an inconsistency in the active VINES data structure for handling Net RPC messages. A message was received for a port that should have a service description, but that service description cannot be found.
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%VINES-6-RPCNOSERVICE : IPC port [dec] registered without a service

Recommended Action Enter the show vines ipc command and see whether the reported IPC port has a registered service. Copy the message exactly as it appears, and report it to your technical support representative, if possible, along with output of the debug vines netrpc command.

%VINES-6-RTNNOTFOUND : [chars] service [chars] routine not found while [chars]

Explanation There is an inconsistency in the active VINES service description data structures. A service handler routine cannot find the description of its own service.

Recommended Action Copy the message exactly as it appears, and report it your technical support representative. In addition, provide the output of the show vines service command and debug vines service traces for the service reported in the error message.

%VINES-6-FNNOTFOUND : [chars] service [chars] routine missing [chars] vector

Explanation There is an inconsistency in the static VINES data structures for handling application-layer packets.

Recommended Action Turn on VINES service level debugging for the service reported in the error message, and copy the debug traces and the error message exactly as they appear, and report them to your technical support representative.

%VINES-2-NOENCAP : Encapsulation failed on [chars] for address %#z

Explanation The VINES code tried to send a packet on an interface that does not have a new encapsulation routine for outbound packets.

Recommended Action Toggle the problematic interface by issuing the interface shut and no shut commands, and then issue the no vines metric and vines metric command see if the problem goes away. If the problem persists, copy the message exactly as it appears, and report it your technical support representative. If possible, turn on and provide interface-specific debug traces, particularly for VINES activities.

VIRT_SERVICE

%VIRT_SERVICE-3-INIT_FAIL : Failed to initialize required virtual service object: [chars]

Explanation During the initialization of the resources required for the virtual service feature, a memory allocation failure occurred. This has prevented the virtual service feature from being enabled.

%VIRT_SERVICE-3-INIT_FAIL : Failed to initialize required virtual service object: [chars]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%VIRT_SERVICE-3-ROMMON_UNSUPPORTED : ROM monitor configuration does not support virtualization

Explanation	Virtualization is not supported by the current ROM monitor configuration. Verify both the ROM monitor version and ROM monitor variable ENABLE_VTX are correct to enable virtualization.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-STBY_ROMMON_UNSUPPORTED : Standby ROM monitor configuration does not support virtualization

Explanation	Virtualization is not supported by the current ROM monitor configuration on the standby. Verify both the ROM monitor version and ROM monitor variable ENABLE_VTX are correct to enable virtualization.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-ACTIVATE_FAIL : Failed to send virtual service [chars] activate message

Explanation	During the creation and transmission of the virtual service activate TDL message a failure occurred. The message was not successfully sent and therefore the virtual service was not activated.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-DEACTIVATE_FAIL : Failed to send virtual service [chars] deactivate message

Explanation During the creation and transmission of the virtual service deactivate TDL message a failure occurred. The message was not successfully sent and therefore the virtual service was not deactivated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-UNPROVISION_FAIL : [chars]: [chars]

Explanation During the unprovision of the named virtual service, an unexpected failure occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-STBY_PKG_PATH : Failed to [chars] required by virtual service [chars] on standby

Explanation Specified package definition file was not found on standby. Configuration was accepted. Copy package definition file to standby at earliest convenience.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-4-SWITCHOVER_ACTIVATE : Virtual service [chars] will not be activated following a switchover

Explanation Following a switchover, this virtual service will not be activated as there is an issue with its package definition file. Copy package definition file to standby at earliest convenience.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-PKG_PATH : Failed to [chars] required by virtual service [chars]

Explanation	Specified package definition file was not found following a switchover.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-PKG_PATH_ACTIVATE : Failed to [chars]. Virtual service [chars] will not be activated

Explanation	Specified package definition file was not found following a switchover. Unable to activate virtual service without specified package definition file present.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-INVALID_APPLIANCE_TIMEOUT : A response timeout occurred for an invalid virtual service

Explanation	An unexpected condition occurred where the virtual service context pointer in the expired timer was set to NULL.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-UNKNOWN_APPLIANCE_TIMEOUT : A response timeout occurred for unknown virtual service [chars]

Explanation	A response timeout occurred for a virtual service that is no longer in the virtual service database.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-RESPONSE_TIMEOUT : Virtual service [chars] timed out waiting for a response from Virt-manager

Explanation Failed to receive a response message from Virt-manager for last activation operation performed on the named virtual service. The virtual service activation state was marked as deactivated.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-UPGRADE_TIMEOUT : Virtual service [chars] timed out waiting for a package upgrade response from Virt-manager

Explanation Failed to receive a response message from Virt-manager for last upgrade operation performed on the named virtual service.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-SEND_RF_MSG : Failed to send RF message to peer - [chars]

Explanation An unexpected condition occurred where an attempt to send an RF message to peer failed.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-INVALID_RF_MSG : Received an invalid RF message type from peer

Explanation An unexpected condition occurred where an invalid message type was detected.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-UNKNOWN_RF_MSG : Received an unknown RF message type ([dec]) from peer

Explanation	An unexpected condition occurred where an unknown timer event was detected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-UNKNOWN_TIMEOUT_TYPE : A response timeout occurred for an unknown timeout type ([dec])

Explanation	An unexpected condition occurred where an unknown timeout type was detected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-UNKNOWN_TIMER_EVENT : A timer event occurred for an unknown timer event ([dec])

Explanation	An unexpected condition occurred where an unknown timer event was detected.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-5-ACTIVATION_STATE : [chars] [chars]

Explanation	The activation state of the named virtual service has changed as notified by Virt-manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-3-RESET : Virtual service [chars] reset

Explanation	An unexpected condition has occurred where Virt-manager has reported that it detected the named virtual service reset. This virtual service is not configured to be activated and as such, no attempt to reactivate it will be made.
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%VIRT_SERVICE-3-RESET : Virtual service [chars] reset

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%VIRT_SERVICE-5-RESET_REACTIVATE : Virtual service [chars] reset and will be reactivated

Explanation	Virt-manager has reported that it detected the named virtual service reset. An attempt will be made to reactivate this virtual service.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VIRT_SERVICE-5-INSTALL_STATE : [chars] [chars]

Explanation	The installation state of the named virtual service has changed as notified by Virt-manager.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

VLAN

%VLAN-5-PRIMARY_LINK_NOT_IN_EC : Warning: VLAN [int]'s main interface is not the channel group of primary=[chars]Per-VLAN manual load-balancing will not take effect until channel-group is configured under the primary interface.

Explanation	The interface configured as primary is not a memberlink in the port channel.
Recommended Action	Verify the configuration.

%VLAN-5-SECONDARY_LINK_NOT_IN_EC : Warning: VLAN [int]'s main interface is not the channel group of secondary=[chars]Per-VLAN manual load-balancing will not take effect until channel-group is configured under the secondary interface.

Explanation	The interface configured as secondary is not a memberlink in the port channel.
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%VLAN-5-SECONDARY_LINK_NOT_IN_EC : Warning: VLAN [int]'s main interface is not the channel group of secondary=[chars]Per-VLAN manual load-balancing will not take effect until channel-group is configured under the secondary interface.

Recommended Action Verify the configuration.

%VLAN-3-INTERFACE_NOT_PRESENT : The [chars] link [chars] does not exist. Sub-interface: [chars] VLAN-Id: [int]

Explanation This message appears when the below command is issued (under port-channel sub-interface) with the unknown primary and/or secondary links. encap dot1q <vlan-id> primary <interface> secondary <interface> The interface specified in the command is not available at present. The card might have been physically removed or may not have been inserted properly.

Recommended Action Verify if the interface shows up, using the command - show ip int brief. Please insert the card in case it is removed and run the command again once the card comes up.

VMAN

%VMAN-2-INVALID_PACKAGE : Virtual Service[chars]

Explanation The package definition file for the named virtual service has failed to be validated and the virtual service will not run

Recommended Action Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause. The most likely cause would be that the package file has been corrupted during file transfer. The suggested action would be to redo the file transfer.

%VMAN-2-INVALID_ACT_MSG : Virtual Service[chars]

Explanation The virtual service activate message was received, however, the data it contained could not be interpreted

Recommended Action Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-INVALID_DEACT_MSG : Failed to process virtual service deactivate message

Explanation The virtual service deactivate message was received, however, the data it contained could not be interpreted

Recommended Action Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-CREATE_VIRT_INST_ENTRY : Virtual Service[chars]

Explanation	The request to create a DB entry for the named virtual service failed.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-PROC_INT_LIST : Virtual Service[chars]

Explanation	The interface list embedded in the activate request for the named virtual service could not be processed.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-ALLOC_VIRT_INST_RCS : Virtual Service[chars]

Explanation	A memory allocation request failed to allocate a data structure required to activate the virtual service.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-START_FAILED : Virtual Service[chars]

Explanation	The named virtual service failed to start.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-PROCESS_PKG_DEF : Virtual Service[chars]

Explanation	The virtual service package for the named virtual service has failed to be validated and the virtual service will not run.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-DEFER_VIRT_INST_PROC : Virtual Service[chars]

Explanation	The final activation processing failed to successfully defer.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-COMMIT_VIRT_INST_RCS : Virtual Service[chars]

Explanation	The request to commit the resources required by the named virtual service failed.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-INSERT_VIRT_INST_ENTRY : Virtual Service[chars]

Explanation	Inserting the named virtual service into the virtual service DB tracked by Virt-manager failed.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-VIRT_INST_INTERFACE : Virtual Service[chars]

Explanation	The number of configured virtual port group interfaces must match the number of Ethernet Network Interfaces defined in the machine definition file
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-VIRT_INST_MEMORY : Virtual Service[chars]

Explanation	The virtual service requires physical memory in excess of the free memory available to virtual services.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-VIRT_INST_DISK : Virtual Service[chars]

Explanation	The virtual service requires Disk Storage in excess of the Free Disk Storage available to virtual services.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-INCONSISTENT_MEM_CONFIG : Virtual Service[chars]

Explanation	The virtual service machine definition file is inconsistent in the specification of required memory via the <memory> and <currentMemory> nodes.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-MEMORY_LIMIT_WARN : Virtual service ([chars])[chars] defines [int] MB of Memory exceeding the maximum [int] MB.

Explanation	The virtual service machine definition file is requesting more memory for the specified profile, than the system has available for virtual services.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-MEMORY_LIMIT : Virtual Service[chars]

Explanation	The virtual service machine definition file is requesting more memory than the system has available for virtual services.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-VCPU_LIMIT : Virtual Service[chars]

Explanation	The virtual service machine definition file is requesting more VCPUs than the system has reserved for virtual services.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-DISK_IMAGE_PATH : Virtual Service[chars]

Explanation	The virtual service machine definition file contains an invalid disk image path for one of the disk devices. This may be a Harddisk, CDROM or USB storage device.
Recommended Action	Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-5-VIRT_INST : LOG FROM VIRTUAL SERVICE [chars]: [chars]

Explanation	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.
Recommended Action	No action is required

%VMAN-2-VIRT_INST_CRIT : VIRTUAL SERVICE [chars] LOG: [chars]

Explanation	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.
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%VMAN-2-VIRT_INST_CRIT : VIRTUAL SERVICE [chars] LOG: [chars]

Recommended Action No action is required

%VMAN-3-VIRT_INST_ERR : VIRTUAL SERVICE [chars] LOG: [chars]

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

%VMAN-4-VIRT_INST_WARN : VIRTUAL SERVICE [chars] LOG: [chars]

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

%VMAN-5-VIRT_INST_NOTICE : VIRTUAL SERVICE [chars] LOG: [chars]

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

%VMAN-6-VIRT_INST_INFO : VIRTUAL SERVICE [chars] LOG: [chars]

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

%VMAN-7-VIRT_INST_DEBUG : VIRTUAL SERVICE [chars] LOG: [chars]

Explanation The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.

Recommended Action No action is required

%VMAN-2-VIRT_INST_LOG_UNTHROTTLE : Failed to unthrottle the log for virtual service [chars]

Explanation The named virtual service had sent overwhelming sys log messages and its log had been throttled as a result, but system has failed to unthrottle it for some reason.

Recommended Action For debugging collect the virt-manager logs and scan them for the cause.

%VMAN-2-VIRT_INST_STATE : Virtual Service[chars]

Explanation The named virtual service has failed. It is no longer running either because the guest OS has failed, the guest OS has shut down the machine or the emulator has failed.

Recommended Action An attempt at restarting the virtual service can be made from the IOS configuration by doing a no activate/activate. For debugging collect the Virt-manager logs and scan them for the cause.

%VMAN-2-FIND_VIRT_INST_ENTRY : Failed to find virtual service with id [int] in the Virt-manager DB

Explanation The virtual service with the ID named could not be located in the Virt-manager DB.

Recommended Action Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-REMOVE_VIRT_INST_ENTRY : Virtual Service[chars]

Explanation Removing the named virtual service from the virtual service DB tracked by Virt-manager failed.

Recommended Action Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-SET_VTX_ROMVAR_STRING : Failed to set ROM monitor variable ENABLE_VTX: Invalid string format: [chars]

Explanation Failed to set ENABLE_VTX rom monitor variable due to invalid string format.

Recommended Action Verify format of string from error message.

%VMAN-2-SET_VTX_ROMVAR_SPACE : Failed to set ROM monitor variable ENABLE_VTX: No space in table

Explanation Failed to set ENABLE_VTX ROM monitor variable due to no space in Monitor Variable Table.

%VMAN-2-SET_VTX_ROMVAR_SPACE : Failed to set ROM monitor variable ENABLE_VTX: No space in table

Recommended Action Verify number of entries in Monitor Variable Table.

%VMAN-5-AUX : Virtual Service[chars]

Explanation The AUX login to a virtual service may allow the user access to system functions that may not have been tested or may interact with the system in unintended ways. Use with caution.

Recommended Action No action is required

%VMAN-2-INVALID_UNPROV_MSG : Failed to process virtual service unprovision message

Explanation The virtual service unprovision message was received, however, the data it contained could not be interpreted

Recommended Action Enable the Virt-manager trace logs and repeat the activation followed by deactivation and then unprovision of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-VCPU_INVALID : Virtual Service[chars]

Explanation The virtual service machine definition file is requesting invalid VCPU value.

Recommended Action Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-CPUSHARES_LIMIT : Virtual Service[chars]

Explanation The virtual service machine definition file is requesting more CPU shares than the system has available for virtual services.

Recommended Action Deactivate any other virtual services to free up CPU share resources and activate this virtual service. If that does not address the problem, then enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-MORETHANONE_CPUTUNES_CONFIG : Virtual Service[chars]

Explanation The virtual service machine definition file is requesting more than one CPU tunes parameter.

%VMAN-2-MORETHANONE_CPUTUNES_CONFIG : Virtual Service[chars]

Recommended Action Use a different valid machine definition file for the virtual service. If the problem persists, then enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-INCONSISTENT_CPUTUNES_CONFIG : Virtual Service[chars]

Explanation The virtual service machine definition file is requesting invalid CPU tunes parameter.

Recommended Action Use a different valid machine definition file for the virtual service. If the problem persists, then enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-CPUTUNES_SHARES_LIMIT : Virtual Service[chars]

Explanation The virtual service machine definition file is requesting more CPU shares than the system has available for virtual services.

Recommended Action Deactivate any other virtual services to free up CPU share resources and activate this virtual service. If that does not address the problem, then enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-CPUTUNES_INTERNAL_ERROR : Virtual Service[chars]

Explanation Virt-manager and its associated infrastructure experienced an internal error.

Recommended Action Enable the Virt-manager trace logs and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-MACHINE_TYPE_NOT_SUPPORTED : Virtual Service[chars]

Explanation The virtual service cannot be activated as the machine type specified is not supported.

Recommended Action Enable the support for the machine type and repeat the activation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-INSTALL_FAILURE : Virtual Service[chars]

Explanation The installation of the virtual service failed.

Recommended Action Enable the Virt-manager trace logs and repeat the installation of the virtual service. Collect the Virt-manager logs and scan them for the cause.

%VMAN-2-INSTALL_MEDIA_RETRY : VMAN, VM install media still unavailable.[chars]

Explanation	The install media was not detected. Waiting for udev to complete install media(harddisk) detection.
Recommended Action	After VMAN exceeds the maximum retry limit, verify if install media (harddisk) is accessible and retry the installation again.

%VMAN-2-VIRT_INST_MGMT_INTERFACE : Virtual service [chars] has no management interface defined but it is configured in CLI.

Explanation	A management interface is configured but none is defined.
Recommended Action	Deactivate the virtual service, remove the management interface configuration CLI, and reactivate the virtual-service.

%VMAN-2-GENERAL_FAILURE : Virtual Service[chars]

Explanation	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.
Recommended Action	No action is required

%VMAN-4-UPDATE_WARNING : Virtual Service[chars]

Explanation	The named virtual service has triggered the log. Please interpret the log in the context of the virtual services.
Recommended Action	No action is required

%VMAN-2-MACH_PARSE_FAILURE : Virtual Service[chars]

Explanation	The named virtual service has an invalid parameter specified in the .xml file inside the .ova package
Recommended Action	Fix the .xml file inside the .ova package to have valid values. Then retry installing and activating it

%VMAN-3-SDWRAP_ERR : Description: [chars], errcode: [dec]

Explanation	Debug infrastructure error
Recommended Action	Collect the Virt-manager logs and scan them for the cause.

%VMAN-3-PSS_ERR : Purpose: [chars], URI: [chars], errcode: [dec]

Explanation	Persistent Storage Service handling error
Recommended Action	Collect the Virt-manager logs and scan them for the cause.

%VMAN-3-PSS_SNAPSHOT_ERR : Source URI: [chars], Destination URI: [chars], errcode: [dec]

Explanation	Persistent Storage Service snapshot error
Recommended Action	Collect the Virt-manager logs and scan them for the cause.

%VMAN-4-PACKAGE_SIGNING_LEVEL_CHANGED : Package signing level changed from allow '[chars]' to allow '[chars]'

Explanation	The package certificate signing level global setting has been changed via configuration under the virtual-service global sub-mode.
Recommended Action	Ensure that this setting has been changed as expected by an authorized user.

%VMAN-5-PACKAGE_SIGNING_LEVEL_ON_INSTALL : Package '[chars]' for service container '[chars]' is '[chars]', [chars] '[chars]'

Explanation	A service container software package with the certificate signing level described is being installed.
Recommended Action	Take note of the service container and software package. Verify the software package is expected to be (un)signed as described and has the appropriate contents. Uninstall the package if unsure of the package origins.

%VMAN-2-NETWORK_CONFIG_ERROR : Virtual Service[chars]

Explanation	A network configuration error has been detected for the named virtual service.
Recommended Action	No action is required

%VMAN-2-INSTALL_LOG : [chars] [chars] [chars] [chars]

Explanation	The installation log of the named virtual service, is to provide more information about long running operation, that could affect the control of CLI
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%VMAN-2-INSTALL_LOG : [chars] [chars] [chars] [chars]

Recommended Action No action is required

%VMAN-2-UPGRADE_LOG : [chars] [chars] [chars] [chars]

Explanation The upgrade log of the named virtual service, is to provide more information about long running operation, that could affect the control of CLI

Recommended Action No action is required

%VMAN-2-INSTALL_STATE : [chars] '[chars]' [chars] [chars]

Explanation The installation state of the named virtual service has changed as notified by Virt-manager.

Recommended Action In the failed case, check Virt-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.

%VMAN-2-UNINSTALL_ALL_VMS : All Virtual Services are being uninstalled [chars][chars] [chars]

Explanation All virtual services are being uninstalled by Virt-manager.

Recommended Action Examine the reason given as to why all virtual services are being uninstalled for more information. If the reason indicated is due to some error condition, check Virt-manager's logs for the cause of the failure.

%VMAN-2-ACTIVATION_STATE : [chars] '[chars]' [chars] [chars]

Explanation The activation state of the named virtual service has changed as notified by Virt-manager.

Recommended Action In the failed case, check Virt-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.

%VMAN-4-WATCHDOG_TIMER : [chars] '[chars]' [chars] [chars]

Explanation The watchdog timer configured for the named virtual service has expired.

Recommended Action Check any logs produced by the virtual service to determine the cause.

%VMAN-2-HA_SYNC_ERR : [chars] '[chars]' [chars]

Explanation The ha-sync persistent storage disk for the virtual service cannot be watched for sync to standby RP.

Recommended Action Collect the Virt-manager logs and scan them for the cause.

%VMAN-4-VIRT_SERV_LIBVIRT_D_WARN : VMAN not able to connect to the libvirt daemon after '[dec]' attempts

Explanation VMAN has been unable to connect to the libvirt daemon. Virtualization services will not be available until this connection is made.

Recommended Action Collect the logs produced by 'show virt tech'

%VMAN-2-DEACT_FOR_ISSU : [chars] Max ([int]s)

Explanation An ISSU event is pending. Any active VMs will be automatically deactivated to allow ISSU preprocessing to validate the environment. Any ISSU-deactivated VMs will be automatically restarted if the ISSU is cancelled.

Recommended Action None. Allow the ISSU to continue and the VMs will restart when the ISSU completes or cancel the ISSU and vman will automatically

%VMAN-2-RESET_FORCE : Virtual Services non-recoverable reset command processed

Explanation A 'virtual service reset force' command has been entered and processed. This action initiates a cleanup of last resort. Occasionally a VM will get into an unrecoverable state that prevents it from activating but also from uninstalling. This is a rare event but when it happens the only resort may be to remove the .conf control file and reboot, which forces a cleanup of all previously installed VM files and artifacts. Note that once this command is used, current VMs are considered to be in an unstable or unpredictable state, and all future install, uninstall, upgrade, and activation commands will be blocked.

Recommended Action Once the command is entered and accepted, there is no recourse but to restart the system.

%VMAN-2-MOVE_STATE : [chars] '[chars]' [chars] [chars]

Explanation The move of the core or log file of the named virtual service has as been successful or failed as notified by Virt-manager.

Recommended Action In the failed case, check Virt-manager's logs for the cause of the failure. In the successful case, this notification can be ignored.

%VMAN-2-RSYNC_STATE : [chars] [chars] [chars] [chars]

Explanation	VMAN tries to remote sync the virtual-instance configuration file and the OVA repository to all online nodes. If rsync fails even after consecutive retries, this notification would be raised.
Recommended Action	In the failed case, check Virt-manager's logs for the cause of the failure. Check for the rsync error code and root cause the same.

%VMAN-2-HA_SYNC_THREAD_STATE : HA remote synchronize thread has failed and exited.

Explanation	VMAN tries to remote sync the OVA repository to all online nodes using a separate thread. If that thread fails, this notification would be raised.
Recommended Action	In the failed case, check Virt-manager's logs for the cause of the failure. Check for the pthread error msg and root cause the same.

%VMAN-2-HA_STATE : [chars] [chars] [chars] [chars]

Explanation	VMAN tries to detect the role/slot of various nodes on HA events from the platform. If any of those event callbacks fail, this notification would be raised.
Recommended Action	In the failed case, check Virt-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.

%VMAN-2-HA_SWITCHOVER_STATE : [chars] [chars] [chars] [chars]

Explanation	VMAN HA switchover state related messages for a virtual-service whilst it is being recovered on newly active RP after a HA switchover.
Recommended Action	In the failed case, check Virt-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.

%VMAN-4-HA_SYNC_NEEDED : If using the guest shell, please use 'guestshell sync' if you want to preserve state on standby in case of supervisor switchover

Explanation	Message notifying user that he needs to manually synchronize the Virtual service contents to standby supervisor in order to preserve these contents in case of a supervisor switchover. Currently only applicable to the guest shell
Recommended Action	User can type the 'guestshell sync' command on active supervisor to synchronize it's contents to the standby supervisor if desired.

%VMAN-2-RESIZE_OPER_STATE : Virtual service '[chars]' [chars][chars] to '[int]' [chars]

Explanation VMAN attempts to resize various VM parameters like rootfs size, CPU share, memory if requested by user. Success/failure status messages for these resize operations are communicated by this syslog.

Recommended Action In the failed case, check Virt-manager's logs for the cause of the failure. Check for the HA event error msg and root cause the same.

%VMAN-2-GUESTSHELL_ENABLED : The guest shell has been enabled. The command '[chars]' may be used to access it, '[chars] destroy' to remove it.

Explanation Informs the user that the guest shell virtual service has been enabled (which is done by default).

Recommended Action The user may use or remove the guest shell with the commands specified.

%VMAN-5-PERMISSION_DENIED : Virtual Service '[chars]' is not owned by client IOSd

Explanation An attempt was made to modify a virtual-service that is not owned by the client. The request was rejected.

Recommended Action No action is required.

VOICE_HA

%VOICE_HA-7-STATUS : [chars].

Explanation VOICE HA INFRA info/status messages.

Recommended Action None

%VOICE_HA-1-SELF_STATE_PROTECTED : [chars] RG[[dec]] [chars].

Explanation VOICE HA functionality has been disabled in this router due to call checkpointing failure.

Recommended Action Router need immediate reload.

%VOICE_HA-1-INTERFACE_DOWN : [chars] RG[[dec]] [chars].

Explanation Interface went down

%VOICE_HA-1-INTERFACE_DOWN : [chars] RG[[dec]] [chars].

**Recommended
Action**

%VOICE_HA-5-PEER_STATE_READY : [chars] RG[[dec]] VOICE HA Peer exiting from PROTECTED state.

Explanation VOICE HA functionality is enabled on peer.

**Recommended
Action**

%VOICE_HA-5-PEER_STATE_PROTECTED : [chars] RG[[dec]]. HA functionality disabled for Voice.

Explanation VOICE HA functionality is disabled on the peer. due to call checkpointing failure.

**Recommended
Action** Peer Router need immediate reload.

%VOICE_HA-2-BULK_SYNC_ERR : [chars].

Explanation VOICE HA INFRA encountered a bulk-sync error.

**Recommended
Action** Collect requested data/traceback and forward to the voice-ha component.

%VOICE_HA-2-SYM_DATA_COLLECT_ERR : UC-INFRA HA module [chars] reported DATA COLLECT failure (CID:[dec]) with error code [dec].

Explanation Specified HA module reported error during call leg data collection.

**Recommended
Action** Collect requested data/traceback and forward to the appropriate DDTS-component/module owner of the specified HA module for investigation.

%VOICE_HA-3-DATA_COLLECT_ERR : ([chars]): HA Module [chars] reported DATA COLLECT failure (mainst ID:[dec], CID:[dec]).

Explanation Specified HA module reported error during call leg data collection.

**Recommended
Action** Collect requested data and forward to the appropriate DDTS-component/module owner of the specified HA module for investigation.

%VOICE_HA-2-SYM_DATA_RECREATE_ERR : UC-INFRA HA module [chars] reported RECREATE failure (CID:[dec]) with error code [dec].

Explanation	Specified HA module reported error during call leg re-create.
Recommended Action	Collect requested data/traceback and forward to the appropriate DDTS-component/module owner of the specified HA module for investigation.

%VOICE_HA-3-DATA_RECREATE_ERR : ([chars]): HA Module [chars] reported [chars] RECREATE failure (mainst ID:[dec], CID:[dec]).

Explanation	Specified HA module reported error during call leg re-create.
Recommended Action	Collect requested data and forward to the appropriate DDTS-component/module owner of the specified HA module for investigation.

%VOICE_HA-1-DATA_RECREATE_ERR_THRESHOLD : ([chars]): RECREATE_ERR have exceeded threshold counts; performance degradation may occur. Most recent error: Module [chars] reported [chars] RECREATE failure (mainst ID:[dec], CID:[dec]) on STANDBY.

Explanation	Specified HA module reported error during call leg re-create.
Recommended Action	Collect requested data and forward to the appropriate DDTS-component/module owner of the specified HA module for investigation.

%VOICE_HA-2-SWITCHOVER_IND : [chars].

Explanation	VOICE HA detected a failover transition on the STANDBY to become the new ACTIVE.
Recommended Action	Verify calls on the new ACTIVE. Peer needs to be in STANDBY mode before the next failover.

VOICE_IEC through WANPHY

- [VOICE_IEC](#)
- [VOICE_REG_CRED](#)
- [VPDN](#)
- [VRFS](#)
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- [VRRS](#)
- [VSTATS](#)

- VTCP
- VTSP
- WANPHY

VOICE_IEC

%VOICE_IEC-3-GW : [chars]: Internal Error ([chars]): IEC=[dec].[dec].[dec].[dec].[dec].[dec] on callID [dec] [chars]

Explanation	An internally-detected error has caused a voice call to be released or terminated. An Internal Error Code (IEC) has been generated to report the error. This IEC will be logged in the accounting record for this call. In addition it is being reported through syslog because of the voice iec syslog configuration.
Recommended Action	Refer to the IEC Error Message Decoder at http://www.cisco.com/univercd/cc/td/doc/product/voice/vtgemd.htm and enter the IEC, or enter the show voice iec description IECvalue command, with IECvalue being the value of the IEC that was received, for more information on the details of this error. It is possible some debugging actions might also indicate the cause of the error.

%VOICE_IEC-3-GK : [chars]: Internal Error ([chars]): IEC=[dec].[dec].[dec].[dec].[dec].[dec] on GUID [chars] confid [chars]

Explanation	An internally-detected error has caused a voice call to be released or terminated. An Internal Error Code (IEC) has been generated to report the error. This IEC will be logged in the accounting record for this call. In addition it is being reported through syslog because of the voice iec syslog configuration.
Recommended Action	Refer to the IEC Error Message Decoder at http://www.cisco.com/univercd/cc/td/doc/product/voice/vtgemd.htm and enter the IEC, or enter the show voice iec description IECvalue command, with IECvalue being the value of the IEC that was received, for more information on the details of this error. It is possible some debugging actions might also indicate the cause of the error.

%VOICE_IEC-3-EXT : Externally-generated Internal Error Code received: [dec].[dec].[dec].[dec].[dec].[dec]

Explanation	Some external entity has initiated the termination of a voice call. It has signalled its Internal Error Code to this gateway, to be reported in the accounting record for this call. In addition, it is being reported through syslog because of the voice iec syslog configuration.
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%VOICE_IEC-3-EXT : Externally-generated Internal Error Code received: [dec].[dec].[dec].[dec].[dec].[dec]

Recommended Action	Refer to the IEC Error Message Decoder at http://www.cisco.com/univercd/cc/td/doc/product/voice/vtgemd.htm and enter the IEC, or enter the show voice iec description IECvalue command, with IECvalue being the value of the IEC that was received, for more information on the details of this error. It is possible some debugging actions might also indicate the cause of the error.
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VOICE_REG_CRED

%VOICE_REG_CRED-6-ADDED : VOICE-REG-POOL-[dec] Credentials of new user ([chars]) added to voice register pool

Explanation	Credentials on Phone Pool Added
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Recommended Action	No action is required.
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%VOICE_REG_CRED-6-UPDATED : VOICE-REG-POOL-[dec] Credentials of user ([chars]) updated in voice register pool

Explanation	Credentials on Phone Pool Updated
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Recommended Action	No action is required.
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%VOICE_REG_CRED-6-REMOVED : VOICE-REG-POOL-[dec] Credentials of user ([chars]) removed from voice register pool

Explanation	Credentials on Phone Pool Removed
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Recommended Action	No action is required.
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%VOICE_REG_CRED-6-AUTOREG_PWD_ADDED : Password added to auto register

Explanation	AutoRegister Password Added
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Recommended Action	No action is required.
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%VOICE_REG_CRED-6-AUTOREG_PWD_UPDATED : Password updated in auto register

Explanation	AutoRegister Password Updated
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%VOICE_REG_CRED-6-AUTOREG_PWD_UPDATED : Password updated in auto register

Recommended Action No action is required.

%VOICE_REG_CRED-6-AUTOREG_PWD_REMOVED : Password removed from auto register

Explanation AutoRegister Password Removed
Recommended Action No action is required.

%VOICE_REG_CRED-6-ATA_IVR_PWD_ADDED : VOICE-REG-POOL-[dec] ATA IVR Pin added to voice register pool

Explanation ATA IVR Pin Added
Recommended Action No action is required.

%VOICE_REG_CRED-6-ATA_IVR_PWD_UPDATED : VOICE-REG-POOL-[dec] ATA IVR Pin updated in voice register pool

Explanation ATA IVR Pin Updated
Recommended Action No action is required.

%VOICE_REG_CRED-6-ATA_IVR_PWD_REMOVED : VOICE-REG-POOL-[dec] ATA IVR Pin removed from voice register pool

Explanation ATA IVR Pin Removed
Recommended Action No action is required.

%VOICE_REG_CRED-6-PIN_ADDED : VOICE-REG-POOL-[dec] Pin added to voice register pool

Explanation Pin Added
Recommended Action No action is required.

%VOICE_REG_CRED-6-PIN_UPDATED : VOICE-REG-POOL-[dec] Pin updated in voice register pool

Explanation	Pin Updated
Recommended Action	No action is required.

%VOICE_REG_CRED-6-PIN_REMOVED : VOICE-REG-POOL-[dec] Pin removed from voice register pool

Explanation	Pin Removed
Recommended Action	No action is required.

VPDN

%VPDN-6-CLOSED : [chars] [chars][chars] closed [chars] [chars] [chars][chars][chars]

Explanation	The remote server, typically the HGW/LNS closed this session. The reason for the closure is encoded in a hexadecimal format and corresponds to the particular protocol descriptions i.e. for L2F the values are documented in section 4.4.5 of the Internet Draft. A description string may also be present which describes the closure reason.
Recommended Action	Check configuration on the NAS/LAC or HGW/LNS

%VPDN-6-DOWN : [chars] [chars][chars] changed state to down [chars] [chars] [chars][chars][chars]

Explanation	The remote server, typically the HGW/LNS closed this tunnel. The reason for the closure is encoded in a decimal format, which corresponds to the particular protocol descriptions i.e. for L2F the values are documented in section 4.4.5 of the Internet Draft. A description string may also be present which describes the closure reason.
Recommended Action	Check configuration on the NAS/LAC or HGW/LNS

%VPDN-6-AUTHENERR : [chars] [chars][chars] cannot authenticate for [chars] [chars] [chars][chars][chars]

Explanation	The NAS/LAC or HGW/LNS is unable to locate a AAA server for the purposes of authenticating the user or tunnel. An error of this type indicates that the router was unable to establish a network connection with the designated/configured server. A reason string may also be present to provide further information.
Recommended Action	Check AAA configuration on the NAS/LAC or HGW/LNS and network connectivity to the AAA server(s).

%VPDN-6-AUTHENFAIL : [chars] [chars][chars], [chars]authentication failure [chars]for [chars] [chars] [chars][chars][chars]

Explanation	The NAS/LAC or HGW/LNS has failed to authenticate a user or a tunnel, or the HGW/LNS has failed authentication with the client which initiated the session. For authentication failures of the user or tunnel a reason string should be present which will indicate the point of failure. When a client fails to authenticate the HGW a reason string may be present depending upon the point of failure.
Recommended Action	Check username configuration on the NAS/LAC or HGW/LNS and possibly even the client if the HGW/LNS is failing authentication, removing the negotiation of outbound authentication is one possible solution i.e. only authenticate the user in the inbound direction. If AAA is applicable, check AAA configuration on the NAS/LAC or HGW/LNS and network connectivity to the AAA server(s).

%VPDN-6-AUTHORERR : [chars] [chars][chars] cannot authorize for [chars] [chars] [chars][chars][chars]

Explanation	The NAS/LAC or HGW/LNS is unable to locate a AAA server for the purposes of authorizing the user or tunnel. An error of this type indicates that the router was unable to establish a network connection with the designated/configured server. A reason string may also be present to provide further information.
Recommended Action	Check AAA configuration on the NAS/LAC or HGW/LNS and network connectivity to the AAA server(s).

%VPDN-6-AUTHORFAIL : [chars] [chars][chars], [chars]authorization failure for [chars] [chars] [chars][chars][chars]

Explanation	The NAS/LAC or HGW/LNS has failed to authorize a user or a tunnel. A reason string may be present to indicate the point of failure.
Recommended Action	Check authorization configuration on the NAS/LAC or HGW/LNS. If AAA is applicable, check network connectivity to the AAA server(s).

%VPDN-5-UNREACH : [chars] [chars][chars] is unreachable

Explanation	The NAS/LAC or HGW/LNS has timed out attempting to establish a tunnel connection to a HGW/LNS or NAS/LAC. This may be due to network or authentication/authorization issues.
Recommended Action	Check configuration on the NAS/LAC or HGW/LNS, check network connectivity between the NAS/LAC and HGW/LNS. Check if the tunnel setup needs to have a different source IP address from that of the NAS/LAC.

%VPDN-5-NOIDB : [chars] [chars][chars] unable to terminate user [chars]

Explanation	The HGW/LNS is out of resources to create sessions for VPDN forwarded users, in particular it has reached the maximum number of interfaces allowed on the router.
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%VPDN-5-NOIDB : [chars] [chars][chars] unable to terminate user [chars]

**Recommended
Action**

%VPDN-4-SESSIONERROR : [chars] [chars][chars] unable to terminate user [chars][chars][chars]

Explanation The HGW/LNS was unable to complete the forwarding of the VPDN user due to an internal error. This error may be resource related or configuration related. A reason string may be present to indicate the point of failure.

**Recommended
Action** Check the configuration on the HGW/LNS

%VPDN-3-NORESOURCE : [chars] [chars][chars] no resources for user [chars][chars][chars]

Explanation The NAS/LAC or HGW/LNS is out of resources for the forwarding of a VPDN user.

**Recommended
Action**

%VPDN-6-TIMEOUT : [chars] [chars][chars] disconnected [chars] [chars] [chars][chars][chars]

Explanation The NAS/LAC or HGW/LNS has disconnected the user due to the expiration of a timer, this may be e.g. PPP negotiation related or an absolute timeout for the session.

**Recommended
Action**

%VPDN-6-SOFTSHUT : [chars] [chars][chars] has turned on softshut and rejected [chars] [chars] [chars][chars][chars]

Explanation The NAS/LAC or HGW/LNS can no longer accept new connection when softshut has been turned on. Existing session will continue until termination.

**Recommended
Action**

%VPDN-4-REFUSED : Session for [chars] Refused status = [hex]

Explanation The remote server refused this session.

**Recommended
Action** Check configuration on the HG or LNS

%VPDN-6-RESIZE : Updated [chars] MID table size to [int]

Explanation The NAS/LAC or HGW/LNS has altered the size of the session table through command line configuration.

Recommended Action

%VPDN-6-MAX_SESS_EXCD : [chars] [chars][chars] has exceeded configured local session-limit and rejected [chars] [chars] [chars][chars][chars]

Explanation The NAS/LAC or HGW/LNS has refused this session since the configured maximum VPDN session limit has been reached.

Recommended Action

%VPDN-3-IP_SWITCH_ERR : l2x ip switching vector not installed

Explanation Platform dependent l2x ip cef switching module is missing.

Recommended Action

%VPDN-3-DROP_ADDR_MISMATCH : [chars]

Explanation The remote server changed its address.

Recommended Action Change initiate-to configuration at the LAC to point to the exact IP address LNS will use

%VPDN-6-VPDN_DEADCACHE_EVENT : LSG dead cache entry [IP_address] [chars]

Explanation A dead cache entry status is changed in the VPDN Load Sharing Group (LSG) table. The event could be 'Added', where a LSG entry goes Down, 'Deleted', where an entry moves out of the Down status, or 'Cleared', where an entry is cleared by a user.

Recommended Action

%VPDN-6-TUNNEL_IN_RESYNC : [chars] [chars] [chars] tunnel is in HA resync, reject [chars] [chars] [chars]

Explanation The tunnel towards the peer is still in High Availability (HA) resync, hence it cannot bring up any new sessions until the resync is complete.

%VPDN-6-TUNNEL_IN_RESYNC : [chars] [chars] [chars] tunnel is in HA resync, reject [chars] [chars] [chars]

Recommended Action It is normal for this to occur during tunnel High Availability (HA) resync phase. New sessions cannot be brought up on a tunnel that is in HA resync. Once resync is complete, new sessions can be brought up on this tunnel.

%VPDN-6-QUEUED_PACKET_INFO : UnsetQ reached msg alert threshold. local_cc_id=[int], unsetQ=[int], resendQ=[int], max_unsetQ=[int], max_resendQ=[int]

Explanation UsentQ size has reached the message alert threshold. Message alert threshold can be configured through CLI 'vpdn queuesize-alert <num>'.

Recommended Action

VRFS

%VRFS-3-SBINIT : Error initializing [chars] subblock data structure. [chars]

Explanation Initialization of the specified subblock data structure could not be accomplished.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VRFS-3-SBNOFN : Missing [chars] subblock [chars] function for [chars]

Explanation Functions for distributing this subblock are missing from the image.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

VRRP

%VRRP-6-STATECHANGE : [chars] Grp [dec] state [chars] -> [chars]

Explanation The VRRP router has changed state

Recommended Action No action is required.

%VRRP-4-BADAUTHTYPE : Bad authentication from [IP_address], group [dec], type [dec], expected [dec]

Explanation	Two routers participating in VRRP disagree on the valid authentication type.
Recommended Action	Use the vrrp authentication command to repair the VRRP authentication discrepancy between the local system and the one whose IP address is reported.

%VRRP-4-BADAUTH : Bad authentication from [IP_address], group [dec], type [dec]

Explanation	Two routers participating in VRRP disagree on authentication
Recommended Action	Use the vrrp authentication command to repair the VRRP authentication discrepancy between the local system and the one whose IP address is reported.

%VRRP-3-ERROR : Internal error, [chars]

Explanation	An internal software error occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VRRP-4-WARN : Internal warning, [chars]

Explanation	An internal software warning occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VRRP-4-CFG_WARN : [chars]

Explanation	There is a mismatch in the number of additional addresses advertised by the peer; or the addresses are mis-ordered in the peer advertisement.
Recommended Action	No action is required.

%VRRP-6-STATE : [chars]

Explanation	The VRRP router has changed state.
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%VRRP-6-STATE : [chars]

Recommended Action No action is required.

%VRRP-6-INFO : Internal info, [chars]

Explanation An internal software information message occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

VRRS

%VRRS-3-ACCTFORKFAIL : Failed to start accounting process. Accounting-off records may not be sent.

Explanation Failed to create the accounting process.

Recommended Action Free up some memory.

%VRRS-3-ERROR : Internal error, [chars]

Explanation An internal software error occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VRRS-4-WARN : Internal warning, [chars]

Explanation An internal software warning occurred.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VRRS-6-STATE : [chars]

Explanation	The VRRS router has changed state.
Recommended Action	No action is required.

%VRRS-6-INFO : Internal info, [chars]

Explanation	An internal software information message occurred.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

VSTATS

%VSTATS-6-VCSR : SEQ=[int]:[chars]

Explanation	The text data are pushed out as voice call statistics records(VCSR).
Recommended Action	The statistics text data should be reordered with the given SEQ number if one large message is chopped into multiple segments. The text data can be parsed/uploaded to be processed in more elegant form.

%VSTATS-6-IEC : SEQ=[int]:[chars]

Explanation	The text data are pushed out as internal error code(IEC).
Recommended Action	The statistics text data should be reordered with the given SEQ number if one large message is chopped into multiple segments. The text data can be parsed/uploaded to be processed in more elegant form.

VTCP

%VTCP-3-VTCP_CREATE_CB_MALLOC_FAILED :

Explanation	Malloc failed during VTCP create callback.
Recommended Action	LOG_STD_ACTION

VTSP**%VTSP-3-NOEVENT : no free event structure available from [chars] for DSP message**

Explanation	There were no event structures remaining in the system pools to alert the router of a voice or signaling event.
Recommended Action	Check that the voice port for which the event was reported is still operational. If not, clear the voice port.

%VTSP-3-CAPABILITYMISMATCH : voice port [chars]: call connection id [[hex] [hex] [hex] [hex]]

Explanation	There was a capabilities mismatch between the two call legs. capabilities are negotiated between call legs for CODEC, VAD and FAX rate.
Recommended Action	Check that the dial peer configuration is appropriate for the interface in question. Also check that and configuration on the interface is correct.

%VTSP-3-DSPALARM : channel [chars], DSP ID [hex]: status=[hex] message=[hex] text=[chars]

Explanation	The DSP reported a fatal error. All calls on the DSP were dropped and a DSP reload was attempted.
Recommended Action	Verify that the DSP reloaded properly by attempting to place a call on the affected voice port. Contact your technical support representative, include the full text of the error message.

%VTSP-3-FSM_ERROR : [chars]

Explanation	Internal Finite State Machine Error.
Recommended Action	Contact your technical support representative, include the full text of the error message.

%VTSP-3-DSP_TIMEOUT : DSP timeout on channel [chars], event [hex]: DSP ID=[hex]: [chars] (call mode=[dec])

Explanation	Timeout on DSP response.
Recommended Action	The DSP has been automatically reset. If problem persists, contact your technical support representative

%VTSP-4-FSM_BAD_EVENT : Invalid FSM Input on channel [chars]: state=[chars] event=[dec]

Explanation	Internal state machine illegal input. This message represents an internal software fault and may manifest itself as dropped or hung calls.
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%VTSP-4-FSM_BAD_EVENT : Invalid FSM Input on channel [chars]: state=[chars] event=[dec]

Recommended Action Contact your field service representative if indication is coincident with dropped or hung calls.

%VTSP-3-DOCALLHISFAIL : vtsp_do_call_history: [chars]

Explanation Allocate or insert an active VTSP call record into call history list failed.

Recommended Action No action is required.

%VTSP-3-MSGSNDFAIL : channel:[chars] DSP ID:[hex] Message ID:[hex]

Explanation A message could not be sent to the DSP. The call continued but may have experienced problems.

Recommended Action Verify that the DSP is still functioning properly by attempting to place a call on the affected voice port. Contact your technical support representative, include the full text of the error message.

%VTSP-3-VTSP_BLOCK : vtsp_call_block allocate failed

Explanation VTSP call block allocation failed.

Recommended Action Add more memory

%VTSP-3-VTSP_CALL_INFO_CHUNK : VTSP callInfo chunk creation failed.

Explanation Creation of VTSP callInfo chunk failed due to lack of memory.

Recommended Action Add more memory.

%VTSP-3-VTSP_DB_ERR : vtsp_call_block database error

Explanation Internal VTSP call block database error. This message represents an internal software fault and may manifest itself as dropped or hung calls.

Recommended Action Contact your technical support representative, include the full text of the error message.

%VTSP-3-VTSP_HAIRPINN : hairpin peer cdb does not exist, cdb [hex], dst_call_id [dec]

Explanation	A hairpin call setup failed because the other call leg does not exist.
Recommended Action	Contact your technical support representative. Report the configuration, and the full text of the error message.

%VTSP-3-VTSP_HAIRPIN_NOTPOSSIBLE : Call can't be hairpinned. cdb [hex], dst_cdb [hex], dst_call_id [dec]

Explanation	A DSP-less call could not be hairpinned.
Recommended Action	Check the dial-peer configuration.

%VTSP-3-VTSP_HAIRPIN_FAILED : Call hairpinning failed. cdb [hex], dst_cdb [hex], dst_call_id [dec]

Explanation	A DSP-less call could not be hairpinned.
Recommended Action	Under heavy traffic, this failure may happen because no TDM resources were available. Contact your technical support representative, include the full text of the error message.

%VTSP-3-VTSP_CALL_DISC_FAILED : VTSP call disconnect failed. channel id [chars], ret [dec]

Explanation	VTSP call disconnect could not be successfully passed and it may result hung calls.
Recommended Action	Contact your technical support representative. Report the configuration and full text of the error message.

%VTSP-4-VTSP_PLAR_TIE_FAILED : VTSP connection plar tie set up failed. channel id [chars], cause [dec]

Explanation	Connection plar tie set up failed for non-normal reason
Recommended Action	Contact your technical support representative. Report the configuration and full text of the error message.

%VTSP-6-UNKNOWN_EXT_AGENT_RESET_ATTEMPT : Request to reset an unknown external agent (ID [dec]) attempted. Attempt ignored.

Explanation	A request to reset an external agent (eg H323 Gatekeeper or MGCP CA etc) was attempted but IOS doesn't know how to process the request. This is not usually a problem for the router. It does however mean that the external agent for whom the reset was intended never got it.
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%VTSP-6-UNKNOWN_EXT_AGENT_RESET_ATTEMPT : Request to reset an unknown external agent (ID [dec]) attempted. Attempt ignored.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VTSP-6-LONG_DUR_CALL_DETECTED : Long Duration Call is detected [chars]

Explanation The call is active for configured duration of long call

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%VTSP-2-H320_MATCH_CALL_QUEUE_ERROR : Memory corruption is found on H.320 Primary Call Match Data Queue. Queue Size=[dec]

Explanation Failed to match an H.320 primary call for an incoming call due to memory corruption.

Recommended Action Contact your technical support representative. Report the configuration and full text of the error message.

WANPHY

%WANPHY-4-WANALARM : [chars]: [chars] [chars]

Explanation The specified WANPHY Alarm has been declared or cleared.

Recommended Action Recommended action is to repair the source of the alarm.

WCCP through XDR

- [WCCP](#)
- [WEBSERVER](#)
- [WLCLIENT_IPSG_PROXY](#)
- [WLS_FQDN_PROXY](#)
- [WSMAN](#)

- WUILOGIN
- X25
- XCCTSP_VOICE
- XCONNECT
- XDR

WCCP

%WCCP-1-SERVICELOST : Service [chars][chars][chars] lost on WCCP client [chars]

Explanation	WCCP has lost the service associated the specified WCCP client
Recommended Action	Verify the operation of the specified WCCP client

%WCCP-5-SERVICEFOUND : Service [chars][chars][chars] acquired on WCCP client [chars]

Explanation	WCCP has acquired a service on the specified WCCP client
Recommended Action	No action is required.

%WCCP-5-SERVICEMISMATCH : Service [chars][chars][chars] mismatched on WCCP client [chars]

Explanation	WCCP has rejected a mismatched service on the specified WCCP client
Recommended Action	Amend the WCCP service definition

%WCCP-3-MASKACLMERGE : Mask/ACL merge failed for the service [chars], VRF [chars], service Id [dec]

Explanation	An internal error indicating that the Mask/ACL merge has failed
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WCCP-1-SERVICELIST : Failed to derive service [chars][chars][chars] from service-list [chars]

Explanation	The WCCP Access Control List used to define the specified closed service has been modified and can no longer be used to create the service. The service has been marked as inactive. Either change the configuration to an Open service or update the ACL to correctly identify the desired service
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%WCCP-1-SERVICELIST : Failed to derive service [chars][chars][chars] from service-list [chars]

Recommended Action Update the service-list ACL to correctly define the desired service

%WCCP-3-SBCREATEFAIL : Unable to allocate [chars] WCCP subblock on interface [chars]

Explanation An internal error indicating that the WCCP process was unable to allocate memory to hold interface specific service information

Recommended Action Ensure that there is enough memory available for all processes

%WCCP-3-SBADDFAIL : Unable to add [chars] WCCP subblock on interface [chars]

Explanation An internal error indicating that the WCCP process was unable to attach interface specific service information

Recommended Action Ensure that there is enough memory available for all processes

%WCCP-3-BADACE : Service [chars][chars][chars], invalid access-list entry (seq:[dec] reason:[chars])

Explanation The Access Control List associated with the specified WCCP service contains an incompatible entry. The hardware cannot process the resultant merged access list and will fall back to software based netflow switching

Recommended Action Update the Access Control List to remove or change the incompatible entry

%WCCP-3-SBINIT : Error initializing [chars] WCCP subblock data structure. [chars]

Explanation Initialization of the specified subblock data structure could not be accomplished.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WCCP-3-CAP_API_INI : Failed to initialize WCCP platform parameter [int]

Explanation Initialization of a WCCP platform parameter failed.

%WCCP-3-CAP_API_INI : Failed to initialize WCCP platform parameter [int]

Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.
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%WCCP-3-CAP_API_DEF : Failed to set WCCP platform parameter defaults [hex] ([chars])

Explanation	The platform failed to set the WCCP platform parameter defaults.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WCCP-3-CAP_API_GET : Failed to get WCCP platform parameter [int] ([chars])

Explanation	The platform failed to read a WCCP platform parameter.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WCCP-3-CAP_API_SET : Failed to set WCCP platform parameter [int] to [int] ([chars])

Explanation	The platform failed to modify a WCCP platform parameter.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WCCP-3-SIFIGNORED : source-interface [chars] ignored ([chars])

Explanation	The configured source interface has been ignored whilst determining the WCCP router ID.
Recommended Action	Use the indicated reason message to determine why WCCP refused to use the configured interface as its router ID.

WEBSERVER**%WEBSERVER-5-LOGIN_PASSED :**

Explanation	Login successful
Recommended Action	No action is required

%WEBSERVER-5-LOGIN_FAILED :

Explanation	Login unsuccessful when user/password is invalid
Recommended Action	No action is required

%WEBSERVER-5-SESS_LOGOUT :

Explanation	Logout successful
Recommended Action	No action is required

%WEBSERVER-5-SESS_TIMEOUT :

Explanation	Session Timeout
Recommended Action	No action is required

%WEBSERVER-5-CONNECTION_FAILED :

Explanation	Failure reason for SSL connection
Recommended Action	No action is required

%WEBSERVER-5-MAX_CONNECTION_REACHED :

Explanation	Maximum HTTP connection reached.
Recommended Action	No action is required

WLCLIENT_IPSG_PROXY**%WLCLIENT_IPSG_PROXY-3-WLS_IPSG_MEM_REQ_FAILED : WLCLIENT IPSG IPC subtype: [dec]**

Explanation	Requesting more memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WLCLIENT_IPSG_PROXY-3-WLS_IPSG_MEM_EXTEND_FAILED : WLCLIENT IPSG IPC subtype: [dec]

Explanation	Extending memory failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WLCLIENT_IPSG_PROXY-4-PROXY_INVALID_MSG_LEN : QFP WLCLIENT IPSG Proxy IPC invalid length, [dec]:[dec] len [dec] flags [hex] source [dec]

Explanation	Cisco internal software error. QFP WLCLIENT IPSG Proxy received invalid IPC message length from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WLCLIENT_IPSG_PROXY-4-PROXY_INVALID_MSG : QFP WLCLIENT IPSG Proxy received invalid message type [dec]

Explanation	Cisco internal software error. QFP WLCLIENT IPSG Proxy received an invalid message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WLCLIENT_IPSG_PROXY-2-PROXY_IPC_INIT_FAILED : QFP WLCLIENT IPSG Proxy IPC interface initialization failure (result: [dec]).

Explanation	Cisco internal software error. QFP WLCLIENT IPSG Proxy initialization detected that the IPC interface initialization failed. QFP WLCLIENT IPSG proxy will not be functional while this condition exists.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WLCLIENT_IPSG_PROXY-3-PROXY_BAD_MSG : QFP WLCLIENT IPSG Proxy received bad length message type [dec]

Explanation	Cisco internal software error. QFP WLCLIENT IPSG Proxy received a corrupted message from control plane. This message will be ignored.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WLCLIENT_IPSG_PROXY-3-PROXY_IPC_ALLOC_FAILED : QFP WLCLIENT IPSG Proxy [chars] message lost due to message buffer allocation failure.

Explanation	Cisco internal software error. QFP WLCLIENT IPSG Proxy message processing detected a message buffer allocation failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WLCLIENT_IPSG_PROXY-3-PROXY_IPC_SEND_FAILED : QFP WLCLIENT IPSG Proxy [chars] message lost due to message sent failure (result: [dec]).

Explanation	Cisco internal software error. QFP WLCLIENT IPSG Proxy message processing detected a message sent failure. The message is lost as the result of this condition.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

WLS_FQDN_PROXY**%WLS_FQDN_PROXY-3-PROXY_IPC_INIT_FAILED : [dec]**

Explanation	IPC handler initialization failed.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%WLS_FQDN_PROXY-4-PROXY_IPC_INVALID_MSG : [hex]

Explanation	Received an invalid IPC messages subtype.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

WSMAN**%WSMAN-3-INVALID_TRUSTPOINT : Trustpoint associated with HTTP is either invalid or does not exist**

Explanation	This message indicates that Trustpoint attached to the HTTP is not valid or it does not exist. Ideally there is a need to create Trustpoint first and then attach to the HTTP process. In case, Trustpoint is created later then there is a need to restart HTTPS server
Recommended Action	Configure a valid trustpoint and attach it to HTTP

WUILOGIN**%WUILOGIN-2-INITIALIZATION_FAILED : WebUI standalone login initialization failed.**

Explanation	The attempt to access the web user interface using the wuilogin access module failed. The wuilogin access module is used to authenticate web user interface access only when the IOS integrated webserver, which is enabled using the ip http server command, or the IOS process is down or disabled.
Recommended Action	Note the time of the error and check the web user interface log (wuilogin-*.log) for additional information on why the attempt to access the web user interface failed.

**%WUILOGIN-2-AUTHENTICATION_SYSTEM_FAILED : WebUI standalone authentication process failed.
Reason: [chars]**

Explanation	During the id and password validation phase of the wuilogin access module authentication attempt, an exception occurred. This message usually occurs as a result of a failure of the underlying PAM authentication module.
Recommended Action	Note the time of the error and check the web user interface log (wuilogin-*.log) for additional information on why the attempt to access the web user interface failed.

X25

%X25-2-ILLP4 : Interface [chars], Illegal state [chars] when P4

Explanation	An internal software error occurred.
Recommended Action	If any of these messages recur, call your technical support representative for assistance.

%X25-3-NOLCI : Interface [chars], Delete: lci [dec] not found in [chars] table

Explanation	An internal software error occurred.
Recommended Action	If any of these messages recur, call your technical support representative for assistance.

%X25-3-UNKNOWNPROT : [chars] : Unable to identify lower layer protocol

Explanation	IDB is not using X25 and IDB is not capable of supporting CMNS.
Recommended Action	Check your hardware configuration or contact your technical support representative for assistance.

%X25-3-X25NOTAVAIL : [chars] : Lower layer protocol is not available

Explanation	The required lower layer service is unavailable.
Recommended Action	Check your configuration or contact your technical support representative for assistance.

%X25-3-BADCONFIGATTEMPT : Attempt to [chars].

Explanation	The user attempted an illegal configuration.
Recommended Action	The error will indicate what illegal action was attempted. The user should check their configuration and if necessary contact technical support representative for assistance.

%X25-3-NOTFINDBH : Can't find bfe host address [IP_address] to delete

Explanation	An internal software error occurred.
Recommended Action	If any of these messages recur, call your technical support representative for assistance.

%X25-3-INTIMEQ : Interface [chars], LCN [dec] already in timer queue, new time %#Ta

Explanation	An internal software error occurred.
Recommended Action	If any of these messages recur, call your technical support representative for assistance.

%X25-3-BADCONFIG : Interface [chars], X.25 [chars], current config. retained

Explanation	The interface's X.25 configuration is not valid; the existing configuration was not changed.
Recommended Action	Verify the following: The interface's switched virtual circuit ranges do not overlap; for nonzero values, lic <= hic < ltc <= htc < loc <= hoc. (For more information, refer to Configuring Virtual Circuit Ranges in the Router Products Configuration Guide.) If an incoming-only range is defined, check that it is numerically less than the two-way range. If an outgoing-only range is defined, check that it is numerically greater than the two-way range. No virtual circuit high/low parameter is zero unless its partner low/high parameter is also zero. The default window sizes are less than the interface modulo.

%X25-3-PVCBAD : Interface [chars], PVC [dec], [chars]

Explanation	A switched PVC cannot be connected. The final [chars] text string in the message represents the state of the PVC. These text strings can also appear in show x25-vc output. For more information, refer to the show x25-vc documentation in the Router Products Command Reference publication.
Recommended Action	Validate the configuration of the PVCs at both ends of the connection, and reconfigure them if necessary.

%X25-3-XOTPROTOCOL : XOT protocol error from [IP_address]: [chars]

Explanation	A protocol error was detected over an X.25-over-TCP (XOT) connection, causing the connected VC to close. A flaw may exist in the remote host's XOT implementation.
Recommended Action	If this message recurs, call your technical support representative for assistance.

%X25-4-VCLOSTSYNC : Interface [chars], VC [dec] TCP connection [chars]

Explanation	An X.25 circuit that is being tunneled over a TCP connection between routers was cleared ungracefully. The last [chars] text string in the message can take one of two forms. If the text string is closed unexpectedly, the router at the remote end of the connection was rebooted, or the connection failed. If the text string is connection corrupted, it is likely that the connection was made to a router running an older software release.
Recommended Action	If the text string is closed unexpectedly, reestablish the connection after the remote router or intervening network is operational. If the text string is connection corrupted, upgrade the router at the other end of the connection to a more recent software release.

%X25-4-BADUPCALL : Interface [chars], Unexpected call ([chars]) from LLC2 DTE=[hex][hex],[hex][hex],[hex][hex].

Explanation	An internal software error occurred.
Recommended Action	If any of these messages recur, call your technical support representative for assistance.

%X25-4-DEBUG_LCI : LCI deleted at interrupt time

Explanation	An internal software error occurred.
Recommended Action	If any of these messages recur, call your technical support representative for assistance.

%X25-4-RANGEUNUSED : Interface [chars], [chars] VC range unused; set limits to zero

Explanation	An outgoing-only or incoming-only virtual circuit range exactly overlaps the two-way virtual circuit range. This was the former method for specifying that a virtual circuit range was not used. The current method is to set the range limits to zero.
Recommended Action	Use the privileged copy running-config startup-config command to write the configuration to memory. This will store the modified (zero) range limits.

%X25-4-LARGEPKSIZE : Interface [chars], [chars] packet sizes [dec]/[dec] too large; lower values will be negotiated

Explanation	The interface's default packet sizes or outgoing packet size facility values are too large to be carried by Link Access Procedure, Balanced (LAPB).
Recommended Action	The router will negotiate lower packet size values automatically. The LAPB N1 value should be increased. For example, for an X.25 maximum packet size of 1024, modulo 8 X.25 operation will add 3 bytes of overhead and modulo 8 LAPB operation will add 4 bytes of overhead (the two bytes of CRC are defined to be included). This means that N1 must be at least $1031 \text{ bytes} * 8 = 8248$.

%X25-4-PARTIALMAP : Interface [chars], [chars] encapsulation call from [chars] partially mapped to [chars]

Explanation	An incoming X.25 call specified a protocol that was assigned to a multiprotocol map; the VC will not be able to carry the full set of protocols specified by the map.
Recommended Action	Modify the configuration of the router or the far host to match the encapsulation method used.

%X25-5-NOBUF : Interface [chars] LCI [dec] [chars]

Explanation	This is a warning only (the compressed packet was not lost). However, an X.25 packet layer RNR (wait) was generated and packet-level transmission on the LCN will not resume (RR issued) until a decompression buffer becomes available.
Recommended Action	If this message occurs frequently, you may need to modify the buffer pool. Copy the message exactly as it appears, and report it your technical support representative.

%X25-5-PBPHOLDQ : Interface [chars] LCI [dec] X25 Hold queue needs to be at least default size

Explanation	An attempt was made to configure the X.25 hold queue to less than the minimum value.
Recommended Action	Configure the X.25 hold queue to be ten or more.

%X25-5-PBPDBIT : Interface [chars] LCI [dec] PBP Compression does not support X25 D bit

Explanation	Compression is not enabled because D-bit support is configured for the LCI.
Recommended Action	Reconfigure without D-bit support, or do not attempt to run with compression.

%X25-3-SYNCBAD : Interface [chars] LCI [dec] Decompression sync error. expected [dec] got [dec]

Explanation	An internal software error occurred. The PBP header has a sync field. The sync field (8 bits) is checked on each received packet.
Recommended Action	Contact your technical support representative for assistance.

%X25-3-VERSIONBAD : Interface [chars] LCI [dec] Compression Version mismatch expected [hex] received [hex]

Explanation	An internal software error occurred. The PBP header has a mismatched version field. The version is checked on each received packet.
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%X25-3-VERSIONBAD : Interface [chars] LCI [dec] Compression Version mismatch expected [hex] received [hex]

Recommended Action Copy the message exactly as it appears, and report it your technical support representative.

%X25-3-SIZEBAD : Interface [chars] LCI [dec] Decompression size error

Explanation An internal software error occurred. The PBP header has an uncompressed packet size field. Each uncompressed packet size is checked against this field.

Recommended Action Contact your technical support representative for assistance.

%X25-5-PBPNOEND : Interface [chars] LCI [dec] End system not configured for X25 PBP

Explanation A compression or decompression operation was attempted by a router other than an end router. Only end routers can perform compression and decompression.

Recommended Action Reconfigure the routers so that only the end routers in the network perform compression and decompression.

%X25-3-COMPERR : Interface [chars] LCI [dec] low-level stac compression error

Explanation A Stacker compression algorithm internal error or shortage of buffer space was encountered during a compression operation. This should never happen.

Recommended Action Report the error to your technical support representative.

%X25-4-BADMBIT : Interface [chars], VC [dec], partial data packet has M-bit set

Explanation This message occurs when a virtual circuit is set up using the default maximum packet sizes, but the DTE and DCE are not configured with the same default values. A packet was received that had the M-bit set, signifying that more data follows, but the packet did not carry the maximum number of bytes allowed. Such partial data packets must have the M-bit cleared. The resulting loss of a message boundary might cause problems for the data recipient.

Recommended Action Verify the default flow control parameters of the DTE and the DCE. If this message recurs, call your technical support representative for assistance.

%X25-3-ADDRESSBAD : Interface [chars], x25 address [chars] subaddress %c is too long

Explanation This message occurs when a subaddress is configured. When this subaddress is combined with the interface's X.121 address, the total address exceeds the limit of 15 characters.

Recommended Action Reconfigure the subaddress so that this does not happen.

%X25-3-ERR_SUBST_XOT_DNS_DEST : Error substituting regular expression for XOT DNS destination pattern

Explanation This message occurs when the regular expression substitute utility fails to arrive at X.25 hostname pattern to be sent to DNS for address resolution

Recommended Action Correct the X.25 route command's DNS substitution pattern

%X25-3-TRUNCATE_ALT_XOT_DNS_DEST : Truncating excess XOT addresses ([dec]) returned by DNS

Explanation This message occurs when an X.25 route DNS lookup returns more than the 6 permissible XOT destination addresses

Recommended Action Review the DNS database entries used for XOT destination lookup for possible modification

%X25-4-XOTHOSTWRONG : Wrong host ([IP_address]) for XOT connection to [chars] PVC [dec]; expecting [IP_address]

Explanation This message occurs when an incoming XOT connection identifies a PVC that is configured for a different host IP address, and whose configuration does not permit connection to a different host.

Recommended Action If the host attempting the connection should be allowed, either the remote host should be configured to use a single host address (by adding the xot-source-ifc option), or the local PVC should be configured to accept connections from any host (by using the xot-promiscuous option). If the host attempting the connection should not be allowed, the network administrator should take action appropriate for an attempt to create an unauthorized connection.

%X25-4-XOTPVCDUPLICATE : Duplicated remote PVC data for {[chars], pvc [dec]} and {[chars], pvc [dec]}

Explanation This message identifies two local XOT PVCs that are defined using duplicate specifications for the connecting remote XOT PVC.

Recommended Action This message probably reflects a configuration error; the network administrator should examine the identified PVCs to determine what XOT PVC configuration is required.

%X25-4-BFEIP : Warning: IP address is missing or incompatible with BFE mode

Explanation	An interface configured for X.25 BFE mode does not have an IP address configured, or the IP address does not conform to BFE requirements, so cannot be mapped to an X.121 address.
Recommended Action	Please configure a valid Class A IP address for the interface or remove the 'bfe' option from the 'encapsulation x25' command for the interface.

%X25-3-X25INT : Interface [chars], X.25 internal error [chars]

Explanation	This is a general message covering numerous internal X25 error conditions. The message text contains additional details that can be used to identify the problem.
Recommended Action	LOG_STD_RECUR_ACTION

%X25-3-XOTINT : XOT internal error [chars]

Explanation	This is a general message covering numerous internal error conditions related to XOT. The message text contains additional details that can be used to identify the problem.
Recommended Action	Contact your Cisco technical support representative and provide the representative with the error message text exactly as it appears on the console or in the system log and the output of show version , show running-config , show x25 and debug x25 commands

%X25-3-PROFILENO : profile [chars] does not exist

Explanation	This message occurs when an X.25 interface is configured to use an X.25 profile that does not exist
Recommended Action	Create and configure the x25 profile using x25 profile <name> global subcommand before referencing the profile.

%X25-3-X25NOCFG : Profile is not configured

Explanation	This message occurs when an X.25 interface is configured to use an X.25 profile that isn't configured
Recommended Action	Configure the x25 profile using x25 profile <name> global subcommand before referencing the profile.

%X25-3-X25ENCINV : [chars]

Explanation	This message occurs when configuring an X.25 service.
Recommended Action	LOG_STD_ACTION

%X25-3-X25DEENCINV : [chars]

Explanation	This message occurs when deconfiguring X.25 service.
Recommended Action	LOG_STD_ACTION

%X25-3-INVCFGID : [dec] is not a valid X.25 configuration ID

Explanation	This message occurs when an invalid configuration id is used
Recommended Action	LOG_STD_ACTION

%X25-5-UPDOWN : Interface [chars] - DLCI [dec] X.25 packet layer state changed to [chars]

Explanation	The state of the X.25 context associated with the DLCI changed
Recommended Action	Notification message only. No action required

%X25-7-DIAGEVENT : Interface [chars], X.25 diagnostic event, [chars], lci [dec][chars]

Explanation	A standard X.25 diagnostic event has been detected. Per Recommendation X.25 a DCE detecting this will send a Diagnostic packet whereas a DTE cannot. The Recommendation defines diagnostic events for packets occurring on an unassigned channel, receipt of some classes of malformed packets, non-standard usage of channel 0 for Call setup or Data traffic, and some protocol timeout events. An unexpected, but benign, diagnostic event may occur when an attached station doesn't respond to a protocol event soon enough; e.g. a timeout waiting for a response to a Call, Clear or Reset sent. The most common malign cause of a diagnostic event is a mismatched configuration of the logical channel ranges between the DTE and DCE stations.
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%X25-7-DIAGEVENT : Interface [chars], X.25 diagnostic event, [chars], lci [dec][chars]

Recommended Action If an attached station is delaying responses to protocol events, check if the appropriate timeout value is sufficient for expected network behavior, and if the connected station is unduly delaying its response. For unassigned logical channel events, enter the **show x25 interface <CmdItalics>id<NoCmdItalics>** for the reporting station to verify the logical channel assignments configured are correct and operational. These ranges must match those defined on the connected station; refer to the Setting the Virtual Circuit Ranges section of the Cisco IOS Wide-Area Networking Configuration Guide for more information. For the rare case where logical channel 0 is designated for non-standard Call setup or Data traffic, both stations must be configured to reflect that usage. LOG_STD_RECUR_ACTION

%X25-7-DIAGRX : Interface [chars], X.25 Diagnostic received, [chars][chars]

Explanation An X.25 diagnostic packet has been received at the DTE from the DCE. Per Recommendation X.25, a DCE station must send a Diagnostic packet when it detects a standard diagnostic event, which the DTE must discard with no protocol action taken; a DTE cannot send a Diagnostic packet. Recommendation X.25 defines diagnostic events for packets occurring on an unassigned channel, receipt of some classes of malformed packets, non-standard usage of channel 0 for Call setup or Data traffic, and some protocol timeout events. An unexpected, but benign, Diagnostic packet may be received when the DTE station doesn't respond to a protocol event soon enough; e.g. the DCE timed out waiting for a response to a Call, Clear or Reset. The most common malign cause of a diagnostic event is a mismatched configuration of the logical channel ranges between the two stations.

Recommended Action If an attached station is delaying responses to protocol events, check if the appropriate timeout value is sufficient for expected network behavior, and if the connected station is unduly delaying its response. For unassigned logical channel events, enter the **show x25 interface <CmdItalics>id<NoCmdItalics>** for the reporting station to verify the logical channel assignments configured are correct and operational. These ranges must match those defined on the connected station; refer to the Setting the Virtual Circuit Ranges section of the Cisco IOS Wide-Area Networking Configuration Guide for more information. For the rare case where logical channel 0 is designated for non-standard Call setup or Data traffic, both stations must be configured to reflect that usage. LOG_STD_RECUR_ACTION

%X25-5-CALL_RECORD : [chars]

Explanation This message contains X.25 call record information.

Recommended Action No action is required.

XCCTSP_VOICE**%XCCTSP_VOICE-3-UNDEFVOICEINTRF : Invalid voice interface slot/controller:group([dec]/[dec]:[dec])**

Explanation	The voice interface defined by controller:group is not yet defined within the voice software but attempts were made to use this interface.
Recommended Action	Internal software fault. Contact your field service representative if this message is coincident with dropped calls.

%XCCTSP_VOICE-3-UNDEFDSX0 : Undefined dsx0 interface for controller([dec])

Explanation	The dsx0 interface for the specified controller is not defined but the voice software use it.
Recommended Action	Internal software fault. Contact your field service representative if this message is coincident with dropped calls.

%XCCTSP_VOICE-3-NOSDB : No signaling data block is available to build the voice interface([dec]/[dec]:[dec]) or DSP may not be present

Explanation	The voice software was unable to obtain a signaling data block from the Voice Telephony Service Provider. The system may be out of memory.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%XCCTSP_VOICE-3-ADDINTRFFAIL : The Voice Telephony Service Provider has rejected our request to add this voice interface ([dec]/[dec]:[dec])

Explanation	The voice software was unable to report a new signaling interface to the Voice Telephony Service Provider
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%XCCTSP_VOICE-3-NOMEM : No memory is available to build the voice interface ([dec]:[dec])

Explanation	The voice software was unable allocate memory to build a voice interface data structure. The system may be out of memory.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%XCCTSP_VOICE-3-MALLOC : No memory is available to build any internal data structure for the voice software.

Explanation	The voice software was unable allocate memory to build any internal data structures. The system may be out of memory.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%XCCTSP_VOICE-3-NOTDMCHNL : XCCTSP failed to get a free dsp tdm channel from the DSP Resource Manager (DSPRM) to handle an incoming call

Explanation	The voice software was unable to obtain the tdm channel for a free dsp from the DSP Resource Manager. All of the dsp's have been used to process calls, or have been taken out of service.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%XCCTSP_VOICE-3-NOVOICEVDEV : Cannot find the voice data block which matches an asynchronous response for a call.

Explanation	Internal software fault. Contact your field service representative if this message is coincident with dropped calls.
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%XCCTSP_VOICE-3-NOVOICEDEV : Cannot find the voice data block which matches an asynchronous response for a call.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%XCCTSP_VOICE-3-OUTOFRANGE_CTRL : Going out of range for controller number for the slot subslot [dec], ctrl_num [dec]

Explanation Internal software fault. Contact your field service representative

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the show tech-support command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

XCONNECT

%XCONNECT-3-ILLEGAL : [chars]

Explanation An illegal event has been processed by the xconnect subsystem.

Recommended Action No action is required.

%XCONNECT-3-CONFIG : [chars]

Explanation An invalid xconnect configuration or an error in processing xconnect configuration has occurred.

Recommended Action No action is required.

%XCONNECT-5-REDUNDANCY : [chars]

Explanation An event has occurred that has caused the xconnect redundancy facility to generate a switchover event to the specified backup member

Recommended Action No action is required.

%XCONNECT-5-PW_STATUS : [chars]

Explanation An event has occurred that has caused the pseudowire to change status

Recommended Action No action is required.

%XCONNECT-5-PW_STATUS_LOST : [chars]

Explanation The system is dropping PW_STATUS messages because the status queue is full

Recommended Action No action is required.

XDR

%XDR-3-XDRIPC : XDR IPC error on multicast-group [hex] due to [chars].

Explanation A general IPC related error occurred which may prevent transfer of data to other peers using the IPC mechanism

Recommended Action Get the output of show xdr multicast immediately after this error. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-6-XDRIPCPEER : XDR IPC error occurred for peer in slot [chars] due to [chars][chars].

Explanation A general IPC related error occurred which may prevent transfer of data to other peers using the IPC mechanism

Recommended Action Get the output of show xdr multicast and show xdr linecard immediately after this error. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-2-XDRDISABLEREQUEST : Peer in slot [chars] requested to be disabled due to: [chars]. Disabling linecard

Explanation Due to some error condition the linecard has requested to be disabled

Recommended Action Execute clear xdr linecard from the RP followed by clear xdr channel on the linecard in question to clear the error condition. If the problem persists get the output of show monitor event-trace xdr all from the RP and the linecard in question and report it to your technical support representative.

%XDR-2-XDRLCDISABLEREQUEST : Client [chars] requested to be disabled. [chars]

Explanation	Due to some error condition the linecard has requested to be disabled
Recommended Action	Execute clear xdr linecard from the RP followed by clear xdr channel on the linecard in question to clear the error condition. If the problem persists get the output of show monitor event-trace xdr all from the RP and the linecard in question and report it to your technical support representative.

%XDR-3-XDRNOMEM : XDR failed to allocate memory during [chars] creation.

Explanation	Allocation of memory by the XDR subsystem failed. This may result in an unpredictable behavior of XDR
Recommended Action	Make sure that there is enough memory for the operations being performed by your machine. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-PULLSENFFAIL : Sending data for pull client [chars] to [chars] failed due to slot(s) [chars] not being in group [hex] of slot(s) [chars]

Explanation	Data sending for an XDR pull client failed for the reason specified. The data was not sent.
Recommended Action	LOG_STD_SH_CMD_ACTION(show xdr multicast-group)

%XDR-3-NONINCRSEQ : Non-increasing maximum sequence ([dec], was [dec]) received from slot [chars]

Explanation	Internal software error. May result in unpredictable behaviour.
Recommended Action	LOG_STD_SH_CMD_ACTION(show xdr linecard)

%XDR-3-BADSEQVAL : Incorrect maximum sequence calculated ([dec], was [dec]) for slot [chars] with [dec] out of [dec] buffers available

Explanation	Internal software error. May result in unpredictable behaviour.
Recommended Action	LOG_STD_SH_CMD_ACTION(show xdr linecard)

%XDR-6-ISSUBADRCVTFM : Failed to rcv_transform message - slot [chars], reason: [chars]

Explanation	Unable to perform ISSU transform on incoming XDR header. Message will be ignored
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%XDR-6-ISSUBADRCVTFM : Failed to rcv_transform message - slot [chars], reason: [chars]

Recommended Action Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-6-ISSUBADTXTFM : Failed to xmit_transform message - slot [chars], reason [chars]

Explanation Unable to perform ISSU transform on outgoing XDR header. Message will be ignored

Recommended Action Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-ISSUBADREGPARAMS : XDR client [chars] trying to register with incomplete ISSU support.

Explanation This client does not properly support ISSU and will be registered as not supporting ISSU.

Recommended Action We cannot allow a client to register with partial ISSU support so it will be registered without it. Please report this message to your technical support representative.

%XDR-3-ISSUCAPNEGOFAIL : XDR client [chars] failed to [chars] capability/ies due to [chars]

Explanation Internal software error - capability negotiation failed unexpectedly.

Recommended Action Copy the message exactly as it appears and report it to your technical support representative

%XDR-3-ISSUINITFAIL : Unable to register XDR ISSU [chars], reason: [chars]

Explanation Unable to register the given XDR ISSU parameter due to the reason given. This will stop ISSU working for this client and may lead to unpredictable behaviour.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-6-ISSUCLIENTABSENT : XDR client [chars] absent on slot [chars]. Client functionality may be affected.

Explanation The remote slot doesn't support this ISSU client. The software will handle this by reducing client functionality locally to continue in SSO mode, or by forcing the remote peer into RPR mode as appropriate. This is expected behaviour in ISSU-capable systems.

Recommended Action No action required. This message just indicates that certain functionality may be reduced due to running different images together.

%XDR-3-ISSU_ENUM_ERROR : Enum for [chars] ([chars] component) is not ISSU-compliant: [chars]

Explanation The given enumeration is not ISSU-compliant for the reason given. Unpredictable behaviour will result when interoperating with different IOS versions.

Recommended Action This requires a code fix before the image can be shipped or ISSU will be broken.

%XDR-3-CLIENTISSUBADGROUP : New m/cast group (slots [chars]) has multiple members before nego complete.

Explanation A new multicast group has been created with multiple slots before ISSU negotiation for each client has completed. This will lead to unpredictable results.

Recommended Action Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSUBADNEGOMSG : Unexpected nego msg - slot [chars], XDR client [chars], ctxt [dec]

Explanation XDR has received a negotiation message unexpectedly as this client is either not ISSU aware or has already completed negotiation for this slot. This is likely a precursor to unpredictable behaviour for this client.

Recommended Action Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSUSENDFAILED : Can't send XDR client ISSU nego msg: reason [chars], slot [chars], XDR client [chars]

Explanation XDR has failed to send an ISSU negotiation message for the given client. The slot will be marked as ISSU-unaware, and communication with this slot will proceed on that basis. However, this is likely to lead to unpredictable behaviour.

Recommended Action Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Also copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSUSTARTNEGOFAIL : Can't start nego: reason [chars], slot [chars], XDR client [chars], sid [dec]

Explanation XDR has failed to start ISSU negotiation with the remote slot for the reason given. The slot will be marked as ISSU-unaware, and communication with this slot will proceed on that basis. However, this is likely to lead to unpredictable behaviour.

%XDR-3-CLIENTISSUSTARTNEGOFAIL : Can't start nego: reason [chars], slot [chars], XDR client [chars], sid [dec]

Recommended Action Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Also copy the message exactly as it appears, and report it to your technical support representative.

%XDR-6-CLIENTISSUBADRCVTFM : Failed to rcv_transform message - from slot [chars], XDR client [chars], context [dec]

Explanation Cannot perform ISSU receive transform. This is likely due to a failure in negotiation earlier, or when one side of an ISSU-enabled XDR connection is out of sync with the other.

Recommended Action Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-6-CLIENTISSUBADTXTFM : Failed to xmit_transform message - to slot [chars], XDR client [chars], context [dec]

Explanation Cannot perform ISSU transmit transform. This is likely due to a failure in negotiation earlier, or when one side of an ISSU-enabled XDR connection is out of sync with the other.

Recommended Action Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSUNEGATIVEPADDING : Negative padding for [chars], slots [chars], msg [dec] (padded: [dec], unpadded: [dec])

Explanation Internal error. Mismatch of internal data structures.

Recommended Action Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSUNEGONOTDONE : Attempting to push send XDR message ([dec]) to slots [chars] for [chars] before nego complete.

Explanation Internal error. May result in unpredictable behaviour.

Recommended Action Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-6-CLIENTISSUUNREG : Failed to unregister session - XDR client [chars], slot [chars], reason [chars]

Explanation	Unable to unregister this session. This will likely cause problems when reregistering and should be reported.
Recommended Action	Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSU_REGERROR : ISSU client [chars] ([dec]), entity [dec], failed ISSU registration: [chars]

Explanation	ISSU negotiation failed for this XDR client.
Recommended Action	This error indicates a coding problem. It is an error that will occur every time this image is run, and requires a code change to fix it.

%XDR-3-ISSU_NEGOFAIL : ISSU negotiation failed for XDR, slot [chars], reason: [chars]

Explanation	ISSU negotiation failed. XDR on this and the remote slot cannot interoperate. Syncing of information to/from this slot for all XDR clients will not be allowed.
Recommended Action	Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-PRIOCLIENTISSU_NEGOFAIL : ISSU negotiation failed for XDR client [chars], slot [chars], reason: [chars]

Explanation	ISSU negotiation failed for a core XDR client. XDR on this and the remote slot cannot interoperate in SSO mode. Syncing of information to/from this slot will not happen for any XDR client.
Recommended Action	Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSU_NEGOFAIL : ISSU negotiation failed for XDR client [chars], slot [chars], reason: [chars]

Explanation	ISSU negotiation failed. This XDR client on this and the remote slot cannot interoperate in SSO mode. Syncing of information to/from this slot will not happen for this and dependent clients. See output of show xdr multicast for full details.
Recommended Action	Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSU_FOF_REGERROR : ISSU client [chars] ([dec]), entity [dec], message [dec] ([chars]), failed ISSU FOF registration: [chars], reason: [chars],

Explanation This ISSU client has a message containing a foreign field owned by another client and failed to register this dependency.

Recommended Action This error indicates a potential coding problem. It is an error that may occur every time this image is run, and may require a code change to fix it.

%XDR-3-CLIENTISSU_FOF_NEGOFail : ISSU negotiation failed for FOF client [int], for peer [chars] (ISSU peer [dec]), blocking ISSU client [chars] ([dec]) reason - [chars]

Explanation ISSU negotiation failed for a client which has registered ISSU FOF client dependencies. The dependent clients on this and the remote slot cannot interoperate in SSO mode. Syncing of information to/from this slot will not happen for this and the dependent clients. See output of show xdr multicast for full details.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-BYPASSFOFNEGO : Bypassing FOF ISSU client [chars] ([int]) nego for XDR client [chars], slot [chars] as FOF ISSU client is not present in [chars] image.

Explanation This XDR client has a dependency on another ISSU client due to having foreign-owned-fields. As the ISSU client that owns the foreign-owned fields is not in the image the XDR client will not wait for that client to finish ISSU negotiation. Appearance of this error message indicates that work is required to add the missing client to the image.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSU_NEGOREGERROR : XDR client [chars], failed ISSU negotiation result notification registration for ISSU client [chars] ([dec]), reason: [chars],

Explanation This client has dependency on the successful ISSU negotiation of another client and failed to register this dependency

Recommended Action This error indicates a potential coding problem. It is an error that may occur every time this image is run, and may require a code change to fix it.

%XDR-3-CLIENTISSU_NEGOUNREGERROR : Failed to unregister ISSU negotiation result notification registration for ISSU client [chars] ([dec]), reason: [chars],

Explanation This client has dependency on the successful ISSU negotiation of another client and failed to unregister this dependency when not required.

%XDR-3-CLIENTISSU_NEGOUNREGERROR : Failed to unregister ISSU negotiation result notification registration for ISSU client [chars] ([dec]), reason: [chars],

Recommended Action This error indicates a potential coding problem. It is an error that may occur every time this image is run, and may require a code change to fix it.

%XDR-6-CLIENTNOTREGONRP : Client [chars] has registered on slot [chars] before RP.

Explanation XDR client has registered on non-RP card before RP card. If this has occurred while toggling the client's registration status rapidly then it may be a transient problem and will resolve itself. If not, then the client's status may be unpredictable, and ISSU negotiation (if platform is ISSU-aware) may not take place correctly.

Recommended Action Verify whether the client's registration status is the same on both the RP and the card on which the problem is reported by comparing the output of 'show xdr client all' to see if the client is present or absent in BOTH. If so, and no other error messages have been seen, then this is a transient issue and no further action is required. Otherwise, copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-XDROOS : Received an out of sequence IPC message. Expected [dec] but got [dec] from slot [chars].

Explanation An out of sequence IPC message was received

Recommended Action We weren't meant to get the IPC message we did. From this point onwards IPC can't be relied on. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSUNOMSGGRP : Cannot determine ISSU message group for slot [dec]. Unknown [chars]

Explanation Not able to determine the set of ISSU messages to be used between local and remote slot, due to not being able to determine linecard type for one or other slot. This might be due to a new linecard type.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%XDR-6-XDRREGISTRATION : XDR failed to register [chars] client due to [chars]

Explanation Failure to register the said XDR client.

Recommended Action A failure occurred which prohibits the XDR client from registering with the core. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-6-XDRINVALIDHDR : XDR for client ([chars]) dropped (slots:[chars] from slot:[chars] context:[int] length:[int]) due to: [chars]

Explanation	The XDR message was dropped for the reason given.
Recommended Action	If the failure was due to an invalid context for the CEF push client and occurred during an ISSU upgrade then it may be safely ignored. Otherwise: LOG_STD_ACTION

%XDR-6-XDRINVALIDHDRISSU : XDR ISSU negotiation message for client ([chars]) dropped (slots:[chars] from slot:[chars] context:[int] length:[int]) due to: [chars]

Explanation	The XDR ISSU negotiation message was dropped for the reason given.
Recommended Action	If the message occurred during an ISSU upgrade then it may be safely ignored. Otherwise: LOG_STD_ACTION

%XDR-6-XDRMCASTINIT : XDR mcast subsystem initialisation error: [chars]

Explanation	XDR non functional.
Recommended Action	A failure occurred which prohibits the XDR client from registering with the core. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-CLIENTISSU_PUSHFAIL : Attempting to push send XDR message ([chars]) to slots [chars] via XDR client [chars] failed due to [chars][chars]

Explanation	Internal error. May result in unpredictable behaviour.
Recommended Action	Get the output of show xdr multicast, show xdr client all and show issu message types [XDR client ISSU ID]. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-XDRMCASTJOIN : Attempt to join [chars] to [chars] failed because client [chars] returned an error

Explanation	Internal error. May result in unpredictable behaviour.
Recommended Action	Get the output of show xdr multicast, show xdr client all and show monitor event-trace xdr all. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-XDRMCASTJOINREQ : Client [chars] returned an invalid response to a join request for groups [chars] and [chars]

Explanation	Internal error. May result in unpredictable behaviour.
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%XDR-3-XDRMCASTJOINREQ : Client [chars] returned an invalid response to a join request for groups [chars] and [chars]

Recommended Action Get the output of show xdr multicast, show xdr client all and show monitor event-trace xdr all. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-MSGSIZEFAIL : The IPC message size is out of bounds The ipc_msg_size is : [dec] while the maximum size we can handle is the XDR_IPC_BUFFER_SIZE : [dec] .

Explanation The size of the IPC message that was received is out of bounds

Recommended Action We were not meant to get the IPC message we did. The size of the IPC message is larger than the maximum size that can be handled. This is probably due to communication incompatibility issues between the active and the standby RPs. Please report it to your technical support representative.

%XDR-3-XDRMCAST_PEER_BINDING : XDR peer [chars] bind to group [chars] (was bound to [chars]): [chars]

Explanation Internal error. May result in unpredictable behaviour.

Recommended Action Get the output of show xdr multicast, and show monitor event-trace xdr all. Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-XDRMCASTGRPINVALID : Invalid XDR multicast group for slot(s) [chars]: [chars]

Explanation Internal error. May result in unpredictable behaviour.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-ILLEGAL_CAP_TYPE : Illegal ISSU capability type ([dec]) for XDR client [chars]

Explanation Capability type requested is invalid. The named XDR client may not function as expected.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-ILLEGAL_CAP_VALUE_CHANGE : ISSU capabilities for peers running same IOS version must be supported.

Explanation Basic assumption is that all peers running the same IOS version as the active RP will support the same ISSU capabilities as the active RP. This is an attempt to mark one such peer as not supporting all capabilities. This will break assumptions in XDR ISSU code and cannot be allowed. The traceback will indicate the offending XDR client.

%XDR-3-ILLEGAL_CAP_VALUE_CHANGE : ISSU capabilities for peers running same IOS version must be supported.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-MISMATCHED_ISSU_CAPABILITY_INFO : [chars]: [chars]

Explanation ISSU-aware XDR clients may have capabilities to negotiate. They can ask XDR to manage the state of these, but must provide all relevant supporting functions to do so. In this case, the given client has not done so.

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-ONINT : Invalid operation [chars] at interrupt level by XDR client [chars]

Explanation Invalid operation at interrupt level

Recommended Action Copy the message exactly as it appears, and report it to your technical support representative.

%XDR-3-FRAG_CLIENT_NOT_ALLOWED : Received an XDR fragment from client [chars], slot [chars], which is not allowed to send fragments

Explanation Certain clients are restricted by XDR from fragmenting their data, yet such a fragment was received received.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%XDR-3-DATA_TOO_LARGE : Data length [dec] exceeds limit of [dec] bytes

Explanation An attempt was made by a client to send XDR data that was over the given length limit, which caused the send to fail.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%XDR-4-FAILATTEMPTOPENIPCPORT : Attempt to open the IPC ports failed. [chars]

Explanation	XDR failed an attempt to open the IPC port to communicate to the specified peer
Recommended Action	No action is required.

ZONE through ZONE

ZONE

%ZONE-4-API : Zone [chars] [chars][chars] [chars] failed to notify the data plane

Explanation	The notification of a zone operation has failed to update the data plane and as such the application of the zone information within the object will not be applied to the data plane. It is also possible that the common classification may fail to locate and bind to the zone rendering the configuration inconsistent in terms of application.
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show memory command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ZONE-6-CONFIG : Zone security [chars] is removed due to VRF config change on interface [chars]

Explanation	The notification of a zone is removed from an interface due to a vrf is removed from the interface
Recommended Action	Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (https://bst.cloudapps.cisco.com/bugsearch/). Issue the show running command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (https://mycase.cloudapps.cisco.com/case), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ZONE-4-LICENSE : License smart enable and zone-license enable should be enabled first

Explanation	The notification indicates that zone smart license should be enabled
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%ZONE-4-LICENSE : License smart enable and zone-license enable should be enabled first

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show running** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.

%ZONE-4-BINDING : Zone VPN Bind [chars] [chars] [dec] [chars] failed to notify the data plane

Explanation The notification of a zone vpn operation has failed to update the data plane and as such the application of the zone vpn information within the object will not be applied to the data plane.

Recommended Action Copy the error message exactly as it appears on the console or in the system log. Perform a search of the Bug Toolkit (<https://bst.cloudapps.cisco.com/bugsearch/>). Issue the **show zone security** command to gather data that may help identify the nature of the error. If you still require assistance, open a case with the Technical Assistance Center via the Internet (<https://mycase.cloudapps.cisco.com/case>), or contact your Cisco technical support representative and provide the representative with the gathered information.
