

# Cisco Nexus 9000 Series NX-OS System Routing Messages Reference, Release 10.3(5)M

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## Messages and Recovery Procedures

This chapter lists the system messages by facility. Within each facility, the messages are listed by severity levels 0 to 7: 0 is the highest severity level, and 7 is the lowest severity level. Each message is followed by an explanation and a recommended action.

### AM Messages

This section contains the AM messages.

#### AM-2

**Error Message** AM-2-API\_INITIALIZE: Failed to initialize [chars] API with rc=0x[hex], [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-API\_INIT: Failed to initialize [chars] API

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-BAD\_TIMER: [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-CLI\_INIT: Failed to initialize CLI

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-INIT\_FAIL: Initialization failure

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-MQ\_OPEN: Failed to open message queue [chars]: [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-MTS\_BIND: Failed to do mts\_bind for [chars]: [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-MTS\_OPC\_SET: Failed to register with opcode [dec]: [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-MTS\_RECV: MTS queue receive failed on [chars] queue: [chars]

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Reload the stack

**Error Message** AM-2-MTS\_SADDR\_GET: Failed to get source of mts queue [chars]: [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-NO\_WORKBIT: Failed to register [chars] too many notify clients

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** AM-2-REQD\_COMP\_DOWN: Required component "[chars]" has gone down.

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Reload the stack

**Error Message** AM-2-REQD\_COMP\_FAIL: Required component "[chars]" has failed to initialize.

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SDB\_CREAT: Failed to create shared database

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SDB\_DESTROY: Failed to destroy shared database

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SDB\_OPEN: Failed to open shared database

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SET\_SCHED: Failed to set policy or priority

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SHM\_CREAT: Failed to create shared memory: [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SHM\_LOCK\_CREAT: Failed to create shared memory lock: [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SVR\_REG: Failed to register as a client of [chars] for VRF [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SYSMGR\_NAME: Failed to get name from sysmgr during [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SYSMGR\_NOTIFY: Bad notification from sysmgr for [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SYSMGR\_QUERY: Failed to query sysmgr for [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-SYSMGR\_UUID: Failed to get uuid from sysmgr during [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-THREAD\_FAIL: Failed to start [chars] thread

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-THR\_CREAT: Failed to create thread [chars]: error [dec]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** AM-2-URIB\_PIB: Unable to get pib for [chars] VRF from URIB

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

### AM-3

**Error Message** AM-3-ADJ\_LIMIT\_REACHED: Adacency limit reached [dec] percent of capacity for [chars] address family: [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Requires operator to intervene

**Error Message** AM-3-BAD\_PARAMS: Called [chars] with address family [dec], iod [dec], l3address [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-CV\_INIT: Couldn't init cond var [chars]

**Explanation** AM process failed to initialize conditional-variable resource.

**Recommended Action** Dump core, then restart component

**Error Message** AM-3-DEL\_PROT\_ADJ: Unable to delete protocol adjacency for [chars], uuid [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-IPV6\_GLEAN\_EXCESS\_TRAFFIC: Excess traffic (% PRIu64 packets / % PRIu64 octets) were dropped in [chars] seconds for ungleaned prefix [chars]/128 on interface [chars] in vrf [chars]

**Explanation** Informational log about a system event.



**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-IP\_GLEAN\_EXCESS\_TRAFFIC: Excess traffic (% PRIu64 packets / % PRIu64 octets) were dropped in [chars] seconds for ungleaned prefix [chars]/32 on interface [chars] in vrf [chars]

**Explanation** Informational log about a system event.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-MAC\_REG\_FAILED: Mac registration with FM failed for mac [chars], iod [chars], phy iod: [chars]

**Explanation** Mac registration with FM failed.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-MAX\_RETRIES: Notification retry limit exceeded for [chars]

**Explanation** Client is not replying to our notifications.

**Recommended Action** Report the issue to Customer Support

**Error Message** AM-3-MQ\_RECV: Message queue receive failed on [chars] queue: [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-MQ\_SEND: Failed to send [chars] to [chars] queue: [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-MSG\_TO\_TLV: Notification message to TLV failed

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** AM-3-MTS\_DROP: MTS drop failed on [chars] queue: [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-MTS\_SEND: Failed to send [chars] to [chars] queue: [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-MUTEX\_INIT: Couldn't init mutex [chars]

**Explanation** AM process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** AM-3-NO\_AF: [chars]: Unable to get address family block for index [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-NO\_MEM\_2: Malloc failed for [chars] [dec] [chars]

**Explanation** System may be low on memory.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** AM-3-NO\_MEM: Malloc failed for [chars] [chars]

**Explanation** System may be low on memory.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** AM-3-NO\_PIB: Unable to get pib for client pid [dec] while processing [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-NO\_SMEM: Smalloc failed for [chars] [chars]

**Explanation** AM's shared memory quota may be used up, due to large number of adjacencies or a memory leak

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** AM-3-PROT\_ADJ\_COUNT: Proto adj count is already 0 for iod [dec]

**Explanation** Received invalid Adj Delete.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-PTHREAD\_FAILED: pthread\_create() failed for UFDm txlist thread()

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-PT\_ADD: Pt\_add failed for [chars] [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-QUEUE: [chars] failed for [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-READ\_LOCK\_HOLD: [chars]:[chars]():[dec]: Assert, read-lock not acquired

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-RIB\_RTE\_BUF: Failed to send AM route changes to [chars], Reason=nullRouteBuffer

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-SHM\_OPEN: Shared memory does not exist: [chars]

**Explanation** Informational log about a system event.

**Recommended Action** No special action is required.

**Error Message** AM-3-THR\_MUTEX\_LOCK: Failed to thread mutex lock

**Explanation** Failed function pthread\_mutex\_lock

**Recommended Action** Reload the stack

**Error Message** AM-3-THR\_MUTEX\_UNLOCK: Failed to thread mutex lock

**Explanation** Failed function pthread\_mutex\_unlock

**Recommended Action** Reload the stack

**Error Message** AM-3-TLV\_TO\_STRUCT: Notification TLV to struct failed

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** AM-3-TXLIST\_CREATE: Couldn't create txlist for [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-3-VLAN\_ERR: Failed to derive vlan info

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

## AM-5

**Error Message** AM-5-INVALID\_NOTIFY: Received invalid notification message

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** AM-5-MQ\_MAJOR: Received unknown major message type ([dec]) from [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-5-MQ\_MINOR: Received unknown minor message type ([dec]) from [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-5-MQ\_UNEXP: Received unexpected message ([dec]/[dec]) on [chars] queue

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-5-MSG\_UNK: Received unknown % type: [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** AM-5-MTS\_OPC\_UNK: Received unknown MTS opcode [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** AM-5-REG\_DELAY: AM register [chars] delay: [dec] seconds

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

## AM-6

**Error Message** AM-6-FAILED\_STATS: Failed to retrieve stats from FTM

**Explanation** Informational log about a system event.

**Recommended Action** No special action is required.

**Error Message** AM-6-SYSMAN\_CLEANUP: Terminated by SYSMAN cleanup signal

**Explanation** Informational log about a system event.

**Recommended Action** No special action is required.

## AM-7

**Error Message** AM-7-URIB\_CNTXT: Failed to get Table\_ID for [chars] on [chars] from [chars] ([dec])

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

## ARP Messages

This section contains the ARP messages.

### ARP-2

**Error Message** ARP-2-AM\_PIB: Failed to acquire AM handle [chars]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-AM\_REG: Failed to register as a client of AM [chars]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-API\_INITIALIZE: Failed to initialize [chars] API with rc=0x[hex], [chars]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-API\_INIT: Failed to initialize [chars] API

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-CLI\_INIT: Failed to initialize CLI

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-DUP\_SRCIP: Source address of packet received from [chars] on [chars] is duplicate of local, [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-2-DUP\_SRC\_IP: Source address of packet received from [chars] on [chars]([chars]) is duplicate of local, [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-2-DUP\_STATIC: [chars] static exists for, IP=[chars], VLAN=[dec], IOD=[dec], Interface=[chars]

**Explanation** Informational log about a system event.

**Recommended Action** No special action is required.

**Error Message** ARP-2-INIT\_FAIL: Initialization failure

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-MQ\_OPEN: Failed to open message queue [chars]: [chars]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-MQ\_RECV: Message queue receive failed on [chars] queue: [chars]

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Reload the stack

**Error Message** ARP-2-MTS\_BIND: Failed to do mts\_bind for [chars]: [chars]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-MTS\_OPC\_SET: Failed to register with opcode [dec]: [chars]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-MTS\_RECV\_FAIL: [chars] as MTS queue receive failed: [chars]

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Reload the stack

**Error Message** ARP-2-MTS\_RECV: MTS queue receive failed on [chars] queue: [chars]

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Reload the stack

**Error Message** ARP-2-SET\_SCHED: Failed to set policy or priority

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-SHM\_CREAT: Failed to create [chars] shared memory

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-SVR\_REG: Failed to register as a client of [chars]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-SYSMGR\_NOTIFY: Bad notification from sysmgr for [chars]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack



**Error Message** ARP-2-SYSMGR\_QUERY: Failed to query sysmgr for [chars]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-SYSMGR\_UUID: Failed to get uuid from sysmgr during [chars]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-THREAD\_FAIL: Failed to start [chars] thread

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-THR\_CREAT: Failed to create thread [chars]: error [dec]

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-TIMERS\_INIT: Failed to initialize timers

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

**Error Message** ARP-2-TIMER\_SET: Failed to initialize new timer set

**Explanation** An unrecoverable software error has occurred during arp initialization.

**Recommended Action** Reload the stack

## ARP-3

**Error Message** ARP-3-ADJ\_ADD\_CONTROL: Failed to add adjacency by control plane. Host ip address : [chars]

**Explanation** Due to this failure, Traffic forwarding to the host may be affected.

**Recommended Action** No special action is required.

**Error Message** ARP-3-ADJ\_ADD\_PEER\_SYNC: Failed to add PS adjacency from L2RIB. Host ip address : [chars]

**Explanation** Due to this failure, Traffic forwarding to the host may be affected.

**Recommended Action** No special action is required.

**Error Message** ARP-3-ADJ\_ADD: Failed to add adjacency for received packet from [chars] on [chars]

**Explanation** Due to this failure, packet forwarding to this address will be affected until the next successful retrial.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-ADJ\_DEL\_CONTROL: Failed to delete adjacency by control plane. Host ip address : [chars]

**Explanation** Due to this failure, Traffic forwarding to the host continue to happen.

**Recommended Action** No special action is required.

**Error Message** ARP-3-ADJ\_DEL\_PEER\_SYNC: Failed to delete PS adjacency from L2RIB. Host ip address : [chars]

**Explanation** Due to this failure, Traffic forwarding to the host continue to happen.

**Recommended Action** No special action is required.

**Error Message** ARP-3-ADJ\_UPD: Failed to update adjacency for received packet from [chars] on [chars]

**Explanation** Due to this failure, packet forwarding will continue to use the existing ARP adjacency entry values.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-API\_MQ\_INVALID: ARP API Error: Invalid ARP message queue in [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-3-API\_MQ\_SEND: ARP API Error: Failed to send [chars] to [chars] queue: [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-3-API\_MTS\_INVALID: ARP API Error: Invalid ARP MTS queue in [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-3-API\_MTS\_SEND: ARP API Error: Failed to send [chars] to [chars] queue: [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-3-COUNT\_MISMATCH: Mismatch between calculated and received adjacencies: Calculated:[dec] and Received:[dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-DAI\_FETCH\_ERR: DAI lookup failed, callback function returned 0x[hex] ([chars]) for [chars] [chars]

**Explanation** DAI lookup failed

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-DUP\_SRCIP\_PROBE: Duplicate address Detected. Probe packet received from [chars] on [chars] with destination set to our local ip, [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-3-DUP\_SRC\_IP\_PROBE: Duplicate address Detected. Probe packet received from [chars] on [chars]([chars]) with destination set to our local ip, [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-3-DUP\_VADDR\_SRCIP\_PROBE: Duplicate address Detected. Probe packet received from [chars] on [chars] with destination set to our local Virtual ip, [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-3-DUP\_VADDR\_SRCIP: Source address of packet received from [chars] on [chars] is duplicate of local virtual ip, [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-3-DUP\_VADDR\_SRC\_IP\_PROBE: Duplicate address Detected. Probe packet received from [chars] on [chars]([chars]) with destination set to our local Virtual ip, [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-3-DUP\_VADDR\_SRC\_IP: Source address of packet received from [chars] on [chars]([chars]) is duplicate of local virtual ip, [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-3-DUP\_VIRT\_SRCIP: Source address of packet received from [chars] on [chars] is duplicate of local virtual ip, [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-3-DUP\_VIRT\_SRC\_IP: Source address of packet received from [chars] on [chars]([chars]) is duplicate of local virtual ip, [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-3-GRAT\_ETH: Sending gratuitous arp for [chars] on invalid interface [chars], not ethernet

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-GRAT\_IOD: Sending gratuitous ARP for [chars] on an invalid interface [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-GRAT\_IP: Sending gratuitous ARP request for [chars] IP address [chars] on [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-GRAT\_NON\_AM: Sending gratuitous arp for [chars] on invalid interface [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-GRAT\_P2P: Sending gratuitous arp for [chars] on invalid interface [chars], point-to-point

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-HDR\_ERR: Failed to get ARP header, expected [dec], got [dec] bytes

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-HDR\_L2LEN\_ERR: Received packet with incorrect layer 2 address length ([dec] bytes), [chars] with S/D MAC: [chars] [chars] eff\_ifc [chars]([dec]), log\_ifc [chars]([dec]), phy\_ifc [chars]([dec])

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-HDR\_L3LEN\_ERR: Received packet with incorrect layer 3 address length ([dec] bytes)

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-IF\_INDEX: Invalid interface index received from [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-IM\_EXT: Couldn't set IM-extension for interface [chars]

**Explanation** ARP process failed to set IM extension.

**Recommended Action** No special action is required.

**Error Message** ARP-3-INVAL\_HDR\_HRD\_TYPE: Found incorrect hardware type in ARP header: [dec], source-mac : [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-INVAL\_HDR\_PROT\_TYPE: Found incorrect protocol type in ARP header: 0x[hex]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-INVAL\_STATE: Unrecognized ARP entry state in timer callback: [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-MAC\_ERR: Failed to get MAC address on [chars] for [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-3-MBUF\_ERR: Failed to get the remainder of packet, expected [dec], got [dec] bytes

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-MTS\_DROP: MTS drop failed on [chars] queue: [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-NO\_MBUF: Failed to allocate buffer for [chars]

**Explanation** The system may have run out of packet memory buffers.

**Recommended Action** Report the issue to Customer Support

**Error Message** ARP-3-NO\_MEM: Malloc failed for [chars] [chars]

**Explanation** The system may be low on memory.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** ARP-3-NO\_SMEM: Shared memory allocation failed for [chars] [chars]

**Explanation** ARP Shared memory might be used up

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** ARP-3-PKT\_ENCAP: Failed to encapsulate packet

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-PKT\_OUT: Failed to send packet to PM

**Explanation** PM's message queue may be temporarily full.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-REQ\_ADD: Failed to add adjacency while sending request for [chars] on [chars], request from pid: [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-REQ\_ETH: Sending ARP request for [chars] on invalid interface [chars], not ethernet, request from pid: [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-REQ\_IOD: Sending ARP request for [chars] on an invalid interface [dec], request from pid: [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-REQ\_IP: Dropping ARP request for [chars] IP address [chars] on [chars], request from pid: [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-TIMER\_RSTART: Failed to restart timer 0x[hex] for [chars] on [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-3-VRRPQ\_ADD: Failed to add VRRP queue entry for [chars], [chars] on [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-VRRPQ\_IP: Trying to add invalid IP address [chars] on [chars] to vrrp queue



**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-VRRP\_ETH: Adding vrrp arp for [chars]: invalid interface [chars], not ethernet

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-VRRP\_IOD: Adding vrrp arp for [chars]: invalid interface [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-VRRP\_NON\_AM: Sending vrrp arp for [chars] on invalid interface [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-3-VRRP\_P2P: Sending vrrp arp for [chars] on invalid interface [chars], point-to-point

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

## ARP-4

**Error Message** ARP-4-DIR\_BCAST: [chars] address of packet received from [chars] on [chars] matches directed broadcast address, [chars]

**Explanation** There may be a configured subnet mask-length mismatch among router interfaces connected on this LAN.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-4-DUP\_IP: ARP entry found with duplicate IP address [chars] on [chars]

**Explanation** There may be another router on this network that is configured with the same IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-4-INVAL\_IP: Received packet with invalid [chars] IP address ([chars]) from [chars] on [chars]

**Explanation** There may be a connected router sending packets with a bogus IP address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-4-INVAL\_MAC: Received packet with invalid [chars] MAC address ([chars]) from [chars] on [chars]

**Explanation** There may be a connected router sending packets with a bogus MAC address.

**Recommended Action** Check all routers on the interface for misconfiguration.

**Error Message** ARP-4-OWN\_SRCMAC: Received packet with a local source MAC address ([chars]) from [chars] on [chars]

**Explanation** There may be a connected router sending packets with local MAC address.

**Recommended Action** Check all routers on the interface for misconfiguration.

## ARP-5

**Error Message** ARP-5-MQ\_MINOR: Received unknown minor message type ([dec]) from [chars]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-5-MQ\_UNEXP: Received unexpected message ([dec]/[dec]) on [chars] queue

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-5-MSG\_UNK: Received unknown % type: [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-5-MTS\_OPC\_UNK: Received unknown MTS opcode [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-5-UNK\_IP\_NOTIF: Unrecognized IP address change notification type [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-5-UNK\_MSG\_MINOR: Unrecognized [chars] message minor type [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

**Error Message** ARP-5-UNK\_SIG: Received unknown signal [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** No special action is required.

## ARP-6

**Error Message** ARP-6-REQ\_NON\_AM: Sending ARP request for [chars] on invalid interface [chars] request from pid: [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-6-REQ\_P2P: Sending ARP request for [chars] on invalid interface [chars], point-to-point, request from pid: [dec]

**Explanation** An unexpected but recoverable error has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ARP-6-SYSMAN\_CLEANUP: Terminated by SYSMAN cleanup signal

**Explanation** Informational log about a system event.

**Recommended Action** No special action is required.

## ATIMERS Messages

This section contains the ATIMERS messages.

### ATIMERS-3

**Error Message** ATIMERS-3-ERROR: [chars]

**Explanation** An active timer API returned error

**Recommended Action** No special action is required.

**Error Message** ATIMERS-3-OPER: timer failed to [chars], error [chars]

**Explanation** An active timer API returned error

**Recommended Action** No special action is required.

**Error Message** ATIMERS-3-START: starting timer 0x[hex]: heap not allocated for set id [dec]

**Explanation** An active timer API returned error

**Recommended Action** No special action is required.

**Error Message** ATIMERS-3-STOP: stopping timer 0x[hex]: heap not allocated for set id [dec]

**Explanation** An active timer API returned error

**Recommended Action** No special action is required.

## BGP Messages

This section contains the BGP messages.

### BGP-1

**Error Message** BGP-1-PASSWORD\_DECRYPT\_FAILURE\_ONLY: Password for Peer [chars] could not be properly decrypted.

**Explanation** BGP neighbor password configured could not be properly decrypted.

**Recommended Action** Reconfigure correct neighbor password or configure the correct master key for this peer

**Error Message** BGP-1-PASSWORD\_DECRYPT\_FAILURE: Password for Peer [chars] could not be properly decrypted. The Peer would be down until password is fixed

**Explanation** BGP neighbor password configured could not be properly decrypted.

**Recommended Action** Reconfigure correct neighbor password

**Error Message** BGP-1-PASSWORD\_ENCRYPT\_FAILURE: Password for peer [chars] could not be properly encrypted to type-6.

**Explanation** BGP neighbor password configured could not be properly encrypted to type-6.

**Recommended Action** Please check type-6 feature and master key are properly configured

**Error Message** BGP-1-RPKI\_FAILURE: Potential security risk detected. BGP routes received with origination AS disallowed by RPKI. Check these routes using 'sh bgp ipv4 unicast origin-as validity-state invalid vrf all' and 'sh bgp ipv6 unicast origin-as validity-state invalid vrf all' commands

**Explanation** BGP routes received with origination AS disallowed by RPKI.

**Recommended Action** Check these routes using 'sh bgp ipv4 unicast origin-as validity-state invalid vrf all' and 'sh bgp ipv6 unicast origin-as validity-state invalid vrf all' commands

## BGP-2

**Error Message** BGP-2-AFINITFUNCS: Error initializing address family function vectors, ([dec])

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-2-AFINIT: Error initializing address family, ([dec])

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-2-APIINIT: Unable to initialize [chars] API

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-2-APIMTSBIND: Unable to bind to MTS SAP for [chars], sap [dec]: [chars]

**Explanation** BGP client was not able to create a message queue for communication.

**Recommended Action** Restart component

**Error Message** BGP-2-ATTACH: Unable to attach to [chars]

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-2-EVPN\_STATIC\_MAC: Static/learned MAC address conflict for [chars] in VNI [dec]

**Explanation** Conflict with either local or remote static MAC configuration

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-2-FATAL: Fatal error: [chars]: [chars]

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Restart component

**Error Message** BGP-2-IPV6REG: Unable to register with IPv6

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-2-MQLOOP\_INIT: Message queue loop [chars], [chars], Error - [chars]

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-2-MTSBIND: Unable to bind to MTS SAP for [chars], sap [dec]: [chars]

**Explanation** BGP was not able to create a message queue for communication.

**Recommended Action** Restart component

**Error Message** BGP-2-PEERSHALTED: BGP [chars] shutdown due to no memory condition ([chars])

**Explanation** The system may be low on memory.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** BGP-2-PTHREAD: procket\_pthread\_create failed for [chars]: error [dec]

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Restart component

**Error Message** BGP-2-SRVREG: Unable to register with [chars]

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-2-SYSMGR\_CONDVERIF: Sysmgr conditional verify failed

**Explanation** An internal software error occurred.

**Recommended Action** Restart component

**Error Message** BGP-2-SYSMGR\_QUERY: Failed to query sysmgr for [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Restart component

**Error Message** BGP-2-TSP\_INIT: Unable to initialize with TSP

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-2-U6RIBREG: Unable to register with U6RIB for [afi/safi:[dec]/[dec]]

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-2-UNKNOWNFATAL: Unknown fatal error [dec]: [chars]

**Explanation** An unexpected fatal error has occurred.

**Recommended Action** Restart component

**Error Message** BGP-2-URIBREG: Unable to register with URIB for [afi/safi:[dec]/[dec]]

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

## BGP-3

**Error Message** BGP-3-ACLTESTADD: Failed to add [chars] peer policy test

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-AGGADD: [[chars]] Couldn't add aggregate for [chars]/[dec]

**Explanation** BGP was unable to store an aggregate in an internal datastructure. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-AGGDEL: [[chars]] Couldn't delete aggregate for [chars]/[dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-ALLOCFAIL: [chars] malloc ([dec]) failed for: [chars]

**Explanation** The system may be low on memory.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** BGP-3-APIASSERT: [chars]:[dec]: Assertion `[chars]' failed.

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support



**Error Message** BGP-3-APIMTSDROP: MTS drop failed on [chars] queue: [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-APIMTSRECV: MTS receive failed on [chars] queue: [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-APIMTSEND: MTS send() error to SAP [dec], opcode [dec]: [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-API\_UNEXP\_RESP: Received unexpected message from SAP [dec], opcode [dec], address [chars], ignore it; expecting opcode [dec], address [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-APPLY\_BESTPATH\_CFG: Failed to apply bestpath configuration: [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-ASLEN: AS-PATH prepend length exceeds internal limit

**Explanation** An internal limit was hit in prepending and AS path.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-ASPREPEND: Expected AS sequence or entry sequence, got [dec]/[dec]

**Explanation** An error was encountered in prepending to an AS path.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-ASSERT: [chars]:[dec]: Assertion `[chars]' failed.

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-ATTRAVL\_OP: Failed attribute external database operation: [chars], id [dec]

**Explanation** BGP was unable to perform an attribute external database operation

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-ATTRID\_OP: Failed to [chars] attribute ID

**Explanation** BGP was unable to allocate or free an index for a BGP PATH attribute block

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-BADLOCALAS: VRF [chars], Peer [chars] - bad AS sent in Open message [dec].

**Explanation** The peer received an incorrect AS Number

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-3-BADNEXTHOP: [[chars]] Peer [chars] advertised non-mapped nexthop [chars] in MP reach attr [afi/safi:[dec]/[dec]], dropping NLRI

**Explanation** The router received a next-hop that was inconsistent with the address-family in the update message.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-BADOPENCAP: VRF [chars], Peer [chars] - bad capability code received [dec].

**Explanation** The peer sent a bad/unknown capability

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-3-BADOPENPARAM: VRF [chars], Peer [chars] - unknown optional parameter received [dec].

**Explanation** The peer sent an unknown optional parameter

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if

necessary after any change.

**Error Message** BGP-3-BADPEERAS: VRF [chars], Peer [chars] - bad remote-as, local AS [dec], expecting [chars][chars][chars], but received [chars].

**Explanation** The peer sent an incorrect AS Number

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-3-BADPEERDYNAS: VRF [chars], Peer [chars] - bad remote-as, failed route-map [chars] received [chars].

**Explanation** The peer sent an AS Number that did not match route-map

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-3-BADPEERHOLDTIME: VRF [chars], Peer [chars] - bad hold time [chars] [dec].

**Explanation** The peer sent and/or received an incompatible hold time

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-3-BADPEERRID: VRF [chars], Peer [chars] - bad router-id [chars] [chars].

**Explanation** The peer sent and/or received a bad router-id

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-3-BFD\_SEND\_AUTO\_EXPIRY: Unable to start BFD staling, error [chars](0x[hex])

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-BFD\_SEND\_EXPIRE\_NOW: Unable to expire staled BFD sessions, error [chars](0x[hex])

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-BFD\_SES\_ADD: Unable to add BFD session for peer [chars], error [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-BFD\_SES\_CREATE: Unable to create BFD session Id for peer [chars], error [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-BFD\_SES\_REMOVE\_ALL: Unable to cleanup the BFD sessions during deconfiguration, error [chars](0x[hex])

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-BFD\_SES\_REMOVE: Unable to remove BFD session for peer [chars], error [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-BFD\_SES\_STALE: Unable to stale BFD session for peer [chars], error [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-BGW\_MVPN\_VRI\_GENERATION\_FAILED: Unable to generate MVPN VRI on multisite border gateway because site-id is more than 2-bytes. Configure router bgp ; mvpn vri id .

**Explanation** Unable to generate MVPN VRI on multisite border gateway

**Recommended Action** Configure mvpn vri id

**Error Message** BGP-3-BRIBADD: [[chars]] Couldn't add [chars] to BRIB (key length [dec], error [dec])

**Explanation** BGP was unable to add a prefix to the BGP RIB. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-BRIBDEL: [[chars]] Error [dec] deleting [chars] from BRIB

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-BRIB\_ADD\_INT: Internal error in adding to BRIB: [chars]

**Explanation** An internal error was encountered in adding a path to the BRIB. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-BRIB\_ESADD: [[chars]] Couldn't add ES [chars] to BRIB

**Explanation** BGP was unable to create an EVPN instance. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-BRIB\_EVI\_TOPO\_ADD: Couldn't add EVI [dec] with topo [dec] to AVL

**Explanation** BGP was unable to add EVI to the EVPN topo AVL. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-BRIB\_EVI\_TOPO\_DEL: Couldn't delete EVI [dec] with topo [dec] from AVL

**Explanation** BGP was unable to delete EVI from the EVPN topo AVL. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-BRIB\_RDADD: [[chars]] Couldn't add rdinfo [chars] to BRIB

**Explanation** BGP was unable to add a prefix to the BGP RIB. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-BRIB\_RDCLASH: VRF [chars], [chars]: RD clash found during [chars]

**Explanation** BGP was unable to allocate RD for the BGP RIB. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-BRIB\_RDDEL: [[chars]] Couldn't delete rdinfo [chars] from BRIB

**Explanation** BGP was unable to remove from BGP RIB. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-CLISSET: Unable to set [chars] inheritance for [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Restart component

**Error Message** BGP-3-COMADD: Error occurred in community addition, no action taken

**Explanation** An internal error was encountered in adding a community.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-COMLEN: Community sets exceeded maximum allowed limit

**Explanation** An internal limit was hit in adding a community.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-COMATTRAVL\_OP: Failed community attribute avl database operation:

[chars], id [dec]

**Explanation** BGP was unable to perform a community attribute database operation

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-CONDSRV\_CLEANUP: Conditional Service cleanup request failed, [chars]

**Explanation** Sysmgr rejected BGP's request to shut down.

**Recommended Action** No special action is required.

**Error Message** BGP-3-CONFHECK: confcheck API [chars]() failed with error: [chars](0x[hex]).

**Explanation** Confcheck API has failed

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-DAMPFCFG: Both policy and global dampconf exist

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-DEBUG\_FD\_ERROR: Unable to open debug file [chars], errno: [dec]

**Explanation** Debug messages may not be collected due to system error

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-DEBUG\_FD\_WRITE\_ERROR: Unable to write to debug file, fd: [dec], errno: [dec], nread: [dec], nwritten: [dec]

**Explanation** Debug messages may not be collected due to system error

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-DEBUG\_PIPE\_ERROR: Unable to open debug pipes, errno: [dec]

**Explanation** Debug messages may not be collected due to system error

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-DEBUG\_PIPE\_READ\_ERROR: Unable to read from debug pipe, fd: [dec], errno:

[dec]

**Explanation** Debug messages may not be collected due to system error

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-DEBUG\_PIPE\_WRITE\_ERROR: Unable to write to debug pipe, fd: [dec]([dec]),  
errno: [dec], nwritten: [dec]

**Explanation** Debug messages may not be collected due to system error

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-DUPLICATE\_INTERFACE\_PEER: The interface peer [chars] that was learned over  
[chars] is also seen on [chars]

**Explanation** Session could not be brought up because duplicate peer address is not supported

**Recommended Action** Configure unique link local addresses on remote side

**Error Message** BGP-3-EAD\_ES\_CFG\_CREATE: [[chars]] Couldn't create EAD\_ES\_Node for ESI [chars]  
to

**Explanation** BGP was unable to create an EVPN instance. The BGP process may have run out of  
memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network  
configuration to decrease memory requirements. Clear any BGP peers that may have been shut down  
automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-EAD\_ES\_SEG\_CREATE: [[chars]] Couldn't create EAD\_ES\_Seg for ESI [chars] to

**Explanation** BGP was unable to create an EVPN instance. The BGP process may have run out of  
memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network  
configuration to decrease memory requirements. Clear any BGP peers that may have been shut down  
automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-EBGP TTL: Unable to set EBGPTTL for peer [chars], fd [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-EPE\_MAX\_ACTIVE\_PEER\_SET: Peer-set [chars] exceeds maximum of [dec]



established peers

**Explanation** EPE peer-set has more active peers than can be used for MPLS forwarding

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-EVENT\_WAIT: Error while waiting for [chars] event, error - [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-EXTCOMADD: Error occurred in extended community addition, no action taken

**Explanation** An internal error was encountered in adding an extended community.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-EXTCOMMATTRAVL\_OP: Failed extcommunity attribute avl database operation: [chars], id [dec]

**Explanation** BGP was unable to perform a extcommunity attribute database operation

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-FEATURE\_STATUS: FM status for feature [chars] failed with error: [chars](0x[hex]).

**Explanation** FM get feature status failed

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-FINDAGGR: [[chars]] Did not find aggregate path for entry [chars]/[dec]

**Explanation** BGP was unable to find an internal datastructure for originating a configured aggregate.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-ILLARGS: [chars] called with illegal arguments

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-IMPORT\_VRF\_EXCEED: Maximum limit on number of import VRFs exceeded

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-INTERNAL\_INFO: [chars] [dec]

**Explanation** Printing Internal Information

**Recommended Action** No special action is required.

**Error Message** BGP-3-INTERNAL: Internal error [dec]: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-INVHDR: Peer [chars] sent unexpected header pattern

**Explanation** The marker pattern in message header was invalid

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-3-IPTABLES\_CHAIN\_REMOVE: Unable to remove iptables chain for vrf [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-IPTABLES\_CHAIN: Unable to create iptables chain for vrf [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-IPTABLES: Unable to configure iptables rule for neighbor [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-IPTOS: Unable to set IP TOS bits for [chars], fd [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-LARGECOMADD: Error occurred in large community addition, no action taken

**Explanation** An internal error was encountered in adding a large community.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-LISTEN\_SOCKET: Failed to listen on [chars] BGP TCP port

**Explanation** BGP\_EXPL\_SOCKET\_ERROR

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-LIST: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-LOWMEM: Low on heap memory

**Explanation** The system may be low on memory.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** BGP-3-MD5PASS: Cannot set MD5 password for peer [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-MISSING\_ROUTERID: Router ID is removed. RD is deleted since RD is generated by router ID automatically

**Explanation** Router id is removed while auto rd is still configured

**Recommended Action** ACTION\_BGP\_KEEP\_RUNNING

**Error Message** BGP-3-MQLOOP\_SHUTDOWN: Couldn't shut down [chars] message queue loop

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-MTSDROP: MTS drop failed on [chars] queue: [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-MTSRECV: MTS receive failed on [chars] queue: [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-MTSEND: MTS send() error to SAP [dec], opcode [dec]: [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-NBRERR: [chars] Peer error: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-NEGWRITE: Negative nr of [dec] bytes left to write to peer [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-NETWKRNHSETUP: Couldn't setup rnh notifications for network [chars], error: [chars]

**Explanation** Could not setup RNH for network prefix

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-NEXTHOPADD: [[chars]] Couldn't add next-hop to RNHDB for [chars]/[dec], error [dec]

**Explanation** The router was unable to store a BGP next hop in an internal database, perhaps because it ran out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-NEXTHOPDEL: [[chars]] Couldn't delete next-hop from RNHDB for [chars]/[dec], error [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-NOBUF: [[chars]] Unable to get buffer for [chars] msg to peer [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-NOMEMORY: Could not allocate [chars]

**Explanation** The system may be low on memory.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** BGP-3-OCAVL\_OP: Failed OC database operation: [chars], id [dec]

**Explanation** BGP was unable to perform an OC database operation

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-PATH\_DEL: Failed to destroy path ([chars]), error [dec]

**Explanation** The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-PATH\_STALE: [[chars]] [chars] path being [chars], for [chars] from peer [chars], should not be stale

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-PEER: Peer [chars], failed [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-PFX\_NOMEM: Could not allocate [chars] for [chars]/[dec]

**Explanation** The system may be low on memory.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** BGP-3-PLCYOUT: Cannot add reference to policy out info for route-map [chars]

**Explanation** BGP was not able to create an entry for an outbound policy.

**Recommended Action** Restart component

**Error Message** BGP-3-PLCYRNHATTACH: Couldn't attach to policy RNH info for policy [chars], error: [chars]

**Explanation** An internal error occurred in using a policy. BGP\_EXPL\_NO\_MEM\_MAYBE

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-PLCYRNHDETACH: Couldn't detach from policy RNH info for policy [chars], error: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-PLCYRNHSETUP: Couldn't setup rnh notifications for policy [chars], error: [chars]

**Explanation** An internal error occurred in using a policy. BGP\_EXPL\_NO\_MEM\_MAYBE

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-RDINFO: VRF [chars], [chars], table [chars]: rdinfo [chars] failed

**Explanation** BGP was unable to initialize an internal datastructure. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-RESTARTINIT: Unable to determine restart status and initialize

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-3-RESTARTTYPE: Error in learning restart type

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-RNHCB: RNH [chars] error: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-RPC\_SET\_ID\_OP: Failed to [chars] RPC SET ID

**Explanation** BGP was unable to allocate or free an index for a BGP NEXTHOP RPC SET ID block

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-RPKIADD: Couldn't add [chars]/[dec] to RPKI table

**Explanation** BGP was unable to add RPKI dest to ROA database. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-RPKIDEL: [[chars]] Couldn't delete RPKI dest [chars]/[dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-RPMBIND: RPM policy bind failed for [chars] [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-RPMHANDLE: RPM notification handle does not match existing handle for policy [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-RPM\_L3VPN\_EXTCOMM: L3vpn extcommunity failure during [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-RT\_DB\_ADD: Couldn't add route target [chars] into the database

**Explanation** The router could not add route-target in its internal database

**Recommended Action** ACTION\_BGP\_REPORT\_CS

**Error Message** BGP-3-SENDBUF: Error manipulating sendbuf: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-SIDMGRINITAPI: Unable to INITIALIZE with SID Manager, error: [dec]

**Explanation** Error calling SID Init API

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-SIDMGRREG: Unable to register with SID Manager, error: [dec]

**Explanation** Error calling SID Manager register API

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-SNMP\_API\_DATA: Message data is NULL



**Explanation** SNMP message does not have memory to store data.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-SOCKBIND: Cannot bind local socket for peer [chars]: [chars]

**Explanation** An error occurred during a socket operation.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-SOCKCREATE: Cannot create socket for peer [chars]: [chars], stats: [dec]/[dec]/[dec]/[dec]/[dec]

**Explanation** An error occurred during a socket operation.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-SOCKMAXSEG: Could not set maxseg [dec] on listen fd [dec]

**Explanation** An error occurred during a socket operation.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-SOCKNONBLOCK: Couldn't make fd [dec] non-blocking: [chars]

**Explanation** An error occurred during a socket operation.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-SOCKOPEN: TCP connection for peer [chars] already open, fd [dec], state [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-SOCK\_ACCEPT: Socket ([dec]/[dec]) accept: [chars]

**Explanation** BGP\_EXPL\_SOCKET\_ERROR

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-SOCK\_ERR: Socket ([dec]/[dec]): [chars]

**Explanation** BGP\_EXPL\_SOCKET\_ERROR

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-SOCKET\_FDPOP: Unexpected error during socket fd population [chars]([dec])

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-SOCKET\_RECV: Unexpected error during socket data recv [chars]([dec])

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-SOFTINCAP: Peer [chars] not capable of soft refresh in, operator intervention needed: [chars]

**Explanation** The router is unable to do soft refresh for the indicated peer.

**Recommended Action** If necessary, reset the connection with the peer.

**Error Message** BGP-3-SRAND: Failed to set random seed

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-3-SUPSTATE: Error in learning SUP state

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-TBLATTRAVL\_OP: Failed table attribute database operation: [chars], id [hex]

**Explanation** BGP was unable to perform a table attribute database operation

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-TBLAVL\_OP: Failed table database operation: [chars], table [chars] id [hex]

**Explanation** BGP was unable to perform a table database operation

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-TBLCTX\_INIT: VRF [chars], [chars], table [chars]: Table initialization failed

**Explanation** BGP was unable to initialize an internal datastructure. The BGP process may have run out of memory.

**Recommended Action** If BGP ran out of memory, add memory to the router or change the network configuration to decrease memory requirements. Clear any BGP peers that may have been shut down automatically. If BGP has memory available, there was an internal error, restart BGP

**Error Message** BGP-3-THREAD\_SHUTDOWN: Problem shutting down thread [chars]: Operation - [chars], Error - [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-TIMER\_START: Couldn't start [chars] timer [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-TIMER\_STOP: Couldn't stop [chars] timer [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-U6RIBRNH: U6RIB RNH error: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-ULIBREG: Unable to register with ULIB

**Explanation** An unrecoverable error has occurred during BGP initialization.

**Recommended Action** Restart component

**Error Message** BGP-3-ULIBRNH: ULIB RNH error: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-UNEXPECT: [chars] L[dec]: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-UNEXPPATHATTR: [[chars]] Unexpected attr ([hex]) path chain for [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-URIBRNH: URIB RNH error: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-URIBRT: URIB RT error: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-URIB\_API: URIB API [chars]() failed

**Explanation** URIB API had failed

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-3-URIB\_RT\_MODIFY\_WITH\_RC: URIB route modify operation failed during [chars]  
[dec]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-URIB\_RT\_MODIFY: URIB route modify operation failed during [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-VPC\_MVPN\_VRI\_GENERATION\_FAILED: Configuration router bgp ; mvpn vri id is required to generate MVPN VRI on vPC node.

**Explanation** Unable to generate MVPN VRI on vPC node

**Recommended Action** Configure mvpn vri id

**Error Message** BGP-3-VRFAVL\_OP: Failed vrf database operation: [chars], vrf [chars] id [dec]

**Explanation** BGP was unable to perform a vrf database operation

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-3-VRF\_CTX: VRF [chars], failed [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Report the issue to Customer Support

## BGP-4

**Error Message** BGP-4-AFIMPORT: [chars] prefixes imported from [chars] to [chars] has reached the limit [dec]

**Explanation**

**Recommended Action** No special action is required.

**Error Message** BGP-4-APIMTSNOMSG: No MTS payload found on [chars] queue, opc [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-4-CFG\_ADVERTISEPIP\_ADD: Command 'advertise-pip' has been configured: please, ensure that 'advertise virtual-rmac' under interface NVE is also configured for proper VxLAN over IPv4 underlay operation.

**Explanation** Advertise-pip and advertise virtual-rmac must be in sync

**Recommended Action** No special action is required.

**Error Message** BGP-4-CFG\_ADVERTISEPIP\_DEL: Command 'advertise-pip' has been removed: please, ensure that 'advertise virtual-rmac' under interface NVE is also removed for proper VxLAN over IPv4 underlay operation.

**Explanation** Advertise-pip and advertise virtual-rmac must be in sync

**Recommended Action** No special action is required.

**Error Message** BGP-4-CFG\_ADVERTISEPIP\_ORDER: Command 'advertise-pip' has been configured: please remove advertise-pip and configure 'advertise virtual-rmac' under interface NVE first.

**Explanation** Advertise-pip and advertise virtual-rmac must be in special order

**Recommended Action** No special action is required.

**Error Message** BGP-4-CFG\_EVPN\_ORIG\_MAP\_MISSING: [chars] route type [dec] received from L2RIB with tag [dec], no originate-map policy configured

**Explanation** Originate-map policy missing

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-CFG\_REWRITE\_RT\_ASN: When soft-reconfig is enabled, enabling/disabling 'rewrite-rt-asn' may not take effect until after 'restart bgp' is issued

**Explanation** Rewrite-rt-asn requires a restart BGP when soft-reconfig is configured

**Recommended Action** No special action is required.

**Error Message** BGP-4-DUAL\_RD\_GENERATION\_FAILED: Unable to generate dual RD on EVPN multisite border gateway. This may increase memory consumption on other BGP routers receiving re-originated EVPN routes. Configure router bgp ; rd dual id to avoid it.

**Explanation** Unable to generate dual RD on EVPN multisite border gateway

**Recommended Action** Configure rd dual id

**Error Message** BGP-4-EPE\_NONDEFAULT\_VRF: Command egress-engineering cannot be configured for peer [chars] in a non-default VRF

**Explanation** Template egress-engineering not applied to peer in non-default VRF

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-ERR\_HANDLING\_REASON: Enhanced Error processing: [chars] [[dec]] Action: [chars] from peer [chars]

**Explanation** Which attribute trigger the enhanced error processing

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-ERR\_TREAT\_AS\_WITHDRAW: Treating advertised routes as withdraw from peer [chars] af [[chars]] [chars]/[dec] [chars]

**Explanation** Advertised routes are taken as withdraw because of a route filter match or an attribute is malformed

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-EVPN\_MANUAL\_CONFIG\_DELETE: EVPN mode has been removed. All L2 VNIs will have their manual overriding configurations deleted and their RD and RTs defaulted to the auto values

**Explanation** EVPN defaults to auto when vni is UP in NVE.

**Recommended Action** No special action is required.

**Error Message** BGP-4-EXIT\_DECONFIG: BGP process exiting due to deconfiguration

**Explanation** The indicated BGP process has been deconfigured.

**Recommended Action** No special action is required.

**Error Message** BGP-4-EXIT\_RESTART: BGP process exiting due to manual restart

**Explanation** The indicated BGP process is being restarted.

**Recommended Action** No special action is required.

**Error Message** BGP-4-EXIT\_UNKNOWN: BGP process exiting due to unknown reason

**Explanation**

**Recommended Action** No special action is required.

**Error Message** BGP-4-EXTCOMLEN: Extended communities exceeded the max limit of [dec]

**Explanation** An internal limit was hit in adding an extended community.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-4-INVALIDIOD: Received interface([chars]) [chars] notification from IM with zero iod

**Explanation** BGP received an IF notification from IM with zero or invalid iod

**Recommended Action** No special action is required.

**Error Message** BGP-4-ISSU\_CHECK: Not ready for ISSU: Graceful Restart or hold time check failed

**Explanation** Either Graceful Restart is disabled or hold time is less than or equal to switchover time for one or more peers.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-ISSU\_HOLDTIME: ISSU will be affected if hold time is less than or equal to system switchover time ([dec] seconds)

**Explanation** Hold time is less than or equal to system switchover time.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-LDP\_CONV\_TIMER\_EXP: [[chars]] Bestpath timer expired before LDP got converged vrf: [chars]

**Explanation** Bestpath timer expired before LDP got converged after SSO

**Recommended Action** No special action is required.

**Error Message** BGP-4-MAXPEERS: Trying to configure more than [dec] neighbors

**Explanation** BGP has hit the limit of the number of peers that can. be configured.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-MQUNEXPECT: Recieved unexpected message ([dec]/[dec]) on [chars] queue

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-4-MTSNOMSG: No MTS payload found on [chars] queue, opc [dec]



**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-4-MTSUNKOPC: Recieved unknown MTS message on [chars] queue, opc [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

**Error Message** BGP-4-NGMVPN\_UNKNOWN\_ROUTE\_TYPE: Unknown [chars] route type [dec] received from peer [chars] [chars], ignoring it

**Explanation** Unsupported route type received

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-NODAMPMEM: [[chars]] Unable to dampen prefix [chars] from peer [chars] due to no memory

**Explanation** BGP\_EXPL\_NO\_MEMORY

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-NORID: Peer [chars] sent us 0.0.0.0 as its router-id

**Explanation** A BGP peer sent us an invalid router id.

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-4-PATH\_ATTR\_FILTER\_MATCH: discarding attribute [dec] length [dec] for peer [chars] due to matching filter

**Explanation** Peer is impacted because of the match in path-attribute filter

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-PATH\_ATTR\_FILTER: path attribute filter has changed for peer [chars]. [chars]

**Explanation** Peer is impacted because of the update in path-attribute filter

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-PFEXCEED: [[chars]] No. of prefix received from [chars] exceeded configured limit [dec]

**Explanation** A peer sent us more routes than BGP was configured to accept.

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-4-PFXWARN: [[chars]] Number of prefixes received from [chars] reached [dec], maximum [dec]

**Explanation** The number of routes sent to us by a peer exceeded the threshold at which BGP should generate a warning.

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-4-PREFIX\_MAX\_PATHS\_EXCEEDED: [[chars]] Prefix [chars] with [dec] paths has exceeded the maximum number of supported [dec] paths

**Explanation** An abnormal number of paths in a prefix may degrade BGP's performance.

**Recommended Action** No special action is required.

**Error Message** BGP-4-RLIMIT: Error while setting rlimit, error - [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-SAMERID: Peer [chars] uses same routerid as us

**Explanation** A BGP peer is using the same router id as this router.

**Recommended Action** Configure either the local or remote router with a different router ID.

**Error Message** BGP-4-SELF\_RESTART: BGP self-restarting due to [chars][chars][chars]

**Explanation** BGP process is performing a self-restart.

**Recommended Action** No special action is required.

**Error Message** BGP-4-SLAB\_HOLD: Not able to hold element from [chars] slab

**Explanation**

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-SNMP\_DEREGFAIL: Failed to deregister MIB with the SNMP agent ([chars]).

**Explanation** MIB deregistration failed during shutdown.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-SNMP\_REGFAIL: Failed to register MIB with the SNMP agent, the BGP MIB will be unavailable. ([chars])

**Explanation** MIB registration failed during startup.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-SR\_DUPE\_LABEL: Prefixes [chars]/[dec] in table [dec] and [chars]/[dec] in table [dec] have the same label index

**Explanation** Two unique prefixes should not have the same label index

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-4-TXLIST: [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Report the issue to Customer Support

## BGP-5

**Error Message** BGP-5-ADJCHANGE: neighbor [chars] [chars] [chars]

**Explanation** A BGP session has just been established. Or a session has just been shutdown.

**Recommended Action** No special action is required.

**Error Message** BGP-5-BADSIG: Should not have received signal [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-5-MAXMSGLIMIT: [[chars]] Failed to send update message with prefix [chars] for peer [chars] because the msg size([dec]) exceeded the maximum limit([dec])

**Explanation** BGP Update message reached the maximum limit

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-5-MEMALERT: BGP memory status changed from [chars] to [chars]

**Explanation**

**Recommended Action** No special action is required.

**Error Message** BGP-5-NO\_RD: VRF [chars] : RD deconfigured

**Explanation** RD deconfigured from VRF.

**Recommended Action** No special action is required.

**Error Message** BGP-5-NO\_VDC\_MAC: BGP process is restarting due to unavailable VDC MAC

**Explanation** Exit BGP process because VDC MAC is not available yet

**Recommended Action** No special action is required.

**Error Message** BGP-5-SHUTDOWN: BGP process [chars] administratively [chars]

**Explanation** BGP protocol was administratively up/shutdown.

**Recommended Action** No special action is required.

## BGP-6

**Error Message** BGP-6-AS4AGG\_INVALID: Received AS4\_AGGREGATOR with invalid length [dec] in it from peer [chars]

**Explanation** The peer has sent AS4\_AGGREGATOR with invalid attr length which would be discarded.

**Recommended Action** No special action is required.

**Error Message** BGP-6-AS4PATH\_CONFED: Received AS4\_PATH with CONFED related path segments in it from peer [chars]

**Explanation** The peer has sent AS4\_PATH with confed based path segments which would be discarded.

**Recommended Action** No special action is required.

**Error Message** BGP-6-AS4PATH\_SEGLEN: Received AS4\_PATH with zero path segment length in it from peer [chars]

**Explanation** The peer has sent AS4\_PATH with zero path segment length which would be discarded.

**Recommended Action** No special action is required.

**Error Message** BGP-6-AS4PATH\_SEGTYPE: Received AS4\_PATH with invalid path segment type in it from peer [chars]

**Explanation** The peer has sent AS4\_PATH with invalid path segment type which would be discarded.

**Recommended Action** No special action is required.

**Error Message** BGP-6-BADASPATH: Long AS path [chars] received from peer [chars]: more than configured maxas-limit [dec]

**Explanation** The peer sent an AS path exceeding the maxas-limit.

**Recommended Action** Check that the peering router is configured correctly. Clear the peer if necessary after any change.

**Error Message** BGP-6-MAXPEER\_LIMIT: Reached maximum-peer limit on the prefix peer [chars], ignoring connection request from [chars]

**Explanation** Session can be brought up due to maximum-peer limit

**Recommended Action** No special action is required.

**Error Message** BGP-6-MEMSTAT: Hit low memory condition - Free: [dec] MB, Min free: [dec] MB

**Explanation**

**Recommended Action** No special action is required.

**Error Message** BGP-6-PATH\_MAXASLIMIT: [[chars]] Path for [chars] from peer [chars] found to [chars] the maxas-limit

**Explanation**

**Recommended Action** No special action is required.

**Error Message** BGP-6-ROUTERID\_RANDOM: Auto-generated random router ID [chars]

**Explanation** A valid router-id could not be auto-generated. Proceeding with a random router-id value.

**Recommended Action** No special action is required.

**Error Message** BGP-6-SRTE\_ERROR: SRTE ERROR: [chars]

**Explanation** Error calling SRTE API

**Recommended Action** Keep running, do nothing special

**Error Message** BGP-6-START: BGP process [chars] startup, reason: [chars]

**Explanation** The indicated BGP process has started.

**Recommended Action** No special action is required.

**Error Message** BGP-6-ULIBUPDATE: [[chars]] Couldn't update label to ULIB for prefix [chars]

**Explanation** No BGP update to ULIB because of same labels

**Recommended Action** No special action is required.

## BGP-7

**Error Message** BGP-7-LOGFILE: Successfully created debug pipes: [dec], [dec] and debug file [dec], fdmask: [hex]

**Explanation** BGP's log file has been setup and created.

**Recommended Action** No special action is required.

**Error Message** BGP-7-OBJSTORE: Objstore API [chars]() failed with error: [dec]

**Explanation** Objstore API has failed

**Recommended Action** Keep running, do nothing special

## EIGRP Messages

This section contains the EIGRP messages.

## EIGRP-2

**Error Message** EIGRP-2-ALLOC\_URIB\_ADD: eigrp\_smalloc() failed for URIB add-route buffer

**Explanation** Failed to allocate URIB add-route buffer.

**Recommended Action** Configure the network or router to decrease the number of routes, or add additional memory to the router.

**Error Message** EIGRP-2-ALLOC\_URIB\_DEL: eigrp\_smalloc() failed for URIB delete-route buffer

**Explanation** Failed to allocate URIB delete-route buffer.

**Recommended Action** Configure the network or router to decrease the number of routes, or add additional memory to the router.

**Error Message** EIGRP-2-API\_INIT: Couldn't initialize [chars] API

**Explanation** EIGRP failed to open API to interact with the component.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-BFD\_API\_FAIL: bfd\_send\_remove\_sessions

**Explanation** Failed to send bfd remove sessions.

**Recommended Action** No special action is required.

**Error Message** EIGRP-2-BFD\_CREATE\_SESSION\_FAILED: BFD Session create failed.

**Explanation** Failed to create BFD session.

**Recommended Action** No special action is required.

**Error Message** EIGRP-2-CIB\_CREATE\_FAIL: eigrp\_create\_cib failed for context [chars]

**Explanation** Failed to create specified context.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-CLEANUP\_DREG: Failed to deregister with [chars] during eigrp\_cleanup()

**Explanation** Failed to deregister with specified service during process shutdown.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-CLI\_INIT\_FAILED: cli\_init() failed in eigrp\_init\_cli()

**Explanation** EIGRP could not register with the CLI server process.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-ERR\_FREEBUF: Illegal memory free in function [chars]

**Explanation** Illegal memory free detected.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-ERR\_URIB\_TID: Can't determine context from URIB table id [dec]

**Explanation** Failed to determine context from URIB table id.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-ILLEGAL\_TIMER\_ID: Illegal timer-id used in mgd\_timer\_init\_leaf(), timer-id: [dec]

**Explanation** Illegal timer id was specified.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-ILL\_FUNCALL: Illegal call to function [chars]

**Explanation** Illegal call to specified function.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-ILL\_POLICY\_TYPE: Illegal policy type in [chars]()

**Explanation** Illegal policy type in specified rpm callback.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-ILL\_WORKTYPE: Illegal work type [dec] ipigrp2\_process\_workq()

**Explanation** Worker thread received illegal work type.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG



**Error Message** EIGRP-2-IM\_GET\_NAME\_FAILED: im\_get\_if\_name failed for iod ([dec]) with error ([dec])

**Explanation** EIGRP could not get if\_name from Interface Manager

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-IM\_REG\_FAILED: im\_register\_client() failed in eigrp\_init\_im()

**Explanation** EIGRP could not register with the IM process.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-INIT: [chars] failed

**Explanation** EIGRP process initialization failed.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-IP\_MCAST\_JOIN\_FAILED: Unable to join ip mcast group for interface: [chars]. Please unconfigure and configure it again.

**Explanation** EIGRP could not join mcast group for the interface.

**Recommended Action** ACTION\_OPERATOR\_RETRY

**Error Message** EIGRP-2-IP\_REG\_FAILED: ip\_register() failed in eigrp\_init\_ip()

**Explanation** EIGRP could not register with the IP process.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-L3VM\_SOO\_NOTIF: l3vm\_get\_if\_soo\_info failed for interface [chars]

**Explanation** EIGRP could not get SoO from L3VM for

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-MGD\_TIMER\_CREATE\_FAIL: Failed to create managed timer [dec]

**Explanation** Failed to create specified managed timer.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-MTSBIND: Unable to bind to MTS SAP for [chars], sap [dec]: [chars]

**Explanation** EIGRP was not able to create a message queue for communication.

**Recommended Action** Restart component

**Error Message** EIGRP-2-MTS\_BIND: mts\_bind() failed in binding [chars] mts\_q, error [chars]

**Explanation** Failed in binding to specified mts queue with error.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-MTS\_REQ\_FM\_STATUS: Failed in mts\_register of MTS\_OPC\_FM\_SRV\_FEATURE\_STATUS

**Explanation** Failed to request feature status notification.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-NO\_MEMORY: Can't allocate memory in function [chars]

**Explanation** Can't allocate memory in specified function.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** EIGRP-2-NO\_SET\_PRIORITY: Failed to set policy or priority

**Explanation** EIGRP process could not set itself process priority, exiting.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-PROCINFO\_CREATE\_FAIL: eigrp\_procinfo creation failed

**Explanation** Failed to create procinfo.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-PTHREAD\_FAILED: [chars] failed in [chars] for thread [chars]

**Explanation** EIGRP process failed to create a task thread.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-REG\_L3VM: Failed to register with l3vm

**Explanation** Failed to register with the l3vm process.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-REG\_OPCODE: Could not register opcode 0x[hex], reason [chars]

**Explanation** Could not register mts opcode with reason.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-RLIMIT\_FAILED: Couldn't set data segment size to [dec]

**Explanation** EIGRP process could not set its memory resource limit, exiting.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-RPM\_L3VPN\_API: RPM\_L3VPN\_API failed : [chars]

**Explanation** EIGRP call to RPM L3VPN API failed

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-SBCR\_INIT: Could not initialize shared database client, rc=0x[hex]  
[[chars]]

**Explanation** Failed to initialize shared database client with return error code.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-TIMER\_CREATE\_FAIL: Failed to create [chars] active timer

**Explanation** Failed to create specified active timer.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-TIMER\_SET\_INIT: Couldn't init [chars] active timer set

**Explanation** EIGRP failed to initialize timer resource.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-U6RIB\_REGISTER: EIGRP could not register with the U6RIB

**Explanation** At initialization time, EIGRP could not register with the U6RIB process.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-URIB\_ACK\_ERROR: URIB ack not processed for transaction id [dec]

**Explanation** EIGRP could not find the xid for URIB ack

**Recommended Action** No special action is required.

**Error Message** EIGRP-2-URIB\_ADD\_ROUTE: urib\_add\_route() failed

**Explanation** Failed to add routes to URIB.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-URIB\_REDIST\_LIMIT\_HIT: Redistribute maximum-prefix limit reached: [dec].

**Explanation** EIGRP has reached the configured redistribute maximum-prefix limit.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-URIB\_REDIST\_LIMIT\_WARNING: Redistribute threshold limit reached: [dec]%.

**Explanation** EIGRP has reached the configured redistribute maximum-prefix threshold.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-URIB\_REGISTER: EIGRP could not register with the URIB

**Explanation** At initialization time, EIGRP could not register with the URIB process.

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-URIB\_RT\_MOD\_INIT: URIB\_RT\_MOD\_INIT failed

**Explanation** EIGRP call tp URIB\_RT\_MOD\_INIT API failed

**Recommended Action** Kill component and don't restart it

**Error Message** EIGRP-2-URIB\_SEND\_BUFFER: urib\_rt\_mod\_send() failed

**Explanation** Failed to send add/delete buffer to URIB. The RIB and topology table might be inconsistent. Try restarting EIGRP to clear the issue.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-2-VERIFY\_PTAG: Could not verify process tag with sysmgr

**Explanation** Could not verify process tag with sysmgr

**Recommended Action** Kill component and don't restart it

## EIGRP-3

**Error Message** EIGRP-3-ANCHORCOUNT\_DUAL: Anchor count negative

**Explanation** A software or hardware error occurred.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-BADCOUNT\_DUAL: Route [chars], [dec] successors, [dec] rdbs

**Explanation** A software or hardware error occurred.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-BFD\_SEND\_AUTO\_EXPIRY: Unable to start BFD staling, error [chars]

**Explanation** EIGRP BFD staling API failed

**Recommended Action** Dump core, then restart component

**Error Message** EIGRP-3-BUFFER\_OVERFLOW: Buffer overflow: [chars]

**Explanation** Buffer overflow while writing EIGRP community

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-CMI\_NO\_VRF\_ERR: CMI error: No [chars] VRF information found

**Explanation** CMI returned an error

**Recommended Action** Keep running, do nothing special

**Error Message** EIGRP-3-DUP\_ADDR: Duplicate address [chars] detected on interface [chars]

**Explanation** The same IP address was configured on two EIGRP routers on the same subnet.

**Recommended Action** ACTION\_EIGRP\_DUP\_ADDR

**Error Message** EIGRP-3-FEATURE\_STATUS: [chars] status error: 0x[hex]

**Explanation** FM get feature status failed

**Recommended Action** Keep running, do nothing special

**Error Message** EIGRP-3-GR\_OFF\_DURING\_UPG: Attempt to upgrade system with graceful-restart off.

**Explanation** Attempt to upgrade system with graceful-restart off.

**Recommended Action** ACTION\_EIGRP\_ENABLE\_GR

**Error Message** EIGRP-3-INTERNAL\_DUAL: [chars] [dec]: Internal Error

**Explanation** EIGRP internal DUAL finite state error.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-MTSDROP: MTS drop failed on [chars] queue: [chars]

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT

**Recommended Action** Report the issue to Customer Support

**Error Message** EIGRP-3-MTSRECV: MTS receive failed on [chars] queue: [chars]

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT

**Recommended Action** Keep running, do nothing special

**Error Message** EIGRP-3-MTSEND: MTS send() error to SAP [dec], opcode [dec]: [chars]

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT

**Recommended Action** Report the issue to Customer Support

**Error Message** EIGRP-3-MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** EIGRP called a MTS API which returned an error.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-MTS\_RECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** EIGRP called a MTS API which returned an error.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-MTS\_REGISTER: mts\_register failed for EIGRP: [chars]

**Explanation** EIGRP was unable to register an MTS notification

**Recommended Action** No special action is required.

**Error Message** EIGRP-3-MULTIFLOW\_DUAL: Flow control error, [chars], on [chars]

**Explanation** A software or hardware error occurred.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-NOHANDLE\_DUAL: Handle [dec] is not allocated in pool.

**Explanation** A software or hardware error occurred.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-PEERSEXIST\_DUAL: [dec] peers exist on IIDB [chars]

**Explanation** A software or hardware error occurred.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-PFXLIMITTHR\_DUAL: [chars] [dec] [chars] reached prefix limit threshold

**Explanation** Prefix limit threshold reached.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-PFXLIMIT\_DUAL: [chars] [dec] [chars] prefix limit exceeded

**Explanation** Prefix limit threshold exceeded.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-PROBESEQ\_DUAL: Bad probe sequence [dec] from [chars], expecting [dec]

**Explanation** A software or hardware error occurred.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-RDBLEFT\_DUAL: dest [chars], nexthop [chars] ([chars]), origin [chars]

**Explanation** A software or hardware error occurred.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-REFCOUNT\_DUAL: Negative refcount in pakdesc [hex]

**Explanation** A software or hardware error occurred.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-RPM\_REDIST\_INIT: Couldn't initialize redistribution API for [chars]

**Explanation** EIGRP failed to open API to interact with the component.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-SIA\_DUAL: Route [chars] stuck-in-active state in [chars] [dec]. Cleaning up

**Explanation** EIGRP route stuck-in-active, cleanup happened.

**Recommended Action** No special action is required.

**Error Message** EIGRP-3-SYSMGR\_DISPATCH: Error returned from sysmgr\_dispatch(), errno: [chars]

**Explanation** EIGRP called a System Manager API which returned an error.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-SYSMGR\_QUERY: Sysmgr state query failed for uuid [dec], tag [chars]

**Explanation** A software or hardware error occurred.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

**Error Message** EIGRP-3-UNKNOWN\_MTYPE: Unknown mtype: [dec]/[dec] while processing [chars]

**Explanation** EIGRP process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.



**Error Message** EIGRP-3-UNKTIMER\_DUAL: Unknown timer type [dec] expiration

**Explanation** A software or hardware error occurred.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

## EIGRP-4

**Error Message** EIGRP-4-MQUNEXPECT: Recieved unexpected message ([dec]/[dec]) on [chars] queue

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT

**Recommended Action** Report the issue to Customer Support

**Error Message** EIGRP-4-MTSNOMSG: No MTS payload found on [chars] queue, opc [dec]

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT

**Recommended Action** Report the issue to Customer Support

**Error Message** EIGRP-4-MTSUNKOPC: Received unknown MTS message on [chars] queue, opc [dec]

**Explanation** EIGRP\_EXPL\_UNEXPECTED\_EVENT

**Recommended Action** Report the issue to Customer Support

**Error Message** EIGRP-4-PICOSEC\_WARN: ip delay eigrp command accepted but did not take effect in 32 bit version mode

**Explanation** The command was issued when in 32bit metric version mode

**Recommended Action** No special action is required.

## EIGRP-5

**Error Message** EIGRP-5-EVENT\_DUAL: [chars], [chars]

**Explanation** DUAL event log message.

**Recommended Action** No special action is required.

**Error Message** EIGRP-5-HA\_INFO: EIGRP HA info msg - [chars]

**Explanation** EIGRP received a HA info msg.

**Recommended Action** No special action is required.

**Error Message** EIGRP-5-NBRCHANGE\_DUAL: [chars] [dec]: Neighbor [chars] ([chars]) is [chars]:  
[chars]

**Explanation** A neighbor went up or down.

**Recommended Action** No special action is required.

**Error Message** EIGRP-5-SHUTDOWN: Shutting down EIGRP process - [chars]

**Explanation** EIGRP received a shutdown request.

**Recommended Action** No special action is required.

**Error Message** EIGRP-5-WRONG\_SUBNET: Neighbor [chars] detected on interface [chars] not on same  
subnet [chars]

**Explanation** IP address configured on two EIGRP routers is NOT on the same subnet.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

## EIGRP-6

**Error Message** EIGRP-6-UNEQUAL\_METRICS: EIGRP: Unequal metric ([chars]), delay [[dec]/[dec]],  
bandwidth [[dec]/[dec]] , mtu [[dec]/[dec]], hopcount [[dec]/[dec]], reliability [[dec]/[dec]],  
load [[dec]/[dec]]

**Explanation** Unequal metrics detected and log-neighbor-warnings is enabled.

**Recommended Action** ACTION\_EIGRP\_SEND\_LOG

## HEAP Messages

This section contains the HEAP messages.

### HEAP-3

**Error Message** HEAP-3-HEAP\_ERROR: [chars]

**Explanation** Heap routing library error

**Recommended Action** No special action is required.

## HEAP-4

**Error Message** HEAP-4-HEAP\_WARNING: [chars]

**Explanation** Heap malloc warning

**Recommended Action** No special action is required.

## ICMPV6 Messages

This section contains the ICMPV6 messages.

### ICMPV6-2

**Error Message** ICMPV6-2-ADJ\_RAVL: [chars] in [chars]()

**Explanation** ICMPv6 called an AVL API that has failed

**Recommended Action** No special action is required.

**Error Message** ICMPV6-2-DB\_RESTORE\_OBJ: [chars] in [chars]()

**Explanation** ICMPv6 DB restoration from DME object store has failed

**Recommended Action** No special action is required.

**Error Message** ICMPV6-2-MALLOC\_FAILED: malloc() failed for allocating [chars] in [chars]()

**Explanation** ICMPv6 process is out of heap memory. This could be due to temporary increase in the number of static or dynamic Neighbor Cache Entries(NCEs) to a very high value

**Recommended Action** Keep running, do nothing special

**Error Message** ICMPV6-2-REMOTE\_STATIC\_EXISTS: Remote static exists for,IPv6 = [chars], VLAN = [dec], IOD = [dec], Interface = [chars]

**Explanation** This warning comes when user enter a static ipv6 neighbor entry. This warning indicates that there is already a remote static MAC IP present for this same MAC IP

**Recommended Action** No special action is required.

## ICMPV6-3

**Error Message** ICMPV6-3-ADJ\_ADD: Failed to add adjacency for received packet from [chars] on [chars]

**Explanation** Due to this failure, packet forwarding to this address will be affected until the next successful retrieval.

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-API\_FAILED: [chars] failed in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-API\_INIT\_FAILED: [chars] failed in [chars]() with rc=0x[hex], [chars]

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-API\_INTERFACE\_FAILED: [chars] failed for [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-BAD\_INFO\_RECEIVED: Invalid [chars] message type [dec] received in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-BITFIELD\_FAILED: [chars] failed in [chars]

**Explanation** ICMPV6 process could not execute the bitfield operation.

**Recommended Action** Dump core, then reload the stack

**Error Message** ICMPV6-3-COUNT\_MISMATCH: Mismatch between calculated and received adjacencies:

Calculated:[dec] and Received:[dec]

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION

**Recommended Action** Keep running, do nothing special

**Error Message** ICMPV6-3-CV\_INIT: Couldn't init cond var [chars]

**Explanation** ICMPV6 process failed to initialize conditional-variable resource.

**Recommended Action** Dump core, then restart component

**Error Message** ICMPV6-3-FHRP\_CTXT: Adding virtual ipv6 address for [chars]: non-ipv6 enabled interface [chars] in context [dec]

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-GROUP\_PREFIX\_IGNORE: Too many Groups in Group Prefix [chars]. Specify the prefix within /120

**Explanation** GPrefix yields too many Groups

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-GROUP\_RANGE\_IGNORE: Too many Groups in Group Range [chars] - [chars]

**Explanation** Group Range yields too many Groups

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-IF\_INDEX: Invalid interface index received from [dec]

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION

**Recommended Action** Keep running, do nothing special

**Error Message** ICMPV6-3-MBUF\_OP\_FAILED: [chars] for size [dec] failed in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-MQ\_FAILED\_NAME: [chars] failed for client [chars], errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-MQ\_FAILED\_PID: [chars] failed to client pid: [dec], errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-MQ\_FAILED: [chars] failed, errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-MSG\_TO\_TLV: TLV Conversion failed ([dec])

**Explanation** TLV conversion failed

**Recommended Action** Report the issue to Customer Support

**Error Message** ICMPV6-3-MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** ICMPv6 called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** ICMPV6-3-MTS\_FAILED\_NAME: [chars] failed for client [chars], errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-MTS\_FAILED\_PID: [chars] failed to client pid: [dec], errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-MTS\_FAILED: [chars] failed, errno: [chars] in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-MTS\_RECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** ICMPv6 called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** ICMPV6-3-MUTEX\_INIT: Couldn't init mutex [chars]

**Explanation** ICMPV6 process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** ICMPV6-3-ND\_LOG: [chars]

**Explanation** Neighbor Discovery process found erroneous configuration on the network

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-ND\_RA\_LOG: [chars]

**Explanation** Network configuration information obtained from Neighbor Discovery - Router Acknowledgement(RA) packet

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-PACKET\_LENGTH\_ERROR: ICMPv6 packet from [chars] is smaller than payload length of [dec] bytes:[chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-PT\_ADD: Couldn't add element to PT [chars]

**Explanation** ICMPv6 failed to update the local database entry.

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-PT\_DEL: Couldn't delete element from PT [chars]

**Explanation** ICMPv6 failed to delete the local database entry.

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-RESERVE\_LIMIT: Exceeded reserve-limit for interface [chars] - dropping

**Explanation** Exceeded 80 percent of the reserve-limit for interface

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-STATE\_LIMIT: Exceeded state-limit for interface [chars] - dropping

**Explanation** Exceeded 80 percent of the state-limit for interface

**Recommended Action** No special action is required.

**Error Message** ICMPV6-3-SYSMGR\_DISPATCH: Error returned from sysmgr\_dispatch(), errno: [chars]

**Explanation** ICMPv6 called a System Manager API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** ICMPV6-3-TLV\_TO\_STRUCT: TLV to Struct Conversion failed ([dec])

**Explanation** TLV to Struct conversion failed

**Recommended Action** Report the issue to Customer Support

**Error Message** ICMPV6-3-TXLIST\_CREATE: Couldn't create txlist for [chars]

**Explanation** ICMPV6 failed to create txlist resource.

**Recommended Action** Dump core, then restart component

**Error Message** ICMPV6-3-VRF\_CREATE: ICMPv6 VRF creation failed for vrf [chars]

**Explanation** ICMPv6 process could not create the VRF context.

**Recommended Action** Dump core, then reload the stack

## ICMPV6-4



**Error Message** ICMPV6-4-M6RIB\_SM\_ADDR: M6RIB shared memory not valid for mtype:[dec], xid:[dec], count:[dec]

**Explanation** M6RIB shared memory being accesses is not valid

**Recommended Action** No special action is required.

**Error Message** ICMPV6-4-MTS\_QUEUE\_NOT\_INITIALIZED: [chars] mts queue not intialized

**Explanation** ICMPV6\_UNEXPECTED\_EXPLANATION

**Recommended Action** No special action is required.

**Error Message** ICMPV6-4-RATE\_LIMIT\_WARNING: icmpv6 rate limit exceeded in [chars]

**Explanation** Num of ipc msgs sent to icmpv6 are rate limited

**Recommended Action** No special action is required.

## ICMPV6-6

**Error Message** ICMPV6-6-RESERVE\_LIMIT\_WARNING: Exceeded 80 percent of the reserve-limit for interface [chars]

**Explanation** Exceeded 80 percent of the reserve-limit for interface

**Recommended Action** No special action is required.

**Error Message** ICMPV6-6-STATE\_LIMIT\_WARNING: Exceeded 80 percent of the state-limit for interface [chars]

**Explanation** Exceeded 80 percent of the state-limit for interface

**Recommended Action** No special action is required.

**Error Message** ICMPV6-6-UNKNOWN\_OPC: Received unknown mts opcode [dec]

**Explanation** ICMPv6 process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

## ICMPV6-7

**Error Message** ICMPV6-7-IPV6\_PACKET\_SEND\_FAILED: [chars] failed in [chars]()

**Explanation** An unexpected but manageable event has occurred.);

**Recommended Action** No special action is required.

## IGMP Messages

This section contains the IGMP messages.

### IGMP-2

**Error Message** IGMP-2-STARTUP\_DEBUG: [chars] [dec]

**Explanation** An unrecoverable software error has occurred during `_igmp_` startup.

**Recommended Action** No special action is required.

**Error Message** IGMP-2-STARTUP\_FAILURE: Startup failure: [chars]

**Explanation** An unrecoverable software error has occurred during `_igmp_` startup.

**Recommended Action** No special action is required.

**Error Message** IGMP-2-TABLE\_ALMOST\_FULL: `_IGMP_` [chars] entry table is [dec]% full.

**Explanation** The `_IGMP_` entry table is threshold% full.

**Recommended Action** No special action is required.

**Error Message** IGMP-2-TABLE\_LESS\_THAN\_ALMOST\_FULL: `_IGMP_` [chars] entry table is now less than [dec]% full.

**Explanation** The `_IGMP_` entry table is now less than threshold% full.

**Recommended Action** No special action is required.

### IGMP-3

**Error Message** IGMP-3-ALREADY\_RUNNING: `_IGMP_` already running, exiting

**Explanation** Another `_IGMP_` process is already running, this process will shutdown.

**Recommended Action** No special action is required.

**Error Message** `IGMP-3-API_FAILED: [chars] failed in [chars]`

**Explanation** `_IGMP_` process failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** `IGMP-3-AVL_ERROR: AVL-tree operation [chars] failed for [chars]`

**Explanation** `_IGMP_` process failed in an AVL-tree manipulation.

**Recommended Action** No special action is required.

**Error Message** `IGMP-3-BAD_MSG: Invalid [chars] message received from [chars]`

**Explanation** `_IGMP_` received an invalid MTS message.

**Recommended Action** Dump core, then restart component

**Error Message** `IGMP-3-BF_CREATE: Couldn't create bitfield for [chars]`

**Explanation** `_IGMP_` failed to create bitfield resource.

**Recommended Action** Dump core, then restart component

**Error Message** `IGMP-3-BITFIELD_FAILED: [chars] failed in [chars]`

**Explanation** `_IGMP_` process could not execute the bitfield operation.

**Recommended Action** Dump core, then reload the stack

**Error Message** `IGMP-3-CV_INIT: Couldn't init cond var [chars]`

**Explanation** `_IGMP_` process failed to initialize conditional-variable resource.

**Recommended Action** Dump core, then restart component

**Error Message** `IGMP-3-ENCAP_DEL: Couldn't delete encap entry for [dec] (*, [chars]) ([chars]) due to [chars] from snooping database`

**Explanation** `_IGMP_` failed to delete the snooping-db encap entry.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-FEX\_MRD\_ERROR: Router behind FEX port [chars] is not supported by the hardware

**Explanation** \_IGMP\_ snooping could not process PIM hello from the fex port since it is not supported

**Recommended Action** No special action is required.

**Error Message** IGMP-3-FEX\_QUERY\_ERROR: Router behind FEX port [chars] is not supported by the hardware

**Explanation** \_IGMP\_ snooping could not process query from the fex port since it is not supported

**Recommended Action** No special action is required.

**Error Message** IGMP-3-GETRLIMIT\_FAILED: Address Space size retrieval failed, reason [chars]

**Explanation** \_IGMP\_ process could not retrieve memory resource limit

**Recommended Action** No special action is required.

**Error Message** IGMP-3-GET\_MAC\_ADDR: [chars] failed in [chars] with error [chars]

**Explanation** \_IGMP\_ process failed in getting mac addr

**Recommended Action** No special action is required.

**Error Message** IGMP-3-GROUP\_DEL: Couldn't delete group entry for [chars] ([chars]) due to [chars] from snooping database

**Explanation** \_IGMP\_ failed to delete the snooping-db group entry.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-GROUP\_LIMIT: Exceeded multicast group limit ([dec]), ignoring new reports

**Explanation** Exceeded the multicast group limit

**Recommended Action** No special action is required.

**Error Message** IGMP-3-GROUP\_LOW\_THRESH: Multicast group count below [dec], group joins re-enabled

**Explanation** Multicast group count below threshold

**Recommended Action** No special action is required.

**Error Message** IGMP-3-GROUP\_PREFIX\_IGNORE: Too many Groups in Group Prefix [chars]. Specify the prefix within /24

**Explanation** GPrefix yields too many Groups

**Recommended Action** No special action is required.

**Error Message** IGMP-3-GROUP\_RANGE\_IGNORE: Too many Groups in Group Range [chars] - [chars]

**Explanation** Group Range yields too many Groups

**Recommended Action** No special action is required.

**Error Message** IGMP-3-HA\_DB\_REBUILD: HA run-time database buildup [chars]

**Explanation** \_IGMP\_ -SNOOP stateful restart status

**Recommended Action** No special action is required.

**Error Message** IGMP-3-IGMP\_INIT: \_IGMP\_ init failed: [chars]

**Explanation** \_IGMP\_ process initialization failed.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-IM\_API\_FAILED: [chars] failed in [chars]

**Explanation** IM API failed in MCEC \_IGMP\_ Snoop.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-LIB\_API\_FAILED: [chars] failed in [chars]

**Explanation** Process failed in invoking \_IGMP\_ API.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-LIB\_MTS\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** Process failed to access the \_IGMP\_ MTS-queue.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-MALLOC\_FAILED: Malloc failed in [chars] ([dec]) size:%zd

**Explanation** \_IGMP\_ process is out of free memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** IGMP-3-MFDM\_NO\_BUF: Cannot find MFDM buffer from route-ack for xid 0x[hex]

**Explanation** \_IGMP\_ process could not find a route buffer in it's queue from the MFDM message, ignored.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-MTS\_BIND: Error returned from mts\_bind() for [chars] mts-q, errno: [chars]

**Explanation** \_IGMP\_ called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-MTS\_DROP: Error returned from mts\_drop() for [chars] queue, errno: [chars]

**Explanation** \_IGMP\_ called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-MTS\_INIT: Error returned from mts\_callback\_handler\_set() for [chars] queue, errno: [chars]

**Explanation** \_IGMP\_ called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-MTS\_RECV: Error returned from mts\_recv() for [chars] queue, errno: [chars]

**Explanation** \_IGMP\_ called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-MTS\_SEND: Error returned from mts\_send() for [chars] queue, errno: [chars]

**Explanation** \_IGMP\_ called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-MUTEX\_INIT: Couldn't init mutex [chars]

**Explanation** \_IGMP\_ process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-NO\_SET\_PRIORITY: Failed to set policy or priority

**Explanation** \_IGMP\_ process could not set itself process priority, exiting.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-NO\_SHUTDOWN: Unable to shutdown [chars]

**Explanation** \_IGMP\_ process unable to shut itself down.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-PTHREAD\_FAILED: [chars] failed in [chars] for thread [chars]

**Explanation** \_IGMP\_ process failed to create a task thread.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-PT\_ADD: Couldn't add element to PT [chars]

**Explanation** \_IGMP\_ failed to update the local snooping-db entry.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-PT\_DEL: Couldn't delete element from PT [chars]

**Explanation** \_IGMP\_ failed to delete the local snooping-db entry.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-PULLUP\_FAILED: m\_pullup() of [dec] bytes failed in [chars]

**Explanation** \_IGMP\_ process failed to process the packet, dropping it.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-QUERIER\_START\_FAILED: [chars] failed in [chars]

**Explanation** \_IGMP\_ snoop failed to start the querier.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-RESERVE\_LIMIT: Exceeded reserve-limit for interface [chars] - dropping

**Explanation** Exceeded the reserve-limit for interface

**Recommended Action** No special action is required.

**Error Message** IGMP-3-RESTART\_REASON: \_IGMP\_ process has restarted, restart reason: [chars]

**Explanation** \_IGMP\_ is restoring the routes it had added in previous instance.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-SETRLIMIT\_FAILED: Address space size increment of [dec] failed, reason [chars]

**Explanation** \_IGMP\_ process could not set itself memory resource limit

**Recommended Action** No special action is required.

**Error Message** IGMP-3-SNOOP\_CONFIG\_ERROR: SNOOP: Couldn't configure [chars], please configure [chars] first.

**Explanation** \_IGMP\_ snooping could not configure a parameter because of dependencies

**Recommended Action** No special action is required.

**Error Message** IGMP-3-SOURCE\_DEL: Couldn't delete source entry for ([chars], [chars]) ([chars]) due to [chars] from snooping database

**Explanation** \_IGMP\_ failed to delete the snooping-db source entry.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-STATE\_LIMIT: Exceeded state-limit for interface [chars] - dropping

**Explanation** Exceeded the state-limit for interface



**Recommended Action** No special action is required.

**Error Message** IGMP-3-SYSMGR\_DISPATCH: Error returned from sysmgr\_dispatch(), errno: [chars]

**Explanation** \_IGMP\_ called a System Manager API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-TIMER\_FAILED: [chars] failed for [chars] in [chars]

**Explanation** \_IGMP\_ process failed to configure a timer event.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-TXLIST\_CREATE: Couldn't create txlist for [chars]

**Explanation** \_IGMP\_ failed to create txlist resource.

**Recommended Action** Dump core, then restart component

**Error Message** IGMP-3-UNKNOWN\_MFDM\_OPC: igmp\_snoop\_mfdm\_main(): received unknown opcode [dec]

**Explanation** \_IGMP\_ process received unknown Interprocess message from MFDM, dropped.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-UNKNOWN\_MTYPE: Unknown mtype: [dec]/[dec] in [chars], opc:[dec], from:[chars]

**Explanation** \_IGMP\_ process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-VLAN\_DEL: Couldn't delete vlan entry for [chars] due to [chars] from snooping database

**Explanation** \_IGMP\_ failed to delete the snooping-db vlan entry.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-VLAN\_EXISTS: SNOOP: Couldn't create [chars], already exists

**Explanation** \_IGMP\_ failed to create vlan resource.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-VRF\_CREATE: \_IGMP\_ VRF creation failed for vrf [chars]

**Explanation** \_IGMP\_ process could not create the VRF context.

**Recommended Action** Dump core, then reload the stack

**Error Message** IGMP-3-VPC\_API\_FAILED: [chars][chars]

**Explanation** API failed in vPC \_IGMP\_ snoop module.

**Recommended Action** No special action is required.

**Error Message** IGMP-3-VPC\_ERROR: [chars][chars]

**Explanation** VPC related messages.

**Recommended Action** No special action is required.

## IGMP-4

**Error Message** IGMP-4-API\_NO\_SUCCESS: [chars] did not succeed in [chars]; Reason: [chars]

**Explanation** \_IGMP\_ process failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** IGMP-4-HOST\_SG\_PROXY\_LIMIT\_FULL: \_IGMP\_ host sg-proxy route limit(1000) reached

**Explanation** The \_IGMP\_ host sg-proxy is more than the limit.

**Recommended Action** No special action is required.

**Error Message** IGMP-4-LOCAL\_JOIN\_GRP: \_ip\_af\_ \_igmp\_ join-group command configured for interface [chars]. All multicast traffic will be sent to the CPU and not forwarded to receivers.

**Explanation** Local \_IGMP\_ join-group has been configured. The device CPU must be able to handle the traffic generated by using this command. Because of CPU load constraints, using this command, especially in any form of scale, is not recommended.

**Recommended Action** Consider using \_ip\_af\_ \_igmp\_ static-oif command instead.

**Error Message** IGMP-4-QUERY\_DROP\_ON\_SAT\_PORT: Since router ports on fexes is not supported,

dropping queries received on fex interface [chars].

**Explanation** Since, having router ports on fexes is not supported, we drop queries received on fex interfaces.

**Recommended Action** No special action is required.

**Error Message** IGMP-4-SYSTEM\_RESOURCE\_THRESHOLD\_WARNING: System resource usage for [chars] is above 84%

**Explanation** \_IGMP\_ entries reached 84% of Threshold.

**Recommended Action** No special action is required.

## IGMP-5

**Error Message** IGMP-5-IGMP\_DATA\_LEN: IP data len [dec] invalid in [chars]

**Explanation** IP data len invalid.

**Recommended Action** No special action is required.

**Error Message** IGMP-5-IGMP\_IP\_LEN: IP packet len [dec] invalid in [chars]

**Explanation** IP Packet len invalid.

**Recommended Action** No special action is required.

## IGMP-6

**Error Message** IGMP-6-AS\_LIMIT\_INCREASED: Address space size for [chars] increased [dec] times

**Explanation** \_IGMP\_ process incremented AS memory resource limit

**Recommended Action** No special action is required.

**Error Message** IGMP-6-HA\_SEQNO\_SYNC: HA sequence number sync to standby failed, [chars]

**Explanation** \_IGMP\_ -SNOOP HA sequence number sync to standby failed

**Recommended Action** No special action is required.

**Error Message** IGMP-6-HA\_STATEFUL: Stateful HA [chars]

**Explanation** \_IGMP\_-SNOOP stateful restart status

**Recommended Action** No special action is required.

**Error Message** IGMP-6-HA\_SYNC: HA sync to standby failed, [chars]

**Explanation** \_IGMP\_-SNOOP HA sync message to standby failed

**Recommended Action** No special action is required.

**Error Message** IGMP-6-NO\_FREE\_BUF: Could not get free buffers for [chars] in [chars]

**Explanation** Failed to get free buffers.

**Recommended Action** No special action is required.

**Error Message** IGMP-6-RECEIVE\_QUERY: Received [chars] interface [chars] from [chars]

**Explanation** \_IGMP\_ version mismatch, query still processed.

**Recommended Action** No special action is required.

**Error Message** IGMP-6-RESERVE\_LIMIT\_WARNING: Exceeded 80 percent of the reserve-limit for interface [chars]

**Explanation** Exceeded 80 percent of the reserve-limit for interface

**Recommended Action** No special action is required.

**Error Message** IGMP-6-RESTART\_SHUTDOWN: \_IGMP\_ shutting self down via restart command

**Explanation** \_IGMP\_ process is shutting itself down due to the restart command.

**Recommended Action** No special action is required.

**Error Message** IGMP-6-SHUTDOWN: \_IGMP\_ shutting self down

**Explanation** \_IGMP\_ process is shutting itself down.

**Recommended Action** No special action is required.

**Error Message** IGMP-6-STATE\_LIMIT\_WARNING: Exceeded 80 percent of the state-limit for interface [chars]

**Explanation** Exceeded 80 percent of the state-limit for interface

**Recommended Action** No special action is required.

**Error Message** IGMP-6-UNKNOWN\_OPC: Received unknown mts opcode [dec]

**Explanation** \_IGMP\_ process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

**Error Message** IGMP-6-vPC\_INFO: [chars][chars]

**Explanation** VPC related messages.

**Recommended Action** No special action is required.

## IPV6 Messages

This section contains the IPV6 messages.

### IPV6-2

**Error Message** IPV6-2-FASTBOOT\_MALLOC\_FAILED: [chars] failed while [chars]

**Explanation** IPv6 process is out of free memory.

**Recommended Action** No special action is required.

**Error Message** IPV6-2-FREAD\_FAILED: fread failed [dec] [dec]

**Explanation** IPv6 fread failed

**Recommended Action** No special action is required.

**Error Message** IPV6-2-IPV6\_MSG\_DAD\_FAILED: IPv6 DAD failed for [chars]

**Explanation** Duplicate address detected over network

**Recommended Action** No special action is required.

**Error Message** IPV6-2-IPV6\_MSG\_MVSH: [chars]

**Explanation** Shutting down interface using mvsh

**Recommended Action** No special action is required.

**Error Message** IPV6-2-IPV6\_REDIR: IPv6 Redirect triggered on interface [chars] Source: [chars]  
Destination: [chars]

**Explanation** IPv6 Redirect done on an interface

**Recommended Action** No special action is required.

**Error Message** IPV6-2-LPSS\_CREATE: lpss create for [chars] failed with 0x[hex] (errno: [dec])

**Explanation** Component API call failed in IPv6.

**Recommended Action** No special action is required.

**Error Message** IPV6-2-LPSS\_OPEN: lpss open for [chars] failed with 0x[hex] (errno: [dec])

**Explanation** Component API call failed in IPv6.

**Recommended Action** No special action is required.

**Error Message** IPV6-2-RECURSIVE\_LOOP: Recursive loop in [chars]

**Explanation** There is a recursive function calling loop.

**Recommended Action** Report the issue to Customer Support

**Error Message** IPV6-2-SDB\_CREAT: Failed to create shared database

**Explanation** Component API call failed in IPv6.

**Recommended Action** No special action is required.

**Error Message** IPV6-2-SDB\_DESTROY: Failed to destroy shared database, errno: [dec]

**Explanation** Component API call failed in IPv6.

**Recommended Action** No special action is required.

**Error Message** IPV6-2-SDB\_OPEN: Failed to open shared database, err: [chars]

**Explanation** Component API call failed in IPv6.

**Recommended Action** No special action is required.

**Error Message** IPV6-2-VPC\_CONFIG: [chars]

**Explanation** Required config for peer router is not present.

**Recommended Action** No special action is required.

## IPV6-3

**Error Message** IPV6-3-ADDR\_OVERLAP: IPv6 Address Overlap: Address configured on interface [chars] overlaps with the one configured on [chars]

**Explanation** Overlapping address configured

**Recommended Action** No special action is required.

**Error Message** IPV6-3-BAD\_CONTEXT: Bad context-id [dec] in [chars]

**Explanation** The context cannot be found

**Recommended Action** No special action is required.

**Error Message** IPV6-3-FRAME\_LENGTH\_LONG: Frame length: [dec] greater than maximum IPv6 payload size for packet received on interface [chars]

**Explanation** The packet has too big frame length, dropped.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-GET\_PIB\_FAILED: [chars] failed in [chars]

**Explanation** IPv6 could not find client's PIB handle.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-INVALID\_VERSION: Invalid IPv6 version: [dec] for packet received on interface [chars]

**Explanation** The packet has invalid protocol version field, dropped.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-IPV6\_API\_FAILED\_IOD: [chars] failed in [chars], iod = [dec]

**Explanation** Component API call failed in IPv6.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-IPV6\_API\_FAILED: [chars] failed in [chars]

**Explanation** Component API call failed in IPv6.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-IPV6\_CV\_INIT: Couldn't init cond var [chars]

**Explanation** IPv6 process failed to initialize conditional-variable resource.

**Recommended Action** Dump core, then restart component

**Error Message** IPV6-3-IPV6\_MSG\_TO\_TLV: TLV Conversion failed ([dec])

**Explanation** TLV conversion failed

**Recommended Action** Report the issue to Customer Support

**Error Message** IPV6-3-IPV6\_MTS\_RECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** IPv6 called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** IPV6-3-IPV6\_MTS\_UNKNOWN\_MSG: Received unknown MTS message with opcode [dec], dropping it

**Explanation** IPv6 received an unknown message. The message is dropped

**Recommended Action** No special action is required.

**Error Message** IPV6-3-IPV6\_MV\_INIT: Couldn't init mutex [chars]

**Explanation** IPv6 process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** IPV6-3-IPV6\_TLV\_TO\_STRUCT: TLV to Struct Conversion failed ([dec])

**Explanation** TLV to Struct conversion failed



**Recommended Action** Report the issue to Customer Support

**Error Message** IPV6-3-IPV6\_TXLIST\_CREATE: Couldn't create txlist for [chars]

**Explanation** IPv6 failed to create txlist resource.

**Recommended Action** Dump core, then restart component

**Error Message** IPV6-3-M6RIB\_ADD\_ROUTE: M6RIB add route failed in [chars] for VRF [chars]

**Explanation** IP failed to add route in M6RIB.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-MALLOC\_FAILED\_PREFIX: [chars] failed in [chars] for [chars]

**Explanation** IPV6 process is out of free memory.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-MALLOC\_FAILED: [chars] failed in [chars]

**Explanation** IPv6 process is out of free memory.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-MBUF\_FAILED: [chars] failed in [chars] ([dec] bytes)

**Explanation** IPV6 process is out of mbufs.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-MQ\_FAILED\_NAME: [chars] failed in [chars] for client [chars], errno: [chars]

**Explanation** IPv6 failed to access message-queue resource for the client.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-MQ\_FAILED\_PID: [chars] failed in [chars] to client pid: [dec], errno: [chars]

**Explanation** IPv6 failed to access message-queue resource for the client.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-MQ\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** IPv6 failed to access message-queue resource.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-MTS\_FAILED\_NAME: [chars] failed in [chars] for client [chars], errno: [chars]

**Explanation** IPv6 failed to access mts-queue resource for the client.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-MTS\_FAILED\_PID: [chars] failed in [chars] to client pid: [dec], errno: [chars]

**Explanation** IPv6 failed to access mts-queue resource for the client.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-MTS\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** IPv6 failed to access mts-queue resource.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-PID\_CONFLICT: Client is using pid: [dec]/[dec] with different extended pid: [dec]

**Explanation** Multiple clients have same process ids.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-PTHREAD\_FAILED: [chars] failed for [chars] in [chars]

**Explanation** IPv6 process failed to create a task thread.

**Recommended Action** Dump core, then reload the stack

**Error Message** IPV6-3-REG\_FAILED: Failed to register with IPv6

**Explanation** Component API call failed in IPv6.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-SUBNET\_OVERLAP: IPv6 Subnet Overlap: Subnet configured on interface [chars] overlaps with the one configured on [chars]

**Explanation** Overlapping subnet configured

**Recommended Action** No special action is required.

**Error Message** IPV6-3-SYSMGR\_DISPATCH: Error returned from sysmgr\_dispatch(), errno: [chars]

**Explanation** IPv6 called a System Manager API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** IPV6-3-U6RIB\_BAD\_IPC: U6RIB corrupted IPC message suspected

**Explanation** IPv6 process received invalid IPC message from U6RIB.

**Recommended Action** No special action is required.

**Error Message** IPV6-3-UNKNOWN\_MTYPE: Unknown mtype: [dec]/[dec] opcode [dec] in [chars]

**Explanation** IPv6 process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

## IPV6-4

**Error Message** IPV6-4-IPV6\_MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** IPv6 called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** IPV6-4-M6RIB\_SM\_ADDR: M6RIB shared memory not valid for mtype:[dec], xid:[dec], count:[dec]

**Explanation** M6RIB shared memory being accesses is not valid

**Recommended Action** No special action is required.

## IPV6-6

**Error Message** IPV6-6-CLIENT\_ACK\_FAIL: [chars], client\_name : [chars], uuid : [hex] (hex), protocol : [dec], SAP : [dec], err : [chars]

**Explanation** Failed to send ACK back to client

**Recommended Action** No special action is required.

**Error Message** IPV6-6-FRAME\_LENGTH\_SHORT: Frame length: [dec] less than IPv6 payload length: [dec] for packet received on interface [chars] from source address [chars]

**Explanation** The packet has invalid frame length, dropped.

**Recommended Action** No special action is required.

**Error Message** IPV6-6-IPV6\_STATS\_ERROR: Failed to get hardware statistics for interface [chars], reason [chars]

**Explanation** IPv6 could not get the requested statistics from the hardware.

**Recommended Action** No special action is required.

**Error Message** IPV6-6-v6\_REG\_SEND\_MSG: Suppress PIM6 Data Register for ([chars], [chars]) due to suppression-timer

**Explanation** Suppress PIM6 Data Register due to suppression-timer.

**Recommended Action** No special action is required.

## IP Messages

This section contains the IP messages.

### IP-2

**Error Message** IP-2-CRIT\_FAILURE: Failed to [chars]

**Explanation** A Critical operation has failed in the IP process

**Recommended Action** Dump core, then restart component

**Error Message** IP-2-IP\_NS\_NETLINK\_CREATE\_FAILED: NS ([chars]) Netlink socket create failed ([dec])

**Explanation** NS Netlink socket create failed

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-2-IP\_STARTUP\_FAILURE: Failed to [chars] during startup. error [dec]

**Explanation** A Critical operation has failed during startup of the IP process

**Recommended Action** No special action is required.

**Error Message** IP-2-NAT\_MAX\_LIMIT: NAT: Can't create dynamic translations, [chars]

**Explanation** The configured max limit is reached.

**Recommended Action** No special action is required.

### IP-3

**Error Message** IP-3-CV\_INIT: Couldn't init cond var [chars]

**Explanation** IP process failed to initialize conditional-variable resource.

**Recommended Action** Dump core, then restart component

**Error Message** IP-3-INVALID\_IF\_INDEX: Invalid interface index received from [dec]

**Explanation** Invalid interface index received

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_CLIENT\_GET: HA client filter recovery failed ([dec])

**Explanation** HA client filter recovery failed

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_CLNT\_FAILURE: Invalid IP registration reply. Message major type [dec], minor type [dec]

**Explanation** An IP client has failed in the registration process with IP

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_FAILURE: Failed to [chars]

**Explanation** A Critical operation has failed in the IP process

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_HA\_UPDATE: HA update failed ([dec])

**Explanation** HA update failed

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_INTERNAL\_ERROR: [chars]

**Explanation** An internal error has occurred in the IP process

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_INTF\_DAMPENED: Interface [chars] is suppressed

**Explanation** Interface got deactivated for L3 service due to frequent flappings

**Recommended Action** Please check the interface link. This link is frequently changing

**Error Message** IP-3-IP\_INTF\_UNDAMPENED: Interface [chars] is unsuppressed

**Explanation** Interface got activated for L3 service

**Recommended Action** No special action is required.

**Error Message** IP-3-IP\_MSG\_TO\_TLV: TLV Conversion failed ([dec])

**Explanation** TLV conversion failed

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_MTSDROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** IP called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** IP-3-IP\_MTSRECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** IP called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** IP-3-IP\_MTSEND: Error returned from mts\_send(), errno: [chars]

**Explanation** IP called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** IP-3-IP\_NO\_MBUF: Failed to allocate mbuf [chars]

**Explanation** The IP process has run out of network buffers

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_NO\_MEM: Failed to allocate private memory for [chars]

**Explanation** The IP process has run out of private memory

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_THR\_CREATE: Failed to create [chars] thread. error [dec]

**Explanation** A failure occurred while creating a thread

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_TLV\_TO\_STRUCT: TLV to Struct Conversion failed ([dec])

**Explanation** TLV to Struct conversion failed

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-IP\_UNK\_MSG: Unrecognized message major type [dec], minor type [dec]

**Explanation** An unknown message was received from another process

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-MRIB\_ADD\_ROUTE: MRIB add route failed in [chars] for VRF [chars]

**Explanation** IP failed to add route in MRIB.

**Recommended Action** No special action is required.

**Error Message** IP-3-MRIB\_DELETE\_ROUTE: MRIB delete route failed in [chars] for VRF [chars]

**Explanation** IP failed to delete route from MRIB.

**Recommended Action** No special action is required.

**Error Message** IP-3-MV\_INIT: Couldn't init mutex [chars]

**Explanation** IP process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** IP-3-NO\_SH\_MEM: Failed to allocate shared memory [chars]

**Explanation** The IP process has run out of shared memory

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-PSS\_API\_INIT: Ksink pss API init failed ([dec])

**Explanation** Ksink pss API init failed

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-3-TXLIST\_CREATE: Couldn't create txlist for [chars]

**Explanation** IP failed to create txlist resource.

**Recommended Action** Dump core, then restart component

**Error Message** IP-3-URIB\_ERR: Failed to [chars] urib

**Explanation** A failure occurred in a transaction with URIB

**Recommended Action** Report the issue to Customer Support

## IP-6

**Error Message** IP-6-BAD\_ICMP\_PKT: Received ICMP packet with bad length ([dec]). Min len [dec], Adv len [dec], IP hdr length [dec], Expected IP hdr len [dec]

**Explanation** An ICMP packet was received with a bad length

**Recommended Action** No special action is required.



**Error Message** IP-6-IM\_RECOVER\_ERROR: Failed to recover correct information for interface [chars] [dec]

**Explanation** IP could not recover the info for interface

**Recommended Action** No special action is required.

**Error Message** IP-6-IP\_MTS\_UNKNOWN\_MSG: Received unknown MTS message with opcode [dec], dropping it

**Explanation** IP received an unknown message. The message is dropped

**Recommended Action** No special action is required.

**Error Message** IP-6-IP\_UNK\_MSG\_MAJOR: Unrecognized message from [chars]. Major type [dec]

**Explanation** An unknown message (major) was received from another process

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-6-IP\_UNK\_MSG\_MINOR: Unrecognized message from [chars]. Minor type [dec]

**Explanation** An unknown message (minor) was received from another process

**Recommended Action** Report the issue to Customer Support

**Error Message** IP-6-MQ\_FLUSH: Flushing [dec] messages from the MRIB message queue

**Explanation** The MRIB message queue was flushed after a restart of the IP process

**Recommended Action** No special action is required.

**Error Message** IP-6-REG\_SEND\_MSG: Suppress PIM Data Register for ([chars], [chars]) due to suppression-timer

**Explanation** Suppress PIM Data Register due to suppression-timer.

**Recommended Action** No special action is required.

**Error Message** IP-6-STATS\_ERROR: Failed to get hardware statistics for interface [chars], reason [chars]

**Explanation** IP could not get the requested statistics from the hardware.

**Recommended Action** No special action is required.

**Error Message** IP-6-SYSMAN\_CLEANUP: Terminated by SYSMAN cleanup signal [dec]

**Explanation** System Manager sent a cleanup signal to IP to exit the process

**Recommended Action** No special action is required.

## IP-7

**Error Message** IP-7-INVALID\_NOTIFY: [chars]

**Explanation** UNEXPECTED\_ERROR\_EXPLANATION

**Recommended Action** No special action is required.

## ISIS Messages

This section contains the ISIS messages.

### ISIS-2

**Error Message** ISIS-2-AVL\_FAIL: Add to CSNP cache failed: [chars] - [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-HOLDDOWN: Failed to enable process after sequence number wrap holddown.

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-IIB\_EXT: [chars] extension msg for [chars] ([dec]) - [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-IM\_DEL: Delete msg for [chars] ([dec]) iib [hex] - iib iod [dec] mismatched

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-ISIS\_RST\_HMM\_OFF: HMM is disabled, FP ISIS will restart in FabricPath mode

**Explanation** IS-IS for FabricPath restarts due to a major mode change

**Recommended Action** No special action is required.

**Error Message** ISIS-2-ISIS\_RST\_HMM\_ON: HMM is enabled, FP ISIS will restart in DFA mode

**Explanation** IS-IS for Fabric Path restarts due to a major mode change

**Recommended Action** No special action is required.

**Error Message** ISIS-2-LSP\_FREE\_LINK: L[dec] [chars] is already on free list

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-MCAST\_ADD: Failed to add L[dec] multicast address

**Explanation** Was unable to join to the appropriate multicast group on an interface.

**Recommended Action** Restart component

**Error Message** ISIS-2-MEM\_ERR: Insufficient memory for [chars]

**Explanation** Memory is not available for adding SNP entries

**Recommended Action** Restart component

**Error Message** ISIS-2-MQRCVD: [chars] thread - message queue receive failure <[dec]>

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-REDIST\_PIB\_SHM: Failed to attach to redistributing PIB's SHM [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-ROUTE\_BUF\_OVERFLOW: [chars] route buffer overflow at entry [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-ROUTE\_NOTIFY: Route notifications to the RIB are not possible. This will result in stale state in the FIB.

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-RUNTIME\_CLEANUP\_FAILURE: Unexpected runtime cleanup failure. Failed to [chars]

**Explanation** An unexpected software error has occurred while cleaning up a sub-component.

**Recommended Action** Restart component

**Error Message** ISIS-2-RUNTIME\_EXIT\_FAIL: Deregister with [chars] failed with error [chars]

**Explanation** IS-IS was unable to deregister with a server

**Recommended Action** No special action is required.

**Error Message** ISIS-2-RUNTIME\_INIT\_FAILURE: Unexpected runtime initialization failure. Failed to [chars]

**Explanation** An unexpected software error has occurred while initializing a sub-component.

**Recommended Action** Restart component

**Error Message** ISIS-2-STARTUP\_FAILURE: Startup failure: Failed to [chars]

**Explanation** An unrecoverable software error has occurred during startup.

**Recommended Action** Reload the stack

**Error Message** ISIS-2-SUM\_DIST: sum-addr [chars]/[dec] has zero route-dist candidate count

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-TLV\_MIGRATE: L[dec] [chars] still has TLV during migration

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-URIB\_ADD\_RNH\_FAILURE: Cannot add RNH to [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

**Error Message** ISIS-2-URIB\_UPDATE: Failed to notify SPF thread about route update buffer availability

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Restart component

## ISIS-3

**Error Message** ISIS-3-AVL\_LOOKUP: Can't locate CSNP fragment for [chars]

**Explanation** SNP cache may get cleaned up during normal operation

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-BFD\_SESSION\_REMOVE: Failed to remove BFD session, error [chars]

**Explanation** Unable to remove BFD sessions.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-ISIS\_HA\_PSS: HA Persistent-store failure for [chars] [chars]: [chars]

**Explanation** A software error has occurred during HA. Stateful HA recovery will be disabled

**Recommended Action** No special action is required.

**Error Message** ISIS-3-LSP\_REFRESH: Refresh non-self-originated level-[dec] LSP [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-MBUF\_COPY: Error 0x[hex] copy [dec] bytes packet from [chars][chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-MCAST\_DEL: Failed to remove L[dec] multicast address

**Explanation** Was unable to leave from the appropriate multicast group on an interface.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** ISIS called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** ISIS-3-MTS\_RECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** ISIS called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** ISIS-3-MTS: Error returned from MTS operation [chars], errno: [chars]

**Explanation** ISIS called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** ISIS-3-NOTIFY\_THREAD: Failed to notify [chars] thread - Reschedule

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-NO\_HELPER\_IIB: No helper iib for [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-OTV\_INFO: Failed to retrieve OTV [chars] info [chars]

**Explanation** Unable to retrieve OTV information

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-OTV\_SITE\_CAP: Failed to add/remove otv site/net-id capability conf check, error [chars]

**Explanation** Unable to add conf check.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-PIB\_UP: Failed to bring up protocol

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** No special action is required.

**Error Message** ISIS-3-PT\_ADD: Couldn't add entry to [chars] PT

**Explanation** ISIS failed to update a local database entry.

**Recommended Action** No special action is required.

**Error Message** ISIS-3-PT\_DEL: Couldn't delete entry for [chars] from [chars] PT

**Explanation** ISIS failed to delete an entry from a local database.

**Recommended Action** No special action is required.

**Error Message** ISIS-3-RPM\_CALLBACK: RPM Callback handle and/or user data missing

**Explanation** An attempt to obtain RPM Keychain information failed.

**Recommended Action** No special action is required.

**Error Message** ISIS-3-SELF\_LSP\_CLEANUP: Cleanup L[dec] LSP [chars] with non-null TLV list

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-SLAB\_ALLOC: Slab alloc of type [chars] failed for [chars]

**Explanation** ISIS process failed to allocate Slab memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** ISIS-3-SPF\_ADJ\_DEL: Deleting SPF adj with refcount [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-SRAPP\_REGISTER\_CB: SR-APP register callback error [dec] ([chars]) [chars]

**Explanation** IS-IS failed to complete registration with SR-APP

**Recommended Action** Restart component

**Error Message** ISIS-3-SWID\_UPDATE: Switch-ID table update failed for [chars]

**Explanation** ISIS process failed to update Switch-ID database.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** ISIS-3-ULIB\_REGISTER\_CB: Ulib register callback error [dec] ([chars]) [chars]

**Explanation** IS-IS failed to complete registration with Ulib

**Recommended Action** Restart component

**Error Message** ISIS-3-UNK\_DEB\_FLAG: Ignore unrecognized debug flag "[chars]"

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-UNK\_IP\_NOTIF: Unrecognized IP address change notification type [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-UNK\_LSP\_TIMER: Unrecognized LSP timer type [dec] for level-[dec] LSP [chars]



**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-UNK\_MSG\_MAJOR: [chars] thread - Unrecognized message major type [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-UNK\_MSG\_MINOR: Unrecognized [chars] message minor type [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-UNK\_MTS\_OPC: [chars] thread - Unrecognized MTS opcode [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-UNK\_SYSMGR\_NOTIFY: Unexpected registration received from process [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-VLAN\_MGR: Error in parsing [chars] message from VLAN Manager

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-3-WEIRD\_CACHE: Inconsistent cache [hex] [chars] [chars]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

## ISIS-4

**Error Message** ISIS-4-ADD\_DEL\_ULIB\_ERR: Failed to [chars] [dec] route(s) xid [dec] to ULIB

**Explanation** IS-IS failed to update route information into ULIB

**Recommended Action** Restart component

**Error Message** ISIS-4-ADD\_DEL\_URIB\_ERR: Failed to [chars] [dec] [chars] route(s) xid [dec] to URIB

**Explanation** IS-IS failed to update route information into URIB

**Recommended Action** Restart component

**Error Message** ISIS-4-ADD\_UNK\_NH\_ADDR: Attempt to add for L[dec] [chars]/[dec] on [chars] with unknown (zero) NH address

**Explanation** IS-IS has detected one or more routers at the same level to have a different set of address families enabled.

**Recommended Action** Configure all IS-IS routers at the same level to have the same address families enabled.

**Error Message** ISIS-4-ADJ\_ADVT: Failed to advertise level [dec] adjacency [chars]

**Explanation** IS-IS was unable to advertise the indicated adjacency.

**Recommended Action** No special action is required.

**Error Message** ISIS-4-DUP\_IP\_ADDRESS: IP address [chars] has been used by [chars] and [chars]

**Explanation** IS-IS has detected two systems using the same IP address

**Recommended Action** ACTION\_ISIS\_CONFIG\_DIFF\_IP\_ADDRESS

**Error Message** ISIS-4-FTAG\_CBL\_UPD: Ftag CBL update failed with error code [dec], please use appropriate show commands to check the CBL state on the ports

**Explanation** ISIS FTAG CBL update

**Recommended Action** No special action is required.

**Error Message** ISIS-4-ILLEGAL\_PREFIX: Ignore internal L[dec] route [chars]/[dec] with external metric from [chars]

**Explanation** IS-IS has detected an internal route advertised with external metric, which is an illegal combination, by a router within the network

**Recommended Action** Either configure the indicated router to not originate the incorrect

information, or update the router's software to a version which does not originate the information incorrectly.

**Error Message** ISIS-4-LAN\_DUP\_SYSID: L[dec] LAN IIH - Duplicate system ID [chars] detected over [chars] from [chars]

**Explanation** IS-IS has detected another system on the indicated LAN that is reusing the local system ID

**Recommended Action** Configure either the local or remote router with a different system ID.

**Error Message** ISIS-4-LSPFULL\_FAILED\_DROP: L[dec] [chars] LSP is full and couldn't remove lower priority TLVs to make room for type [dec] TLV

**Explanation** There is no storage space left for routing information in the router's LSP, and an attempt to drop lower priority information has failed.

**Recommended Action** Configure IS-IS so that less information will be distributed in the router's LSP.

**Error Message** ISIS-4-LSPFULL\_FORCED\_DROP: L[dec] [chars] LSP is full, removed lower priority TLVs to make room for type [dec] TLV

**Explanation** There was no storage space left for important routing information in the router's LSP, and so lower priority information (e.g., redistributed prefixes) has been dropped to make room.

**Recommended Action** Configure IS-IS so that less information will be distributed in the router's LSP.

**Error Message** ISIS-4-LSPFULL: L[dec] [chars] LSP space is full

**Explanation** There is no storage space left for routing information in the router's LSP

**Recommended Action** Configure IS-IS so that less information will be distributed in the router's LSP.

**Error Message** ISIS-4-LSP\_DUP\_SYSID: L[dec] LSP - Possible duplicate system ID [chars] detected

**Explanation** IS-IS has detected another non-directly connected system that is reusing the local system ID.

**Recommended Action** Configure either the local or remote router with a different system ID.

**Error Message** ISIS-4-MCAST\_VLAN: Invalid Mcast-Interest message from Swid [dec]: start\_vlan [dec], end\_vlan [dec]

**Explanation** IS-IS for FabricPath received a malformed update

**Recommended Action** No special action is required.

**Error Message** ISIS-4-NO\_CID: Cannot allocate CID for [chars] - Over 255 LANs limit

**Explanation** IS-IS has been enabled on more than 255 broadcast interfaces and thus exceeded the protocol mandated limitation. Interfaces that are enabled beyond 255 will be ignored internally until the total count drops below 255.

**Recommended Action** Disable IS-IS on one or more broadcast interfaces, or convert the interface to point-to-point mode.

**Error Message** ISIS-4-NO\_MEM: No memory event detected

**Explanation** An attempt to allocate from free memory failed.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** ISIS-4-P2P\_DUP\_SYSID: P2P IIH - Duplicate system ID [chars] detected over [chars]

**Explanation** IS-IS has detected another system on the indicated P2P that is reusing the local system ID.

**Recommended Action** Configure either the local or remote router with a different system ID.

**Error Message** ISIS-4-PROC\_NO\_MEM: No memory event, shutting down process

**Explanation** Previously an allocation failed due to no available memory. IS-IS will shut down and wait for user to restart it.

**Recommended Action** Restart component

**Error Message** ISIS-4-REDIST\_MAX\_ROUTE: Redistribution route limit has been reached - [dec] routes

**Explanation** ISIS redistribution: Max limit

**Recommended Action** No special action is required.

**Error Message** ISIS-4-REDIST\_THR\_ROUTE: Redistribution threshold has been reached - [dec] routes

**Explanation** ISIS redistribution: Threshold limit

**Recommended Action** No special action is required.

**Error Message** ISIS-4-SEQWRAP: Sequence number wraparound event detected

**Explanation** IS-IS has detected that an LSP's sequence number has wrapped. IS-IS will shut down and restart

**Recommended Action** No special action is required.

**Error Message** ISIS-4-SR\_INDEX\_OUT\_OF\_NH\_RANGE: Index [dec] for prefix [chars] (from [chars]) is out of srgb range of next-hop [chars]

**Explanation** Index Value advertised with Prefix too large for range of next-hop node

**Recommended Action** No special action is required.

## ISIS-5

**Error Message** ISIS-5-ADJCHANGE: [chars] adj L[chars] [chars] over [chars] - [chars] on MT-[dec]

**Explanation** The indicated adjacency has changed state.

**Recommended Action** No special action is required.

**Error Message** ISIS-5-NH\_DEL: Cleanup L[dec] route [chars]/[dec] has [chars] next hop

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** Keep running, do nothing special

**Error Message** ISIS-5-PROC\_SEQWRAP: Handle sequence number wraparound - disabling process for [dec] secs

**Explanation** An LSP's sequence number has wrapped, and the process will be disabled for the correct length of time.

**Recommended Action** No special action is required.

**Error Message** ISIS-5-SELF\_RESTART: Fabricpath ISIS self-restarting due to [chars] [chars] [chars]

**Explanation** Fabricpath ISIS process is performing a self-restart.

**Recommended Action** No special action is required.

**Error Message** ISIS-5-SHUTDOWN: ISIS process [chars] administratively [chars]

**Explanation** ISIS protocol was administratively up/shutdown.

**Recommended Action** No special action is required.

## ISIS-6

**Error Message** ISIS-6-JUMBO\_PDU: Drop [dec] bytes jumbo PDU with [dec] bytes buffer from [chars][chars]

**Explanation** IS-IS has received a packet that exceeds the maximum supported size. The packet will be dropped.

**Recommended Action** No special action is required.

**Error Message** ISIS-6-MODE\_NO\_FUNC: No callback function registered for [chars] in [chars] mode

**Explanation** IS-IS encountered a problem where no callback function has been registered in the given mode

**Recommended Action** No special action is required.

**Error Message** ISIS-6-SEQWRAP\_HOLDDOWN: Sequence number wraparound holddown timer expired - enable process

**Explanation** The correct amount of time has elapsed after an LSP's sequence number wrapped so that IS-IS can resume normal operation.

**Recommended Action** No special action is required.

**Error Message** ISIS-6-SHUTDOWN\_FAILURE: Shutdown failure. Failed to [chars] - [chars]

**Explanation** IS-IS request to system manager for permission to shutdown was declined.

**Recommended Action** No special action is required.

**Error Message** ISIS-6-START: Process start. Reason - [chars]

**Explanation** ISIS process start with specified reason

**Recommended Action** No special action is required.

**Error Message** ISIS-6-STOP: Process stop. Reason - [chars]

**Explanation** ISIS process stop with specified reason

**Recommended Action** No special action is required.

**Error Message** ISIS-6-SWITCH\_ROLE: User has set root priority for MT-[dec]

**Explanation** User set priority will over-ride role based priority

**Recommended Action** No special action is required.

**Error Message** ISIS-6-SYSMAN\_CLEANUP: Terminated by SYSMAN cleanup signal

**Explanation** IS-IS has been signaled to exit.

**Recommended Action** No special action is required.

**Error Message** ISIS-6-UNK\_NLPID: Unrecognized NLP ID [hex] from [chars][chars]

**Explanation** IS-IS has received a packet with an NLPID which it does not recognize. The packet will be dropped.

**Recommended Action** No special action is required.

**Error Message** ISIS-6-UNK\_PDU: Unrecognized PDU type [dec] from [chars][chars]

**Explanation** IS-IS has received a packet of a type which it does not recognize. The packet will be dropped.

**Recommended Action** No special action is required.

## L3VM Messages

This section contains the L3VM messages.

### L3VM-2

**Error Message** L3VM-2-CLIS: Config load failure: [chars] in [chars]()

**Explanation** An unrecoverable error occurred while fetching config from CLIS

**Recommended Action** No special action is required.

**Error Message** L3VM-2-CONFIG\_WAIT: Deletion of VRF [chars] in progress; wait for it to complete

**Explanation** VRF in delete pending or holddown already

**Recommended Action** No special action is required.

**Error Message** L3VM-2-SDB\_ERR: Error returned from [chars], uri: [chars] errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM called an SDB API which returned an error

**Recommended Action** No special action is required.

**Error Message** L3VM-2-SDB\_NOTIF: Error returned from [chars], uri: [chars] in [chars]()

**Explanation** L3VM sent SDB create-delete notification which returned an error

**Recommended Action** No special action is required.

**Error Message** L3VM-2-STARTUP\_FAILURE: Startup failure: failed to [chars] in [chars]()

**Explanation** An unrecoverable software error has occurred during l3vm startup.

**Recommended Action** Reload the stack

**Error Message** L3VM-2-TIB\_ID\_RAVL: [chars] failed with table id 0x[hex] in [chars]()

**Explanation** L3vm called an AVL API that has failed

**Recommended Action** No special action is required.

## L3VM-3

**Error Message** L3VM-3-API\_FAILED: [chars] - failed in [chars]()

**Explanation** L3vm called an API that has failed

**Recommended Action** No special action is required.

**Error Message** L3VM-3-ASSERT\_ERROR: [chars]:[dec]: Assertion "[chars]" failed.

**Explanation**

**Recommended Action** No special action is required.



**Error Message** L3VM-3-CLIENT\_UNREGISTERED: [chars]() - Client not registered

**Explanation** Client has not registered its mts queue with l3vm library

**Recommended Action** No special action is required.

**Error Message** L3VM-3-CMI\_MTSEND\_FAILURE: mts\_send() failure for client [chars]: [chars]

**Explanation** L3VM was unable to send mts message to a particular client.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-CMI\_PAYLOAD\_CONV\_ERR: CMI payload conversion error failure from [chars] order to [chars] order

**Explanation** The cmi payload conversion did not occur successfully.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-CONFHECK: confcheck API [chars]() failed with error: [chars](0x[hex]).

**Explanation** Confcheck API failed

**Recommended Action** No special action is required.

**Error Message** L3VM-3-CONTEXT: Cannot find [chars] context in [chars]()

**Explanation** Cannot find a given context in the system

**Recommended Action** No special action is required.

**Error Message** L3VM-3-IM: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM called a IM API which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-INTERROR: Internal Error [chars] in [chars]()

**Explanation** PSS API FAILED

**Recommended Action** No special action is required.

**Error Message** L3VM-3-INVALID\_ARG: invalid arguments - [chars] - in [chars]()

**Explanation** Invalid arguments passed in an l3vm function

**Recommended Action** No special action is required.

**Error Message** L3VM-3-LIBAPI\_FAILED: [chars] - failed in [chars]()

**Explanation** L3vm called an API that has failed

**Recommended Action** No special action is required.

**Error Message** L3VM-3-LIBINIT: Unable to retrieve [chars], L3VM library not initialized by client

**Explanation** Client has not initialized by calling l3vm\_api\_init()

**Recommended Action** No special action is required.

**Error Message** L3VM-3-LIBMTS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM library called an MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-LIB\_INVALID\_ARG: invalid arguments - [chars] - in [chars]()

**Explanation** Invalid arguments passed in an l3vm function

**Recommended Action** No special action is required.

**Error Message** L3VM-3-LIB\_NOMEM: Failed to allocate [chars] in [chars]()

**Explanation** L3VM library has run out of memory. This can be caused by a general network or router misconfiguration, or the router might not have enough memory installed.

**Recommended Action** Reload the stack

**Error Message** L3VM-3-MTS\_DROP: Error returned from mts\_drop(), error: [chars]

**Explanation** An MTS API returned an error when L3VM tried to drop a message.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-MTS\_ETIME: MTS Timer Expired in [chars]

**Explanation** MTS Timer Expired

**Recommended Action** No special action is required.

**Error Message** L3VM-3-MTS\_NO\_PAYLOAD\_ERROR: Received MTS message with no payload on [chars] queue with opcode [dec], dropping it

**Explanation** L3VM recieved an unknown message. The message is dropped

**Recommended Action** No special action is required.

**Error Message** L3VM-3-MTS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM called an MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-NOALLOC: [chars] - failed in [chars]()

**Explanation** L3vm called an API that has failed

**Recommended Action** No special action is required.

**Error Message** L3VM-3-NOMEM: Failed to allocate [chars] in [chars]()

**Explanation** L3VM has run out of memory. This can be caused by a general network or router misconfiguration, or the router might not have enough memory installed.

**Recommended Action** Reload the stack

**Error Message** L3VM-3-OBJSTORE\_FAILURE: [[chars]] [chars]: 0x[hex]

**Explanation** L3VM is experiencing failure in Object Store functionality This can be caused by a corruption of internal state.

**Recommended Action** Reload the stack

**Error Message** L3VM-3-OBJSTORE\_WARNING: [[chars]] [chars]: 0x[hex]

**Explanation** L3VM is experiencing failure in Object Store functionality This can be caused by a corruption of internal state. L3VM will retry the opearation later

**Recommended Action** No special action is required.

**Error Message** L3VM-3-PENDING\_SDB\_WRITE: SDB write operation is pending for [chars] in

[chars]()

**Explanation** L3VM discovered that there is a pending sdb operation

**Recommended Action** No special action is required.

**Error Message** L3VM-3-PSSERROR: PSS Error [chars] in [chars]()

**Explanation** PSS API FAILED

**Recommended Action** No special action is required.

**Error Message** L3VM-3-PSSSRV: PSS Service Error - [chars] - in [chars]()

**Explanation** PSS Service does not exist

**Recommended Action** No special action is required.

**Error Message** L3VM-3-PSS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM called a PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-RRM\_LIMIT: VRF resource limit reached, errno: 0x[hex] ([chars])

**Explanation** L3VM called an resource manager API which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-RRM: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM called an resource manager API which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-SDB\_OPEN: Error opening [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM called sdb\_open which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-SDB\_READ: Error reading [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM called sdb\_read which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-SDB: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM called an SDB API which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-SYSMGR: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM called a system manager API which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-TLVERROR: TLV Conversion Error - [chars], Error:[chars] in [chars]()

**Explanation** TLV Conversion Error

**Recommended Action** No special action is required.

**Error Message** L3VM-3-TLVU\_API\_FAIL: TLVU failure: [chars]

**Explanation** L3VM process failed in invoking a TLVU API.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-VDC: Error returned from [chars] in [chars]()

**Explanation** L3VM called an VDC API which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-VLANMGR: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** L3VM called a VLAN MGR API which returned an error.

**Recommended Action** No special action is required.

**Error Message** L3VM-3-VRF\_ERROR: [chars]: [chars]

**Explanation** Illegal operation or command on a VRF

**Recommended Action** No special action is required.

## L3VM-4

**Error Message** L3VM-4-STATE\_MISMATCH: state mismatch - [chars] - in [chars]()

**Explanation** L3VM was in an unexpected state

**Recommended Action** No special action is required.

**Error Message** L3VM-4-VRF\_MEMBER\_RETAIN: [chars]

**Explanation** VRF member retain configure warning

**Recommended Action** No special action is required.

**Error Message** L3VM-4-VRF\_VNI: [chars]

**Explanation** VRF-VNI configure warning

**Recommended Action** No special action is required.

## L3VM-5

**Error Message** L3VM-5-UNK\_MSG\_MINOR: Unrecognized message minor type [dec] in [chars]()

**Explanation** L3vm received an unrecognized MTS message format

**Recommended Action** No special action is required.

**Error Message** L3VM-5-UNK\_MTS\_EVENT: Unrecognized MTS event for opcode [dec] in [chars]()

**Explanation** L3vm received an unexpected event on a MTS message

**Recommended Action** No special action is required.

**Error Message** L3VM-5-UNK\_MTS\_OPC: Unrecognized MTS opcode [dec] in [chars]()

**Explanation** L3vm received an unexpected MTS message opcode

**Recommended Action** No special action is required.

## L3VM-6

**Error Message** L3VM-6-OBJSTORE\_INFO: [[chars]] [chars]

**Explanation** L3VM debug info.

**Recommended Action** No special action is required.

**Error Message** L3VM-6-RESTART\_SHUTDOWN: L3VM shutting self down via restart command in [chars]()

**Explanation** L3VM process is shutting itself down

**Recommended Action** No special action is required.

**Error Message** L3VM-6-UNKNOWN\_SDB\_CTX: L3VM received unknown gsdb context 0x[hex] in [chars]()

**Explanation** L3VM process received ack for unknown operation on global database

**Recommended Action** No special action is required.

## MSDP Messages

This section contains the MSDP messages.

### MSDP-2

**Error Message** MSDP-2-NO\_ENQUEUE: Unable to enqueue send element for peer [chars]

**Explanation** MSDP process failed to send a message over the TCP socket to peer.

**Recommended Action** No special action is required.

**Error Message** MSDP-2-NO\_LISTEN\_SOCKET: Fatal error, can't get listen socket setup in [chars]

**Explanation** MSDP process failed to obtain TCP packet.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-2-OUT\_OF\_SYNC\_TCP\_LEN: TCP data stream may be out of sync, suspect TLV length of [dec] from peer [chars]

**Explanation** MSDP process received invalid packet length from peer.

**Recommended Action** No special action is required.

**Error Message** MSDP-2-OUT\_OF\_SYNC\_TCP\_TYPE: TCP data stream may be out of sync, suspect TLV type of [dec] from peer [chars]

**Explanation** MSDP process received malformed TLV from peer.

**Recommended Action** No special action is required.

**Error Message** MSDP-2-SEND\_BYTES\_MISMATCH: Bytes sent([dec]) exceeded Bytes to send([dec]) for [chars] in [chars]

**Explanation** Number of Bytes sent to MSDP Peer exceeded Bytes to send

**Recommended Action** No special action is required.

**Error Message** MSDP-2-SEND\_QUEUE\_CORRUPT: Send queue corrupted for peer [chars]

**Explanation** The TCP socket send queue is corrupted. Connection to peer will be reset.

**Recommended Action** No special action is required.

### MSDP-3

**Error Message** MSDP-3-ACCEPT: In [chars], [chars] failed with errmsg: [chars]

**Explanation** MSDP process failed to accept connection.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-ALREADY\_RUNNING: MSDP already running, exiting - [chars]

**Explanation** Another MSDP process is already running, this process will shutdown.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-API\_FAILED: [chars] failed in [chars]

**Explanation** MSDP process failed in invoking an API.

**Recommended Action** No special action is required.



**Error Message** MSDP-3-AS\_NUMBER: MSDP/BGP local AS number is - [chars]

**Explanation** MSDP process local AS number

**Recommended Action** No special action is required.

**Error Message** MSDP-3-CONF\_CHECK: Failed to [chars] MSDP confcheck capability with error: [chars]

**Explanation** MSDP failed to update config check capability in the system

**Recommended Action** ACTION\_SW\_KEEP\_RUNNING

**Error Message** MSDP-3-CV\_INIT: Couldn't init cond var [chars]

**Explanation** MSDP process failed to initialize conditional-variable resource.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-FM\_ERROR: FM could not shut down MSDP process

**Explanation** MSDP could not process the disable-req from FM

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-GETSOCKNAME: In [chars], [chars] failed with errmsg: [chars]

**Explanation** TSP api tsp\_getsockname returned error

**Recommended Action** No special action is required.

**Error Message** MSDP-3-INVALID\_TLV: Invalid TLV, type: [dec], length: [dec] from peer [chars]

**Explanation** MSDP process received an invalid packet. Appropriate error packet returned.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-LIB\_MTS\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** Process failed to access the MSDP mts-queue.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-MALLOC\_FAILED: [chars] failed in [chars]

**Explanation** MSDP process is out of free memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** MSDP-3-MQ\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** MSDP process failed to access the message-queue.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-MRIB\_ROUTE: In [chars], [chars] failed to add mrib route

**Explanation** MSDP process failed to add mrib routes.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-MSDP\_INIT: MSDP init failed: [chars]

**Explanation** MSDP process initialization failed.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-MTS\_BIND: In [chars], [chars] failed due to [chars]

**Explanation** MSDP called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-MTS\_DROP: Error returned from mts\_drop(), errmsg: [chars]

**Explanation** MSDP called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-MTS\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** MSDP process failed to access the mts-queue.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-MTS\_RECV: Error returned from mts\_recv(), errmsg: [chars]

**Explanation** MSDP called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-MTS\_REGISTER: mts\_register failed for MSDP: [chars]

**Explanation** MSDP was unable to register an MTS notification

**Recommended Action** No special action is required.

**Error Message** MSDP-3-MUTEX\_INIT: Couldn't init mutex [chars]

**Explanation** MSDP process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-NOSOURCE: Resetting peer due to VRF change for connect-source [chars]

**Explanation** The configured interface used for the connect-source has moved to another VRF.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-NO\_SET\_PRIORITY: Failed to set policy or priority in [chars]

**Explanation** MSDP process could not set itself process priority, exiting.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-NO\_SHUTDOWN: Unable to shutdown msdp\_main\_thread - [chars]

**Explanation** MSDP process unable to shut itself down.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-PTHREAD\_FAILED: [chars] failed in [chars] for thread [chars]

**Explanation** MSDP process failed to create a task thread.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-RESTART\_REASON: MSDP process has restarted, restart reason: [chars]

**Explanation** MSDP is restoring the routes it had added in previous instance.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SDB\_CLIENT\_ERROR: Failed to initialize shared database client with status [hex] and errmsg: [chars]

**Explanation** MSDP process could not initialize shared database, client.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SELECT: In [chars], [chars] failed with errmsg: [chars]

**Explanation** MSDP process failed to select.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SETRLIMIT\_FAILED: Data segment allocation of [dec] failed

**Explanation** MSDP process could not set itself memory resource limit, exiting.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SETSOCKOPT: In [chars], [chars] failed while setting [chars] option with errmsg: [chars]

**Explanation** MSDP process failed while setting tsp socket options.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SETUPSOCKET\_ERROR: In [chars], [chars] failed to create connection with [chars]

**Explanation** MSDP process failed to select.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SET\_SOCKET\_OPTIONS: In [chars], [chars] failed for [chars]

**Explanation** MSDP process failed while setting socket options.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SM\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** MSDP process failed to access the System shared memory resource.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SOCKET\_BIND: In [chars], [chars] failed with errmsg [chars] for [chars]

**Explanation** MSDP process failed to bind.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SOCKET\_CONNECT: In [chars], [chars] failed to connect [chars] with context name:[chars] and errmsg: [chars]

**Explanation** MSDP process failed to connect to peer.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SOCKET\_ERROR: In [chars], [chars] failed with errmsg: [chars]

**Explanation** MSDP process failed to create socket.

**Recommended Action** No special action is required.

**Error Message** MSDP-3-SYSMGR\_DISPATCH: Error returned from sysmgr\_dispatch(), errmsg: [chars]

**Explanation** MSDP called a System Manager API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-SYSMGR\_INIT: Error in [chars] while [chars]

**Explanation** MSDP called a active timer API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-TXLIST\_CREATE: Couldn't create txlist for [chars] in VRF:[chars]

**Explanation** MSDP failed to create txlist resource.

**Recommended Action** Dump core, then restart component

**Error Message** MSDP-3-UNKNOWN\_MTYPE: Unknown mtype: [dec]/[dec] in [chars]

**Explanation** MSDP process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

## MSDP-5

**Error Message** MSDP-5-PEER\_UPDOWN: Session to peer [chars] going [chars]

**Explanation** MSDP peer is going UP/DOWN.

**Recommended Action** No special action is required.

## MSDP-6

**Error Message** MSDP-6-RESTART\_SHUTDOWN: MSDP shutting self down via restart command

**Explanation** MSDP process is shutting itself down due to the restart command.

**Recommended Action** No special action is required.

**Error Message** MSDP-6-SHUTDOWN: Shutting down MSDP - [chars]

**Explanation** MSDP process is shutting itself down.

**Recommended Action** No special action is required.

**Error Message** MSDP-6-UNKNOWN\_OPC: Received unknown mts opcode [dec] in [chars]

**Explanation** MSDP process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

## MSDP-7

**Error Message** MSDP-7-OBJSTORE: Objstore API [chars]() failed with error: [dec]

**Explanation** Objstore API has failed

**Recommended Action** Keep running, do nothing special

## NETSTACK Messages

This section contains the NETSTACK messages.

### NETSTACK-2

**Error Message** NETSTACK-2-ERR\_RLIMIT: [chars]

**Explanation** Rlimit set or get failed

**Recommended Action** No special action is required.

**Error Message** NETSTACK-2-NS\_TSP\_INIT: tsp init failed: [chars]

**Explanation** TSP Initialization failed

**Recommended Action** No special action is required.

**Error Message** NETSTACK-2-SVC\_CLEANUP: sysmgr conditional srv cleanup: [chars]

**Explanation** Service cleanup failed

**Recommended Action** No special action is required.

**Error Message** NETSTACK-2-TIMER\_INIT: active timer init failed: [chars]

**Explanation** Timer Initialization failed

**Recommended Action** No special action is required.

## OSPF Messages

This section contains the OSPF messages.

### OSPF-1

**Error Message** OSPF-1-INIT: Unable to [chars] [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Restart component

**Error Message** OSPF-1-LOWMEM: Low memory condition: [chars]

**Explanation** The router did not have enough memory to store certain data structures.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** OSPF-1-MCASTJOIN: Unable to join [chars] group on interface [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Restart component

**Error Message** OSPF-1-MCASTLEAVE: Unable to leave [chars] group on interface [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Restart component

**Error Message** OSPF-1-MQSEND: Unable to send message [chars] to [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Restart component

**Error Message** OSPF-1-NOMEM: Malloc ([dec] bytes) failed for: [chars]

**Explanation** The router did not have enough memory to store mentioned data structures.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** OSPF-1-SLABS: Could not create [chars] slabs

**Explanation** The router did not have enough memory to reserve space in advance for certain slab data structures.

**Recommended Action** Out of memory. Add more memory to the router

**Error Message** OSPF-1-STARTTHREAD: Unable to start thread [chars] ([dec]), error [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Restart component

**Error Message** OSPF-1-TAG: Unable to retrieve service tag on [chars] supervisor

**Explanation** An internal software error occurred.

**Recommended Action** Restart component

**Error Message** OSPF-1-TIMER: Unable to create [chars] timer on interface [chars]

**Explanation** An internal software error occurred.



**Recommended Action** Restart component

## OSPF-2

**Error Message** OSPF-2-REDIST\_VPN: Received VPN routes without extended community for [chars]/[dec]

**Explanation** An internal error

**Recommended Action** No special action is required.

## OSPF-3

**Error Message** OSPF-3-BFD\_SEND\_AUTO\_EXPIRY: BFD send auto expiry [chars]

**Explanation** OSPF could not send BFD auto expiry

**Recommended Action** No special action is required.

**Error Message** OSPF-3-CLEAR\_OVERLOAD: Clearing overload state for [chars]

**Explanation** OSPF resets the configuration to sends the LSAs with normal cost

**Recommended Action** No special action is required.

**Error Message** OSPF-3-CLI\_ALL\_CMDS: Timed out waiting for CLI configuration ([chars])

**Explanation** OSPF timed out waiting for CLI Server to send all OSPF configs

**Recommended Action** No special action is required.

**Error Message** OSPF-3-CLI\_NON\_IF\_CMDS: Timed out waiting for router mode CLI configuration ([chars])

**Explanation** OSPF timed out waiting for CLI Server to send router mode OSPF configs

**Recommended Action** No special action is required.

**Error Message** OSPF-3-CMI\_ERR: CMI error: [chars].

**Explanation** CMI returned an error

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-3-CMI\_NO\_VRF\_ERR: CMI error: No [chars] VRF information found

**Explanation** CMI returned an error

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-3-CTX\_IF: Error in subrouter context for interface [chars]: [chars]

**Explanation** Error related to interface context

**Recommended Action** No special action is required.

**Error Message** OSPF-3-CTX: Error in subrouter context [chars]: [chars]

**Explanation** Error related to multiple subrouters and contexts

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_AREA: Unable to recreate area [dec]

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_INTF\_AREA: Unable to add interface [chars] to area [chars]

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_INTF: Unable to recreate interface [chars]

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_LSDB\_AREA: Unable to find LSA area [chars]

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_LSDB\_INSTALL: Unable to install LSA [chars], area [chars] [chars]

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_LSDB\_LINK: Unable to find link LSA interface/area

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_LSID: Unable to reserve LSID [dec] for [chars] LSA [chars]

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_NBR\_INTF: Unable to find interface index [dec] for neighbor [chars]

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_NBR: Unable to recreate neighbor [chars]

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_NO\_SR: Unable to find sr [dec]

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HA\_SR: Unable to recreate sr [dec]

**Explanation** OSPF could not do stateful restart

**Recommended Action** No special action is required.

**Error Message** OSPF-3-HEAPSIZE: Error increasing heap size to [dec], error [dec]

**Explanation** Reduced heap size will limit the LSDB size.

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-3-IF\_INVALID: Unable to find interface [chars]

**Explanation** OSPF could not find an interface

**Recommended Action** No special action is required.

**Error Message** OSPF-3-INVALIDKCCRYPTOALGO: Cryptographic algorithm in key ID [dec] of key chain [chars] is not supported by OSPF

**Explanation** The cryptographic algorithm configured in the key chain is not supported by OSPF. This may happen because the key chain allows cryptographic algorithms which is not acceptable by OSPF.

**Recommended Action** Configure a cryptographic algorithm that is supported by OSPF

**Error Message** OSPF-3-INVALIDKCKEYID: Key ID [dec] in key chain [chars] is invalid

**Explanation** The Key ID configured in the key chain is out of range for OSPF. This may happen because the key chain allows Key ID values outside of the range which is acceptable for OSPF.

**Recommended Action** Configure a new security association with a Key ID that is in the range 1-255

**Error Message** OSPF-3-INVALIDKCMD5KEYSTRING: Key string in key ID [dec] of key chain [chars] is longer than that is supported by MD5 authentication

**Explanation** The key string configured in the key chain is longer than that is supported by MD5 authentication. This may happen because the key chain allows key strings longer than that is supported by MD5 authentication.

**Recommended Action** Configure a key string whose length is at most 16

**Error Message** OSPF-3-INVALIDKCSIMPLEKEYSTRING: Key string in key chain [chars] is longer than that is supported by Simple authentication

**Explanation** The key string configured in the key chain is longer than that is supported by Simple authentication. This may happen because the key chain allows key strings longer than that is supported by Simple authentication.

**Recommended Action** Configure a key string whose length is at most 8

**Error Message** OSPF-3-INVALID\_TLV: Found corrupted TLV, LSA [chars]

**Explanation** Error while parsing TLV.

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-3-ISSD\_FAILED\_GREATER\_THAN\_4: Sending ISSD disable signal because of configuration of OSPF instance number [dec] and OSPF process tag [chars]

**Explanation** ISSD to pre Edinburgh-2 image disabled if instances 5 above are configured

**Recommended Action** No special action is required.

**Error Message** OSPF-3-ISSU\_GR\_DISABLED: Aborting ISSU, GR is disabled in [dec] out of [dec] contexts

**Explanation** ISSU requires OSPF GR to be enabled for all contexts

**Recommended Action** No special action is required.

**Error Message** OSPF-3-ISSU\_GR\_FAILED: Aborting ISSU, GR failed in [dec] out of [dec] contexts

**Explanation** ISSU requires successful OSPF GR in all contexts

**Recommended Action** No special action is required.

**Error Message** OSPF-3-ISSU\_GR\_IN\_HELPER\_MODE: Aborting ISSU, OSPF in GR helper mode in [dec] contexts

**Explanation** ISSU requires stable OSPF topology in all contexts

**Recommended Action** No special action is required.

**Error Message** OSPF-3-ISSU\_GR\_IN\_PROGRESS: Aborting ISSU, GR in progress in [dec] out of [dec] contexts

**Explanation** ISSU requires stable OSPF topology in all contexts

**Recommended Action** No special action is required.

**Error Message** OSPF-3-MAXIFS: Exceeded the limit on interfaces per area [i.e [dec]]

**Explanation** Restricting the number of interfaces per area to avoid problems during lsa generation.

**Recommended Action** Reduce the number of interfaces per area.

**Error Message** OSPF-3-MAXLSAS: Maximum number of LSAs in domain has been reached

**Explanation** The OSPF domain contains more LSAs than this router can store.

**Recommended Action** Redesign the network to redistribute less external routes into the OSPF domain.

**Error Message** OSPF-3-MIB\_FAIL: Failed to [chars] the MIB with status as [chars]

**Explanation** Error while loading or unloading the MIB.

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-3-MTS\_BIND: Error returned from mts\_bind(), errno: [chars]

**Explanation** OSPF called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** OSPF called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-MTS\_NOTIFY: Error returned from mts\_send\_notify(), errno: [chars]

**Explanation** OSPF called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-MTS\_RECV: Error returned from tsp\_mts\_recv(), errno: [chars]

**Explanation** OSPF called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-PSS\_AREA: PSS [chars] for area [dec] failed

**Explanation** OSPF called an PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-PSS\_GLOBAL: PSS [chars] for global data failed

**Explanation** OSPF called an PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-PSS\_INTF: PSS [chars] for interface [chars] failed

**Explanation** OSPF called an PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-PSS\_LSDB: PSS [chars] for LSA [chars] failed

**Explanation** OSPF called an PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-PSS\_MGET: [chars] for [chars] information failed

**Explanation** OSPF called an PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-PSS\_MOVE\_TO\_LOCATION\_OR\_KEY: PSS move to [chars] for [chars] information failed

**Explanation** OSPF called an PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-PSS\_NBR: PSS [chars] for neighbor [chars] failed

**Explanation** OSPF called an PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-PSS\_READ\_KEY\_OR\_VALUE: PSS read [chars] for [chars] information failed

**Explanation** OSPF called an PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-PSS\_READ: PSS read for [chars] information failed

**Explanation** OSPF called an PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-PSS\_SR: PSS [chars] for sr [dec] failed

**Explanation** OSPF called an PSS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-ROUTEDEL: Route deletion [chars]/[dec] failed

**Explanation** Internal Error.

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-3-SET\_OVERLOAD: Setting overload state for [chars]

**Explanation** OSPF sets the configuration to sends the LSAs with max-metric cost

**Recommended Action** No special action is required.

**Error Message** OSPF-3-SMALLBUF: [chars] packet doesn't fit in buffer (packet [dec]/ buffer [dec])

**Explanation** The router has allocated a packet buffer that was too small.

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-3-SNMP\_FAIL: Failed to [chars] the SNMP with status as [chars]

**Explanation** Error while registering or deregistering with SNMP.

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-3-SNMP\_SAP\_FAIL: Failed to [chars] the SNMP SAP with status as [chars]

**Explanation** Error while registering or deregistering with SNMP SAP.

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-3-SNMP\_TRAP\_FAIL: Not sending trap [chars] for [chars] because of trap and version incompatibility

**Explanation** Error while sending trap notifications to SNMP.

**Recommended Action** Keep running, do nothing special



**Error Message** OSPF-3-TLV\_INTF: Failed to convert to [chars] for [chars]

**Explanation** OSPF called an TLV intf which returned an error.

**Recommended Action** No special action is required.

**Error Message** OSPF-3-UNAWAKABLE: Trying to awake unawakable thread [chars]

**Explanation** Thread cannot be wokenup at this time

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-3-UNKNOWN\_SIG: Received unknown signal: [dec]

**Explanation** An unexpected software interrupts was received.

**Recommended Action** Keep running, do nothing special

## OSPF-4

**Error Message** OSPF-4-AF\_NO\_FUNC: Function [chars] not supported by OSPF version [chars]

**Explanation** Function is not specified for the current address family

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-4-AREA\_ERR: Packet from [chars] on [chars] received for wrong area [chars]

**Explanation** A OSPF packet not belonging to this area was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-AUTH\_ERR: Received packet from [chars] on [chars] with bad authentication [hex]

**Explanation** A OSPF packet with mismatched authentication type was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-CKSM\_ERR: Bad OSPF checksum in packet [hex] computed [hex] from [chars] on [chars]

**Explanation** A OSPF packet with invalid checksum was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-CLEANUP: OSPF is exiting, reason [chars](0x[hex])

**Explanation** OSPF has been deconfigured or restarted.

**Recommended Action** No special action is required.

**Error Message** OSPF-4-DEST\_INVALID: Bad destination address [chars]

**Explanation** A OSPFv3 packet with muticast source address was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-DUPRID: Router [chars] on interface [chars] is using our routerid, packet dropped

**Explanation** Two routers are configured with the same router ID.

**Recommended Action** Check all routers on the indicated interface for misconfigurations.

**Error Message** OSPF-4-IF\_ERR: Packet from [chars] received on [chars] interface [chars]

**Explanation** A OSPF packet not belonging to this interface was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-INVALIDOUT: Trying to send packet with packettype [dec] to [chars] on [chars]

**Explanation** The router tried to send unknown OSPF packet.

**Recommended Action** Keep running, do nothing special

**Error Message** OSPF-4-NEIGH\_ERR: Neighbor [chars] not found, packet dropped

**Explanation** A non-hello OSPF packet with no neighbor was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-OSPF\_MAX\_LSA\_STATE: Max-lsa feature entering into [chars]. [chars] OSPF adjacencies

**Explanation** Logging the current max-lsa feature state and the effect on OSPF adjacencies

**Recommended Action** Check if some router in the network is generating large number of LSAs as a result of misconfiguration

**Error Message** OSPF-4-OSPF\_MAX\_LSA\_THR: Threshold for maximum number ([dec]) of non self-generated LSA has been reached

**Explanation** Threshold for maximum number of non self-generated LSA has been reached

**Recommended Action** Check if some router in the network is generating large number of LSAs as a result of misconfiguration

**Error Message** OSPF-4-OSPF\_MAX\_LSA: Maximum number of non self-generated LSAs ([dec]) has been exceeded

**Explanation** Maximum number of non self-generated LSA has been exceeded

**Recommended Action** Check if some router in the network is generating large number of LSAs as a result of misconfiguration

**Error Message** OSPF-4-PKTLEN\_ERR: Packet received from [chars] on [chars] has length [dec] which is less than [chars] [dec]

**Explanation** A OSPF packet with invalid length was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-PKTTYPE\_ERR: Unknown type [dec] received from [chars] on [chars]

**Explanation** A OSPF packet with incorrect packet type was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-REDIST\_MAX\_PFX: Redistribution prefix limit has been reached - [dec] prefixes

**Explanation** Check if redistribution of large number of prefixes is desired and has not been configured by mistake

**Recommended Action** No special action is required.

**Error Message** OSPF-4-REDIST\_THR\_PFX: Redistribution prefix threshold has been reached - [dec] prefixes

**Explanation** Check if redistribution of large number of prefixes is desired and has not been configured by mistake

**Recommended Action** No special action is required.

**Error Message** OSPF-4-RESTART\_SHUTDOWN: OSPF shutting self down via restart command

**Explanation** OSPF process is shutting itself down due to the restart command.

**Recommended Action** No special action is required.

**Error Message** OSPF-4-SELF\_LSA: context [chars]: [chars]

**Explanation** Router received an newer copy of an LSA generated by itself. Two routers may be configured with the same router ID or a router which was disconnected from the network has come back.

**Recommended Action** Verify if the router ID for the router is unique in the network.

**Error Message** OSPF-4-SOURCE\_ERR: Bad source address [chars] - ours on [chars]

**Explanation** A OSPF packet with our own source address was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-SRC\_INVALID: Invalid src address [chars], should not be seen on [chars]

**Explanation** A OSPF packet packet with source address not on this network was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-SRC\_MCAST: Bad source address [chars] - multicast on [chars]

**Explanation** A OSPFv3 packet with muticast source address was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-VERSION\_ERR: Bad ospf version [dec] received from [chars] on [chars]

**Explanation** A OSPF packet with incorrect version number was received

**Recommended Action** No special action is required.

**Error Message** OSPF-4-WRONGQ: Found wrong type of packet ([dec]) on internal [chars] queue

**Explanation** Did not expect the specified packet type on the given incoming message queue

**Recommended Action** Keep running, do nothing special

## OSPF-5

**Error Message** OSPF-5-ADJCHANGE: Nbr [chars] on [chars] went [chars]

**Explanation** An OSPF neighborhood has just been established. Or a neighborhood has just been shutdown.

**Recommended Action** No special action is required.

**Error Message** OSPF-5-BFD\_DOWN: BFD state Down for [chars] on [chars] (area [chars]) BFD code [dec]

**Explanation** OSPF received BFD down notification.

**Recommended Action** No special action is required.

**Error Message** OSPF-5-NBRSTATE: Process [chars], Nbr [chars] on [chars] from [chars] to [chars], [chars]

**Explanation** An OSPF neighbor has just changed state.

**Recommended Action** No special action is required.

**Error Message** OSPF-5-NBR\_RETRANSMISSIONS: Process re-originates LSA ID [chars] LSA Type [chars] adv-rtr [chars] in area [chars] for Nbr [chars]

**Explanation** Repeated Retransmissions of LSU for a given Neighbor.

**Recommended Action** No special action is required.

## OSPF-6

**Error Message** OSPF-6-DECONFIG\_SHUTDOWN: OSPF shutting self down via deconfiguration

**Explanation** OSPF process is shutting itself down due to the deconfiguration command.

**Recommended Action** No special action is required.

**Error Message** OSPF-6-HA\_DB\_REBUILD: HA run-time database buildup [chars]

**Explanation** OSPF stateful restart status

**Recommended Action** No special action is required.

**Error Message** OSPF-6-HA\_STATEFUL: Stateful HA [chars]

**Explanation** OSPF stateful restart status

**Recommended Action** No special action is required.

**Error Message** OSPF-6-INTFID\_CHNGD: Router [chars] on interface [chars] is sending OSPFv3 packets from more than one interfaces

**Explanation** OSPFv3 is enabled on more than one interface having same link-local address.

**Recommended Action** Check all routers on the indicated interface for misconfigurations.

**Error Message** OSPF-6-MTS\_UNKNOWN\_MSG: Received unknown MTS message with opcode [dec], dropping it

**Explanation** OSPF received an unknown MTS message. The message will be dropped

**Recommended Action** No special action is required.

**Error Message** OSPF-6-SHUTDOWN\_REQUEST\_FAIL: OSPF shutdown request failed, [chars]

**Explanation** OSPF request to system manager for permission to shutdown was turned down.

**Recommended Action** No special action is required.

**Error Message** OSPF-6-START: Starting OSPF [chars], [chars]

**Explanation** OSPF process is starting due to the specified reason.

**Recommended Action** No special action is required.

**Error Message** OSPF-6-UNKNOWN\_SHUTDOWN: OSPF shutting self down due to unknown reason

**Explanation** OSPF process is shutting itself down due to unknown reason.

**Recommended Action** No special action is required.

## PIM6 Messages

This section contains the PIM6 messages.

## PIM6-2

**Error Message** PIM6-2-SHM\_LOCK\_CREAT: Failed to create shared memory lock: [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** PIM6-2-STARTUP\_DEBUG: [chars] in [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** No special action is required.

## PIM6-3

**Error Message** PIM6-3-ADD\_ROUTE: Couldn't add PIM6 route [chars] in [chars]

**Explanation** PIM6 failed to update the local route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-ADD\_RP\_FAIL: [chars]: [chars] for group [chars]

**Explanation** PIM6 API for getting RP address failed

**Recommended Action** No special action is required.

**Error Message** PIM6-3-API\_CLOSE: Couldn't close [chars] API

**Explanation** PIM6 failed to close API opened with the component.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-API\_FAILED: [chars] failed in [chars]

**Explanation** PIM6 process failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-API\_INIT: Couldn't initialize [chars] API

**Explanation** PIM6 failed to open API to interact with the component.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-ATTACH\_SHM: Couldn't attach to shm of [chars]

**Explanation** PIM6 process failed to open a shared memory resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-AVL\_ERROR: AVL-tree operation [chars] failed for [chars]

**Explanation** PIM6 process failed in an AVL-tree manipulation.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-BF\_CONVERT: bitfield\_convert() failed

**Explanation** PIM6 failed to convert a compressed bitfield.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-BF\_CREATE: Couldn't create [chars] bitfield

**Explanation** PIM6 failed to create bitfield resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-BF\_FAILED: Bitfield API [chars] failed for [chars] bitfield

**Explanation** PIM6 failed perfor bitfield function.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-BIND: bind() on [chars] failed: [chars]

**Explanation** PIM6 failed to bind UDP socket. Auto-RP will not work.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-COMP\_DEREG: Unable to de-register with [chars]

**Explanation** PIM6 failed to de-register with a server component.



**Recommended Action** No special action is required.

**Error Message** PIM6-3-COMP\_REG: Unable to register with [chars]

**Explanation** PIM6 failed to register with a server component.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-CONFHECK: Failed to [chars] Tunnel multicast concheck Capability. error: [chars]

**Explanation** Could not add/delete confcheck capability

**Recommended Action** No special action is required.

**Error Message** PIM6-3-CREATE\_ROUTE: Couldn't create PIM6 route for [chars] in [chars]

**Explanation** PIM6 failed to update the local route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-CV\_INIT: Couldn't init cond var [chars]

**Explanation** PIM6 process failed to initialize conditional-variable resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-DEL\_IF: Couldn't delete interface [chars] from PIM6 route [chars] in [chars]

**Explanation** PIM6 failed to delete the outgoing interface from route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-DEL\_ROUTE: Couldn't delete PIM6 route [chars] in [chars]

**Explanation** PIM6 failed to delete the local route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-FREE\_ROUTE: Couldn't free PIM6 route [chars] in [chars]

**Explanation** PIM6 failed to delete the route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-GET\_RP\_FAIL: [chars]: [chars] for group [chars]

**Explanation** PIM6 API for getting RP address failed

**Recommended Action** No special action is required.

**Error Message** PIM6-3-HA\_FAILURE: [chars]

**Explanation** PIM6 process failed in a HA operation.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-HA\_INVALID\_MVPN\_MDT: Values of mdt pointer invalid in [chars]

**Explanation** Invalid mdt pointer.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-HA\_INVALID\_POINTER: [chars]: [chars] invalid pointer

**Explanation** Invalid pointer to invoke HA functions.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-HA\_KEYTYPE\_MISMATCHED: Keytype [dec] mismatched, expected [dec]

**Explanation** Key type not matching.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-HEARTBEAT\_TIMER: Unable to create heartbeat timer in [chars]

**Explanation** Unable to create heartbeat timer

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-IGMP\_DOWN: Couldn't enable PIM6 on [chars], IGMP is not up

**Explanation** PIM6 is not enabled on the interface, as it requires IGMP to be up.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-IM\_EXT: Couldn't set IM-extension for interface [chars]

**Explanation** PIM6 process failed to set IM extension.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-INIT\_MTS\_SAP: mts\_bind() failed in pim\_init\_mts(), errno: [chars]

**Explanation** Unable to open MTS SAP

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-INVALID\_GROUP: Operation for invalid group [chars] received in [chars]

**Explanation** PIM6 process received invalid group.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-INVALID\_MBUF: Received invalid mbuf pointer in [chars]

**Explanation** PIM6 received invalid data buffer, discarded.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-INVALID\_PARAM: Invalid parameters passed to [chars]

**Explanation** Invalid parameters passed to a function

**Recommended Action** No special action is required.

**Error Message** PIM6-3-LIB\_API\_FAILED: [chars] failed in [chars]

**Explanation** PIM6 client failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-LIB\_BF\_CREATE: Couldn't create [chars] bitfield

**Explanation** PIM6 failed to create bitfield resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-LIB\_INT\_ERROR: [chars] in [chars]()

**Explanation** PIM6 API encountered an error during internal processing

**Recommended Action** Report the issue to Customer Support

**Error Message** PIM6-3-LIB\_MALLOC: Private mem malloc (%zu) failed in [chars]

**Explanation** Process is out of free private memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM6-3-LIB\_MTS\_SEND: mts\_send() failed for [chars], errno: [chars]

**Explanation** Process called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MALLOC: Private mem malloc ([dec]) failed in [chars]

**Explanation** PIM6 process is out of free private memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM6-3-MAX\_GRANGES: Max Granges allowed to be configured for use shared tree config is [dec]

**Explanation** Exceeded the group range limit

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MAX\_ROUTES: Exceeded max allowed routes to be sent to MRIB

**Explanation** Exceeded max allowed routes to be sent to MRIB

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MCEC\_MSG: [chars]

**Explanation** PIM6 VPC related messages

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MQCLOSE: Couldn't close [chars] mq: [chars]

**Explanation** PIM6 failed to close the message-queue resource.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MQFLUSH: Couldn't flush [chars] mq: [chars]

**Explanation** PIM6 failed to remove stale messages from the message-queue.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MQLOOP\_CREATE: Couldn't create [chars] mqloop: [chars]

**Explanation** PIM6 failed to create the mqloop resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MQLOOP\_REGHAND: Couldn't register all handlers for [chars] mqloop

**Explanation** PIM6 failed to initialize handlers the mqloop resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MQLOOP\_SHUTDOWN: Couldn't shutdown [chars] mqloop

**Explanation** PIM6 failed to shutdown the mqloop resource.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MQLOOP\_START: Couldn't start [chars] mqloop

**Explanation** PIM6 failed to initialize the mqloop resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MQOPEN: Couldn't open [chars] mq: [chars]

**Explanation** PIM6 failed to open the message-queue resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MQSEND: mq\_send() error on [chars] queue in [chars]

**Explanation** PIM6 failed to send an IPC message on the message-queue.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MRIB\_ADD\_ROUTE: MRIB add route failed in [chars]

**Explanation** PIM6 failed to add route in MRIB.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MRIB\_DEL\_ROUTE: MRIB delete route failed in [chars]

**Explanation** PIM6 failed to delete route in MRIB.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MRIB\_NO\_SHARED\_TREE: MRIB shared tree entry absent for group [chars]/[dec]

**Explanation** MRIB route unexpectedly absent for a group entry.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MSDP\_ORIG\_DATASA: Couldn't originate MSDP data SA in [chars]

**Explanation** PIM6 failed to notify MSDP to originate data SA message.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MTSOPEN: Couldn't bind [chars] mts-q: [chars]

**Explanation** PIM6 failed to open the MTS-queue resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** PIM6 called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MTS\_INIT: Could not initialize MTS for [chars]

**Explanation** Unable to register opcodes

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MTS\_RECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** PIM6 called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MTS\_REGISTER: mts\_register failed for PIM6: [chars]

**Explanation** PIM6 was unable to register an MTS notification

**Recommended Action** No special action is required.

**Error Message** PIM6-3-MTS\_SEND: mts\_send() failed for [chars], errno: [chars]

**Explanation** PIM6 called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MTS\_UNBIND: mts\_unbind() failed in [chars] for queue [chars] with err: [chars]

**Explanation** Mts\_unbind failure

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MUTEX\_INIT: Couldn't init mutex [chars]

**Explanation** PIM6 process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-MV\_INIT: Couldn't init mutex [chars]

**Explanation** PIM6 process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-NO\_SET\_PRIORITY: Failed to set policy or priority

**Explanation** PIM6 process could not set itself process priority, exiting.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-OIM\_REGISTER\_FAIL: Unable to register with OIM module in [chars]

**Explanation** MVPN module couldnt register with OIM module

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-OPCODE\_REG: Could not register opcode 0x[hex], reason [chars]

**Explanation** Unable to register opcodes

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-PIM\_API\_NOT\_INIT: PIM6 API not initialized

**Explanation** PIM6 API is not initialized.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-PIM\_BFD\_ADD\_FAIL: [chars] request for interface [chars] failed in [chars]

**Explanation** BFD session add failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-PIM\_BFD\_API\_FAIL: [chars] request failed in [chars]

**Explanation** BFD API failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-PIM\_BFD\_REMOVE\_FAIL: Session remove request for neighbor [chars] on interface [chars] failed ([chars])

**Explanation** BFD session add failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-PIM\_BFD\_SEND\_AUTO\_EXPIRY: Unable to start BFD staling, error [chars]

**Explanation** PIM6 BFD staling API failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-PIM\_BFD\_SES\_REMOVE\_ALL: Unable to cleanup the BFD sessions during deconfiguration, error [chars]

**Explanation** Unable to cleanup BFD sessions



**Recommended Action** Report the issue to Customer Support

**Error Message** PIM6-3-PIM\_CIB: Couldn't find PIM6 VRF for [chars]

**Explanation** PIM6 failed to obtain its VRF info block.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-PIM\_EXISTS: PIM6 is already running, process exiting

**Explanation** Another PIM6 process is already running, this process will shutdown.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-PIM\_INIT: PIM6 init failed: [chars]

**Explanation** PIM6 process initialization failed.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-PIM\_LIB\_API\_FAILED: [chars] failed in [chars]

**Explanation** PIM6 client failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-PIM\_LIB\_API\_INIT: Couldn't initialize [chars] API

**Explanation** PIM6 failed to open API to interact with the component.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-PIM\_LIB\_MALLOC: Private mem malloc (%zu) failed in [chars]

**Explanation** Process is out of free private memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM6-3-PIM\_LIB\_SM\_CLOSE: Couldn't close shm segment [chars]

**Explanation** PIM6 process failed to remove shared memory resource.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-PIM\_LIB\_SM\_OPEN: Couldn't open shm segment [chars] errno: [chars]

**Explanation** PIM6 process failed to initialize shared memory resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-POLICY\_INVALID\_BINDACK: Invalid RPM bind ack in [chars]

**Explanation** PIM6 received invalid policy response from RPM.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-POLICY\_INVALID\_TYPE: Invalid RPM type [dec] in [chars]

**Explanation** PIM6 received invalid policy-type from RPM.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-PSS\_FAILED: PSS operation [chars] failed in [chars]

**Explanation** PIM6 process failed in a PSS operation.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-PTHREAD\_CREATE: Couldn't create thread [chars]

**Explanation** PIM6 process failed to create a task thread.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-PTHREAD\_FAILED: pthread\_create() failed for [chars]

**Explanation** PIM6 process failed to create a task thread.

**Recommended Action** Dump core, then reload the stack

**Error Message** PIM6-3-PT\_ADD: Couldn't add [chars] to local PT

**Explanation** PIM6 failed to update the local route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-PT\_DEL: Couldn't delete [chars] from local PT

**Explanation** PIM6 failed to delete the local route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-PURGE\_FAIL: Purging of PIM6 cache failed for VRF [chars]

**Explanation** Unable to purge PIM6 cache

**Recommended Action** No special action is required.

**Error Message** PIM6-3-RDLOCK\_ASSERT: [chars]:[dec]: Assert, read-lock not acquired

**Explanation** Caller Failed to get PIM6 Shared Memory read lock

**Recommended Action** No special action is required.

**Error Message** PIM6-3-RECOVERY\_FAIL: Recovery failed for [chars] DB

**Explanation** Unable recover a PIM6 database

**Recommended Action** No special action is required.

**Error Message** PIM6-3-REMOVE\_TXLIST\_ELEMENT: Couldn't remove the txlist element for route [chars] in [chars]

**Explanation** PIM6 failed to remove the txlist element for the route

**Recommended Action** No special action is required.

**Error Message** PIM6-3-RESERVE\_LIMIT: Exceeded reserve-limit for VRF [chars] - dropping

**Explanation** Exceeded the reserve-limit for VRF

**Recommended Action** No special action is required.

**Error Message** PIM6-3-RESTART\_REASON: PIM6 process has restarted, restart reason: [chars]

**Explanation** PIM6 is restoring the routes it had added in previous instance.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-RLIMIT: Couldn't set PIM6 data segment size to [dec]

**Explanation** PIM6 process could not set itself memory resource limit, exiting.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-RP\_SECONDARY\_NOT\_ALLOWED: PIM6 RP Address [chars] cannot be same as secondary address on interface [chars]

**Explanation** PIM6 RP Address cannot be same as interface secondary address

**Recommended Action** No special action is required.

**Error Message** PIM6-3-SETSOCKOPT: setsockopt() on [chars] failed: [chars]

**Explanation** PIM6 failed in UDP socket operation. Auto-RP will not work.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-SETUP\_ROUTE: Couldn't setup PIM6 route [chars] in [chars]

**Explanation** PIM6 failed to install route in the local route-table.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-SG\_EXP\_TMR\_VRFS: "ip pim6 sg-expiry-timer" value in [dec] VRFs not supported in [chars], please reconfigure within range [dec]-[dec]

**Explanation** Configuration not supported in ISSU target version, please reconfigure

**Recommended Action** ACTION\_SW\_NONE

**Error Message** PIM6-3-SG\_EXP\_TMR\_VRF: "ip pim6 sg-expiry-timer" value in VRF [chars] not supported in [chars], please reconfigure within range [dec]-[dec]

**Explanation** Configuration not supported in ISSU target version, please reconfigure

**Recommended Action** ACTION\_SW\_NONE

**Error Message** PIM6-3-SHARED\_DB\_PUB\_INIT: Could not do shared database publisher initialization for interfaces rc=0x[hex] [[chars]]

**Explanation** Unable to do shared db publisher initialization

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-SHUTDOWN\_FM: FM could not shut down PIM6 process

**Explanation** FM could not shut down PIM6 process

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-SLAB\_ALLOC: Slab alloc of type [chars] failed in [chars]

**Explanation** PIM6 process failed to allocate Slab memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM6-3-SLAB\_CREATE: Slab alloc of type [chars] failed

**Explanation** PIM6 process failed to allocate Slab memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM6-3-SMALLOC: Shared mem malloc (%zu) failed in [chars]

**Explanation** PIM6 process is out of free shared memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM6-3-SM\_CREATE: Couldn't create shm segment [chars]

**Explanation** PIM6 process failed to initialize shared memory resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-SOCKET: socket() for [chars] failed: [chars]

**Explanation** PIM6 failed to obtain UDP socket. Auto-RP will not work.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-STATE\_LIMIT: Exceeded state-limit for VRF [chars] - dropping

**Explanation** Exceeded the state-limit for VRF

**Recommended Action** No special action is required.

**Error Message** PIM6-3-SUBCR\_INIT: Could not initialize shared database client for interfaces rc=0x[hex] [[chars]]

**Explanation** Unable to do subscriber init to access IM shared-dbs

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-SYSMGR\_DISPATCH: Error returned from sysmgr\_dispatch(), errno: [chars]

**Explanation** PIM6 called a System Manager API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-THREAD\_SHUTDOWN: Couldn't shutdown thread [chars]

**Explanation** PIM6 failed to shut down a task thread.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-TIMER\_CREATE: Couldn't create [chars] timer for [chars]

**Explanation** PIM6 failed to initialize timer resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-TIMER\_SET\_INIT: Couldn't init [chars] active timer set

**Explanation** PIM6 failed to initialize timer resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-TIMER\_START: Couldn't start [chars] timer

**Explanation** PIM6 failed to initialize timer resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-TUNNEL\_ADD\_FAIL: Unable to add tunnel info into the list for vrf [chars] failed in [chars]

**Explanation** MVPN tunnel setup failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-TUNNEL\_ADD\_TLV\_FAIL: Unable to add tunnel tlv [chars] into the list for vrf [chars]

**Explanation** MVPN tunnel setup failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-TUNNEL\_CREATE\_FAIL: Unable to setup tunnel interface for vrf [chars] failed in [chars]

**Explanation** MVPN tunnel setup failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-TXLIST\_CREATE: Couldn't create txlist for [chars]

**Explanation** PIM6 failed to create txlist resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-UDP\_READ: Error reading UDP socket

**Explanation** UDP Socket Error

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-UDP\_SENDTO: udp\_sendto() on [chars] failed: [chars]

**Explanation** PIM6 failed to send over UDP socket.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-UNKNOWN\_MINOR: Minor type [dec] is unknown, received in [chars]

**Explanation** PIM6 process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-UNKNOWN\_MJR: Major type 0x[hex] unknown

**Explanation** PIM6 process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

**Error Message** PIM6-3-URIB\_CONTEXT: Couldn't get URIB VRF [chars]

**Explanation** PIM6 failed to obtain unicast routing VRF from URIB.

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-3-WRLOCK\_ASSERT: [chars]:[dec]: Assert, write-lock not acquired

**Explanation** Caller Failed to get PIM6 Shared Memory write lock

**Recommended Action** No special action is required.

## PIM6-4

**Error Message** PIM6-4-DUP\_VPC\_NBR: Unexpected 2nd vPC peer [chars] detected (peer [chars]) on [chars] (domain [dec] misconfig?)

**Explanation** Unable to register opcodes

**Recommended Action** Dump core, then restart component

**Error Message** PIM6-4-HELLO\_INT: Configured PIM6 hello interval [dec]ms on interface [chars] is less than the supported minimum value of [dec]ms, using the minimum value

**Explanation** PIM6 minimum hello interval.

**Recommended Action** No special action is required.

**Error Message** PIM6-4-HELLO\_KEYCHAIN\_ALGUNSUPPORTED: Hello keychain authentication configured with keychain [chars] on interface [chars] with unsupported cryptographic algorithm. Falling back to SHA1.

**Explanation** The cryptographic algorithm in the specified keychain is not supported. SHA1 is used as a fallback.

**Recommended Action** No special action is required.

**Error Message** PIM6-4-HELLO\_KEYCHAIN\_NOKEY: Hello keychain authentication configured with keychain [chars] on interface [chars] but no valid key present. Not sending nor accepting hello messages on interface.

**Explanation** The specified keychain doesn't exist, or the keychain has no valid key.

**Recommended Action** Requires operator to intervene

## PIM6-5

**Error Message** PIM6-5-DR\_CHANGE: DR change from [chars] to [chars] on interface [chars]

**Explanation** PIM6 Designated router changed on the interface.



**Recommended Action** No special action is required.

**Error Message** PIM6-5-NBR\_CHANGE: Neighbor [chars] [chars] on interface [chars]

**Explanation** PIM6 neighbor went up/down due to Hello-message seen/lost.

**Recommended Action** No special action is required.

**Error Message** PIM6-5-SSM\_RANGE\_DELETED: Invalid SSM range configuration for VRF [chars] has been deleted

**Explanation** Invalid PIM6 SSM Range configuration has been deleted due to failing check

**Recommended Action** No special action is required.

## PIM6-6

**Error Message** PIM6-6-IF\_DEPEND: Removed interface ([chars]) has [chars] dependency

**Explanation** There is residual configuration on the deleted interface.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-MAX\_RPS: Cannot store bidir-RP [chars], a maximum of [dec] are supported

**Explanation** Due to hardware limitations, there is a maximum number of Bidir-PIM6 RPs that can be stored.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-MQFLUSHED: Flushing [dec] messages from [chars] mq

**Explanation** Flushing old residual messages from the message-queue.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-MQLOOP\_UNKNOWN\_MSG: Received unknown message [dec]/[dec]

**Explanation** PIM6 process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-NEGATIVE\_PREFIX: Group prefix [chars]/[dec] from RP [chars] has negative-bit set, ignore group entry

**Explanation** The RP is advertising a group range to be in dense-mode. This implementation only supports sparse-mode so the group entry will be ignored.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-PIM\_LIB\_API\_FAILED\_GET\_PCIB: [chars] failed in [chars]

**Explanation** PIM6 client failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-PIM\_LIB\_API\_FAILED\_GET\_RP: [chars] failed in [chars]

**Explanation** PIM6 client failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-RESERVE\_LIMIT\_WARNING: Exceeded 80 percent of the reserve-limit for VRF [chars]

**Explanation** Exceeded 80 percent of the reserve-limit for VRF

**Recommended Action** No special action is required.

**Error Message** PIM6-6-RESTART\_SHUTDOWN: PIM6 shutting self down via restart command

**Explanation** PIM6 process is shutting itself down due to the restart command.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-ROUTE\_LOOKUP: Couldn't find PIM6 route [chars] in [chars]

**Explanation** PIM6 failed to find entry in the local route-table.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-SHM\_RESTART\_REASON: PIM6 process has restarted, restart reason: [chars]

**Explanation** PIM6 is restoring the routes it had added in previous instance.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-SHUTDOWN\_SELF: PIM6 shutting self down

**Explanation** PIM6 process is shutting itself down.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-SHUTDOWN: Shutting down PIM6 process

**Explanation** PIM6 received a shutdown request.

**Recommended Action** No special action is required.

**Error Message** PIM6-6-STATE\_LIMIT\_WARNING: Exceeded 80 percent of the state-limit for VRF [chars]

**Explanation** Exceeded 80 percent of the state-limit for VRF

**Recommended Action** No special action is required.

**Error Message** PIM6-6-UNKNOWN\_OPC: Received unknown mts opcode [dec]

**Explanation** PIM6 process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

## PIM Messages

This section contains the PIM messages.

### PIM-2

**Error Message** PIM-2-SHM\_LOCK\_CREAT: Failed to create shared memory lock: [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** Reload the stack

**Error Message** PIM-2-STARTUP\_DEBUG: [chars] in [chars]

**Explanation** An unrecoverable software error has occurred during AM initialization.

**Recommended Action** No special action is required.

### PIM-3

**Error Message** PIM-3-ADD\_ROUTE: Couldn't add PIM route [chars] in [chars]

**Explanation** PIM failed to update the local route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM-3-ADD\_RP\_FAIL: [chars]: [chars] for group [chars]

**Explanation** PIM API for getting RP address failed

**Recommended Action** No special action is required.

**Error Message** PIM-3-API\_CLOSE: Couldn't close [chars] API

**Explanation** PIM failed to close API opened with the component.

**Recommended Action** No special action is required.

**Error Message** PIM-3-API\_FAILED: [chars] failed in [chars]

**Explanation** PIM process failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** PIM-3-API\_INIT: Couldn't initialize [chars] API

**Explanation** PIM failed to open API to interact with the component.

**Recommended Action** No special action is required.

**Error Message** PIM-3-ATTACH\_SHM: Couldn't attach to shm of [chars]

**Explanation** PIM process failed to open a shared memory resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-AVL\_ERROR: AVL-tree operation [chars] failed for [chars]

**Explanation** PIM process failed in an AVL-tree manipulation.

**Recommended Action** No special action is required.

**Error Message** PIM-3-BF\_CONVERT: bitfield\_convert() failed

**Explanation** PIM failed to convert a compressed bitfield.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-BF\_CREATE: Couldn't create [chars] bitfield

**Explanation** PIM failed to create bitfield resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-BF\_FAILED: Bitfield API [chars] failed for [chars] bitfield

**Explanation** PIM failed perform bitfield function.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-BIND: bind() on [chars] failed: [chars]

**Explanation** PIM failed to bind UDP socket. Auto-RP will not work.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-COMP\_DEREG: Unable to de-register with [chars]

**Explanation** PIM failed to de-register with a server component.

**Recommended Action** No special action is required.

**Error Message** PIM-3-COMP\_REG: Unable to register with [chars]

**Explanation** PIM failed to register with a server component.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-CONFHECK: Failed to [chars] Tunnel multicast concheck Capability. error: [chars]

**Explanation** Could not add/delete confcheck capability

**Recommended Action** No special action is required.

**Error Message** PIM-3-CREATE\_ROUTE: Couldn't create PIM route for [chars] in [chars]

**Explanation** PIM failed to update the local route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM-3-CV\_INIT: Couldn't init cond var [chars]

**Explanation** PIM process failed to initialize conditional-variable resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-DEL\_IF: Couldn't delete interface [chars] from PIM route [chars] in [chars]

**Explanation** PIM failed to delete the outgoing interface from route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM-3-DEL\_ROUTE: Couldn't delete PIM route [chars] in [chars]

**Explanation** PIM failed to delete the local route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM-3-FREE\_ROUTE: Couldn't free PIM route [chars] in [chars]

**Explanation** PIM failed to delete the route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM-3-GET\_RP\_FAIL: [chars]: [chars] for group [chars]

**Explanation** PIM API for getting RP address failed

**Recommended Action** No special action is required.

**Error Message** PIM-3-HA\_FAILURE: [chars]

**Explanation** PIM process failed in a HA operation.

**Recommended Action** No special action is required.

**Error Message** PIM-3-HA\_INVALID\_MVPN\_MDT: Values of mdt pointer invalid in [chars]

**Explanation** Invalid mdt pointer.

**Recommended Action** No special action is required.

**Error Message** PIM-3-HA\_INVALID\_POINTER: [chars]: [chars] invalid pointer

**Explanation** Invalid pointer to invoke HA functions.

**Recommended Action** No special action is required.

**Error Message** PIM-3-HA\_KEYTYPE\_MISMATCHED: Keytype [dec] mismatched, expected [dec]

**Explanation** Key type not matching.

**Recommended Action** No special action is required.

**Error Message** PIM-3-HEARTBEAT\_TIMER: Unable to create heartbeat timer in [chars]

**Explanation** Unable to create heartbeat timer

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-IGMP\_DOWN: Couldn't enable PIM on [chars], IGMP is not up

**Explanation** PIM is not enabled on the interface, as it requires IGMP to be up.

**Recommended Action** No special action is required.

**Error Message** PIM-3-IM\_EXT: Couldn't set IM-extension for interface [chars]

**Explanation** PIM process failed to set IM extension.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-INIT\_MTS\_SAP: mts\_bind() failed in pim\_init\_mts(), errno: [chars]

**Explanation** Unable to open MTS SAP

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-INVALID\_GROUP: Operation for invalid group [chars] received in [chars]

**Explanation** PIM process received invalid group.

**Recommended Action** No special action is required.

**Error Message** PIM-3-INVALID\_PARAM: Invalid parameters passed to [chars]

**Explanation** Invalid parameters passed to a function

**Recommended Action** No special action is required.

**Error Message** PIM-3-LIB\_API\_FAILED: [chars] failed in [chars]

**Explanation** PIM client failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** PIM-3-LIB\_BF\_CREATE: Couldn't create [chars] bitfield

**Explanation** PIM failed to create bitfield resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-LIB\_INT\_ERROR: [chars] in [chars]()

**Explanation** PIM API encountered an error during internal processing

**Recommended Action** Report the issue to Customer Support

**Error Message** PIM-3-LIB\_MALLOC: Private mem malloc (%zu) failed in [chars]

**Explanation** Process is out of free private memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM-3-LIB\_MTS\_SEND: mts\_send() failed for [chars], errno: [chars]

**Explanation** Process called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MALLOC: Private mem malloc ([dec]) failed in [chars]

**Explanation** PIM process is out of free private memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM-3-MAX\_GRANGES: Max Granges allowed to be configured for use shared tree config is [dec]

**Explanation** Exceeded the group range limit



**Recommended Action** No special action is required.

**Error Message** PIM-3-MAX\_ROUTES: Exceeded max allowed routes to be sent to MRIB

**Explanation** Exceeded max allowed routes to be sent to MRIB

**Recommended Action** No special action is required.

**Error Message** PIM-3-MCEC\_MSG: [chars]

**Explanation** PIM VPC related messages

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MQCLOSE: Couldn't close [chars] mq: [chars]

**Explanation** PIM failed to close the message-queue resource.

**Recommended Action** No special action is required.

**Error Message** PIM-3-MQFLUSH: Couldn't flush [chars] mq: [chars]

**Explanation** PIM failed to remove stale messages from the message-queue.

**Recommended Action** No special action is required.

**Error Message** PIM-3-MQLOOP\_CREATE: Couldn't create [chars] mqloop: [chars]

**Explanation** PIM failed to create the mqloop resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MQLOOP\_REGHAND: Couldn't register all handlers for [chars] mqloop

**Explanation** PIM failed to initialize handlers the mqloop resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MQLOOP\_SHUTDOWN: Couldn't shutdown [chars] mqloop

**Explanation** PIM failed to shutdown the mqloop resource.

**Recommended Action** No special action is required.

**Error Message** PIM-3-MQLOOP\_START: Couldn't start [chars] mqloop

**Explanation** PIM failed to initialize the mqloop resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MQOPEN: Couldn't open [chars] mq: [chars]

**Explanation** PIM failed to open the message-queue resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MQSEND: mq\_send() error on [chars] queue in [chars]

**Explanation** PIM failed to send an IPC message on the message-queue.

**Recommended Action** No special action is required.

**Error Message** PIM-3-MRIB\_ADD\_ROUTE: MRIB add route failed in [chars]

**Explanation** PIM failed to add route in MRIB.

**Recommended Action** No special action is required.

**Error Message** PIM-3-MRIB\_DEL\_ROUTE: MRIB delete route failed in [chars]

**Explanation** PIM failed to delete route in MRIB.

**Recommended Action** No special action is required.

**Error Message** PIM-3-MRIB\_NO\_SHARED\_TREE: MRIB shared tree entry absent for group [chars]/[dec]

**Explanation** MRIB route unexpectedly absent for a group entry.

**Recommended Action** No special action is required.

**Error Message** PIM-3-MSDP\_ORIG\_DATASA: Couldn't originate MSDP data SA in [chars]

**Explanation** PIM failed to notify MSDP to originate data SA message.

**Recommended Action** No special action is required.

**Error Message** PIM-3-MTSOPEN: Couldn't bind [chars] mts-q: [chars]

**Explanation** PIM failed to open the MTS-queue resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** PIM called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MTS\_INIT: Could not initialize MTS for [chars]

**Explanation** Unable to register opcodes

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MTS\_RECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** PIM called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MTS\_REGISTER: mts\_register failed for PIM: [chars]

**Explanation** PIM was unable to register an MTS notification

**Recommended Action** No special action is required.

**Error Message** PIM-3-MTS\_SEND: mts\_send() failed for [chars], errno: [chars]

**Explanation** PIM called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MTS\_UNBIND: mts\_unbind() failed in [chars] for queue [chars] with err: [chars]

**Explanation** Mts\_unbind failure

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MUTEX\_INIT: Couldn't init mutex [chars]

**Explanation** PIM process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-MV\_INIT: Couldn't init mutex [chars]

**Explanation** PIM process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-NO\_SET\_PRIORITY: Failed to set policy or priority

**Explanation** PIM process could not set itself process priority, exiting.

**Recommended Action** No special action is required.

**Error Message** PIM-3-OIM\_REGISTER\_FAIL: Unable to register with OIM module in [chars]

**Explanation** MVPN module couldnt register with OIM module

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-OPCODE\_REG: Could not register opcode 0x[hex], reason [chars]

**Explanation** Unable to register opcodes

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-PIM\_API\_NOT\_INIT: PIM API not initialized

**Explanation** PIM API is not initialized.

**Recommended Action** No special action is required.

**Error Message** PIM-3-PIM\_BFD\_ADD\_FAIL: [chars] request for interface [chars] failed in [chars]

**Explanation** BFD session add failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-PIM\_BFD\_API\_FAIL: [chars] request failed in [chars]

**Explanation** BFD API failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-PIM\_BFD\_REMOVE\_FAIL: Session remove request for neighbor [chars] on interface [chars] failed ([chars])

**Explanation** BFD session add failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-PIM\_BFD\_SEND\_AUTO\_EXPIRY: Unable to start BFD staling, error [chars]

**Explanation** PIM BFD staling API failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-PIM\_BFD\_SES\_REMOVE\_ALL: Unable to cleanup the BFD sessions during deconfiguration, error [chars]

**Explanation** Unable to cleanup BFD sessions

**Recommended Action** Report the issue to Customer Support

**Error Message** PIM-3-PIM\_CIB: Couldn't find PIM VRF for [chars]

**Explanation** PIM failed to obtain its VRF info block.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-PIM\_EXISTS: PIM is already running, process exiting

**Explanation** Another PIM process is already running, this process will shutdown.

**Recommended Action** No special action is required.

**Error Message** PIM-3-PIM\_INIT: PIM init failed: [chars]

**Explanation** PIM process initialization failed.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-PIM\_LIB\_API\_FAILED: [chars] failed in [chars]

**Explanation** PIM client failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** PIM-3-PIM\_LIB\_API\_INIT: Couldn't initialize [chars] API

**Explanation** PIM failed to open API to interact with the component.

**Recommended Action** No special action is required.

**Error Message** PIM-3-PIM\_LIB\_MALLOC: Private mem malloc ([dec]) failed in [chars]

**Explanation** Process is out of free private memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM-3-PIM\_LIB\_SM\_CLOSE: Couldn't close shm segment [chars]

**Explanation** PIM process failed to remove shared memory resource.

**Recommended Action** No special action is required.

**Error Message** PIM-3-PIM\_LIB\_SM\_OPEN: Couldn't open shm segment [chars] errno: [chars]

**Explanation** PIM process failed to initialize shared memory resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-POLICY\_INVALID\_BINDACK: Invalid RPM bind ack in [chars]

**Explanation** PIM received invalid policy response from RPM.

**Recommended Action** No special action is required.

**Error Message** PIM-3-POLICY\_INVALID\_TYPE: Invalid RPM type [dec] in [chars]

**Explanation** PIM received invalid policy-type from RPM.

**Recommended Action** No special action is required.

**Error Message** PIM-3-PSS\_FAILED: PSS operation [chars] failed in [chars]

**Explanation** PIM process failed in a PSS operation.

**Recommended Action** No special action is required.

**Error Message** PIM-3-PTHREAD\_CREATE: Couldn't create thread [chars]

**Explanation** PIM process failed to create a task thread.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-PTHREAD\_FAILED: pthread\_create() failed for [chars]

**Explanation** PIM process failed to create a task thread.

**Recommended Action** Dump core, then reload the stack

**Error Message** PIM-3-PT\_ADD: Couldn't add [chars] to local PT

**Explanation** PIM failed to update the local route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM-3-PT\_DEL: Couldn't delete [chars] from local PT

**Explanation** PIM failed to delete the local route-table entry.

**Recommended Action** No special action is required.

**Error Message** PIM-3-PURGE\_FAIL: Purging of PIM cache failed for VRF [chars]

**Explanation** Unable to purge PIM cache

**Recommended Action** No special action is required.

**Error Message** PIM-3-RDLOCK\_ASSERT: [chars]:[dec]: Assert, read-lock not acquired

**Explanation** Caller Failed to get PIM Shared Memory read lock

**Recommended Action** No special action is required.

**Error Message** PIM-3-RECOVERY\_FAIL: Recovery failed for [chars] DB

**Explanation** Unable to recover a PIM database

**Recommended Action** No special action is required.

**Error Message** PIM-3-REMOVE\_TXLIST\_ELEMENT: Couldn't remove the txlist element for route [chars] in [chars]

**Explanation** PIM failed to remove the txlist element for the route

**Recommended Action** No special action is required.

**Error Message** PIM-3-RESERVE\_LIMIT: Exceeded reserve-limit for VRF [chars] - dropping

**Explanation** Exceeded the reserve-limit for VRF

**Recommended Action** No special action is required.

**Error Message** PIM-3-RESTART\_REASON: PIM process has restarted, restart reason: [chars]

**Explanation** PIM is restoring the routes it had added in previous instance.

**Recommended Action** No special action is required.

**Error Message** PIM-3-RLIMIT: Couldn't set PIM data segment size to [dec]

**Explanation** PIM process could not set itself memory resource limit, exiting.

**Recommended Action** No special action is required.

**Error Message** PIM-3-RP\_SECONDARY\_NOT\_ALLOWED: PIM RP Address [chars] cannot be same as secondary address on interface [chars]

**Explanation** PIM RP Address cannot be same as interface secondary address

**Recommended Action** No special action is required.

**Error Message** PIM-3-SETSOCKOPT: setsockopt() on [chars] failed: [chars]

**Explanation** PIM failed in UDP socket operation. Auto-RP will not work.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-SETUP\_ROUTE: Couldn't setup PIM route [chars] in [chars]

**Explanation** PIM failed to install route in the local route-table.

**Recommended Action** No special action is required.

**Error Message** PIM-3-SG\_EXP\_TMR\_VRFS: "ip pim sg-expiry-timer" value in [dec] VRFS not supported in [chars], please reconfigure within range [dec]-[dec]

**Explanation** Configuration not supported in ISSU target version, please reconfigure



**Recommended Action** ACTION\_SW\_NONE

**Error Message** PIM-3-SG\_EXP\_TMR\_VRF: "ip pim sg-expiry-timer" value in VRF [chars] not supported in [chars], please reconfigure within range [dec]-[dec]

**Explanation** Configuration not supported in ISSU target version, please reconfigure

**Recommended Action** ACTION\_SW\_NONE

**Error Message** PIM-3-SHARED\_DB\_PUB\_INIT: Could not do shared database publisher initialization for interfaces rc=0x[hex] [[chars]]

**Explanation** Unable to do shared db publisher initialization

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-SHUTDOWN\_FM: FM could not shut down PIM process

**Explanation** FM could not shut down PIM process

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-SLAB\_ALLOC: Slab alloc of type [chars] failed in [chars]

**Explanation** PIM process failed to allocate Slab memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM-3-SLAB\_CREATE: Slab alloc of type [chars] failed

**Explanation** PIM process failed to allocate Slab memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM-3-SMALLOC: Shared mem malloc ([dec]) failed in [chars]

**Explanation** PIM process is out of free shared memory.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** PIM-3-SM\_CREATE: Couldn't create shm segment [chars]

**Explanation** PIM process failed to initialize shared memory resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-SOCKET: socket() for [chars] failed: [chars]

**Explanation** PIM failed to obtain UDP socket. Auto-RP will not work.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-STATE\_LIMIT: Exceeded state-limit for VRF [chars] - dropping

**Explanation** Exceeded the state-limit for VRF

**Recommended Action** No special action is required.

**Error Message** PIM-3-SUBCR\_INIT: Could not initialize shared database client for interfaces rc=0x[hex] [[chars]]

**Explanation** Unable to do subscriber init to access IM shared-dbs

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-SYSMGR\_DISPATCH: Error returned from sysmgr\_dispatch(), errno: [chars]

**Explanation** PIM called a System Manager API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-THREAD\_SHUTDOWN: Couldn't shutdown thread [chars]

**Explanation** PIM failed to shut down a task thread.

**Recommended Action** No special action is required.

**Error Message** PIM-3-TIMER\_CREATE: Couldn't create [chars] timer for [chars]

**Explanation** PIM failed to initialize timer resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-TIMER\_SET\_INIT: Couldn't init [chars] active timer set

**Explanation** PIM failed to initialize timer resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-TIMER\_START: Couldn't start [chars] timer

**Explanation** PIM failed to initialize timer resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-TUNNEL\_ADD\_FAIL: Unable to add tunnel info into the list for vrf [chars] failed in [chars]

**Explanation** MVPN tunnel setup failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-TUNNEL\_ADD\_TLV\_FAIL: Unable to add tunnel tlv [chars] into the list for vrf [chars]

**Explanation** MVPN tunnel setup failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-TUNNEL\_CREATE\_FAIL: Unable to setup tunnel interface for vrf [chars] failed in [chars]

**Explanation** MVPN tunnel setup failed

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-TXLIST\_CREATE: Couldn't create txlist for [chars]

**Explanation** PIM failed to create txlist resource.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-UDP\_READ: Error reading UDP socket

**Explanation** UDP Socket Error

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-UDP\_SENDTO: udp\_sendto() on [chars] failed: [chars]

**Explanation** PIM failed to send over UDP socket.

**Recommended Action** No special action is required.

**Error Message** PIM-3-UNKNOWN\_MINOR: Minor type [dec] is unknown, received in [chars]

**Explanation** PIM process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

**Error Message** PIM-3-UNKNOWN\_MJR: Major type 0x[hex] unknown

**Explanation** PIM process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

**Error Message** PIM-3-URIB\_CONTEXT: Couldn't get URIB VRF [chars]

**Explanation** PIM failed to obtain unicast routing VRF from URIB.

**Recommended Action** Dump core, then restart component

**Error Message** PIM-3-WRLOCK\_ASSERT: [chars]:[dec]: Assert, write-lock not acquired

**Explanation** Caller Failed to get PIM Shared Memory write lock

**Recommended Action** No special action is required.

## PIM-4

**Error Message** PIM-4-DUP\_VPC\_NBR: Unexpected 2nd vPC peer [chars] detected (peer [chars]) on [chars] (domain [dec] misconfig?)

**Explanation** Unable to register opcodes

**Recommended Action** Dump core, then restart component

**Error Message** PIM-4-HELLO\_INT: Configured PIM hello interval [dec]ms on interface [chars] is less than the supported minimum value of [dec]ms, using the minimum value

**Explanation** PIM minimum hello interval.

**Recommended Action** No special action is required.

**Error Message** PIM-4-HELLO\_KEYCHAIN\_ALGUNSUPPORTED: Hello keychain authentication configured with keychain [chars] on interface [chars] with unsupported cryptographic algorithm. Falling back to SHA1.

**Explanation** The cryptographic algorithm in the specified keychain is not supported. SHA1 is used as a fallback.

**Recommended Action** No special action is required.

**Error Message** PIM-4-HELLO\_KEYCHAIN\_NOKEY: Hello keychain authentication configured with keychain [chars] on interface [chars] but no valid key present. Not sending nor accepting hello messages on interface.

**Explanation** The specified keychain doesn't exist, or the keychain has no valid key.

**Recommended Action** Requires operator to intervene

## PIM-5

**Error Message** PIM-5-DR\_CHANGE: DR change from [chars] to [chars] on interface [chars]

**Explanation** PIM Designated router changed on the interface.

**Recommended Action** No special action is required.

**Error Message** PIM-5-NBR\_CHANGE: Neighbor [chars] [chars] on interface [chars]

**Explanation** PIM neighbor went up/down due to Hello-message seen/lost.

**Recommended Action** No special action is required.

**Error Message** PIM-5-SSM\_RANGE\_DELETED: Invalid SSM range configuration for VRF [chars] has been deleted

**Explanation** Invalid PIM SSM Range configuration has been deleted due to failing check

**Recommended Action** No special action is required.

## PIM-6

**Error Message** PIM-6-IF\_DEPEND: Removed interface ([chars]) has [chars] dependency

**Explanation** There is residual configuration on the deleted interface.

**Recommended Action** No special action is required.

**Error Message** PIM-6-MAX\_RPS: Cannot store bidir-RP [chars], a maximum of [dec] are supported

**Explanation** Due to hardware limitations, there is a maximum number of Bidir-PIM RPs that can be stored.

**Recommended Action** No special action is required.

**Error Message** PIM-6-MQFLUSHED: Flushing [dec] messages from [chars] mq

**Explanation** Flushing old residual messages from the message-queue.

**Recommended Action** No special action is required.

**Error Message** PIM-6-MQLOOP\_UNKNOWN\_MSG: Received unknown message [dec]/[dec]

**Explanation** PIM process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

**Error Message** PIM-6-NEGATIVE\_PREFIX: Group prefix [chars]/[dec] from RP [chars] has negative-bit set, ignore group entry

**Explanation** The RP is advertising a group range to be in dense-mode. This implementation only supports sparse-mode so the group entry will be ignored.

**Recommended Action** No special action is required.

**Error Message** PIM-6-PIM\_LIB\_API\_FAILED\_GET\_PCIB: [chars] failed in [chars]

**Explanation** PIM client failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** PIM-6-PIM\_LIB\_API\_FAILED\_GET\_RP: [chars] failed in [chars]

**Explanation** PIM client failed in invoking an API.

**Recommended Action** No special action is required.

**Error Message** PIM-6-RESERVE\_LIMIT\_WARNING: Exceeded 80 percent of the reserve-limit for VRF [chars]

**Explanation** Exceeded 80 percent of the reserve-limit for VRF

**Recommended Action** No special action is required.

**Error Message** PIM-6-RESTART\_SHUTDOWN: PIM shutting self down via restart command

**Explanation** PIM process is shutting itself down due to the restart command.

**Recommended Action** No special action is required.

**Error Message** PIM-6-ROUTE\_LOOKUP: Couldn't find PIM route [chars] in [chars]

**Explanation** PIM failed to find entry in the local route-table.

**Recommended Action** No special action is required.

**Error Message** PIM-6-SHM\_RESTART\_REASON: PIM process has restarted, restart reason: [chars]

**Explanation** PIM is restoring the routes it had added in previous instance.

**Recommended Action** No special action is required.

**Error Message** PIM-6-SHUTDOWN\_SELF: PIM shutting self down

**Explanation** PIM process is shutting itself down.

**Recommended Action** No special action is required.

**Error Message** PIM-6-SHUTDOWN: Shutting down PIM process

**Explanation** PIM received a shutdown request.

**Recommended Action** No special action is required.

**Error Message** PIM-6-STATE\_LIMIT\_WARNING: Exceeded 80 percent of the state-limit for VRF [chars]

**Explanation** Exceeded 80 percent of the state-limit for VRF

**Recommended Action** No special action is required.

**Error Message** PIM-6-UNKNOWN\_OPC: Received unknown mts opcode [dec]

**Explanation** PIM process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

## PMALLOC Messages

This section contains the PMALLOC messages.

## PMALLOC-3

**Error Message** PMALLOC-3-BITMAP\_MEM\_CHECK: Failed to allocate bitmap for memory checking in [chars]

**Explanation** In PMALLOC lib, process failed to allocate bitmap for memory checking.

**Recommended Action** No special action is required.

**Error Message** PMALLOC-3-MALLOC\_ENABLE\_CHECKER\_INFO: [dec] bytes already allocated

**Explanation** In PMALLOC lib, warn if some bytes have already been allocated.

**Recommended Action** No special action is required.

**Error Message** PMALLOC-3-MALLOC\_ENABLE\_CHECKER: Malloc enable checker failed in [chars]

**Explanation** In PMALLOC lib, process failed to turn on memory accesses.

**Recommended Action** No special action is required.

**Error Message** PMALLOC-3-MALLOC\_FAILURE: Malloc failure in [chars]

**Explanation** In PMALLOC lib, Malloc failed.

**Recommended Action** No special action is required.

**Error Message** PMALLOC-3-NOT\_ALLOCATED\_SM\_MALLOC\_STR: [chars] failed in [chars]

**Explanation** In PMALLOC lib, invalid memory block/excess block request.

**Recommended Action** No special action is required.

**Error Message** PMALLOC-3-SEGMENT\_NOT\_INIT: Segment 0x[hex] not initialized for memory checking

**Explanation** In PMALLOC lib, segment is not initialized for memory checking.

**Recommended Action** No special action is required.

**Error Message** PMALLOC-3-SM\_INIT\_CHECKING: [chars] failed in [chars]



**Explanation** In PMALLOC lib, function failed to initialized.

**Recommended Action** No special action is required.

## PMALLOC-6

**Error Message** PMALLOC-6-BLOCKED\_MEMSEG\_MUTEX: Blocked for memseg\_mutex

**Explanation** In PMALLOC lib, process is blocked for memseg\_mutex.

**Recommended Action** No special action is required.

**Error Message** PMALLOC-6-LARGE\_MEM: Large mem: shared [dec]

**Explanation** In PMALLOC lib, large memory requested.

**Recommended Action** No special action is required.

**Error Message** PMALLOC-6-MMAP\_SIZE: MMAP size is: [dec]

**Explanation** In PMALLOC lib, Memory map size.

**Recommended Action** No special action is required.

**Error Message** PMALLOC-6-SBRK\_FAILURE: sbrk failed in [chars]

**Explanation** In PMALLOC lib, return vlaue from MORECORE failed.

**Recommended Action** No special action is required.

## PM Messages

This section contains the PM messages.

### PM-2

**Error Message** PM-2-PTP\_INIT\_FAILURE: [chars]:[chars]

**Explanation** PM ptp initialization has failed

**Recommended Action** No special action is required.

**Error Message** PM-2-STARTUP\_FAILURE: Failed to [chars] during startup. error [dec]

**Explanation** A Critical operation has failed during startup of the PM process

**Recommended Action** No special action is required.

## PM-3

**Error Message** PM-3-API\_FAILED: External API failed ([chars])

**Explanation** External API failed

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-ARG\_ERR: Argument error ([chars]): [chars]

**Explanation** An argument to a PM call is invalid

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-CLNT\_FAILURE: Failed to [chars] from client

**Explanation** A PM client operation has failed

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-CPI\_ERR: [chars]

**Explanation** A failure occurred in the communication with the CPI

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-DUP\_REG\_ERR: [chars] is already registered with PM

**Explanation** A PM client tried to register more than once with PM

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-ERROR: Failed to [chars]

**Explanation** A Critical operation has failed in the PM process

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-ETH\_STUB\_ERR: [chars]

**Explanation** A failure occurred in the ethernet stub module

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-HA\_UPDATE: HA update failed ([dec])

**Explanation** HA update failed

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-IF\_INDEX: Invalid interface index received from [dec]

**Explanation** Invalid interface index received

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-INTERNAL\_ERROR: [chars]

**Explanation** An internal error has occurred in the PM process

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-IPC\_ERR: [chars]

**Explanation** A failure occurred while communicating with another process

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-MQ\_SEND: Failed to send message [chars] (err: [chars])

**Explanation** A message queue send operation failed

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-MSG\_TO\_TLV: TLV Conversion failed ([dec])

**Explanation** TLV conversion failed

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-MTS\_DROP: [chars]:Error returned from mts\_drop(), errno: [chars] opcode [dec]

**Explanation** PM called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** PM-3-MTS\_RECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** PM called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** PM-3-MTS\_SEND: Failed to send message [chars] (err: [chars])

**Explanation** PM called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** PM-3-NO\_MBUF: Failed to allocate mbuf [chars]

**Explanation** The PM process has run out of network buffers

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-NO\_MEM: Failed to allocate private memory for [chars]

**Explanation** The PM process has run out of private memory

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-PSS\_API\_INIT: Ksink pss API init failed ([dec])

**Explanation** Ksink pss API init failed

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-PSS\_REGISTER: PSS register failed ([dec])

**Explanation** PSS register failed

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-RP2RP\_ERR: [chars]

**Explanation** A failure occurred in the communication with the other RP

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-THR\_CREATE: Failed to create [chars] thread. error [dec]

**Explanation** A failure occurred while creating a thread

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-TLV\_TO\_STRUCT: TLV to Struct Conversion failed ([dec])

**Explanation** TLV to Struct conversion failed

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-UNK\_MSG\_MAJOR: Unrecognized message from [chars]. Major type [dec]

**Explanation** An unknown message (major) was received from another process

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-UNK\_MSG\_MINOR: Unrecognized message from [chars]. Minor type [dec]

**Explanation** An unknown message (minor) was received from another process

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-3-UNK\_MSG: Unrecognized message in [chars] thread. major type [dec], minor type [dec]

**Explanation** An unknown message was received from another process

**Recommended Action** Report the issue to Customer Support

## PM-5

**Error Message** PM-5-NOTICE: [chars]

**Explanation** An unexpected event has occurred

**Recommended Action** No special action is required.

## PM-6

**Error Message** PM-6-CLIENT\_GET: HA client filter recovery failed ([dec])

**Explanation** HA client filter recovery failed

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-6-IF\_INIT: Interface [chars] has been initialised

**Explanation** An interface has been initialised

**Recommended Action** No special action is required.

**Error Message** PM-6-IF\_MEMB\_GET: HA if-membership recovery failed ([dec])

**Explanation** HA if-membership recovery failed

**Recommended Action** Report the issue to Customer Support

**Error Message** PM-6-MSG: [chars]

**Explanation** A generic message to the user

**Recommended Action** No special action is required.

**Error Message** PM-6-MTS\_UNKNOWN\_MSG: Received unknown MTS message with opcode [dec], dropping it

**Explanation** PM received an unknown message. The message is dropped

**Recommended Action** No special action is required.

**Error Message** PM-6-VDC\_MEMB\_GET: HA vdc-membership recovery failed ([dec])

**Explanation** HA vdc-membership recovery failed

**Recommended Action** Report the issue to Customer Support

## PT Messages

This section contains the PT messages.

### PT-4

**Error Message** PT-4-PT\_WARNING: [chars]

**Explanation** Patricia Tree API warning

**Recommended Action** No special action is required.

## REGEX Messages

This section contains the REGEX messages.

### REGEX-3

**Error Message** REGEX-3-BACKSLASH: Trailing \\ error in [chars]

**Explanation** In REGEX lib, trailing backslash error.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-CORRPTD\_OPCODE: Corrupted opcode in [chars]

**Explanation** In REGEX lib, corrupted opcode.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-CORRPTD\_PGM: Corrupted program in [chars]

**Explanation** In REGEX lib, corrupted program.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-CORRPTD\_POINTERS: Corrupted pointers in [chars]

**Explanation** In REGEX lib, corrupted pointers.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-DMG\_REGEX: Damaged regexp fed to regsub in [chars]

**Explanation** In REGEX lib, damaged regexp fed to regsub.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-EXP\_T00\_BIG: Expression too big in [chars]

**Explanation** In REGEX lib, expression too big.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-INTERNAL\_URP: Internal urp in [chars]

**Explanation** In REGEX lib, internal urp error.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-INTR\_FOULUP: Internal foulup in [chars]

**Explanation** In REGEX lib, internal foulup.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-INVALID\_BRCKT\_RANGE: Invalid [] range in [chars]

**Explanation** In REGEX lib, invalid [] range.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-INVALID\_LENGTH: Invalid character position in [chars]

**Explanation** In REGEX lib, invalid character position.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-JUNK: Junk characters at the end in [chars]

**Explanation** In REGEX lib, junk characters at the end.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-MEMORY\_CORRUPTION: Memory corruption in [chars]

**Explanation** In REGEX lib, memory corruption.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-MEMORY\_ERR: Not enough memory in [chars]



**Explanation** In REGEX lib, not enough memory.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-NESTED\_SYMBOL: Nested \*?+ in [chars]

**Explanation** In REGEX lib, nested \*?+ symbols.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-NULL\_PARM\_REGSUB: NULL parameter to regsub in [chars]

**Explanation** In REGEX lib, NULL parameter to regsub.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-NULL\_PGM\_PARM: Null program parameter [chars]

**Explanation** In REGEX lib, null program parameter.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-NULL\_STR\_PARM: NULL string parameter in [chars]

**Explanation** In REGEX lib, null string parameter.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-OPND\_EMPTY: \*+ operand could be empty in [chars]

**Explanation** In REGEX lib, \*+ operand could be empty.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-PTTRN\_LONG: Pattern substitution too long in [chars]

**Explanation** In REGEX lib, pattern substitution too long.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-SYMBOL\_ERR: ?+\* follows nothing in [chars]

**Explanation** In REGEX lib, symbol error.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-TOO\_MANY\_PRNTHSIS: Too many paranthesis in [chars]

**Explanation** In REGEX lib, too many paranthesis.

**Recommended Action** No special action is required.

**Error Message** REGEX-3-UNMATCHED\_BRCKT: Unmatched [] in [chars]

**Explanation** In REGEX lib, unmatched [].

**Recommended Action** No special action is required.

**Error Message** REGEX-3-UNMATCHED\_PRNTHSIS: Unmatched paranthesis in [chars]

**Explanation** In REGEX lib, unmatched paranthesis.

**Recommended Action** No special action is required.

## RIP Messages

This section contains the RIP messages.

### RIP-2

**Error Message** RIP-2-STARTUP\_DEBUG: [chars]

**Explanation** A startup debug of rip process RIP process

**Recommended Action** No special action is required.

**Error Message** RIP-2-STARTUP\_FAILURE: Failed to [chars] during startup

**Explanation** A Critical operation has failed during startup of the RIP process

**Recommended Action** No special action is required.

### RIP-3

**Error Message** RIP-3-AUTH\_SEND\_FAILURE: [chars] [chars]

**Explanation** The RIP process failed to send a message to a neighbor

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-3-FAILURE: Failed to [chars]

**Explanation** A Critical operation has failed in the RIP process

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-3-GENERIC: [chars]

**Explanation** An error occurred

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-3-IM\_DEL: IOD in IM delete message for [chars] ([dec]) mismatches with RIP interface [hex] (iod [dec])

**Explanation** There is a mismatch of interface IODs in IM and RIP

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-3-INTERNAL\_ERROR: [chars]

**Explanation** An internal error has occurred in the RIP process

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-3-MQ\_RCVD: [chars] thread - message queue receive failure ([dec])

**Explanation** An error occurred while trying to receive a message from another process

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-3-MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** RIP called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** RIP-3-MTS\_RECV: Error returned from mts\_recv(), errno: [chars]

**Explanation** RIP called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** RIP-3-POLICY\_ERROR: [chars]

**Explanation** An error has occurred when processing policies

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-3-PROCESS\_STOP: Process shutting down: [chars]

**Explanation** RIP called a sysmgr API which returned an error.

**Recommended Action** No special action is required.

**Error Message** RIP-3-SEND\_FAILURE: Failed to send message. [chars]

**Explanation** The RIP process failed to send a message to a neighbor

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-3-SYSMGR\_CLEANUP: Error returned from  
sysmgrcb\_conditional\_srv\_cleanup\_status(): [dec]

**Explanation** RIP called a sysmgr API which returned an error.

**Recommended Action** No special action is required.

**Error Message** RIP-3-UNK\_MSG\_MAJOR: [chars] thread - Unrecognized message major type [dec]

**Explanation** An unknown message was received from another process

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-3-UNK\_MSG\_MINOR: [chars] thread - Unrecognized message minor type [dec]

**Explanation** An unknown message (minor) was received from another process

**Recommended Action** Report the issue to Customer Support

## RIP-4

**Error Message** RIP-4-IF\_DOWN\_OVERLOAD: Interface [chars] brought down due to overload condition  
for [chars] af

**Explanation** The interface has been brought down due to an overload condition

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-4-NO\_MEM: Failed to allocate private memory

**Explanation** The RIP process has run out of private memory

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-4-VALIDATE\_ENTRY: [chars]

**Explanation** A route entry in an incoming response packet is invalid

**Recommended Action** No special action is required.

**Error Message** RIP-4-VALIDATE\_SRC: [chars] [chars]

**Explanation** An incoming packet has failed validation

**Recommended Action** No special action is required.

## RIP-5

**Error Message** RIP-5-TOO\_BIG\_KEY\_SIZE: Authentication key [chars] is > 16 characters in keychain [chars]

**Explanation** Authentication key size is > 16 characters.

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-5-U6RIB\_API\_FAILURE: Failed to [chars] routes [chars] U6RIB

**Explanation** An API call to U6RIB has failed

**Recommended Action** Report the issue to Customer Support

**Error Message** RIP-5-URIB\_API\_FAILURE: Failed to [chars] routes [chars] URIB

**Explanation** An API call to URIB has failed

**Recommended Action** Report the issue to Customer Support

## RIP-6

**Error Message** RIP-6-MTS\_UNKNOWN\_MSG: Received unknown MTS message with opcode [dec], dropping it

**Explanation** RIP received an unknown message. The message is dropped

**Recommended Action** No special action is required.

**Error Message** RIP-6-SYSMAN\_CLEANUP: Terminated by SYSMAN cleanup signal

**Explanation** System Manager sent a cleanup signal to RIP to exit the process

**Recommended Action** No special action is required.

**Error Message** RIP-6-UNK\_DEB\_FLAG: Ignore unrecognized debug flag "[chars]"

**Explanation** An unknown command line debug option was entered

**Recommended Action** No special action is required.

## RPM Messages

This section contains the RPM messages.

### RPM-2

**Error Message** RPM-2-KEYCHAIN\_DECRYPT\_FAILED: There are few type6 keys that cannot be decrypted using new system key. Check 'show key chain detail' command to find those keys.

**Explanation** Failed to decrypt keystring with the current system key.

**Recommended Action** Remove type6 keystring and generate a new type6 with current system key.

**Error Message** RPM-2-LIB\_MALLOC\_FAILED: malloc() failed for allocating [chars] in [chars]()

**Explanation** RPM API library is out of heap memory

**Recommended Action** Reload the stack

**Error Message** RPM-2-MALLOC\_FAILED: malloc() failed for allocating [chars] in [chars]()

**Explanation** RPM process is out of heap memory

**Recommended Action** Reload the stack

**Error Message** RPM-2-PPF\_SES\_ABORT: PPF session abort failed in client [chars] with an error 0x[hex]([chars])

**Explanation** RPM encountered an error during PPF abort operation.

**Recommended Action** Reboot router

**Error Message** RPM-2-PPF\_SES\_COMMIT: PPF session commit failed in client [chars] with an error 0x[hex]([chars])

**Explanation** RPM encountered a serious error while committing the verified PBR policy changes to PBR clients

**Recommended Action** Reboot router

**Error Message** RPM-2-PPF\_SES\_RQST: PPF session request failed in client [chars] with an error 0x[hex]([chars])

**Explanation** RPM encountered an error while requesting PBR statistics from PBR clients

**Recommended Action** Report the issue to Customer Support

**Error Message** RPM-2-PPF\_SES\_VERIFY: PPF session verify failed in client [chars] with an error 0x[hex]([chars])

**Explanation** RPM encountered an error while pushing PBR policy changes during the verify stage to PBR clients

**Recommended Action** Report the issue to Customer Support

**Error Message** RPM-2-PSS\_SYNC\_BUFFER: Crossed pss sync buffer size limit of [dec] with payload size [dec] - in [chars]()

**Explanation** RPM tried to PSS sync a message exceeding the maximum allowed size

**Recommended Action** No special action is required.

**Error Message** RPM-2-PTHREAD: [chars] failed with error - [dec] in [chars]()

**Explanation** RPM\_UNEXPECTED\_EXPLANATION

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-2-SLAB\_ALLOC\_FAILED: slab\_alloc() failed for allocating [chars] in [chars]()

**Explanation** RPM process is out of shared memory. The number of policies/keychains configured has reached its maximum limit.

**Recommended Action** Delete unused policy/keychain configurations in order to free up shared memory.

**Error Message** RPM-2-SRV\_INIT\_API\_FAIL: [chars] failed during initialization in [chars]()

**Explanation** RPM called a server API during initialization which returned an error.

**Recommended Action** Reboot router

## RPM-3

**Error Message** RPM-3-API\_FAILED\_NUM: [chars] - failed for [dec] in [chars]()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.);

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-API\_FAILED\_STR\_NUM: [chars] - failed for [chars] [dec] in [chars]()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.);

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-API\_FAILED\_STR\_STR: [chars] - failed for [chars] [chars] in [chars]()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.);

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-API\_FAILED\_STR: [chars] - failed for [chars] in [chars]()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.);

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-API\_FAILED: [chars] - failed in [chars]()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.);



**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-BUILD\_LIC\_REQ: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

**Explanation** API failed to build a license request to recheckout a license.

**Recommended Action** Report the issue to Customer Support

**Error Message** RPM-3-INFRA\_SYSERR: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

**Explanation** RPM called an infra API which returned an error.

**Recommended Action** Report the issue to Customer Support

**Error Message** RPM-3-INT\_ERROR: [chars]

**Explanation** RPM encountered an error during internal processing

**Recommended Action** Report the issue to Customer Support

**Error Message** RPM-3-ISSU\_PREUPG\_FAILED: ISSU Preupgrade failed

**Explanation** Please remove the incompatible RPM/PBR config and restart ISSU.

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-LIB\_API\_FAILED\_NUM\_NUM: [chars] - failed for [dec] [dec] in [chars]()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.);

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-LIB\_API\_FAILED\_NUM: [chars] - failed for [dec] in [chars]()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.);

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-LIB\_API\_FAILED\_STR: [chars] - failed for [chars] in [chars]()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.);

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-LIB\_API\_FAILED: [chars] - failed in [chars]()

**Explanation** RPM invoked an API which failed. This is an unexpected but manageable event.);

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-LIB\_INT\_ERROR: [chars] in [chars]()

**Explanation** RPM API encountered an error during internal processing

**Recommended Action** Report the issue to Customer Support

**Error Message** RPM-3-LIB\_KEYCHAIN: Unexpected keychain result :[chars]

**Explanation** Unexpected result during RPM keychain API processing

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-LIB\_MTS\_SEND: Error returned from mts\_send(), errno: [chars] in [chars]()

**Explanation** An MTS API returned an error while RPM was sending an MTS message.

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-LIC\_CHECKIN\_FAILED: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

**Explanation** Licensing API failed to check in a license.

**Recommended Action** Report the issue to Customer Support

**Error Message** RPM-3-LIC\_CHECKOUT\_FAILED: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

**Explanation** Licensing API failed to check out a license.

**Recommended Action** Report the issue to Customer Support

**Error Message** RPM-3-LIC\_REG\_FAILED: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

**Explanation** Licensing API failed while registering for license change notifications.

**Recommended Action** Report the issue to Customer Support

**Error Message** RPM-3-LOAD\_PARSE\_TREE: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

**Explanation** API failed to load parse tree for PBR commands.

**Recommended Action** Report the issue to Customer Support

**Error Message** RPM-3-MTS\_DROP: Error returned from mts\_drop(), errno: [chars] (0x[hex]) in [chars]()

**Explanation** An MTS API returned an error when RPM tried to drop a message

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-MTS\_RECV: Error returned from tsp\_mts\_recv(), errno: [chars] (0x[hex]) in [chars]()

**Explanation** An MTS API returned an error while RPM was receiving on an MTS queue

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-MTS\_SEND: Error returned from mts\_send(), errno: [chars] (0x[hex]) in [chars]()

**Explanation** An MTS API returned an error while RPM was sending an MTS message

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-3-RPMLIB\_API\_TIMEOUT: [chars] - timed out in [chars]()

**Explanation** An API call from RPM timed

**Recommended Action** Requires operator to intervene

**Error Message** RPM-3-UNLOAD\_PARSE\_TREE: [chars] failed with error - [chars] (0x[hex]) - in [chars]()

**Explanation** API failed to unload parse tree for PBR commands.

**Recommended Action** Report the issue to Customer Support

## RPM-4

**Error Message** RPM-4-DELETED\_REF1: Deleted [chars] [chars] present in route-map:[chars] - review for possible routing impact

**Explanation** Deleted list referenced in route-map

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-4-DELETED\_REF2: Deleted [chars] [chars] present in [chars] - review for possible routing impact

**Explanation** Deleted route policy referenced in routing clients

**Recommended Action** Keep running, do nothing special

## RPM-6

**Error Message** RPM-6-INT\_TYPE6: [chars]

**Explanation** RPM process is not able to provide default type-6 key.

**Recommended Action** No special action is required.

**Error Message** RPM-6-LIB\_MATCH\_IGNORED: The command [chars] in seq. [dec] of route-map [chars] is ignored in [chars]()

**Explanation** A route-map match command has been ignored.

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-6-MTS\_UNKNOWN\_MSG: Received unknown MTS message with opcode [dec], dropping it in [chars]()

**Explanation** RPM received an unknown message. The message is dropped

**Recommended Action** Keep running, do nothing special

**Error Message** RPM-6-RESTART\_SHUTDOWN: RPM shutting self down via restart command in [chars]()

**Explanation** RPM process is shutting itself down due to the restart command.

**Recommended Action** No special action is required.

## SLAB\_LIB Messages

This section contains the SLAB\_LIB messages.

## SLAB\_LIB-2

**Error Message** SLAB\_LIB-2-SLAB\_ELEM\_ERR: Slab element Alloc PC: [hex], Element index: [dec]

**Explanation** An error occurred in a call to the slab library

**Recommended Action** No special action is required.

## SLAB\_LIB-3

**Error Message** SLAB\_LIB-3-SLAB\_ERR: Slab error [[chars]] in [chars]

**Explanation** An error occurred in a call to the slab library

**Recommended Action** No special action is required.

## SMM Messages

This section contains the SMM messages.

### SMM-0

**Error Message** SMM-0-SM\_CREATE\_ORIG\_VAL: [chars] with the [dec] value failed. Retrying with the lower value [dec] size

**Explanation** SMM could not create requested size, trying for a create for a lower size succeeded.

**Recommended Action** No special action is required.

**Error Message** SMM-0-SM\_RECREATE\_LOW\_VAL: Reallocate with new value [dec] bytes ([dec] MB) failed, but we were able to allocate a segment with a lower value.

**Explanation** SMM could not recreate requested size, but create for a lower size succeeded.

**Recommended Action** No special action is required.

### SMM-2

**Error Message** SMM-2-SAME\_REGION: Same region allocated on recreate request, from addr [hex] with size [dec]

**Explanation** A client requested for a new region to be created, but got the same region back.

**Recommended Action** No special action is required.

**Error Message** SMM-2-SM\_API\_FAILED: [chars] failed in [chars]() with error "[chars]" for SHM size [dec] bytes ([dec] MB). Trying to allocate shared memory with lower value now.

**Explanation** SMM could not recreate a shared-memory segment.

**Recommended Action** No special action is required.

### SMM-3

**Error Message** SMM-3-API\_FAILED: [chars] failed in [chars]

**Explanation** Component API call failed in SMM.

**Recommended Action** No special action is required.

**Error Message** SMM-3-API\_MTS\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** SMM failed using the MTS API.

**Recommended Action** No special action is required.

**Error Message** SMM-3-API\_SM\_FAILED: Could not allocate shared-memory segment. [chars] failed in [chars] with error [chars]

**Explanation** SMM process could not allocate shared-memory.

**Recommended Action** No special action is required.

**Error Message** SMM-3-BAD\_API\_PARAM: [chars] API failed because [chars]

**Explanation** Illegal arguments were provided for an SMM API

**Recommended Action** Restart component

**Error Message** SMM-3-BAD\_SEG\_TYPE: SMM API [chars] failed for [chars], [chars] shared memory segment expected

**Explanation** Incorrect SMM API called for the type (static/dynamic) shared memory segment

**Recommended Action** No special action is required.

**Error Message** SMM-3-FTRUNCATE\_FAILED: [chars] failed in [chars] with error [chars]

**Explanation** SMM could not truncate process memory segment.

**Recommended Action** No special action is required.

**Error Message** SMM-3-GETRLIMIT\_FAILED: Getrlimit failed in [chars], reason [chars]

**Explanation** SMM API could not set memory resource limit for a client

**Recommended Action** Restart component

**Error Message** SMM-3-GET\_SHM\_INFO\_FAILED: Failed to get SHM info in function [chars] with error: [chars]

**Explanation** Failed to get SHM information.

**Recommended Action** No special action is required.

**Error Message** SMM-3-HA\_FAILED: SMM HA:[chars]

**Explanation** SMM process restart recovery has succeeded / failed.

**Recommended Action** No special action is required.

**Error Message** SMM-3-INVALID\_STEP\_SIZE: [chars]: Invalid step sizes specified for dynamic SHM, incr size: [dec], decr\_size: [dec]

**Explanation** Illegal arguments were provided for an SMM API

**Recommended Action** Restart component

**Error Message** SMM-3-LSEEK\_FAILED: Failed to seek to offset [dec] for file [chars]

**Explanation** Lseek operation on a shared memory file failed

**Recommended Action** No special action is required.

**Error Message** SMM-3-MALLOC\_FAILED: [chars] failed in [chars]

**Explanation** SMM process is out of free memory.

**Recommended Action** No special action is required.

**Error Message** SMM-3-MEMORY\_API\_ERROR: [chars] failed in [chars] with error [chars]

**Explanation** Memory API failed.

**Recommended Action** No special action is required.

**Error Message** SMM-3-MMAP\_FAILED: [chars] failed in [chars] with error [chars] for segment [chars]. Requested map from [hex] for size [dec]

**Explanation** MMAP failed.

**Recommended Action** No special action is required.

**Error Message** SMM-3-MQ\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** SMM failed to access message-queue resource.

**Recommended Action** No special action is required.

**Error Message** SMM-3-MTS\_DROP: Error returned from mts\_drop()

**Explanation** SMM called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** SMM-3-MTS\_FAILED: [chars] failed in [chars], errno: [chars]

**Explanation** SMM failed using the MTS API.

**Recommended Action** No special action is required.

**Error Message** SMM-3-MTS\_RECV: Error returned from mts\_recv()

**Explanation** SMM called a MTS API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** SMM-3-NO\_REGION: No corresponding region found for segment [chars]

**Explanation** SMM library could not find a the region data structure which corresponds to each shared memory segment

**Recommended Action** No special action is required.



**Error Message** SMM-3-PSS\_REPORT: SMM HA:[chars]

**Explanation** Persistent DB reports for SMM.

**Recommended Action** No special action is required.

**Error Message** SMM-3-PTHREAD\_FAILED: [chars] failed for [chars] in [chars]

**Explanation** SMM process failed to create a task thread.

**Recommended Action** Dump core, then reload the stack

**Error Message** SMM-3-REFCOUNT\_ERR: [chars]: Refcount of shared memory segment [chars] is [dec], expected refcount [dec]

**Explanation** There are more/less readers of the same shared memory segment than expected for the API to succeed

**Recommended Action** No special action is required.

**Error Message** SMM-3-REGION\_FAILED: Failed to create SMM region [chars]

**Explanation** SMM API failed in [chars] to create a region [chars] for the shared memory this client is trying to open.

**Recommended Action** Restart component

**Error Message** SMM-3-SETRLIMIT\_FAILED: Address space size increment of [dec] failed in [chars], reason [chars]

**Explanation** SMM API could not set memory resource limit for a client

**Recommended Action** No special action is required.

**Error Message** SMM-3-SHM\_CLEANUP\_FAILED: Failed to cleanup SHM info for [chars] in [chars] with error: [chars]

**Explanation** Failed to cleanup shared memory for recreate API

**Recommended Action** No special action is required.

**Error Message** SMM-3-SMM\_API\_FAILED: [chars] failed in [chars]

**Explanation** Component API call failed in SMM.

**Recommended Action** No special action is required.

**Error Message** SMM-3-SM\_CREATE\_FAILED: Failed to create [chars] shared memory segment [chars] of size [dec] (max [dec])

**Explanation** SMM failed to create a shared memory segment.

**Recommended Action** Restart component

**Error Message** SMM-3-SM\_FAILED: Could not allocate shared-memory segment

**Explanation** SMM process could not allocate shared-memory.

**Recommended Action** No special action is required.

**Error Message** SMM-3-SM\_GET\_NEW\_REGION\_FAILED: Failed to get shared memory region for [chars] of size [dec]

**Explanation** SMM failed to get a new region of the requested size

**Recommended Action** Restart component

**Error Message** SMM-3-SM\_INFO\_FOR\_SMM: Received request [chars] for SMM's segment, unexpected

**Explanation** SMM received a request to open its own shared memory segment

**Recommended Action** No special action is required.

**Error Message** SMM-3-SM\_OPEN\_FAILED: [chars] failed in [chars] with error [chars]

**Explanation** SMM could not open a shared-memory segment.

**Recommended Action** No special action is required.

**Error Message** SMM-3-SYSMGR\_DISPATCH: Error returned from sysmgr\_dispatch()

**Explanation** SMM called a System Manager API which returned an error.

**Recommended Action** Dump core, then restart component

**Error Message** SMM-3-TIMER\_FAILED: active\_timer\_create() failed in [chars] for [chars] timer

**Explanation** SMM failed to initialize timer resource.

**Recommended Action** Dump core, then restart component

**Error Message** SMM-3-TIMER\_SET\_INIT: Couldn't init [chars] active timer set

**Explanation** SMM failed to initialize timer resource.

**Recommended Action** Dump core, then restart component

**Error Message** SMM-3-UNKNOWN\_SMM\_MTYPE: Unknown [chars] in mtype: [dec]/[dec] (major/minor) in [chars]

**Explanation** SMM process received unknown Interprocess message, dropped.

**Recommended Action** No special action is required.

## SMM-5

**Error Message** SMM-5-UNKNOWN\_OPC: Unknown MTS opcode [dec] in [chars]

**Explanation** UNEXPECTED\_EXPLANANTION

**Recommended Action** No special action is required.

## SMM-6

**Error Message** SMM-6-SUP\_SWITCHOVER: Received [chars] SUP switchover message.

**Explanation** Events related to changing SUP state from standby to active.

**Recommended Action** No special action is required.

**Error Message** SMM-6-SUP\_SWOVER\_DONE: [chars]

**Explanation** Events related to changing SUP state from standby to active.

**Recommended Action** No special action is required.

## SYSLOG Messages

This section contains the SYSLOG messages.

## **SYSLOG-0**

**Error Message** SYSLOG-0-SL\_MSG\_EMERG: [chars]

**Explanation** Syslog API Emergency

**Recommended Action** No special action is required.

## **SYSLOG-1**

**Error Message** SYSLOG-1-SL\_MSG\_ALERT: [chars]

**Explanation** Syslog API Alert

**Recommended Action** No special action is required.

## **SYSLOG-2**

**Error Message** SYSLOG-2-DT\_TEST\_LIB: Test Syslog library facility: [chars]

**Explanation** Test

**Recommended Action** No special action is required.

**Error Message** SYSLOG-2-DT\_TEST: Test Syslog facility: [chars]

**Explanation** Test

**Recommended Action** No special action is required.

**Error Message** SYSLOG-2-SL\_MSG\_CRIT: [chars]

**Explanation** Syslog API Critical

**Recommended Action** No special action is required.

## **SYSLOG-3**

**Error Message** SYSLOG-3-NOTSET: Trying to print uninitialized error message

**Explanation** An internal software error occurred.

**Recommended Action** Contact your support channel.

**Error Message** SYSLOG-3-SL\_MSG\_ERR: [chars]

**Explanation** Syslog API Error

**Recommended Action** No special action is required.

**Error Message** SYSLOG-3-TOOLONG: Error message too long: [chars]

**Explanation** An internal software error occurred.

**Recommended Action** Contact your support channel.

**Error Message** SYSLOG-3-UNKNOWN: Unknown facility/severity: [hex]

**Explanation** An internal software error occurred.

**Recommended Action** Contact your support channel.

## **SYSLOG-4**

**Error Message** SYSLOG-4-SL\_MSG\_WARNING: [chars]

**Explanation** Syslog API Warning

**Recommended Action** No special action is required.

## **SYSLOG-5**

**Error Message** SYSLOG-5-SL\_MSG\_NOTICE: [chars]

**Explanation** Syslog API Notice

**Recommended Action** No special action is required.

## **SYSLOG-6**

**Error Message** SYSLOG-6-SL\_MSG\_INFO: [chars]

**Explanation** Syslog API Info

**Recommended Action** No special action is required.

## **SYSLOG-7**

**Error Message** SYSLOG-7-SL\_MSG\_DEBUG: [chars]

**Explanation** Syslog API Debug

**Recommended Action** No special action is required.

## **SYSWRAP\_LIB Messages**

This section contains the SYSWRAP\_LIB messages.

### **SYSWRAP\_LIB-2**

**Error Message** SYSWRAP\_LIB-2-SYSWRAP\_ERR: Error condition in stack: [chars] tid=[dec]: [hex] bytes left on stack of [hex] bytes

**Explanation** An error occurred in a call to the syswrap library

**Recommended Action** No special action is required.

## **TCP Messages**

This section contains the TCP messages.

### **TCP-2**

**Error Message** TCP-2-APICLOSE: [chars]: Unable to close [chars] API

**Explanation** Can't close api

**Recommended Action** Reload the stack

**Error Message** TCP-2-APIINIT: [chars]: Unable to initialize [chars] API

**Explanation** Can't init api

**Recommended Action** Reload the stack

**Error Message** TCP-2-ATTACH: [chars]: Unable to attach to [chars]

**Explanation** Can't attach shared memory

**Recommended Action** Reload the stack

**Error Message** TCP-2-CLIENT\_RECOVERY\_FAILED: [chars]: Client recovery [chars] failed. Please restart process [chars].

**Explanation** Client recovery failed

**Recommended Action** Restart component

**Error Message** TCP-2-CLI\_CONFCHECK\_ADD: TCP MSS capability add failed.

**Explanation** Ip tcp mss command failed

**Recommended Action** No special action is required.

**Error Message** TCP-2-CLI\_CONFCHECK\_DELETE: TCP MSS capability delete failed.

**Explanation** No ip tcp mss command failed

**Recommended Action** No special action is required.

**Error Message** TCP-2-COND\_DESTROY: [chars]: pthread\_cond\_destroy failed, error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-COND\_INIT: [chars]: pthread\_cond\_init failed, error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-COND\_WAIT: [chars]: pthread\_cond\_wait failed, error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-DEREGISTER: [chars]: Unable to deregister to [chars]

**Explanation** Can't deregister with component

**Recommended Action** Reload the stack

**Error Message** TCP-2-ENQUEUE: [chars]: Unable to enqueue [chars] to [chars]

**Explanation** Can't insert client structure in client list

**Recommended Action** Restart component

**Error Message** TCP-2-LARGE\_PKT: [chars]: Packet size greater than 65535 bytes, len [dec]

**Explanation** Packet size greater than 65535 bytes

**Recommended Action** Restart component

**Error Message** TCP-2-MGETHDR: [chars]: MGETHDR failed, error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-MISMATCH\_LEN: [chars]: Mismatch in mbuf len ([dec]) and IP len ([dec])

**Explanation** Mismatch in mbuf len and IP len

**Recommended Action** Restart component

**Error Message** TCP-2-MPREPEND: [chars]: m\_prepend failed for connection, L: [chars].[dec], F: [chars].[dec], error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-MPULLUP: [chars]: m\_pullup failed for [chars], error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-MTS\_BIND: [chars]: Unable to bind to [chars] mts queue: [chars]

**Explanation** TCP called a MTS API which returned an error.



**Recommended Action** Reload the stack

**Error Message** TCP-2-MUTEX\_DESTROY: [chars]: pthread\_mutex\_destroy failed, error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-MUTEX\_INIT: [chars]: pthread\_mutex\_init failed, error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-MUTEX\_LOCK: [chars]: pthread\_mutex\_lock failed, error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-MUTEX\_TRYLOCK: [chars]: pthread\_mutex\_trylock failed, error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-MUTEX\_UNLOCK: [chars]: pthread\_mutex\_unlock failed, error [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-PANIC: [chars]: PANIC: [chars]

**Explanation** Internal TCP error

**Recommended Action** Reload the stack

**Error Message** TCP-2-PTHREAD: [chars]: procket\_pthread\_create failed for [chars]: error [dec]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-2-REGISTER: [chars]: [chars] failed

**Explanation** Can't register with component

**Recommended Action** Reload the stack

**Error Message** TCP-2-SETSCHED: [chars]: Could not set scheduling or priority

**Explanation** Could not set scheduling or priority

**Recommended Action** Reload the stack

**Error Message** TCP-2-SOOPEN: socket open failed, errno [dec]

**Explanation** Socket open failed

**Recommended Action** No special action is required.

**Error Message** TCP-2-TSP\_INIT: [chars]: Could not initialize tsp locking library

**Explanation** Could not initialize locking library

**Recommended Action** Reload the stack

## TCP-3

**Error Message** TCP-3-ALLOC: Error returned from calloc(), errno: [chars]

**Explanation** TCP called a calloc API which returned an error.

**Recommended Action** No special action is required.

**Error Message** TCP-3-BADSIG: [chars]: Should not have received signal [dec]

**Explanation** Unexpected signal

**Recommended Action** No special action is required.

**Error Message** TCP-3-CLIENT\_DELETE: [chars]: Could not delete client "[chars]" pid [dec] error [chars]

**Explanation** Can't delete client from clients list

**Recommended Action** Restart component

**Error Message** TCP-3-CLIENT\_NULL: [chars]: Client struct for pid [dec] not found

**Explanation** Can't find client for pid

**Recommended Action** Restart component

**Error Message** TCP-3-DOMAININIT: [chars]: domaininit: [chars] sw[[dec]] has no usrreqs

**Explanation** Bkoken domain structure

**Recommended Action** Restart component

**Error Message** TCP-3-FORK\_ERROR: [chars]: Parent of the forked child did not create state for child [dec]:[dec]

**Explanation** Parent process did not create state necessary for child process registration

**Recommended Action** Report the issue to Customer Support

**Error Message** TCP-3-INVALIDPARAM: [chars]: Invalid [chars]

**Explanation** Invalid parameter

**Recommended Action** Restart component

**Error Message** TCP-3-IP\_PROT\_UNKNOWN: [chars]: Unknown protocol in IP message [dec]

**Explanation** IP sent a packet with unknown protocol ID

**Recommended Action** Restart component

**Error Message** TCP-3-MBUF\_COPY: [chars]: Unable to do m\_copyback

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-3-MSG\_MAJOR\_UNKNOWN: [chars]: Unknown message major [dec], minor [dec]

**Explanation** Unknown major type

**Recommended Action** Restart component

**Error Message** TCP-3-MSG\_MINOR\_UNKNOWN: [chars]: Unknown minor message type [dec] from [chars]

**Explanation** Unknown minor type

**Recommended Action** Restart component

**Error Message** TCP-3-MTS\_RESPOND: Error returned from mts\_send\_response(), errno: [chars]

**Explanation** TCP called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** TCP-3-NOMBUF: [chars]: Unable to get mbuf

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-3-NOMEM: [chars]: malloc failed for: [chars]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-3-PROCTERM\_NOTIFY: [chars]: Termination notification request failed for pid [dec]

**Explanation** Request for process termination notification has failed. This could lead to TCP memory leak over period of time

**Recommended Action** Report the issue to Customer Support

**Error Message** TCP-3-SM\_CREATE: [chars]: Shared memory "[chars]" create failed, error [dec]

**Explanation** No system resources

**Recommended Action** Reload the stack

**Error Message** TCP-3-SOCKET\_COLL\_FOUND: [chars]: Socket collision found for client: "[chars]", pid [dec]

**Explanation** Two clients selected on the same socket

**Recommended Action** No special action is required.

**Error Message** TCP-3-SOCKET\_COLL: [chars]: Socket collision, old client: "[chars]", pid: [dec], new client: "[chars]", pid: [dec]

**Explanation** Two clients selected on the same socket

**Recommended Action** No special action is required.

**Error Message** TCP-3-SOCREATE: [chars]: socreate create failed for client "[chars]" pid [dec]  
error [chars]

**Explanation** Can't create socket. See errno for details Reload software if no memory.

**Recommended Action** Restart component

**Error Message** TCP-3-TCP\_MD5\_AUTH\_FAILURE: [chars]:Dropping packets from  
src:[chars].[dec],dst:[chars].[dec]

**Explanation** TCP recieved packet which fails authentication. The packet is dropped

**Recommended Action** No special action is required.

**Error Message** TCP-3-TCP\_MD5\_ERROR: [chars]:[chars]

**Explanation** General MD5 error messages

**Recommended Action** No special action is required.

**Error Message** TCP-3-TCP\_MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** TCP called a MTS API which returned an error.

**Recommended Action** No special action is required.

**Error Message** TCP-3-TCP\_MTS\_RECV: [chars]: mts\_recv() failed on [chars] queue: [chars]

**Explanation** TCP called a MTS API which returned an error.

**Recommended Action** Reload the stack

**Error Message** TCP-3-TCP\_STRUCT\_TO\_TLV: Structure to TLV failed, errno: [chars]

**Explanation** TLV conversion failed

**Recommended Action** No special action is required.

**Error Message** TCP-3-TCP\_TLV\_TO\_STRUCT: Structure to TLV failed, errno: [chars]

**Explanation** TLV conversion failed

**Recommended Action** No special action is required.

**Error Message** TCP-3-TIMER\_CANCEL: [chars]: Timer cancel failed for [chars]

**Explanation** No system resources

**Recommended Action** Restart component

**Error Message** TCP-3-TIMER\_CREATE: [chars]: Timer create failed for [chars]

**Explanation** No system resources

**Recommended Action** Restart component

**Error Message** TCP-3-TIMER\_INIT: [chars]: Timer init failed

**Explanation** No system resources

**Recommended Action** Restart component

**Error Message** TCP-3-TIMER\_START: [chars]: Timer start failed for [chars]

**Explanation** No system resources

**Recommended Action** Restart component

## TCP-4

**Error Message** TCP-4-TCP\_MD5\_KEYCHAIN\_WARNING: Unsupported keychain crypto algorithm [chars] configured for client:[chars]. Falling back to MD5 as default crypto.

**Explanation** General MD5 warning messages

**Recommended Action** No special action is required.

## TCP-6

**Error Message** TCP-6-EXISTS: [chars]: Child Exists: [dec], ppid [dec]

**Explanation** Child already registered

**Recommended Action** Report the issue to Customer Support

**Error Message** TCP-6-NOT\_FOUND: [chars]: Parent not found: [dec], cpid [dec]

**Explanation** Parent process not found

**Recommended Action** Report the issue to Customer Support

**Error Message** TCP-6-TCP\_MTS\_UNKNOWN\_MSG: Received unknown MTS message with opcode [dec], dropping it

**Explanation** TCP received an unknown MTS message. The message is dropped

**Recommended Action** No special action is required.

## TSP Messages

This section contains the TSP messages.

### TSP-3

**Error Message** TSP-3-COND\_SIGNAL\_FAIL: pthread\_cond\_signal() failed: [chars]

**Explanation** Pthread library call failed.

**Recommended Action** No special action is required.

**Error Message** TSP-3-COND\_WAIT\_FAIL: pthread\_cond\_wait() failed: [chars]

**Explanation** Pthread library call failed.

**Recommended Action** No special action is required.

**Error Message** TSP-3-INIT\_PROC: [chars][chars]

**Explanation** Failed to init process with TSP.

**Recommended Action** No special action is required.

**Error Message** TSP-3-INIT\_THREAD: [chars][chars]

**Explanation** Failed to init thread with TSP.

**Recommended Action** No special action is required.

**Error Message** TSP-3-INVALID\_THREAD\_ID: Invalid thread id: [dec]

**Explanation** Invalid thread id.

**Recommended Action** No special action is required.

**Error Message** TSP-3-LOCK\_MODE\_CONFLICT: Lock mode conflict

**Explanation** Lock R/W mode conflct.

**Recommended Action** No special action is required.

**Error Message** TSP-3-LOCK\_RELEASE\_ORDER: Lock release out of order

**Explanation** Releasing locks out of order.

**Recommended Action** No special action is required.

**Error Message** TSP-3-LOCK\_STACK\_EMPTY: Lock stack empty

**Explanation** Lock stack is empty.

**Recommended Action** No special action is required.

**Error Message** TSP-3-LOCK\_STACK\_FULL: Lock stack full

**Explanation** Lock stack is full.

**Recommended Action** No special action is required.

**Error Message** TSP-3-MUTEX\_LOCK\_FAIL: pthread\_mutex\_lock() failed: [chars]

**Explanation** Failed to lock mutex.

**Recommended Action** No special action is required.

**Error Message** TSP-3-MUTEX\_UNLOCK\_FAIL: pthread\_mutex\_unlock() failed: [chars]

**Explanation** Failed to unlock mutex.

**Recommended Action** No special action is required.



**Error Message** TSP-3-RWSEM\_CREATE\_FAIL: rwsem\_create(sap=[dec], flags=[hex]) err [hex] - [chars]

**Explanation** Failed to create rwsem.

**Recommended Action** No special action is required.

**Error Message** TSP-3-RWSEM\_DELETE\_FAIL: rwsem\_lib\_delete\_owner(vdc=[dec], uuid=[dec], tid=[dec]) err [hex]

**Explanation** Failed to delete rwsem owner.

**Recommended Action** No special action is required.

**Error Message** TSP-3-RWSEM\_HAVE\_LOCK\_FAIL: rwsem\_have\_lock(sap=[dec], flags=[hex]) err [hex] - [chars]

**Explanation** Failed to query rwsem status.

**Recommended Action** No special action is required.

**Error Message** TSP-3-RWSEM\_INIT\_FAIL: rwsem\_lib\_init(vdc=[dec], uuid=[dec], tid=[dec]) err [hex] - [chars]

**Explanation** Failed to initialize rwsem.

**Recommended Action** No special action is required.

**Error Message** TSP-3-RWSEM\_LOCK\_FAIL: rwsem\_lock\_no\_sig([chars] SAP [dec]) failed: [chars]

**Explanation** Failed to lock rwsem.

**Recommended Action** No special action is required.

**Error Message** TSP-3-RWSEM\_UNLOCK\_FAIL: rwsem\_unlock([chars] SAP [dec]) failed: [chars]

**Explanation** Failed to unlock rwsem.

**Recommended Action** No special action is required.

## TSP-6

**Error Message** TSP-6-SUTIME\_BACKWARDS: Getrusage s/utime went backwards [dec].[dec] -> [dec].[dec]

**Explanation** CPU usage counters went backwards

**Recommended Action** No special action is required.

## TSP-7

**Error Message** TSP-7-INVALID\_LOCK\_INDEX: Invalid lock index: [dec]

**Explanation** Lock index is invalid.

**Recommended Action** No special action is required.

**Error Message** TSP-7-LOCK\_MAX\_COUNT: Lock max reached

**Explanation** Lock max for process.

**Recommended Action** No special action is required.

## TX Messages

This section contains the TX messages.

### TX-3

**Error Message** TX-3-TXLIST\_ERROR: [chars]

**Explanation** TXLIST API returned an error.

**Recommended Action** No special action is required.

**Error Message** TX-3-TXLIST\_PERROR: [chars]

**Explanation** TXLIST API returned a perror.

**Recommended Action** No special action is required.

**Error Message** TX-3-TXTHREAD\_ERROR: [chars]

**Explanation** TXTHREAD API returned an error.

**Recommended Action** No special action is required.

**Error Message** TX-3-TXTHREAD\_PERROR: [chars]

**Explanation** TXTHREAD API returned a perror.

**Recommended Action** No special action is required.

## U6RIB Messages

This section contains the U6RIB messages.

### U6RIB-2

**Error Message** U6RIB-2-API\_INIT\_SEM: Failed to init the API semaphore: open: [chars], create: [chars]

**Explanation** U6RIB could not create the semaphore that protects access to the shared memory between U6RIB and its clients.

**Recommended Action** Reload the stack

**Error Message** U6RIB-2-NOPMEM: Failed to allocate private memory for [chars]

**Explanation** U6RIB has run out of private memory. This condition can be caused by a temporary increase in the number of routes in the network, or a general network or router misconfiguration.

**Recommended Action** Configure the network or router to decrease the number of routes, or add additional memory to the router.

**Error Message** U6RIB-2-NOSIDMEM: Failed to allocate shared memory for [chars]

**Explanation** SID Manager has run out of shared memory.

**Recommended Action** Reload the stack

**Error Message** U6RIB-2-NOSMEM: Failed to allocate shared memory for [chars]. U6RIB has run out of shared memory

**Explanation** U6RIB has run out of shared memory to store routes. This can be caused by a temporary increase of the number of routes in the network, or a general network or router misconfiguration.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** U6RIB-2-RES\_MGR: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** The resource manager returned an error to U6RIB, while U6RIB was performing an action relating to its shared memory

**Recommended Action** Reload the stack

**Error Message** U6RIB-2-STARTUP\_FAILURE: Startup failure: [chars]

**Explanation** An unrecoverable software error has occurred during u6rib startup.

**Recommended Action** Reload the stack

**Error Message** U6RIB-2-TIMER\_LIB: [chars] [chars]

**Explanation** The timer library returned an error, causing an unrecoverable problem for U6RIB.

**Recommended Action** Reload the stack

**Error Message** U6RIB-2-TOO\_MANY\_CLIENTS: [chars] client "[chars]"

**Explanation** U6RIB cannot add this client because the U6RIB client limit has already been reached.

**Recommended Action** Kill component and don't restart it

## U6RIB-3

**Error Message** U6RIB-3-ADD\_ERROR: Client "[chars]" could not add [chars]/[dec] to the [chars]

**Explanation** A severe error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** U6RIB-3-ADD\_PATH: [chars]: could not add path [chars]/[dec] via [chars] for client "[chars]".

**Explanation** A route add operation has failed for the given client. There may be a previous error message that further explains the problem.

**Recommended Action** No special action is required.

**Error Message** U6RIB-3-ADD\_RPATH: Client "[chars]" added [chars]/[dec] via not found rnh [chars]/[dec]%[chars]

**Explanation** A route add operation has failed for the given client. This may be a transient error.

**Recommended Action** Report the issue to Customer Support

**Error Message** U6RIB-3-ADD\_TPATH\_ROUTE: Client "[chars]" added [chars]/[dec]#[chars]

**Explanation** A route add operation has failed for the given client. This was because the route could not be found. This may be a transient error.

**Recommended Action** Report the issue to Customer Support

**Error Message** U6RIB-3-ADD\_TPATH: Client "[chars]" added [chars]/[dec] via tableid 0x[hex] : [chars]

**Explanation** A route add operation has failed for the given client. This was because the tableid could not be found. This may be a transient error.

**Recommended Action** Report the issue to Customer Support

**Error Message** U6RIB-3-ASSERT\_ERROR: [chars]:[dec]: Assertion "[chars]" failed.

**Explanation** An internal software error has occurred. An assertion held to be true failed.

**Recommended Action** Report the issue to Customer Support

**Error Message** U6RIB-3-AVLADD\_ERROR: Could not add [chars] (0x[hex]) to the [chars] avl

**Explanation** U6RIB was unable to add a piece of data to an AVL data structure.

**Recommended Action** Reload the stack

**Error Message** U6RIB-3-AVLINIT\_ERROR: Could not init [chars] avl for VRF [chars]

**Explanation** U6RIB was unable to correctly initialise an AVL data structure.

**Recommended Action** Reload the stack

**Error Message** U6RIB-3-CMI\_MTSEND\_FAILURE: mts\_send failure for client [chars]: [chars]

**Explanation** U6RIB was unable to send MTS message to a particular client

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** U6RIB-3-CMI\_PAYLOAD\_CONV\_ERR: CMI payload conversion error failure from [chars] order to [chars] order

**Explanation** The cmi payload conversion did not occur successfully.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-3-ECMP\_LDSHR: [chars]

**Explanation** Error related to ECMP load-share configuration which will affect load-sharing for software-switched packets. If parity between hardware and software switching is important, perform a switchover.

**Recommended Action** Requires operator to intervene

**Error Message** U6RIB-3-GET\_INSTANCE\_ERROR: instance not found for client "[chars]" in VRF [chars]

**Explanation** U6RIB could not find its data structures for a client in the shown VRF. The shown VRF should be reconfigured in the client. i.e. in router sub-mode configuration, 'no vrf '

**Recommended Action** Requires operator to intervene

**Error Message** U6RIB-3-HTADD\_ERROR: Could not add [chars] to the [chars] hash table

**Explanation** A severe hash table error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** U6RIB-3-IM\_INTF\_SET: Failed to set ifindex [dec] in cache

**Explanation** U6rib failed to update cached interface index.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-3-IM\_ITER: Cannot initialize IM iterator after getting interface down message (err=[dec], [chars])

**Explanation** U6rib failed to update cached interface index.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-3-INCONSISTENT\_RNH: [chars]: [chars]/[dec]

**Explanation**

**Recommended Action** No special action is required.

**Error Message** U6RIB-3-INCONSISTENT\_ROUTE: [chars]: [chars]/[dec] via [chars]

**Explanation**

**Recommended Action** No special action is required.

**Error Message** U6RIB-3-INCONSISTENT\_STRUCTURE: [chars]

**Explanation** Unexpected remaining state during RIB cleanup

**Recommended Action** No special action is required.

**Error Message** U6RIB-3-INCONSISTENT\_SUMMARY: [chars]: routes [dec], rnh's [dec]

**Explanation** Unexpected remaining state for client during RIB cleanup, see following for state:  
'show routing ipv6 unicast internal event-history errors'

**Recommended Action** No special action is required.

**Error Message** U6RIB-3-INSTANCE\_CREATE\_ERROR: Failed to create routing instance info for client "[chars]", VRF [chars]

**Explanation** U6RIB could not create its data structures for a client in the shown VRF. There may be further errors to indicate the failure in more detail. The shown VRF should be reconfigured in the client. i.e. in router sub-mode configuration, 'no vrf '

**Recommended Action** Requires operator to intervene

**Error Message** U6RIB-3-KSINK\_LIB\_ERROR: [chars] [chars]

**Explanation** A severe error was encountered during ksink operations. The system may run into more errors because of this problem.

**Recommended Action** No special action is required.

**Error Message** U6RIB-3-MOD\_ERROR: Client "[chars]" requested modify route for [chars]/[dec]: [chars]

**Explanation** The named client sent a modify route request, which generated the shown error.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-3-MORE\_INFO\_ERROR: Client "[chars]": table-id 0x[hex] [chars]

**Explanation** This error provides further information about the previous error. Action should be taken

depending on the previous error logged.

**Recommended Action** No special action is required.

**Error Message** U6RIB-3-MORE\_MTS\_INFO\_ERROR: source SAP is: [dec] dest SAP is: [dec]

**Explanation** This error provides further information about the previous MTS error. Action should be taken depending on the previous error logged.

**Recommended Action** No special action is required.

**Error Message** U6RIB-3-MTS\_BIND: mts\_bind failed for [chars]: [chars]

**Explanation** U6RIB was unable to bind to an MTS queue SAP.

**Recommended Action** Reload the stack

**Error Message** U6RIB-3-MTS\_DEREGISTER: mts\_deregister failed for u6rib: [chars]

**Explanation** U6RIB was unable to deregister client from U6RIB notifications, causing an unrecoverable error.

**Recommended Action** Restart component

**Error Message** U6RIB-3-MTS\_DROP: Error returned from mts\_drop(), errno: [chars]

**Explanation** An MTS API returned an error when U6RIB tried to drop a message.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-3-MTS\_NO\_PAYLOAD\_ERROR: Received MTS message with no payload on [chars] queue with opcode [dec], dropping it

**Explanation** U6RIB recieved an unknown message. The message is dropped

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-3-MTS\_OPTIONS: MTS option set failed for opcode [chars]: [chars] ([dec])

**Explanation** U6RIB was unable to set options for an MTS opcode

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** U6RIB-3-MTS\_RECV: Error returned from mts\_recv([chars]), errno: [chars]



**Explanation** An MTS API returned an error while U6RIB was receiving on an MTS queue.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-3-MTS\_REGISTER: mts\_register failed for u6rib: [chars]

**Explanation** U6RIB was unable to register client for U6RIB notifications, causing an unrecoverable error.

**Recommended Action** Restart component

**Error Message** U6RIB-3-NOT\_INIT\_L3VM\_ERROR: L3VM info for table id 0x[hex] from client "[chars]" not available - U6RIB not initialised with L3VM.

**Explanation** A client tried to add some information to the U6RIB, before U6RIB has registered for table information. The client should be restarted.

**Recommended Action** Restart component

**Error Message** U6RIB-3-NO\_L3VM\_INFO\_ERROR: no L3VM info for table id 0x[hex] from client "[chars]" - unknown to L3VM

**Explanation** A client tried to add some information to U6RIB, and provided a Table-Id that is unknown in the system. The client should be restarted.

**Recommended Action** Restart component

**Error Message** U6RIB-3-NO\_L3VM\_LIMITS: Could not get routing table limits from L3VM

**Explanation** U6RIB could not pull the routing limits for the table. L3VM should be restarted.

**Recommended Action** Restart component

**Error Message** U6RIB-3-OPEN\_CLIENT\_SHM\_ERROR: Failed to open client shared memory "[chars]": [chars]

**Explanation** The calling process failed with the shown error while trying to open the named U6RIB shared memory region. The status of the memory is shown in 'show process memory shared'.

**Recommended Action** Restart component

**Error Message** U6RIB-3-PSS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** U6RIB called a PSS API which returned an error. The error reported should be examined for the cause.

**Recommended Action** Reload the stack

**Error Message** U6RIB-3-PTADD\_ERROR: Could not add [chars]/[dec] to the [chars] pt, error code [dec]

**Explanation** A severe route table error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** U6RIB-3-QADD\_ERROR: Could not add [chars] to the [chars] queue

**Explanation** A severe queue error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** U6RIB-3-QDEL\_ERROR: Could not delete [chars] from the [chars] queue

**Explanation** A severe queue error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** U6RIB-3-RANGE\_CHECK\_ERR: Range check of [chars] failed from [chars] (0x[hex])

**Explanation** The value provided is outside of the acceptable range.

**Recommended Action** Report the issue to Customer Support

**Error Message** U6RIB-3-RNH\_LOOP\_ERROR: Number of prefixes forming rnh loop exceeds [dec] Flagging route [chars]/[dec] from client "[chars]" with nh [chars], rnh [chars]/[dec] as causing rnh loop

**Explanation** U6RIB detected a loop between routes installed in the RIB. Check the message to see which client caused the loop, and take appropriate action.

**Recommended Action** Requires operator to intervene

**Error Message** U6RIB-3-ROUTECOUNT\_UNDERFLOW: Routing table statistic current tried to underflow deleting [chars]/[dec]

**Explanation** The system tried to decrement the current number of routes in the table, but the statistic was already zero.

**Recommended Action** Report the issue to Customer Support

**Error Message** U6RIB-3-RPM\_LIB\_ERROR: [chars] [dec]

**Explanation** An RPM library function returned an error.

**Recommended Action** No special action is required.

**Error Message** U6RIB-3-SDWRAP\_LIB\_ERROR: [chars] [chars]

**Explanation** A SDWrap library function returned an error.

**Recommended Action** No special action is required.

**Error Message** U6RIB-3-SEND\_FROM\_ERROR: Send from U6RIB to client "[chars]" failed: [chars]

**Explanation** U6RIB was unable to send a message to the shown client.

**Recommended Action** Restart component

**Error Message** U6RIB-3-SEND\_TO\_ERROR: Send to u6rib failed: [chars]

**Explanation** The calling process was unable to send a message to U6RIB.

**Recommended Action** Restart component

**Error Message** U6RIB-3-STRUCT\_ERROR: Structural error: [chars], client "[chars]", table id 0x[hex].

**Explanation** A severe data structural error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** U6RIB-3-TABLE\_CREATE\_ERROR: Failed to create table info for VRF [chars] for client "[chars]"

**Explanation** U6RIB could not create its table data structure for the VRF being created. There may be further errors that indicate the failure in more detail. The shown VRF should be reconfigured in the system. i.e. in global configuration, 'no vrf context '

**Recommended Action** Requires operator to intervene

**Error Message** U6RIB-3-TABLE\_STATE\_ERROR: Table state [chars] for VRF [chars] for client "[chars]"

**Explanation** U6RIB received a request from a client for a given VRF, but the given VRF was in a

state where that request is not permitted

**Recommended Action** Requires operator to intervene

**Error Message** U6RIB-3-UFDM\_MTSSEND\_FAILURE: MTS send to UFDM failed with unexpected error [dec]

**Explanation** U6RIB was unable to send a route update to UFDM. This means there will be a route missing from the FIB.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** U6RIB-3-UNCONVERGED\_ROUTING\_CLIENT: Client "[chars]" did not signal convergence

**Explanation** The named Client did not signal convergence as expected, within a default time frame.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-3-UNKNOWN\_ROUTING\_CLIENT: Client "[chars]" trying to perform unexpected routing operation

**Explanation** The named Client is calling a routing API, but U6RIB does not expect this client to perform route operations.

**Recommended Action** Keep running, do nothing special

## U6RIB-4

**Error Message** U6RIB-4-COMM\_BUFF\_ERROR: Only created [dec] [chars] communication buffers of size [dec]

**Explanation** Fewer communication buffers were created than expected. This will have been caused by a low memory condition. Examine the logs for the low memory error.

**Recommended Action** ACTION\_RTG\_LESS\_ROUTES\_OR\_MORE\_SMEM

**Error Message** U6RIB-4-INVALID\_SHM\_RESIZE: Invalid request to re-size the shared memory on standby. Shared memory not re-sized. New size is [dec], old size is [dec] and maximum allowed size for re-size is [dec]. The standby will need to reload for the changes to take effect.

**Explanation** U6rib cannot re-size the shared memory on the standby SUP passed a certain threshold. The previous limits still apply.

**Recommended Action** Reload the stack

**Error Message** U6RIB-4-NHLFE\_OWNER: [chars]/[dec] via [chars]: NHLFE owner changed from client "[chars]" to "[chars]"

**Explanation** A given path can only have one Next-Hop Label Forwarding Entry. Thus this warning indicates that configuration has generated a conflict.

**Recommended Action** Requires operator to intervene

**Error Message** U6RIB-4-RES\_MGR\_CHANGE: Changed u6route-mem from ([dec], [dec]) to ([dec], [dec]). A reload must be done for the change in shared memory size to take effect.

**Explanation** The requested limit-resource command was adapted to fit the limits in this version.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-4-U6RIB\_SHM\_RESIZE: Changed u6rib configured shared memory size from [dec] to [dec]. A reload must be done for the change in shared memory size to take effect.

**Explanation** A reload must be done for the change in shared memory size to take effect.

**Recommended Action** Reload the stack

**Error Message** U6RIB-4-UFDM\_ACKNOT\_FOUND: Could not find UFDM buffer with ptr 0x[hex]

**Explanation** Ack received for a UFDM buffer that U6RIB does not know about.

**Recommended Action** Keep running, do nothing special

## U6RIB-5

**Error Message** U6RIB-5-API\_INIT\_SEM\_CLEAR: Cleared the API semaphore from [dec]

**Explanation** The API semaphore was in an unexpected state, and was restored to a correct value.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-5-BOGUS\_INTF: Client "[chars]" tried to add [chars]/[dec] via [chars] with interface [chars]

**Explanation** A bad interface was received in a path add from the client.

**Recommended Action** No special action is required.

**Error Message** U6RIB-5-CLT\_EVENT\_STATE: Client "[chars]" unexpected [chars] event state [dec] != [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** No special action is required.

**Error Message** U6RIB-5-CLT\_NO\_BUF: Client "[chars]" [chars] event has no buffer

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** No special action is required.

**Error Message** U6RIB-5-DUP\_REGISTER: Client "[chars]" register more than once with same pid

**Explanation** A client tried to register more than once with U6RIB. The re-registration was ignored.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-5-GENERAL\_FAILURE: Failed to [chars]

**Explanation** The logged action failed.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** U6RIB-5-INIT\_L3VM\_SUCCESS: [chars]

**Explanation** There was a previous error trying to initialize l3vm but a retry has been done and it is now successful.

**Recommended Action** No special action is required.

**Error Message** U6RIB-5-MAX\_CLIENTS\_REACHED: Maximum ([dec]) registered client has been reached

**Explanation** After add this client, the U6RIB client limit has already been reached.

**Recommended Action** No special action is required.

**Error Message** U6RIB-5-NOTIFY\_THREAD: Failed to notify [chars] thread - Reschedule

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** No special action is required.

**Error Message** U6RIB-5-NULL\_WORKITEM\_PIB: No client info found for work item type [dec] table [dec]

**Explanation** An unexpected but handleable event has occurred.

**Recommended Action** No special action is required.

**Error Message** U6RIB-5-PID\_CHANGED: Client "[chars]" register with new pid

**Explanation** A client re-registered with a new pid. This is likely if the client restarts. U6RIB accepted the re-registration.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-5-U6RIB\_DOWN: [chars]

**Explanation** There was a call to U6RIB API while U6RIB was not ready to process it.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-5-UNK\_MSG\_MINOR: Unrecognised [chars] message minor type [dec]

**Explanation** U6RIB received an unknown message. The message is dropped

**Recommended Action** Keep running, do nothing special

## U6RIB-6

**Error Message** U6RIB-6-GENERAL\_INFO: [chars]

**Explanation** Informational message only.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-6-MTS\_SHORT\_MSG\_ERROR: Received short ([dec] < [dec]) MTS message on [chars] queue with opcode [dec], dropping it

**Explanation** U6RIB received an unknown message. The message is dropped

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-6-NH\_DELETED\_NIB\_INFO: Found hidden next-hop [chars] ([dec]) for client "[chars]" in deleted NIB

**Explanation** U6RIB found a hidden next-hop for the client While a client was deregistering for a table.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-6-NO\_MTS\_PAYLOAD: Received MTS message with no payload in thread [chars] from sap [dec], dropping it

**Explanation** U6RIB received an unknown message. The message is dropped

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-6-ROUDELIMIT\_CUMUL\_OVERFLOWED: Routing table cumulative statistic "[chars]" overflowed 64 bits

**Explanation** The routing table cumulative statistic is used internally and for debugging. The statistic just reached the maximum value for 64 bits.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-6-ROUDELIMIT\_OVERFLOWED: Routing table statistic "[chars]" overflowed 32 bits

**Explanation** The routing table statistic is returned in a MIB which only supports 32 bit values. The statistic just reached the maximum value for 32 bits.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-6-ROUDELIMIT\_RECOVERED: Number of routes ([dec]) is below the configured limit ([dec])

**Explanation** The number of routes in the named routing table has fallen below the configured limit. The routing table has recovered

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-6-ROUDELIMIT\_REINSTALL: Routing table was reinstalled

**Explanation** The routing table was automatically reloaded to allow the new routing limit or because the reinstall threshold was crossed.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-6-ROUDELIMIT\_UNDERFLOWED: Routing table statistic "[chars]" underflowed

**Explanation** The routing table statistic just underflowed below 0.

**Recommended Action** Keep running, do nothing special



**Error Message** U6RIB-6-TRACE\_OVERFLOW: Trace buffer [chars] overflowed

**Explanation** The given event trace overflowed. This is normal behaviour.

**Recommended Action** Keep running, do nothing special

**Error Message** U6RIB-6-UNK\_MTS\_OPC: [chars] thread - Unrecognised MTS opcode [dec]

**Explanation** U6RIB received an unknown message. The message is dropped

**Recommended Action** Keep running, do nothing special

## URIB Messages

This section contains the URIB messages.

### URIB-2

**Error Message** URIB-2-API\_INIT\_SEM: Failed to init the client API semaphore: open: [chars], create: [chars]

**Explanation** URIB could not create the semaphore that protects access to the shared memory between URIB and its clients.

**Recommended Action** Reload the stack

**Error Message** URIB-2-BAD\_PT: Possible Patricia tree corruption in [chars]

**Explanation** An unrecoverable software error has occurred because of a bad route table.

**Recommended Action** Reload the stack

**Error Message** URIB-2-NOPMEM: Failed to allocate private memory for [chars]

**Explanation** URIB has run out of private memory. This condition can be caused by a temporary increase in the number of routes in the network, or a general network or router misconfiguration.

**Recommended Action** Configure the network or router to decrease the number of routes, or add additional memory to the router.

**Error Message** URIB-2-NOSMEM: Failed to allocate shared memory for [chars]. URIB has run out of shared memory

**Explanation** URIB has run out of shared memory to store routes and related information. This condition can be caused by a temporary increase in the number of routes in the network, or a general network or router misconfiguration.

**Recommended Action** Configure the network or router to decrease the number of routes.

**Error Message** URIB-2-RES\_MGR: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** The resource manager returned an error to URIB, while URIB was performing an action relating to its shared memory

**Recommended Action** Reload the stack

**Error Message** URIB-2-STARTUP\_FAILURE: Startup failure: [chars]

**Explanation** An unrecoverable software error has occurred during URIB startup.

**Recommended Action** Reload the stack

**Error Message** URIB-2-TIMER\_LIB: [chars] [chars]

**Explanation** The timer library returned an error, causing an unrecoverable problem for URIB.

**Recommended Action** Reload the stack

**Error Message** URIB-2-TOO\_MANY\_CLIENTS: [chars] client "[chars]"

**Explanation** URIB cannot add this client because the URIB client limit has already been reached.

**Recommended Action** Kill component and don't restart it

**Error Message** URIB-2-UFDM\_MGMT: Route [chars]/[dec] in VRF management not sent to ufdm

**Explanation** URIB tried to give a route in the management VRF to UFDM

**Recommended Action** Keep running, do nothing special

## URIB-3

**Error Message** URIB-3-ADD\_ERROR: Client "[chars]" could not add [chars]/[dec] to the [chars]

**Explanation** A severe error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-ADD\_PATH\_ERROR: [chars]: could not add path for client "[chars]".

**Explanation** A route add operation has failed for the given client. There may be a previous error message that further explains the problem.

**Recommended Action** No special action is required.

**Error Message** URIB-3-ADD\_RPATH: Client "[chars]" added [chars]/[dec] via not found rnh [chars]/[dec]%[chars]

**Explanation** A route add operation has failed for the given client. This may be a transient error.

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-ADD\_TPATH: Client "[chars]" added [chars]/[dec] via tableid 0x[hex] : [chars]

**Explanation** A route add operation has failed for the given client. This was because the tableid could not be found. This may be a transient error.

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-ASSERT\_ERROR: [chars]:[dec]: Assertion "[chars]" failed.

**Explanation** An internal software error has occurred. An assertion held to be true failed.

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-AVLADD\_ERROR: Could not add [chars] (0x[hex]) to the [chars] avl

**Explanation** URIB was unable to add a piece of data to an AVL data structure.

**Recommended Action** Reload the stack

**Error Message** URIB-3-AVLINIT\_ERROR: Could not init [chars] avl for VRF [chars]

**Explanation** URIB was unable to correctly initialise an AVL data structure.

**Recommended Action** Reload the stack

**Error Message** URIB-3-CCMARKERERROR: Mismatch in marker\_elem = [dec] and urib\_cc\_end\_download\_marker = [dec] for tib: [chars]

**Explanation** An severe error was enountered during Consistency Checker

**Recommended Action** No special action is required.

**Error Message** URIB-3-CCPENDING: Previous Consistency Check has not yet completed

**Explanation** Previous Consistency Check has not yet completed

**Recommended Action** No special action is required.

**Error Message** URIB-3-CC\_T00\_BUSY: Proceeding with consistency-check on vrf [chars] but system looks busy.

**Explanation** Consistency-check was initiated but URIB is currently processing other updates. This could generate false positive errors.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-3-CMI\_MTSEND\_FAILURE: mts\_send failure for client [chars]: [chars]

**Explanation** URIB was unable to send MTS message to a particular client

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-CMI\_PAYLOAD\_CONV\_ERR: CMI payload conversion error failure from [chars] order to [chars] order

**Explanation** The cmi payload conversion did not occur successfully.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-3-COPY\_ERROR: Could not copy [chars] for [chars]/[dec]

**Explanation** A severe error was encountered during route optimisation. The system may run into more errors because of this problem.

**Recommended Action** No special action is required.

**Error Message** URIB-3-CV\_INIT: Couldn't init cond var [chars]

**Explanation** URIB process failed to initialize conditional-variable resource.

**Recommended Action** Dump core, then restart component

**Error Message** URIB-3-DEL\_ERROR: Could not delete [chars]/[dec] from [chars]

**Explanation** A severe error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-DEL\_PATH\_ERROR: [chars]: could not del path for client "[chars]".

**Explanation** A route add operation has failed for the given client. There may be a previous error message that further explains the problem.

**Recommended Action** No special action is required.

**Error Message** URIB-3-EPID\_MIS\_MATCH\_ERROR: "[chars]" epid ([dec]) does not match known epid ([dec])

**Explanation** The id a client provided does not match the id that URIB currently has stored for the client. The client probably restarted ungracefully and URIB has the old id.

**Recommended Action** Restart component

**Error Message** URIB-3-FILE\_OPEN\_ERROR: File open error: [chars]

**Explanation** This message is for internal debugging only.

**Recommended Action** No special action is required.

**Error Message** URIB-3-FILE\_WRITE\_ERROR: File write error: [chars]

**Explanation** This message is for internal debugging only.

**Recommended Action** No special action is required.

**Error Message** URIB-3-GENERAL\_CRIB\_ERROR: [chars]

**Explanation** CRIB not in use.

**Recommended Action** No special action is required.

**Error Message** URIB-3-GENERAL\_PTHREAD\_ERROR: Thread [dec]: [chars]

**Explanation** The POSIX pthread library returned an error to URIB.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-GENERAL\_UI\_ERROR: [chars]

**Explanation** The shown error occurred while the user interface was processing a request. The request should be tried again.

**Recommended Action** ACTION\_OPERATOR\_RETRY

**Error Message** URIB-3-GET\_INSTANCE\_ERROR: instance not found for client "[chars]" in VRF [chars]

**Explanation** URIB could not find its data structures for a client in the shown VRF. The shown VRF should be reconfigured in the client. i.e. in router sub-mode configuration, 'no vrf '

**Recommended Action** Requires operator to intervene

**Error Message** URIB-3-HTADD\_ERROR: Could not add [chars] to the [chars] hash table

**Explanation** A severe hash table error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-INCONSISTENT\_RNH: [chars]: [chars]/[dec]

**Explanation** Unexpected remaining recursive next-hop removed during RIB cleanup

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-INCONSISTENT\_ROUTE: [chars]: [chars]/[dec] via [chars]

**Explanation** Unexpected remaining route removed during RIB cleanup.

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-INCONSISTENT\_STRUCTURE: [chars]

**Explanation** Unexpected remaining state removed during RIB cleanup.

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-INCONSISTENT\_SUMMARY: [chars]: routes [dec], rnh's [dec]

**Explanation** Unexpected remaining state for client during RIB cleanup. Use the 'show routing ipv4 unicast internal event-history errors' CLI command for more information.

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-INSTANCE\_CREATE\_ERROR: Failed to create routing instance info for client "[chars]", VRF [chars]

**Explanation** URIB could not create its data structures for a client in the shown VRF. There may be further errors to indicate the failure in more detail. The shown VRF should be reconfigured in the client. i.e. in router sub-mode configuration, 'no vrf '

**Recommended Action** Requires operator to intervene

**Error Message** URIB-3-KSINK\_LIB\_ERROR: [chars] [chars]

**Explanation** A severe error was encountered during ksink operations. The system may run into more errors because of this problem.

**Recommended Action** No special action is required.

**Error Message** URIB-3-LABELCOUNT\_UNDERFLOW: Label count tried to underflow for [chars]

**Explanation** The client tried to decrement the current number of labels, but the statistic was already zero.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-3-MOD\_ERROR: Client "[chars]" could not modify [chars]/[dec]: [chars]

**Explanation** A severe error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-MORE\_INFO\_ERROR: Client "[chars]": [chars]

**Explanation** This error provides further information about the previous error. Action should be taken depending on the previous error logged.

**Recommended Action** No special action is required.

**Error Message** URIB-3-MORE\_MTS\_INFO\_ERROR: source SAP is: [dec] dest SAP is: [dec]

**Explanation** This error provides further information about the previous MTS error. Action should be taken depending on the previous MTS error logged.

**Recommended Action** No special action is required.

**Error Message** URIB-3-MTS\_BIND: mts\_bind failed for [chars]: [chars]

**Explanation** URIB was unable to bind to an MTS queue SAP, causing an unrecoverable error.

**Recommended Action** Reload the stack

**Error Message** URIB-3-MTS\_DEREGISTER: mts\_deregister failed for urib: [chars]

**Explanation** URIB was unable to deregister client from URIB notifications, causing an unrecoverable error.

**Recommended Action** Restart component

**Error Message** URIB-3-MTS\_DROP\_CLIENT: Error returned from mts\_drop() for [chars], error: [chars]

**Explanation** MTS API returned an error when URIB client tried to drop a message.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-3-MTS\_DROP: Error returned from mts\_drop(), error: [chars]

**Explanation** An MTS API returned an error when URIB tried to drop a message.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-3-MTS\_NO\_CLIENT\_SAP: [chars]: client "[chars]" has not provided a SAP for ack

**Explanation** A client registered with URIB, but did not provide a SAP for URIB to send reply messages to. This caused an unrecoverable error.

**Recommended Action** Restart component

**Error Message** URIB-3-MTS\_NO\_PAYLOAD\_ERROR: Received MTS message with no payload on [chars] queue with opcode [dec], dropping it. src SAP: [dec] dst SAP: [dec]

**Explanation** URIB recieved an unknown message. The message is dropped

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-3-MTS\_OPTIONS: MTS option set failed for opcode [chars]: [chars] ([dec])

**Explanation** URIB was unable to set options for an MTS opcode

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM



**Error Message** URIB-3-MTS\_RECV: Error returned from mts\_recv([chars]), errno: [chars]

**Explanation** An MTS API returned an error while URIB was receiving on an MTS queue.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-3-MTS\_REGISTER: mts\_register failed for urib: [chars]

**Explanation** URIB was unable to register client for URIB notifications, causing an unrecoverable error.

**Recommended Action** Restart component

**Error Message** URIB-3-MTS\_SHORT\_MSG\_ERROR: Received short ([dec] < [dec]) MTS message on [chars] queue with opcode [dec], dropping it. src SAP: [dec] dst SAP: [dec]

**Explanation** URIB recieved an unknown message. The message is dropped

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-3-MTS\_SIZE\_ERROR: [chars]: incorrect [chars] message size from client [chars]: [dec] (should be [dec])

**Explanation** The size of a URIB message is incorrect for the type of message. The message is dropped.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-3-MTS\_UBIND: mts\_unbind failed for [chars]: [chars]

**Explanation** URIB was unable to unbind from an MTS queue SAP, causing an unrecoverable error.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-MUTEX\_INIT: Couldn't init mutex [chars]

**Explanation** URIB process failed to initialize mutex system resource.

**Recommended Action** Dump core, then restart component

**Error Message** URIB-3-NH\_RESOLV\_ADD\_ERROR: Could not add [chars]/[dec] to the [chars] ([dec]) resolve buffer

**Explanation** A severe error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-NOT\_INIT\_L3VM\_ERROR: L3VM info for table id 0x[hex] from client "[chars]" not available - URIB not initialised with L3VM

**Explanation** A client tried to add some information to the URIB, before URIB has registered for the table information. The client should be restarted.

**Recommended Action** Restart component

**Error Message** URIB-3-NO\_L3VM\_INFO\_ERROR: no L3VM info for table id 0x[hex] from client "[chars]" - unknown to L3VM

**Explanation** A client tried to add some information to URIB and provided a Table-Id that is unknown in the system. The client should be restarted.

**Recommended Action** Restart component

**Error Message** URIB-3-NO\_L3VM\_LIMITS: Could not get routing table limits from L3VM

**Explanation** URIB could not pull the routing limits for the table. L3VM should be restarted.

**Recommended Action** Restart component

**Error Message** URIB-3-OPEN\_CLIENT\_SHM\_ERROR: Failed to open client shared memory "[chars]": [chars]

**Explanation** The calling process failed with the shown error while trying to open the named URIB shared memory region. The status of the memory is shown in 'show process memory shared'.

**Recommended Action** Restart component

**Error Message** URIB-3-PSS: Error returned from [chars], errno: 0x[hex] ([chars]) in [chars]()

**Explanation** URIB called a PSS API which returned an error. The error reported should be examined for the cause.

**Recommended Action** Reload the stack

**Error Message** URIB-3-PTADD\_ERROR: Could not add [chars]/[dec] to the [chars] pt, error code [dec]

**Explanation** A severe route table error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-PTDEL\_ERROR: Could not delete [chars]/[dec] from the URIB pt, error code [dec]

**Explanation** A severe route table error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-QADD\_ERROR: Could not add [chars] to the [chars] queue

**Explanation** A severe queue error was encountered. The system may run into more errors because of this problem.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-RANGE\_CHECK\_ERROR: Range check of [chars] failed from [chars] (0x[hex])

**Explanation** The value provided is outside of the acceptable range.

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-RANGE\_CHECK\_ERR: Range check of [chars] failed from [chars] (0x[hex])

**Explanation** The value provided is outside of the acceptable range.

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-RNH\_REFCOUNT: Client "[chars]" deleting RNH [chars]/[dec] with refcount [dec]

**Explanation** A client tried to delete a Recursive Next-hop while that RNH was still in use.

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-ROTECOUNT\_UNDERFLOW: Routing table statistic current tried to underflow deleting [chars]/[dec]

**Explanation** The system tried to decrement the current number of routes in the table, but the statistic was already zero.

**Recommended Action** Report the issue to Customer Support

**Error Message** URIB-3-RPM\_LIB\_ERROR: [chars] [dec]

**Explanation** An RPM library function returned an error.

**Recommended Action** No special action is required.

**Error Message** URIB-3-SDWRAP\_LIB\_ERROR: [chars] [chars]

**Explanation** A SDWrap library function returned an error.

**Recommended Action** No special action is required.

**Error Message** URIB-3-SEND\_FROM\_ERROR: Send from URIB to client "[chars]" failed: [chars]

**Explanation** URIB was unable to send a message to the shown client.

**Recommended Action** Restart component

**Error Message** URIB-3-SEND\_NOTIF\_ERROR: Failed to send [chars] notification buffer to client "[chars]"; retried [dec] times

**Explanation** URIB was unable to send a notification to a client.

**Recommended Action** Restart component

**Error Message** URIB-3-SEND\_TO\_ERROR: Send to URIB failed: [chars]

**Explanation** The calling process was unable to send a message to URIB.

**Recommended Action** Restart component

**Error Message** URIB-3-SHARED\_NH\_ADD: Could not add nh into the shared database for route [chars].

**Explanation** Impossible to add a nh to the database.

**Recommended Action** No special action is required.

**Error Message** URIB-3-SHARED\_NH\_UPDATE: Could not update nh into the shared database for element [chars].

**Explanation** Impossible to update a nh to the database.

**Recommended Action** No special action is required.

**Error Message** URIB-3-TABLE\_CREATE\_ERROR: Failed to create table info for VRF [chars] for client "[chars]"

**Explanation** URIB could not create its table data structure for the VRF being created. There may be further errors that indicate the failure in more detail. The shown VRF should be reconfigured in the system. i.e. in global configuration, 'no vrf context '

**Recommended Action** Requires operator to intervene

**Error Message** URIB-3-TABLE\_STATE\_ERROR: Table state [chars] for VRF [chars] for client "[chars]"

**Explanation** URIB received a request from a client for a given VRF, but the given VRF was in a state where that request is not permitted

**Recommended Action** Requires operator to intervene

**Error Message** URIB-3-UFDMMTSEND\_FAILURE: MTS send; to UFDMM failed with unexpected error [dec]

**Explanation** URIB was unable to send an update to UFDMM. The update can be a route or message like table delete.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-3-UNEXPECTED\_MESSAGE: [chars] [dec]. src SAP: [dec] dst SAP: [dec]

**Explanation** An unexpected interprocess message was received.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-3-XRI\_TYPE\_ERROR: Unknown XRI type [dec]

**Explanation** URIB detected unknown eXtended route information while displaying a next-hop address.

**Recommended Action** Keep running, do nothing special

## URIB-4

**Error Message** URIB-4-INVALID\_PIB: [chars] [chars]

**Explanation** A bad protocol information block was encountered in the given situation.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-4-INVALID\_SHM\_RESIZE: Invalid request to re-size the shared memory on standby. Shared memory not re-sized. New size is [dec] old size is [dec] and maximum allowed

size for re-size is [dec]. The standby will need to reload for the changes to take effect.

**Explanation** Urrib cannot re-size the shared memory on the standby SUP passed a certain threshold. The previous limits still apply.

**Recommended Action** Reload the stack

**Error Message** URIB-4-NHLFE\_OWNER\_SRTE: [chars]/[dec] via binding label [dec]: NHLFE owner changed from client "[chars]" to "[chars]"

**Explanation** A given SR-TE path has an invalid binding label. Thus this warning indicates that configuration has generated a conflict.

**Recommended Action** Requires operator to intervene

**Error Message** URIB-4-NHLFE\_OWNER: [chars]/[dec] via [chars]%[chars]: NHLFE owner changed from client "[chars]" to "[chars]"

**Explanation** A given path can only have one Next-Hop Label Forwarding Entry. Thus this warning indicates that configuration has generated a conflict.

**Recommended Action** Requires operator to intervene

**Error Message** URIB-4-NH\_RESOLV\_LUKUP: Could not find [chars]/[dec] while processing [chars] ([dec]) resolve buffer

**Explanation** Unresolved nexthop not cleaned up properly.

**Recommended Action** No special action is required.

**Error Message** URIB-4-OPEN\_CLIENT\_SHM\_WARNING: Attempt to execute "[chars]" was not successful: [chars]

**Explanation** The calling process failed with the shown error while trying to open the named URIB shared memory region. The status of the memory is shown in 'show process memory shared'.

**Recommended Action** Restart component

**Error Message** URIB-4-RES\_MGR\_CHANGE: Changed u4route-mem from ([dec], [dec]) to ([dec], [dec]). A reload must be done for the change in shared memory size to take effect.

**Explanation** The requested limit-resource command was adapted to fit the limits in this version.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-4-RTDEL\_ERROR: Could not find prefix [chars]/[dec], client "[chars]"'s

delete request

**Explanation** Route delete request was received for a non-existing route.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-4-UFDM\_ACKNOT\_FOUND: Could not find UFDM buffer with ptr 0x[hex]

**Explanation** Ack received for a UFDM buffer that URIB does not know about.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-4-UFDM\_MTSSEND\_FAILURE\_RETRY: MTS send; [chars] to UFDM failed with unexpected error [dec]. Will retry until successful.

**Explanation** URIB was unable to send a route update to UFDM.

**Recommended Action** No special action is required.

**Error Message** URIB-4-UNEXPECTED\_VALUE: Unexpected value for [chars] ([dec])

**Explanation** An unexpected value was encountered for the logged event.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-4-URIB\_SHM\_RESIZE: Changed urib configured shared memory size from [dec] to [dec]. A reload must be done for the change in shared memory size to take effect.

**Explanation** A reload must be done for the change in shared memory size to take effect.

**Recommended Action** Reload the stack

**Error Message** URIB-4-XL\_LICENSE\_MEMORY: XL License installed; use "show routing memory estimate" and see VDC resource u4route-mem documentation.

**Explanation** An XL License was just installed in the system. The memory currently configured for URIB may not be big enough to hold all the routes the hardware can install. Check VDC resource u4route-mem, then switchover to apply

**Recommended Action** No special action is required.

**Error Message** URIB-4-ZERO\_NEXTHOP: Client "[chars]" added 0.0.0.0 next hop and interface [chars] is not point-to-point

**Explanation** The client protocol added a 0.0.0.0 next-hop address on a non point-to-point interface

**Recommended Action** No special action is required.

## URIB-5

**Error Message** URIB-5-API\_INIT\_SEM\_CLEAR: Cleared the API semaphore from [dec]

**Explanation** The API semaphore was in an unexpected state, and was restored to a correct value.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-5-BOGUS\_INTF: Client "[chars]" tried to add [chars]/[dec] via [chars] with invalid iod [dec]

**Explanation** A bad interface was received in a path add from the client.

**Recommended Action** Restart component

**Error Message** URIB-5-BOGUS\_MASK: Client "[chars]" tried to add [chars]/[dec]

**Explanation** A bogus mask was received from the client.

**Recommended Action** Restart component

**Error Message** URIB-5-BOGUS\_PREFIX: "[chars]" tried to add [chars]/[dec]

**Explanation** A bogus prefix was received from the client.

**Recommended Action** Restart component

**Error Message** URIB-5-BOGUS\_RNH: "[chars]" tried to add [chars]/[dec] with RNH [chars]/[dec]

**Explanation** A bogus update with unexpected RNH was received from the client.

**Recommended Action** Restart component

**Error Message** URIB-5-GENERAL\_FAILURE: Failed to [chars]

**Explanation** The logged action failed, causing an unrecoverable error.

**Recommended Action** ACTION\_SWITCHOVER\_SYSTEM

**Error Message** URIB-5-MAX\_CLIENTS\_REACHED: Maximum ([dec]) registered client has been reached



**Explanation** After add this client, the URIB client limit has already been reached.

**Recommended Action** No special action is required.

**Error Message** URIB-5-PATH\_DELETE\_SRTE: Could not find [chars] for client "[chars]", prefix [chars]/[dec] binding label [dec]

**Explanation** URIB could not find the path that a client tried to delete.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-5-PATH\_DELETE: Could not find [chars] for client "[chars]", prefix [chars]/[dec] nexthop [chars], [chars]

**Explanation** URIB could not find the path that a client tried to delete.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-5-PIB\_NOT\_REGISTERED: Client [chars] did not register after URIB restart. Removing this Client.

**Explanation** URIB client should register again after URIB restart.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-5-RPATH\_DELETE: Could not find [chars] for client "[chars]", prefix [chars]/[dec] rnh [chars]/[dec]

**Explanation** URIB could not find the recursive path that a client tried to delete.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-5-U4RIB\_DOWN: Trying to [chars] while URIB is down

**Explanation** There was a call to URIB API while URIB was not ready to process it.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-5-U6RIB\_DOWN: Trying to [chars] while U6RIB is down

**Explanation** There was a call to U6RIB API while U6RIB was not ready to process it.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-5-URIB\_DOWN: [chars]

**Explanation** There was a call to URIB API while URIB was not ready to process it.

**Recommended Action** Keep running, do nothing special

## URIB-6

**Error Message** URIB-6-GENERAL\_INFO: [chars]

**Explanation** Informational message only.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-6-MTS\_UNK\_OPC: Received unknown MTS message on [chars] queue with opcode [dec], dropping it. src SAP: [dec] dst SAP: [dec]

**Explanation** URIB recieved an unknown message. The message is dropped

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-6-NH\_DELETED\_NIB\_INFO: Found hidden rnh [chars]/[dec] for client "[chars]" in deleted NIB

**Explanation** URIB found a hidden next-hop for a client while the client was deregistering for a table.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-6-ROUTELIMIT\_CUMUL\_OVERFLOWED: Routing table cumulative statistic "[chars]" overflowed 64 bits

**Explanation** The routing table cumulative statistic is used internally and for debugging. The statistic just reached the maximum value for 64 bits.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-6-ROUTELIMIT\_OVERFLOWED: Routing table statistic "[chars]" overflowed 32 bits

**Explanation** The routing table statistic is returned in a MIB which only supports 32 bit values. The statistic just reached the maximum value for 32 bits.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-6-ROUTELIMIT\_RECOVERED: Number of routes (% PRIu64) is below the configured limit ([dec])

**Explanation** The number of routes in the named routing table has fallen below the configured limit. The routing table has recovered

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-6-ROUTELIMIT\_REINSTALL: Routing table was reinstalled

**Explanation** The routing table was automatically reloaded to allow the new routing limit or because the reinstall threshold was crossed.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-6-ROUTELIMIT\_UNDERFLOWED: Routing table statistic "[chars]" underflowed

**Explanation** The routing table statistic just underflowed below 0.

**Recommended Action** Keep running, do nothing special

**Error Message** URIB-6-TRACE\_OVERFLOW: Trace buffer [chars] overflowed

**Explanation** The given event trace overflowed. This is normal behaviour.

**Recommended Action** Keep running, do nothing special

## URIB-7

**Error Message** URIB-7-RNH\_LOOP\_ERROR\_NO\_RNH: Number of prefixes forming rnh loop exceeds [dec] Flagging route [chars]/[dec] from client "[chars]", rnh not found

**Explanation** URIB detected a loop between routes installed in the RIB. The message shows which client caused the loop.

**Recommended Action** Requires operator to intervene

**Error Message** URIB-7-RNH\_LOOP\_ERROR: Number of prefixes forming rnh loop exceeds [dec] Flagging route [chars]/[dec] from client "[chars]" with rnh [chars]/[dec] as causing rnh loop

**Explanation** URIB detected a loop between routes installed in the RIB. The message shows which client caused the loop.

**Recommended Action** Requires operator to intervene