



Release Notes for Cisco Unified Mobility Release 1.2(5)

October 3, 2007

These release notes describe limitations and restrictions, important notes, caveats, and documentation updates for Cisco Unified Mobility (formerly Cisco Unified MobilityManager) Release 1.2(5).

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Related Documentation

Cisco Unified Mobility Documentation

Refer to the documentation set for Cisco Unified Mobility for detailed configuration and use information. Navigate from the following URL:

http://www.cisco.com/univercd/cc/td/doc/product/voice/c_mobmg/1_2/index.htm

Cisco Unified IP Phone Documentation

Refer to publications that are specific to your language, phone model and Cisco Unified Communications Manager version. Navigate from the following URL:

http://www.cisco.com/univercd/cc/td/doc/product/voice/c_ipphon/index.htm

Cisco Unified Communications Manager Documentation

Refer to the Cisco Unified Communications Manager Documentation Guide and other publications specific to your Cisco Unified Communications Manager version. Navigate from the following URL:

http://www.cisco.com/univercd/cc/td/doc/product/voice/c_callmg/index.htm

Installation Notes

The following installation notes apply to Cisco Unified Mobility Release 1.2(5):

- Restart Cisco Unified Mobility whenever Cisco Unified Communications Manager is upgraded.
- During a new installation, you may be prompted to respond to multiple “DVD Found/Media Check” messages. At the first prompt, enter **Yes** to ensure the integrity of the DVD. Then enter **No** to subsequent prompts to continue the installation.
- If you are upgrading from a previous Cisco Unified Mobility Release 1.2 release, you can perform a software upgrade.
- Cisco Security Agent (CSA) is supported in Cisco Unified Mobility Release 1.2(5). If you are upgrading from Release 1.2(3) to 1.2(5), disable Cisco Security Agent (CSA) before performing the upgrade.

- If you are upgrading from Cisco Unified Mobility Release 1.1(2), you must do a new install. The new install must be on a system with the same IP address as the system used for Cisco Unified MobilityManager 1.1(1). For more information about installation, refer to the *Cisco Unified Mobility Installation Guide*:

http://www.cisco.com/univercd/cc/td/doc/product/voice/c_mobmg/index.htm

Important Notes

This section provides information about Cisco IP Telephony Platform support. For more information, see the *Cisco IP Telephony Platform Guide*:

http://www.cisco.com/univercd/cc/td/doc/product/voice/c_mobmg/1_2/admins/p1at1_2/index.htm

The following Cisco IP Telephony Platform GUI options are *not* supported:

- Clusters
- Simple Mail Transfer Protocol (SMTP)
- Security: Certificate Management and IPSec Management

Migrating from Cisco Unified Mobility to Cisco Unified Communications Manager

This section provides guidelines for migrating Cisco Unified Mobility data to Cisco Unified Communications Manager 6.0.



Note

Before performing the migration, verify that the user names configured for Cisco Unified Mobility are also configured in Cisco Unified Communications Manager. Specifically, if *user1* is the Cisco Unified Mobility user whose data will be migrated to Cisco Unified Communications Manager, *user1* must already be in the Cisco Unified Communications Manager database.



Note

Cisco Unified Communications Manager 6.0 does not allow remote destination numbers to be shared; therefore, you must remove any duplication during migration.



Note

The remote destination number in Cisco Unified Mobility may have a 9 or 91 prefix access code. Confirm that these prefixes are consistent with the Cisco Unified Communications Manager 6.0 configuration during migration.

Migration Files

The data files listed in this section must be migrated to Cisco Unified Communications Manager.

CMMRDPProfile.csv

This file contains the following fields:

REMOTE DESTINATION PROFILE NAME,DESCRIPTION,USER ID,DIRECTORY NUMBER 1,CSS,DEVICE POOL

The REMOTE DESTINATION PROFILE NAME is taken from the Mobile Voice Access User ID field in Cisco Unified Mobility. CSS and DEVICE POOL are derived from an AXL query from Cisco Unified Communications Manager

In the DESCRIPTION field, the tool adds a default description, *userID_RDP*.

Example:

```
1681000RDP,johndoe_RDP,johndoe,1681000,everynecss,Default
```

CMMAccessList.csv

This file contains the following fields:

ACCESS LIST NAME,ACCESS LIST DESCRIPTION,ACCESS LIST ALLOWED,ACCESS LIST OWNER,ACCESS LIST MEMBER 1

Example:

```
allow1,,t,johndoe,5551212
```

CMMRemoteDestination.csv

This file contains the following fields:

DESTINATION,NAME,DUAL MODE DEVICE,REMOTE DESTINATION PROFILE,ISMOBILEPHONE,ANSWER TOO SOON TIMER,ANSWER TOO LATE TIMER,DELAY BEFORE RINGING TIMER,ACCESS LIST ALLOWED,ACCESS LIST BLOCKED,SMART CLIENT INSTALLED,ENABLE MOBILE CONNECT,ASSOCIATED LINE NUMBER,PARTITION

In the DESTINATION NAME field, the tool adds a default name *userID_RD*.

Example:

```
95551212,johndoe_RD,f,1681000,t,1500,0,0,,,f,t,1681000,
```

CMMUserEnable.csv

This file contains the following fields:

USER ID,ENABLE MOBILITY,ENABLE MOBILE VOICE ACCESS

Example:

```
johndoe,t,t
```

CMMFeatureDataExport.log

This file contains warning messages.

Example:

```
Feature Data checking starts -----.  
Remote Destination 95551212 has been associated with two users:  
1681000RDP and 1682000RDP.  
Feature Data checking ends -----.  

```

Migrating the Cisco Unified Mobility Data

Use this process to migrate standalone Cisco Unified Mobility data to Cisco Unified Communications Manager Release 6.0(1):

Procedure

-
- Step 1** Log into Cisco Unified Mobility and export the configuration data files in CSV format:
- Use **Export > Feature Data** for CMMRDProfile.csv, CMMAccessList.csv, CMMRemoteDestination.csv, and CMMUserEnable.csv.
 - Use **Export > Log** for CMMFeatureDataExport.log.
- Step 2** Log into Cisco Unified Communications Manager Administration Release 6.0(1). Choose **Bulk Administration > Upload/Download Files** to upload the four CSV files.
- Step 3** Choose **Bulk Administration > Mobility > Remote Destination Profile > Remote Destination Profile Template** to create a template and its associated line template. In the Rerouting Calling Search Space field, enter the value taken from the Outgoing CTI port Calling Search Space in your current Cisco Unified Communications Manager system.
- Step 4** Choose **Bulk Administration > Mobility > Remote Destination Profile**, and insert the file CMMRDProfile.csv. Check the error log to verify that no error occurs.
- Step 5** Choose **Bulk Administration > Mobility > Access List**, and insert the file CMMAccessList.csv. Check the error log to verify that no error occurs.
- Step 6** Choose **Bulk Administration > Mobility > Remote Destination**, and insert the file CMMRemoteDestination.csv. Check the error log to verify that no error occurs.
- Step 7** Choose **Bulk Administration > Users**, and update the file CMMUserEnable.csv. Check the error log to verify that no error occurs.
-

Bulk Provisioning CLI

A new CLI utility in Platform administration allows for bulk provisioning of Cisco Unified Mobility users.

Before you can perform bulk insertion of users, you must create a `userinfo.csv` file on a Secure File Transfer Protocol (SFTP)-enabled system. The `userinfo.csv` file must be in comma-separated value (CSV) format (columns that require non-blank entries are marked with *):

- `Mobile_Voice_Access_User ID*`
- `Mobile_Unified_Communications Manager User ID*`
- `DeviceName`
- `Enable User Remote Access`
- `Maximum number of Group Allowed`
- `Maximum number Line Appearance Allowed`
- `Maximum number of Remote Destination Allowed*`
- `Maximum number of Allowed Caller Filters Allowed*`
- `Maximum number of Blocked Caller Filters Allowed*`
- `Group Identification*`
- `Description`
- `Line Number*`
- `Enable Caller ID Override`
- `Caller ID Override Number`
- `Enable Delay Before Ringing Cellular Phone`
- `Delay Before Ringing Cellular Phone (msec)`
- `Maximum wait time for desk phone pickup (msec)`
- `Enable Cellular Phone Pickup`
- `Remote Destination*`
- `CallerID`
- `Enable Mobile Connect`
- `Enable Maximum Cellular Phone Pickup Timer`

- Maximum Cellular Phone Pickup Timer (msec)
- Enable Maximum Cellular Phone Ring Timer (msec)
- Maximum Cellular Phone Ring Timer (msec)
- Enable Minimum Cellular Phone Ring/Pickup Timer
- Minimum Cellular Phone Ring/Pickup Timer (msec)

By convention, the first line of a CSV (comma-separated format) file is reserved for comments. Therefore, enter input values starting in the second row.

For example, an input line for the userinfo.csv file might be:

```
1000,usera,,no,1,1,1,1,1,1,test,1681000,enable,,enable,4000,10000,enable,9902
3136,,yes,enable,20000,enable,19000,default,9000
```

After creating the CSV file, follow these steps to add the user information using bulk provisioning:

Procedure

Step 1 Enter this command to send the userinfo.csv file from the SFTP server to the Cisco Unified Mobility server:

```
utils get_cisco_mobile_connect_users_info
```

Step 2 Enter this command:

```
utils cisco_mobile_connect_users_insert
```

The system prompts with the following question:

```
Do you want to delete all the cisco mobile connect users from the
database (Y/N):
```

Do one of the following:

- Select **y**, to delete the user information from the database and insert the contents of the new userinfo.csv file into the database.
- Select **n**, to skip bulk deletion and proceeds with normal bulk insertion of userinfo.csv contents into the database.

Step 3 Log in to the Cisco Unified Mobility administration web interface.

Step 4 Choose **System > Data Synchronization**.

- Step 5** Click **Start Now** to begin data synchronization and load the Mobile Connect users into memory.
-

The following information applies to bulk provisioning:

- The user data is not validated by way of an AXL request to Cisco Unified Communications Manager.
- If the file format is incorrect, the bulk provisioning is executed, but the information is not added to the user database.
- Each user ID is associated with only one remote destination.

Platform CLI Commands

The following CLI commands are supported:

- **file check**
- **show firewall**
- **show logins**
- **show open files**
- **show open ports**
- **show timezone config**
- **unset network dns**
- **utils cisco_mobile_connect_users_insert**
- **utils get_cisco_mobile_connect_users_info**
- **utils reset_ui_administrator_password**

Limitations and Restrictions

This section describes limitations and restrictions that apply to Cisco Unified Mobility Release 1.2(5).

Cryptographic Features

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at: <http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>.

If you require further assistance please contact us by sending email to export@cisco.com.

Supported MCS Servers

The following MCS servers are supported for Cisco Unified Mobility Release 1.2(5):

- MCS-7815-I1 (3.0 GHz)
- MCS-7815-I2
- MCS-7816-H3
- MCS-7816-I3
- MCS-7825-H1 (3.4 GHz)
- MCS-7825-H2
- MCS-7825-H3
- MCS-7825-I2
- MCS-7825-I3

- MCS-7835-H1 (3.4 GHz)
- MCS-7835-H1 retrofit
- MCS-7835-H2
- MCS-7835-I1 (3.4 GHz)
- MCS-7835-I1 retrofit
- MCS-7835-I2
- MCS-7845-H1 (3.4 GHz dual processor)
- MCS-7845-H1 retrofit
- MCS-7845-H2
- MCS-7845-I1 (3.4 GHz dual processor)
- MCS-7845-I1 retrofit
- MCS-7845-I2

**Note**

Cisco Unified Mobility Release 1.2(5) does not currently support the MCS-7825-I1 server.

Server Information

The following notes apply to server upgrades for Cisco Unified Mobility:

- Moving hard disk drives from one server model to another is not supported (for example, MCS-7845-H1 to MCS-7845-H2). For example, the MCS-7845-H1 disks are SCSI based, while the MCS-7845-H2 disks are SAS based. Moving SCSI disks to an MCS-7845-H2 would cause an installation failure.
- Moving hard disk drives from one server to another server of the same model is not supported if done as part of an upgrade. There may be compatibility issues that relate to the different versions of Cisco Unified Mobility that are installed on the different disk drives.

Mozilla/Firefox Browsers

Cisco Unified Mobility does not support simultaneous login to the administrator and user web pages.

Caveats

This section contains these topics:

- [Using Bug Toolkit, page 12](#)
- [Open Caveats, page 13](#)
- [Resolved Caveats, page 13](#)

Using Bug Toolkit

Known problems (bugs) are graded according to severity level. These release notes contain descriptions of:

- All severity level 1 or 2 bugs.
- Significant severity level 3 bugs.

You can search for problems by using the Cisco Software Bug Toolkit.

To access Bug Toolkit, you need the following items:

- Internet connection
- Web browser
- Cisco.com user ID and password

To use the Software Bug Toolkit, follow these steps:

Procedure

- Step 1** To access the Bug Toolkit, go to http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl.
- Step 2** Log on with your Cisco.com user ID and password.
- Step 3** Click the **Launch Bug Toolkit** hyperlink.

- Step 4** To look for information about a specific problem, enter the bug ID number in the “Enter known bug ID” field and click **Search**.

Open Caveats

[Table 1](#) lists Severity 1, 2 and 3 defects that are open for Cisco Unified Mobility Release 1.2(5).

For more information about an individual defect, you can access the online record for the defect by clicking the Identifier or going to the URL shown. You must be a registered Cisco.com user to access this online information.

Because defect status continually changes, be aware that [Table 1](#) reflects a snapshot of the defects that were open at the time this report was compiled. For an updated view of open defects, access Bug Toolkit as described in the [Using Bug Toolkit, page 12](#).

Table 1 *Open Caveats for Cisco Unified Mobility Release 1.2(5)*

Identifier	Headline and Bug Toolkit Link
CSCse34538	Cannot view file using CLI file view activelog http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse34538
CSCsh21594	File format is not checked for the <code>utils cisco_mobile_connect_users_insert</code> command http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsh13165

Resolved Caveats

[Table 2](#) lists Severity 1, 2 and 3 defects that are resolved for Cisco Unified Mobility Release 1.2(5).

For more information about an individual defect, you can access the online record for the defect by clicking the Identifier or going to the URL shown. You must be a registered Cisco.com user to access this online information.

Because defect status continually changes, be aware that [Table 2](#) reflects a snapshot of the defects that were resolved at the time this report was compiled. For an updated view of resolved defects, access Bug Toolkit as described in the [“Using Bug Toolkit”](#) section on page 12.

Table 2 **Resolved Caveats for Cisco Unified Mobility Release 1.2(5)**

Identifier	Headline and Bug Toolkit Link
CSCsc06315	System parameter default values shown in the help page are incorrect http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsc06315
CSCsc69509	The join feature does not work for mobile pickup calls with the Select option http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsc69509
CSCsc70192	If Cisco Unified Communications Manager 5.0.1 is connected to an H.323 gateway, Call Park interaction with Cisco Unified Mobility cell pickup does not work properly http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsc70192
CSCsc86924	Cisco Unified Mobility does not verify that the LDAP information that is entered works http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsc86924
CSCsd42377	Adding a user requires that AXL server settings be configured on the System page http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd42377
CSCsd45744	Cisco Unified Mobility SNMP provides the wrong information for sysObjectID and sysName http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd45744
CSCsd45760	Cisco Unified Mobility should provide MIB configuration information for system contact and location http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd45760
CSCsd48604	A SQLException occurs in the log following successful login to Cisco Unified Mobility administration http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd48604
CSCsd52890	MTP should be checked in the SIP trunk to have a voice path in the mobile phone http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd52890

Table 2 **Resolved Caveats for Cisco Unified Mobility Release 1.2(5) (continued)**

Identifier	Headline and Bug Toolkit Link
CSCsd55789	<p>The show account fails after changing the IP address from the GUI right after a fresh install</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd55789</p>
CSCsd56373	<p>Users should be prompted for the Directory User Setting whenever an older version of Cisco Unified Mobility is used</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd56373</p>
CSCsd56406	<p>The CLI command show/set web-security pair should be either supported or removed</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd56406</p>
CSCsd56408	<p>CLI command utilities network capture eth0/eth1 does not work if CSA is on</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd56408</p>
CSCsd56410	<p>A CLI command set for password security should be added</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd56410</p>
CSCsd56639	<p>The Backup Scheduler should give a warning if no features are selected</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd56639</p>
CSCsd61648	<p>When multiple CTI links are out of service, an alarm is created only for the last out of service link</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd61648</p>
CSCsd68388	<p>The show cert trust command is not supported in the CLI</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd76348</p>
CSCsd99095	<p>AXL device lookup fails with special characters in password (resolved in Cisco Unified Communications Manager)</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsd99095</p>
CSCse31107	<p>CTI Userids changed to all uppercase</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse31107</p>
CSCse31316	<p>User cannot update the shared ports and out port users</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse31316</p>

Table 2 **Resolved Caveats for Cisco Unified Mobility Release 1.2(5) (continued)**

Identifier	Headline and Bug Toolkit Link
CSCse34483	Upgraded from 121 to 122, CLI show hardware shows unknown http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse34483
CSCse36706	LDAP directory Admin password in plain text in web source file http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse36706
CSCse51453	SNMP Description shows wrong platform type http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse51453
CSCse55253	During fresh install, DVD found/media check shown two or three times http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse55253
CSCse55259	No progress indication during the last 20 minutes of software upgrade http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse55259
CSCse58976	Delete account does not work http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse58976
CSCse62590	Remove IBM model number in hardware table, Data Product Name MTM field http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse62590
CSCse97812	SNR/Mobility Manager. IOS Error “vxml version 1.0 not supported” http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse97812
CSCse98352	Multiple Shared Line User Links should be used for bulk calls http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCse98352
CSCsg66392	Third prompt is not played after no user ID is given http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsg66392
CSCsg75822	Cisco Unified Communications Manager may hang during upgrade due to IBM Director Agent cimlistener hang http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsg75822

Table 2 **Resolved Caveats for Cisco Unified Mobility Release 1.2(5) (continued)**

Identifier	Headline and Bug Toolkit Link
CSCsh13165	<p>Need to configure the calling search space for the CTI outgoing port line level for Mobile Connect to work</p> <p>Note This issue occurs only in Cisco Unified Communications Manager releases prior to 4.3.1. The issue is resolved in Cisco Unified Communications Manager release 4.3.1.</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsh13165</p>
CSCsh15196	<p>Time setting issue for daylight savings</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsh15196</p>
CSCsh50712	<p>BIOS flash utility corrupted on 7835I2/7845I2 servers</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsh50712</p>
CSCsh58558	<p>BIOS flash forced on HP servers</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsh58558</p>
CSCsh63934	<p>CPU Occ Stuck ~95% From Multiple Tomcat Sessions After TLS Security Testa (SUN JDK upgrade to 1.4.2_14)</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsh63934</p>
CSCsi35148	<p>Mobile Connect call does not end after EVENT_TIMEOUT_HANGUP</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsi35148</p>
CSCsi51770	<p>Cisco Unified Mobility sends wrong calling party after blind transfer</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsi51770</p>
CSCsi53892	<p>Cisco Unified Mobility migration tool does not provision for multiple device pool users and calling search space</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsi53892</p>
CSCsi53933	<p>RDP csv file description field is empty</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsi53933</p>
CSCsi57680	<p>Installation fails to configure BIOS settings on 7835-I2 and 7845-I2</p> <p>http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsi57680</p>

Table 2 **Resolved Caveats for Cisco Unified Mobility Release 1.2(5) (continued)**

Identifier	Headline and Bug Toolkit Link
CSCsi77233	IBM critical BIOS v1.26 fix for 7816-I3, 7825-I3 fix http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsi77233
CSCsj08298	Cisco Unified Mobility does not accept Cisco Unified Communications Manager version 5.1 and 4.3 in the system parameter http://www.cisco.com/cgi-bin/Support/Bugtool/onebug.pl?bugid=CSCsj08298

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information about obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and recommended aliases and general Cisco documents, see the monthly What’s New in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Cisco Product Security Overview

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at: <http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>. If you require further assistance please contact us by sending email to export@cisco.com.

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