



Release Notes for Cisco Unified CallManager Release 5.1(1b)

February 13, 2007

These release notes describe the new features and caveats for Cisco Unified CallManager Release 5.1(1b).



Note

To view the release notes for previous versions of Cisco Unified CallManager, choose the Cisco Unified CallManager version from the following URL:

http://www.cisco.com/en/US/products/sw/voicesw/ps556/prod_release_notes_list.html

Before you install Cisco Unified CallManager, Cisco recommends that you review the “[Important Notes](#)” section on page 4 for information about issues that may affect your system.



Note

To ensure continuous operation and optimal performance of your Cisco Unified CallManager system, you must upgrade to Cisco Unified CallManager 5.1(1b). If you ordered and received a server that is preloaded with Cisco Unified CallManager 5.0(4), you can download Cisco Unified CallManager software, version 5.1(1b) at Cisco.com.

Cisco recommends that you check Cisco.com for the latest software updates to Cisco Unified CallManager and its applications and download and install the latest updates on your system before the deployment of your Cisco Unified CallManager system. For a list of commonly used URLs, see the “[Upgrading System Software](#)” section on page 3.

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Introduction

Cisco Unified CallManager, a network business communication system, provides high-quality telephony over IP networks. Cisco Unified CallManager enables the conversion of conventional, proprietary, circuit-switched PBXs to multiservice, open LAN systems.

System Requirements

Make sure that you install and configure Cisco Unified CallManager Release 5.1(1b) on a Cisco Media Convergence Server (MCS).

You may also install Cisco Unified CallManager on a Cisco-approved HP server configuration or a Cisco-approved IBM server configuration.

Cisco Unified CallManager 5.1(1b) requires a minimum of the following items on the Cisco MCS servers.

- 2 GB of memory
- 72 GB disk drive
- 2 GHz processor

Supported Platforms

To find which servers support the Cisco Unified CallManager 5.1(1b) release, refer to the *Guide to Cisco CallManager Upgrades and Server Migrations* at

http://www.cisco.com/en/US/partner/products/hw/voiceapp/ps378/prod_brochure_list.html

Determining the Software Version

To determine the software version of Cisco Unified CallManager, open Cisco Unified CallManager Administration. The following information displays:

Cisco Unified CallManager System version

Cisco Unified CallManager Administration version

Cisco recommends that you connect each Cisco Unified CallManager node to an uninterruptible power supply (UPS) to provide backup power and protect your system against a power failure.

Upgrading System Software

You can access the latest software upgrades for Cisco Unified CallManager 5.1 on Cisco.com. [Table 1](#) lists the URLs from which you download the software.

Table 1 Download URLs for Software Upgrades

Software	Download URL
Cisco Unified CallManager 5.1	http://www.cisco.com/cgi-bin/tablebuild.pl/callmgr-51
Locale installers	http://www.cisco.com/kobayashi/sw-center/telephony/callmgr/locale-installer.shtm
Phone firmware	http://www.cisco.com/cgi-bin/tablebuild.pl/ip-7900ser http://www.cisco.com/cgi-bin/tablebuild.pl/ip-7900ser-crypto
Cisco Security Agent (CSA)	http://www.cisco.com/cgi-bin/tablebuild.pl/cmva-3des
Upgrade Assistant	http://www.cisco.com/cgi-bin/tablebuild.pl/callmgr-utilpage

Related Documentation

The documentation that supports Cisco Unified CallManager Release 5.1(1b) comprises existing release 5.0(4) documentation that is listed in the *Cisco Unified CallManager Release 5.1(1) Documentation Guide*, as well as the following new release 5.1(1) documents:

Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)

Release 5.1(1b) Release Notes for Cisco Unified CallManager

Upgrading Cisco Unified CallManager, Release 5.1(1)

Installing Cisco Unified CallManager, Release 5.1(1)

Data Migration Assistant Administration Guide, Release 5.1(1)

Cisco Unified Communications Operating System Administration Guide, Release 5.1(1)

Cisco Unified Communications Locale Installer Release Notes for Cisco Unified CallManager, Release 5.1

The *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*, a new document, applies specifically to release 5.1(1b)

Limitations and Restrictions

A recommendation of compatible software releases that have been verified by the test for customers represents a major deliverable of the Cisco Unified Communications System testing. The recommendations, which are not exclusive, represent an addition to interoperability recommendations for each individual voice application or voice infrastructure product.

For a list of Software and Firmware versions of IP telephony components that were tested for interoperability with Cisco Unified CallManager 5.1(1) as part of Unified Communications System Release 5.1(1) testing, see

<http://www.cisco.com/univercd/cc/td/doc/systems/unified/uc511/relnotes/rnipt511.htm>

For a list of Software and Firmware versions of contact center components that were tested for interoperability with Cisco Unified CallManager 5.1(1) as part of Unified Communications System Release 5.1(1) testing, see

<http://www.cisco.com/univercd/cc/td/doc/systems/unified/uc511/relnotes/rnipc511.htm>.

**Note**

Be aware that the release of Cisco IP telephony products does not always coincide with Cisco Unified CallManager releases. If a product does not meet the compatibility testing requirements with Cisco Unified CallManager, you need to wait until a compatible version of the product becomes available before you can upgrade to Cisco Unified CallManager release 5.1(1b). For the most current compatibility combinations and defects that are associated with other Cisco Unified Communications products, refer to the documentation that is associated with those products.

Important Notes

The following section contains important information that may have been unavailable upon the initial release of documentation for Cisco Unified CallManager Release 5.1(1b).

- [CSCsh58558 BIOS Flash Not Forced, page 4](#)
- [CSCsh50712 IBM 7835I2 Server BIOS Flash Files Corrupt, page 5](#)
- [CSCsh50685 IBM BIOS MTM Change, page 5](#)
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- [Upgrading from Cisco Unified CallManager Release 5.0\(4\) to Release 5.1\(1b\), page 7](#)
- [MTP and Cisco Unified SIP IP Phones, page 7](#)
- [Rebuilding RAID Drives, page 8](#)
- [Cisco Unified Communications Answer File Generator, page 10](#)
- [Using SIP Trunks Between Release 4.x and 5.x Systems, page 10](#)
- [Configuring SIP Phones With Same Directory Number, page 11](#)

CSCsh58558 BIOS Flash Not Forced

Hewlett Packard servers forced the BIOS flash during a fresh install if the BIOS version on the server did not match the Cisco Unified CallManager image version. This has been changed so that the BIOS does not get flashed when the server has a later (newer) BIOS than what exists on the Cisco Unified CallManager release.

CSCsh50712 IBM 7835I2 Server BIOS Flash Files Corrupt

On the Cisco 7835I2 server, in the case of a fresh software-only installation, if the server purchased from IBM has a newer BIOS version than the one bundled in Cisco Unified CallManager, the installation will fail.

Workaround

1. Download the newer BIOS version 1.03 file (ibm_fw_bios_gge123a_linux_intel32.sh) from <http://www-304.ibm.com/jct01004c/systems/support/supportsite.wss/docdisplay?Indocid=MIGR-64527&brandind=5000008>.
2. Copy that shell script file to the 7835I2 server and set "-x" execute permission.
3. Run the shell script file with "-s" option (for example: /ibm_fw_bios_gge123a_linux_intel32.sh -s). This will flash the BIOS to version 1.03.
4. Now you can install Cisco Unified CallManager Release 5.1(1b) and it should flash the BIOS to 1.01.

CSCsh50685 IBM BIOS MTM Change

Software only IBM servers (including 7815I2, 7825I2-2800, 7825I2-3400, 7835I1, 7835I2, 7845I1) purchased after IBM rolled out their Xcellator ordering process are impacted and the installation of Cisco Unified CallManager Release 5.1(1) will fail.

Workaround

Check with IBM about the new MTM strings of the server model you purchased, and the correct MTM string to set back for Cisco Unified CallManager installation to work.

Below is a list of what should be added for the AC1 models.

Table 2 MTM Strings to add for AC1 Models

Description	Current	Add
7815-I2 x206m, 1yr.	8485-7AY	8485-AC1
7815-I2 x206m, 1yr.	8485-7AY	8485-AC1
7815-I2 x206m, 3yr.	8490-7AY	8490-AC1
7825-I2 x306m (P920), 1 yr.	8849-G2Y	8849-AC1
7825-I2 x306m (P920), 1 yr.	8849-G2Y	8849-AC1
7825-I2 x306m (P920), 3 yr.	8491-G2Y	8491-AC1
7825-I2 x306m (P920), 3 yr.	8491-G2Y	8491-AC1
7825-I2 x306m (P950), 1 yr.	8849-K2Y	8849-AC1
7825-I2 x306m (P950), 3 yr.	8491-K2Y	8491-AC1
7835-I1 x346 (RoHS)	8840-3RY	8840-AC1
7845-I1 x346 (RoHS)	8840-3RY	8840-AC1
7835-I2 x3650	7979-5AY	7979-AC1

**Note**

You must contact IBM field support or manually change the MTM string on existing servers to avoid this issue.

To change the MTM:

-
- Step 1** Run the installation DVD.
 - Step 2** When the system stops with an error message regarding invalid BIOS version, press **alt F2**.
 - Step 3** A root prompt will display.
 - Step 4** Enter **dmidecode | more** and press **Enter**.
 - Step 5** Write down the Version and Release Date values.
 - Step 6** Enter **q** to exit the more command.
 - Step 7** Enter **cd /mnt/source/Cisco/vendor/IBM/data/BIOS-Updates/<server>** and press **Enter**.
 - Step 8** Enter **mkdir /tmp/t** and press **Enter**.
 - Step 9** Enter **cp flashit.sh /tmp** and press **Enter**.
 - Step 10** Enter **cd /tmp** and press **Enter**.
 - Step 11** Enter **chmod a+x flashit.sh** and press **Enter**.
 - Step 12** Enter **./flashit.sh -x /tmp/t** and press **Enter**.
 - Step 13** Enter **cd /tmp/t** and press **Enter**.
 - Step 14** Enter **./lflash -m 8849G2U** and press **Enter**.

**Note**

This will change the model number on the IBM server to 8849-G2U.

- Step 15** Press **alt F1**
- Step 16** This will return you to the installation window.
- Step 17** Click **Cancel installation** or whatever option you have to make the system shutdown. If nothing is available, then it is safe to manually shut down the server.

CSCsh20023 Some Browsers and WinZip

When downloading the Cisco Unified CallManager upgrade patch file from cisco.com, some browsers may download files with the extension **tar.gz.sgn** as **tar.gz.gz**.

Workaround

After the patch file is downloaded, rename it with the extension **.gz.sgn** (in place of **.gz.gz**) and proceed with the install.

CSCsh50754 Do Not Install Cisco Unified CallManager Release 5.1(1) or 5.1(1a) on Hewlett Packard 78352 or 7845H2 Windmill Servers

If you install Cisco Unified CallManager Release 5.1(1) or 5.1(1a) on Hewlett Packard's 7835H2 or 7845H2 Windmill server, the server will become non-bootable.

Workaround

Do not install Cisco Unified CallManager Release 5.1(1) or 5.1(1a) on the new servers. You must install Cisco Unified CallManager Release 5.1(1b) instead.

Cisco Unified CallManager Release 5.1(1) Documents

The following Cisco Unified CallManager Release 5.1(1) books are applicable to Cisco Unified CallManager Release 5.1(1b).

- *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- *Upgrading Cisco Unified CallManager, Release 5.1(1)*
- *Installing Cisco Unified CallManager, Release 5.1(1)*
- *Data Migration Assistant Administration Guide, Release 5.1(1)*
- *Cisco Unified Communications Operating System Administration Guide, Release 5.1(1)*

Upgrading from Cisco Unified CallManager Release 5.0(4) to Release 5.1(1b)

During the upgrade of Cisco Unified CallManager, the server experiences high disk I/O activity. This can adversely impact call processing. In the worst case, phones that are currently registered with that Cisco Unified CallManager server may failover to their backup server. Cisco strongly recommends that you ensure that all trace levels are set to the default level on all servers in your cluster before you start the upgrade process.

Furthermore, if you have concerns that the upgrade may impact call-processing service, Cisco recommends that you perform the upgrade during off-peak hours. If you want to minimize the disruptions to the call processing service, you may choose to stop the Cisco Unified CallManager service on the server before you start the upgrade process.

As always, follow standard best practices while performing a Cisco Unified CallManager upgrade.

MTP and Cisco Unified SIP IP Phones

You can configure Cisco Unified CallManager SIP devices (lines and trunks) to always use an MTP. If the configuration parameters are set to not use an MTP (default case), Cisco Unified CallManager will attempt to dynamically allocate an MTP if the DTMF methods for the call are not compatible.

For example, SCCP phones support only out-of-band DTMF, and Cisco Unified SIP IP phones (7905, 7912, 7940, 7960) support RFC2833. Because the DTMF methods are not identical, Cisco Unified CallManager will dynamically allocate an MTP.

If, however, a SCCP phone that supports RFC2833 and out-of-band use, such as Cisco Unified IP Phone 7971, calls a Cisco Unified SIP IP Phone 7940, Cisco Unified CallManager will not allocate an MTP because both phones support RFC2833. Because the same type of DTMF method is supported on each phone, no need exists for an MTP.

**Note**

Cisco Unified CallManager 5.0 and later provides an "MTP Required" check box for Cisco Unified SIP IP Phones, but you **should not** check this check box for Cisco Unified SIP IP Phones.

If you check the "MTP Required" check box you may experience problems with Cisco Unified CallManager features such as Shared Line.

When you leave this check box unchecked, Cisco Unified CallManager will still insert MTPs dynamically as needed, so you will experience no benefit from checking the "MTP Required" check box for Cisco Unified SIP IP Phones.

Although this configuration option for Cisco Unified SIP IP Phones may be removed in a future Cisco Unified CallManager release, Cisco will continue to support it for generic third-party SIP phones.

Rebuilding RAID Drives

A RAID drive may fail and may require manual intervention to rebuild one of the physical drives in a logical pair during normal Cisco Unified CallManager operation.

RAIDed disks, also termed RAID arrays, get arranged in logical pairs. A single logical pair comprises two physical drives. The system keeps the pair of drives in sync with the same data in real time to provide redundancy ultimately for data integrity and assurance. When one physical drive fails to synchronize or begins to experience read or write failures, you may need to rebuild the drive. Many things can cause the failure, but the main concern remains whether the data in a logical drive pair is compromised due to failures in one of the physical drives.

Monitoring software usually detects RAID failures, and failures get reported as a failed drive or a loss of drive redundancy. The procedure for rebuilding a failing drive follows and applies to all Cisco MCS model 7825, 7835, and 7845 servers.

First, check the status of the RAID array by using the CLI **show hardware** command and verify whether the Status field reads Ok or Okay. An example follows:

```
admin:show hardware
HW Platform      : 7835I
Processors       : 1
Type             : Intel(R) Xeon(TM) CPU 3.06GHz
CPU Speed        : 3066
Memory           : 2048 MBytes
Object ID        : 1.3.6.1.4.1.9.1.585
OS Version       : UCOS 2.0.1.0-37
RAID Details     :
Found 1 IBM ServeRAID controller(s).
Read configuration has been initiated for controller 1...
```

 Logical drive information

Logical drive number 1

Status of logical drive : Okay (OKAY)
 RAID level : 1
 Size (in MB) : 70006
 Write cache status : Temporary write through (TWT)
 Number of chunks : 2
 Stripe-unit size : 8 KB
 Access blocked : No
 Part of array : A

Array A stripe order (Channel/SCSI ID) : 1,0 1,1 Command completed successfully.

If the RAID array status field does not read Ok or Okay (for example, shows Degraded or Critical), perform the following steps:

1. Log in to console and enter the CLI command, **utils system shutdown**.

For information on how to access the console to perform CLI commands, see the *Cisco Unified Communications Operating System Administration Guide*.

2. Power off the server (press power off button).
3. Extract the failed disk drive.
4. Power up the server (press power on button).
 - a. If the server is an IBM server (for example, a 7825I, 7835I, or 7845I), the following menu will display during system reboot:


```
1:ServeRAID-5i Slot 2, Logical drv=1, Firmware=7.12.07, Status=Fail
1 Drive(s) not responding or found at new location(s)
Press F2 Detailed information
    F4 Retry the command
    F5 Change the configuration and set the drive(s) defunct
    F10 Continue without changing the configuration
```

 - b. Press F5
5. After the login prompt appears in the console window, log in and check the status of the RAID array by using the CLI **show hardware** command; the Status field should read Degraded or Critical.
6. Insert the failed disk drive into the original slot; be sure to lock it properly in place.
7. Check the status of the RAID array by using the CLI **show hardware** command; the Status field will read Rebuilding or Critical.
8. After an hour, recheck the status of the RAID array by using the CLI **show hardware** command and verify that the Status field reads Ok or Okay.

If the status does not read Ok or Okay, you may need to replace the physical drive.

Cisco Unified Communications Answer File Generator

Cisco Unified CallManager Release 5.1(1b) includes a web application that is called Cisco Unified Communications Answer File Generator that is used to generate answer files for unattended installations of Cisco Unified CallManager Release 5.0(1) and later. Individual answer files get copied to a USB key or a floppy diskette that accompanies the Cisco Unified CallManager DVD during the installation process.

The web application supports the following features:

- Allows simultaneous generation and saving of answer files for unattended installs on the publisher server and all subscriber servers.
- Provides syntactical validation of data entries
- Provides online help and documentation

The following usage requirements apply:

- The web application supports only fresh installs (for example, it does not include upgrades).
- If DHCP client is being used on the publisher server, and subscriber server answer files are also being generated, you must specify the publisher server IP address.

You can access the Cisco Unified Communications Answer File Generator at the following URL:

http://www.cisco.com/web/cuc_afg/index.html

The Cisco Unified Communications Answer File Generator supports Internet Explorer version 6.0 or higher and Mozilla version 1.5 or higher.

If a USB key is being used to perform an unattended installation of Cisco Unified CallManager, you may need to reformat the USB key to the FAT32 file system beforehand. You need to reformat especially in the case of USB keys with larger storage capacity (for example, 1 Gigabyte) that are formatted with the FAT file system.

You can use the Windows XP Disk Management Utility to reformat a USB key to the FAT32 file system as follows (you might need to be logged in as an administrator or a member of the Administrators group to perform these tasks):

1. Insert the USB key into a USB slot on the Windows XP PC.
2. Choose **Start > Control Panel > Administrative Tools** and then double-click Computer Management.
3. Expand the Storage tree and click Disk Management.
4. Right-click the Removable Disk icon and click Format. You may be asked whether you are sure that you want to format this partition; click Yes.
5. Click the File System: pull down and select FAT32.
6. Click OK. When prompted to format the volume, click OK again.
7. The Removable Disk icon text should now show the file system format as FAT32.

Using SIP Trunks Between Release 4.x and 5.x Systems

Cisco Unified CallManager Release 5.0 and later and Cisco Unified CallManager Release 4.0 and later support TCP and UDP as Transport Types when they are used with SIP trunks. However, release 4.x uses one TCP connection per SIP call; 5.x supports multiple SIP calls over the same TCP connection (referred to as TCP connection reuse).

The following Cisco products support TCP; however, not all support TCP Reuse (see [Table 3](#) for more information):

- Cisco Unified CallManager Release 4.1 - No TCP Connection Reuse
- Cisco Unified CallManager Release 4.2 - No TCP Connection Reuse
- Cisco Unified CallManager Release 5.0(2) - TCP Connection Reuse
- Cisco Unified CallManager Release 5.0(4) - TCP Connection Reuse
- Cisco Unified CallManager Release 5.1(1) - TCP Connection Reuse
- Cisco IOS 12.3(8)T and above - TCP Reuse
- Cisco IOS 12.3(8)T and below - No TCP Reuse

[Table 3](#) lists the SIP trunk connectivity that is supported between Cisco Unified CallManager Release 4.x and 5.x and the IOS gateway.

Table 3 *SIP Trunk Compatibility Matrix*

	Cisco Unified CallManager Release 4.x	Cisco Unified CallManager Release 5.x	IOS 12.3(8)T	IOS 12.3(8)T Below
Cisco Unified CallManager Release 4.x	UDP/TCP	UDP only	UDP only	UDP/TCP
Cisco Unified CallManager Release 5.x	UDP only	UDP/TCP	UDP/TCP	UDP only
IOS 12.3(8)T	UDP only	UDP/TCP	UDP/TCP	UDP only
IOS 12.3(8)T Below	UDP/TCP	UDP only	UDP only	UDP/TCP

If a release 5.x system makes multiple calls over a TCP-based SIP trunk to a 4.x system, the 4.x system will only connect one call. The rest of the calls will not get connected. When using SIP trunks between 4.x and 5.x systems, you must configure both systems to use UDP as the Outgoing Transport Type, so calls between the release 4.x and 5.x systems will connect properly. (See [Table 3](#).)

To configure UDP, use Cisco Unified CallManager Administration.

- For Cisco Unified CallManager release 5.0 and later that is connecting to a Release 4.x system, choose UDP as the Outgoing Transport Type from the SIP Trunk Security Profile Configuration window.
- For Cisco Unified CallManager release 4.0 and later that is connecting to a Release 5.x system, choose UDP as the Outgoing Transport Type from the Trunk Configuration window.

For more information about SIP trunks, see the *Cisco Unified CallManager System Guide* and the *Cisco Unified CallManager Administration Guide*.

Configuring SIP Phones With Same Directory Number

Cisco Unified SIP IP Phones 7906, 7911, 7941, 7961, 7970, and 7971 can support multiple lines with the same directory number in different partitions. However, configuring and using other Cisco Unified SIP IP Phones with multiple lines with the same directory number do not get supported.

New and Changed Information for Cisco Unified CallManager Release 5.1(1b)

The following sections describe new features and changes that are pertinent to Cisco Unified CallManager, Release 5.1(1b) or later. The sections may include configuration tips for the administrator, information about users and where to find more information.

- [New and Changed Information for Cisco Unified CallManager Administration, page 12](#)
- [New and Changed Information for Cisco Unified Communications Operating System Administration, page 17](#)
- [New and Changed Information for Cisco Unified CallManager Features, page 17](#)
- [New and Changed Information for Cisco Unified CallManager Applications, page 21](#)
- [New and Changed Information for Cisco Unified CallManager Bulk Administration Features, page 22](#)
- [New and Changed Information for Cisco Unified CallManager Serviceability, page 23](#)
- [New and Changed Information for Third-Party API, page 25](#)
- [New and Changed Information for Cisco Unified IP Phones, page 26](#)

New and Changed Information for Cisco Unified CallManager Administration

The following sections describe the Cisco Unified CallManager 5.1 Administration enhancements:

- [Cisco Unified CallManager Installation, page 12](#)
- [General Administration Enhancements, page 13](#)
- [Service Parameter Changes, page 13](#)
- [Cisco Unified CallManager Administration Menu Updates, page 14](#)
- [Third-Party SIP Phone Enhancements, page 14](#)
- [Phone Configuration Enhancements, page 14](#)
- [Phone Button Configuration Enhancements, page 14](#)
- [License Capabilities Assignment, page 14](#)
- [Call Forward Overriding, page 15](#)
- [Enterprise Parameter Changes, page 15](#)
- [Additional Corporate Directory Support, page 16](#)

Cisco Unified CallManager Installation

Cisco Unified CallManager 5.1 includes the following installation enhancements.

- **New network connectivity checking**—The installation program checks for network connectivity. If the network is not accessible, you have several options for how to proceed with the installation.
- **New hostname and IP assignment during upgrade**—The upgrade installation program now allows you to use a different hostname or IP address on the upgraded system.

For more information

- *Installing Cisco Unified CallManager Release 5.1(1)*
- *Upgrading Cisco Unified CallManager Release 5.1(1)*

Data Migration Assistant (DMA) 5.1 includes the following enhancements:

- DMA migrates data for upgrades of Cisco Emergency Responder (CER) 1.3.
- Enhanced interaction between DMA and Cisco Security Agent for Cisco Unified CallManager (CSA) occurs. Depending on the versions of DMA and CSA that you are using, you may possibly leave CSA enabled while DMA runs. In other cases, DMA automatically disables CSA while it is running, and in some cases you must disable CSA manually while you are running DMA.

For more information

- *Data Migration Assistant User Guide Release 5.1(1)*.

General Administration Enhancements

The following requirements apply to Cisco Unified CallManager Administration:

- Microsoft Internet Explorer (IE) 6.0
- Netscape 7.1 or higher

**Note**

This release does not support Microsoft IE 5.5 and 7.0 or Netscape 7.0.

Service Parameter Changes

Cisco Unified CallManager 5.1 supports the following service parameter changes:

- The TFTP Service Parameter no longer includes the Enable Caching of Configuration Files option.
- Immediate Divert (iDivert) includes the following new service parameters:
 - Use Legacy iDivert
 - Allow QSIG During iDivert
 - iDivert User Response Timer

See the [“Immediate Divert Enhancements” section on page 18](#) for more information.
- The Cisco Database Layer Monitor service includes a new service parameter, “Send Valid Namespace in AXL Response.” See the [“New AXL Service Parameter” section on page 26](#) for more information.
- Cisco Unified CallManager provides a new service parameter, CFA Destination Override, that allows the administrator to override Call Forward All (CFA) when the target of the CFA calls the initiator of the CFA, so the CFA target can reach the initiator for important calls. See the [“Call Forward All Override” section on page 19](#) for more information.
- Two Cisco Unified CallManager service parameters relate to the Enhanced iDivert feature:
 - Use Legacy Immediate Divert-This clusterwide service parameter defines whether the legacy iDivert behavior is maintained or the new Enhanced iDivert behavior is adopted. If the Use Legacy iDivert service parameter is set to True, the user can divert an incoming call only to the voice mailbox of the user.

- Allow QSIG during iDivert–IDivert diverts calls to voice-messaging systems that can be reached over QSIG, SIP and QSIG-enabled H.323 devices if the clusterwide service parameter is set to True.

Cisco Unified CallManager Administration Menu Updates

The System menu in Cisco Unified CallManager Administration includes the License Capabilities option (**System > Licensing > Capabilities Assignment**).

Third-Party SIP Phone Enhancements

The following enhancements took place to third-party SIP phones in Release 5.1(1b):.

Third-Party SIP Phone Configuration Enhancements

The Basic and Advanced Third-Party SIP Phone Configuration windows include a check box that is called Require DTMF Reception.

Migrating from Cisco Unified CallManager Release 5.0(1), and Above, to Cisco Unified CallManager Release 5.1(1b)

In Cisco Unified CallManager Release 5.1(1b) and above, certain characteristics for Basic and Advanced Third-Party SIP Phones changed. These characteristics include changes to the Maximum Number of Calls per Device, Default Maximum Number of Calls per DN, and Default Busy Trigger per DN fields that display on the Directory Number Configuration window in Cisco Unified CallManager Administration. See the *Cisco Unified CallManager New and Changed Information Guide* for more information.

Phone Configuration Enhancements

Use the Phone Configuration window to configure the Cisco TelePresence and the Cisco Unified IP Phone 7906 devices. For more information on Cisco TelePresence and the Cisco Unified IP Phone 7906, see the *Cisco Unified CallManager New and Changed Information Guide*.

Phone Button Configuration Enhancements

Use the Phone Button Configuration window to configure the default phone button template for Cisco TelePresence and Cisco Unified IP Phone 7906 SIP and SCCP. For more information on Cisco TelePresence and the Cisco Unified IP Phone 7906, see the *Cisco Unified CallManager New and Changed Information Guide*.

License Capabilities Assignment

Capabilities Assignment allows system administrators to enable the Cisco Unified Presence Server (CUPS) and Cisco Unified Personal Communicator (CUPC) capabilities for users. You must ensure that licenses for CUPS and CUPC are available.

Make license capabilities assignments to existing users. Before you begin, ensure that users exist on your system by choosing **User Management > End User** and clicking **Find**.

Before you begin configuring the capabilities assignments for users, determine how many CUPS (servers and clients) and CUPC licenses are required for your system by choosing **Licensing > License Unit Calculator**. Acquire the required licenses by using **Licensing > License File Upload**. Verify the total licenses by using **Licensing > License Unit Report**.

**Note**

Cisco Unified CallManager, Release 5.0(4) introduced License Capabilities Assignment. *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)* fully documents it.

Call Forward Overriding

You can configure the behavior of this Cisco Unified CallManager feature via service parameter CFADestinationOverride. When the feature is enabled on Cisco Unified CallManager, it allows the CFA Target to reach the CFA Initiator for important calls. TSP application that monitors the CFA initiator will receive call as normal if the call is initiated from the CFA target.

No TSP interface change occurs for this Cisco Unified CallManager feature.

For More Information

- License Capabilities Configuration, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- Configuring Non-Cisco SIP IP Phones, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- Cisco TFTP, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- Immediate Divert, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- Cisco Unified IP Phones, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- AXL Programming, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*

Enterprise Parameter Changes

Cisco Unified CallManager Release 5.1 supports the following enterprise parameter changes:

- Advertise G.722 Codec—This parameter determines whether Cisco Unified IP Phones will advertise the G.722 codec to Cisco Unified CallManager. Codec negotiation involves two steps. First, the phone must advertise the supported codec(s) to Cisco Unified CallManager (not all phones support the same set of codecs). Second, when Cisco Unified CallManager gets the list of supported codecs from all phones that are involved in the call attempt, it chooses a commonly supported codec based on various factors, including the region pair setting. This parameter only applies to Cisco Unified IP Phone 7941G, 7941G-GE, 7961G, 7961G-GE, 7970G, and 7971G-GE. Valid values specify True (the specified Cisco Unified IP Phones advertise G.722 to Cisco Unified CallManager) or False (the specified Cisco Unified IP Phones do not advertise G.722 to Cisco Unified CallManager). For more information, see the [“Phone Configuration—Product-Specific Configuration Changes”](#) section on page 16.

Phone Configuration—Product-Specific Configuration Changes

The Product-Specific Configuration area of the Phone Configuration window supports a new parameter, Advertise G.722 Codec. Use this parameter to override the enterprise parameter (see Advertise G.722 Codec in the “Enterprise Parameter Changes” section on page 15) on an individual phone basis.

Use this parameter to override the enterprise parameter (see Advertise G.722 Codec in the “Enterprise Parameter Changes” section on page 1-1) on a per-phone basis



Note

The default for the Advertise G.722 Codec enterprise parameter enables G.722 on all phones in the cluster. The default value of the phone configuration Advertise G.722 Codec Product-Specific parameter uses the value that the enterprise parameter setting specifies.

Table 4 indicates how the phone responds to the configuration options.

Table 4 *How Phone Responds to Configuration Settings*

Enterprise Parameter Setting	Phone (Product-Specific) Parameter Setting	Phone Advertises G.722
Advertise G.722 Codec Enabled (True)	Use System Default	Yes
Advertise G.722 Codec Enabled (True)	Enabled	Yes
Advertise G.722 Codec Enabled (True)	Disabled	No
Advertise G.722 Codec Disabled (False)	Use System Default	No
Advertise G.722 Codec Disabled (False)	Enabled	Yes
Advertise G.722 Codec Disabled (False)	Disabled	No

Cisco Unified CallManager supports G.722, which is a wideband codec, as well as a propriety codec simply named Wideband. Both represent wideband codecs. For more information on wideband codec, see the “Wideband Codec” section on page 26.

How the Parameters Work with Regions

When you choose a G.711 or G.722 codec in Region Configuration you are choosing the bandwidth utilization. Choosing either codec produces the same affect. When you choose either G.711 or G.722, these codecs disallow selecting codecs that have a payload greater than 64 kbps, such as the G.722 wideband codec and Advanced Audio Codec (ACC) (when ACC uses more than one channel).

If you choose a region that is lower than G.711 or G.722, the Advertise G.722 Codec enterprise parameter gets ignored because the system does not allow G.722, G.711, AAC, and wideband.

Additional Corporate Directory Support

The DirSync application performs the synchronization of data in the Cisco Unified CallManager database with the customer LDAP directory information. DirSync allows Cisco Unified CallManager to synchronize the data from more corporate directories than with previous releases. DirSync allows synchronization from Microsoft Windows Server 2000 and Windows Server 2003 Active Directory (AD), Netscape/iPlanet Directory, Sun ONE Directory Server 5.1, and Sun Java System Directory Server 5.2 to the Cisco Unified CallManager database.

User Tips

When directory synchronization is enabled, Cisco Unified CallManager Administration cannot update any user information that is synchronized from the customer Corporate Directory.

For More Information

Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)

New and Changed Information for Cisco Unified Communications Operating System Administration

Cisco Unified Communications Operating System Administration includes the following enhancement:

- [New CLI Commands and Command Options, page 17](#)

New CLI Commands and Command Options

You now have the following new CLI commands and command options available.

- show ipsec status
 - show logins
 - show network max_ip_contrack
 - show open
 - set commandcount
 - set network mtu
 - set network max_ip_contrack
 - set network pmtud
 - unset network dns options
 - utils core
 - utils dbreplication
 - utils iothrottle
 - utils reset_ui_administrator_password
 - utils sftp
- After uploading a file to the TFTP server, you must restart the TFTP service to access the file.

For more information

- *Cisco Unified Communications Operating System Administration Guide Release 5.1(1)*.

New and Changed Information for Cisco Unified CallManager Features

The following sections describe the Cisco Unified CallManager 5.1 feature enhancements:

- [Immediate Divert Enhancements, page 18](#)
- [Call Forward All Override, page 19](#)
- [AAC Voice Codec Support, page 20](#)

- [Arabic Language \(right to left\) Support, page 20](#)

Immediate Divert Enhancements

Legacy iDivert allows diversion of a call to the voice mailbox of the party that invokes the iDivert feature. Enhanced iDivert allows diversion of a call to either the voice mailbox of the party that invokes the iDivert feature or to the voice mailbox of the original called party.

You can divert inbound calls that are in the call offering, call on hold, or call active states. You can divert outbound calls in the call active or call hold states. The diverted party receives the greeting of the voice-messaging system of the party to whom the call gets diverted.

When enhanced iDivert mode is active for incoming calls, the user to whom a call is presented can invoke Immediate Divert to divert the call either to the user voice mailbox or to the voice mailbox of the original called party. After the invoking user presses the iDivert softkey, a screen on the invoking user phone identifies both the original called party and the invoking user. The user selects one of the two names, and the call gets redirected to the voice mailbox of the selected party.

Cisco Unified CallManager Administration Configuration Tips

- Configure appropriate service parameters.
- Configure the iDivert softkey.
- If using hunt lists and line groups, refer to the Limitations and Restrictions section of the Immediate Divert chapter in the *Cisco Unified CallManager New and Changed Information Guide*.
- If using QSIG trunks, refer to the Limitations and Restrictions section of the Immediate Divert chapter in the *Cisco Unified CallManager New and Changed Information Guide*.

Service or Enterprise Parameter Changes

Immediate Divert includes the following new service parameters:

- Use Legacy Immediate Divert
- Allow QSIG During iDivert
- Immediate Divert User Response Timer

User Tips

Users can use iDivert to send an active, ringing, or on-hold call to their voice messaging system. Depending on the type of call and their phone configuration, users can also use iDivert to send the call to the voice-messaging system of another party.

- If a call originally gets sent to the phone of someone else, iDivert allows the user to redirect the call either to the voice-messaging system or to the original called party voice-messaging system. The system administrator must make this option available.
- If a call gets sent to the user directly (not transferred or forwarded to the user) or if the user phone does not support the described option, using iDivert redirects the call to the voice-messaging system of the user.

See the Immediate Divert scenarios in the *Cisco Unified CallManager New and Changed Information Guide* for more information about using the enhanced Immediate Divert feature.

Cisco Unified IP Phone Support

- Cisco Unified IP Phone 7906G (SCCP and SIP)
- Cisco Unified IP Phone 7911G (SCCP and SIP)

- Cisco Unified IP Phone 7961G-GE (SCCP and SIP)
- Cisco Unified IP Phone 7941G-GE (SCCP and SIP)
- Cisco Unified IP Phone 7970G (SCCP and SIP)
- Cisco Unified IP Phone 7971G-GE (SCCP and SIP)
- Cisco Unified IP Phone 7905G (SCCP and SIP)
- Cisco Unified IP Phone 7912G (SCCP and SIP)
- Cisco Unified IP Phone 7960G (SCCP and SIP)
- Cisco Unified IP Phone 7940G (SCCP and SIP)

Call Detail Records Considerations

Immediate Divert uses the Immediate Divert code number in the On behalf of fields (for example, join On behalf Of and lastRedirectRediectOnBehalfOf) in CDR.

For More Information

- Immediate Divert, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- *Cisco Unified IP Phone User Guide For Your Phone*

Call Forward All Override

The Call Forward All Override feature allows the administrator to override Call Forward All (CFA) when the target of the CFA calls the initiator of the CFA, so the CFA target can reach the initiator for important calls. In other words, when the user to whom calls are being forwarded (the target) calls the user whose calls are being forwarded (the initiator), the phone of the initiator rings instead of call forwarding back to the target. The override works whether the CFA target phone number is internal or external.

When the CFA Destination Override service parameter is set to False (the default value), no override occurs. See Service Parameters Configuration in the *Cisco Unified CallManager Administration Guide* for information about configuring service parameters.

Cisco Unified CallManager Administration Configuration Tips

Ensure the CFA Destination Override service parameter is set to True for CFA override to work. The default value specifies False.

Service or Enterprise Parameter Changes

The following new service parameter supports Call Forward All Override:

- CFA Destination Override

Cisco Unified IP Phone Support

- Cisco Unified IP Phone 7971G (SCCP and SIP)
- Cisco Unified IP Phone 7971G-GE (SCCP and SIP)
- Cisco Unified IP Phone 7970G (SCCP and SIP)
- Cisco Unified IP Phone 7961G-GE (SCCP and SIP)
- Cisco Unified IP Phone 7960G (SCCP and SIP)
- Cisco Unified IP Phone 7941G-GE (SCCP and SIP)
- Cisco Unified IP Phone 7940G (SCCP and SIP)

- Cisco Unified IP Phone 7911G (SCCP and SIP)
- Cisco Unified IP Phone 7906G (SCCP and SIP)

For More Information

- Understanding Directory Numbers, *Cisco Unified CallManager System Guide*
- Cisco Unified IP Phones, *Cisco Unified CallManager System Guide*
- Service Parameters Configuration, *Cisco Unified CallManager Administration Guide*
- *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*

AAC Voice Codec Support

The Advanced Audio Codec (AAC) feature provides the following capabilities:

- Advanced Audio Codec (AAC) specifies a wideband voice codec that provides improved voice fidelity and equal or better sound quality over older codecs.
- When configuring a region, use the wideband audio codec if you want to configure the AAC for calls between SIP phones. The Cisco Unified IP Phone 7900 series phone supports wideband, a high-quality, high-bandwidth audio codec for IP-phone to IP-phone calls.

Cisco Unified CallManager Administration Configuration Tips

- When configuring a region, use the wideband audio codec if you want to configure the AAC for calls between SIP phones.

CAR/CDR Considerations

- The table of the AAC codec types includes the table of supported codec types.

For More Information

- *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*

Arabic Language (right to left) Support

Cisco Unified CallManager Release 5.1 supports Arabic locales on Cisco Unified CallManager user interfaces and Arabic text on phone screen displays for supported phones.

Cisco Unified IP Phones Supported

- Cisco Unified IP Phone 7906G
- Cisco Unified IP Phone 7911G
- Cisco Unified IP Phone 7961G-GE
- Cisco Unified IP Phone 7941G-GE
- Cisco Unified IP Phone 7970G
- Cisco Unified IP Phone 7971G-GE

For More Information

- Cisco Unified IP Phone Configuration, *Cisco Unified CallManager Administration Guide*

New and Changed Information for Cisco Unified CallManager Applications

The following section describes the Cisco Unified CallManager 5.1 applications enhancements:

- [Music on Hold, page 21](#)
- [DirSync Application Enhancements, page 21](#)

Music on Hold

The Music On Hold feature now supports the new service parameter, Multicast MOH Direction Attribute for SIP.

- The Multicast MOH Direction Attribute for SIP service parameter determines whether Cisco Unified CallManager sets the direction attribute of the Session Description Protocol (SDP) in its multicast Music on Hold (MOH) INVITE message to sendOnly or recvOnly.
- If your deployment uses SIP phone loads 8.4 and earlier for Cisco Unified IP Phone 7940 and 7960, or SIP phone loads 8.1(x) and earlier for Cisco Unified IP Phone 7906, 7911, 7941, 7961, 7970, and 7971, set this parameter to sendOnly. Otherwise, leave this parameter set to the default value, recvOnly.

For More Information

- *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*

DirSync Application Enhancements

The DirSync application performs the synchronization of data in the Cisco Unified CallManager database with the customer LDAP directory information. Cisco Unified CallManager administrators set up the DirSync service by first configuring the LDAP-directory-related Cisco Unified CallManager windows.

This release of Cisco Unified CallManager supports synchronization from more corporate directories than with previous releases. DirSync now allows Cisco Unified CallManager to synchronize the data from the following corporate directories to the Cisco Unified CallManager database:

- Microsoft Windows Server 2000 and Windows Server 2003 Active Directory (AD)
- Netscape/iPlanet Directory
- Sun ONE Directory Server 5.1
- Sun Java System Directory Server 5.2

For More Information

- Understanding the Directory, *Cisco Unified CallManager System Guide*
- *Cisco Unified CallManager Serviceability System Guide*
- *Cisco Unified CallManager Serviceability Administration Guide*.

New and Changed Information for Cisco Unified CallManager Bulk Administration Features

Cisco Unified CallManager Bulk Administration (BAT), a web-based application, performs bulk transactions to the Cisco Unified CallManager database. This section introduces the changes to BAT for Cisco Unified CallManager Release 5.1.

- [Updating the Region Matrix, page 22](#)

Updating the Region Matrix

BAT now includes a new Region Matrix menu that allows you to populate or depopulate the region matrix. The region tables define physical locations, whereas the region matrix tables define available bandwidth within (intra) and between (inter) regions.

GUI Changes

Choose **Bulk Administration>Region Matrix>Populate/Depopulate Region Matrix** to update the Region Matrix.

For More Information

- *Cisco Unified CallManager Release 5.1(1) New and Changed Information Guide*

New and Changed Information for Cisco Unified CallManager Security Features

This section introduces the changes to security for Cisco Unified CallManager 5.1.

- [CTL Client Modifications, page 22](#)
- [TFTP Exclude Digest Credentials Check Box Display, page 23](#)
- [Upgrading Cisco Unified IP Phones to Authenticate with LSCs Not MICs, page 23](#)

CTL Client Modifications

You can now secure a Cisco PIX Firewall as part of a secure Cisco Unified CallManager system. To secure a firewall, configure the firewall, which acts as a TLS proxy server, in the CTL client. After the firewall certificate gets added to the CTL client file, the firewall can inspect packets, detect threats, and perform NAT/Firewall transversal even on Cisco Unified CallManager systems with security enabled.

This release also adds CTL support for a Cisco Unified CallManager supercluster: sixteen call processing servers, one publisher, two TFTP servers, and up to nine media resource servers.

GUI Changes

The following changes to Cisco CTL client apply to secure firewall support:

To configure a PIX firewall in the CTL client, click the Add Firewall button in the CTL Entries window. After you enter the Hostname or IP Address, Port, Username, Password, and press Next, the CTL client authenticates the proxy server with the username and password before adding its certificate to the CTL file.

Cisco Unified CallManager Administration uses an etoken to authenticate the TLS connection between the Cisco CTL client and provider before sending the CTL file to the firewall server.

- The Cisco CTL client displays the firewall certificate as a “CCM” certificate

TFTP Exclude Digest Credentials Check Box Display

Only Cisco Unified IP SIP Phone 7905, 7912, 7940, and 7960 display the TFTP Exclude Digest Credentials in Configuration File check box in the phone security profile window. Only these phones fully support this option.

Use this option to exclude digest credentials from the configuration file that is sent to phones after the initial configuration. You may need to uncheck this check box to update the configuration file for changes to digest credentials.

Upgrading Cisco Unified IP Phones to Authenticate with LSCs Not MICs

Cisco supports LSCs to authenticate the TLS connection with Cisco Unified CallManager. Cisco recommends using manufacturer-installed certificates (MICs) for LSC installation only. Because MIC root certificates can be compromised, customers who configure phones to use MICs for TLS authentication or for any other purpose do so at their own risk. Cisco assumes no liability if MICs are compromised.

Cisco recommends upgrading Cisco Unified IP Phone 7906, 7911, 7941, 7961, 7970, and 7971 to use LSCs for TLS connection to Cisco Unified CallManager and removing MIC root certificates from the CallManager trust store to avoid possible future compatibility issues. Some phones that use MICs for TLS connection to Cisco Unified CallManager may not be able to register.

Administrators should remove the following MIC root certificates from the CallManager trust store:

- CAP-RTP-001
- CAP-RTP-002
- Cisco_Manufacturing_CA
- Cisco_Root_CA_2048

MIC root certificates that stay in the CAPF trust store get used for certificate upgrades. For information on updating the Cisco Unified CallManager trust store and managing certificates, refer to the *Cisco Unified Communications Operating System Administration Guide, Release 5.1(1)*.

For More Information

- Configuring the Cisco CTL Client, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- Configuring Encrypted Phone Configuration Files, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- *Cisco Unified CallManager 5.1 TCP and UDP Port Usage*

New and Changed Information for Cisco Unified CallManager Serviceability

The following serviceability applications include updates for Cisco Unified CallManager Release 5.1(1b):

- [Cisco Unified CallManager Serviceability Administration, page 24](#)
- [Cisco Unified CallManager Real-Time Monitoring Tool \(RTMT\), page 24](#)
- [Cisco Unified CallManager Analysis and Reporting \(CAR\), page 25](#)

Cisco Unified CallManager Serviceability Administration

The Cisco Unified CallManager Serviceability GUI allows you to perform such tasks as configuring trace parameters, configuring alarms, and activating, starting, and stopping services.

GUI Changes

The Cisco Unified CallManager Serviceability GUI contains the following enhancements for Cisco Unified CallManager Release 5.1(1b):

- The Troubleshooting Trace Setting window, which allows you to choose the services in Cisco Unified CallManager for which you want to set predetermined troubleshooting trace settings, contains the following updates:
 - The Server drop-down list box—Applies the troubleshooting trace settings to the server that you specify.
 - Check All Services check box—Automatically checks all check boxes for the services on the current node that you chose in the Server drop-down list box.
 - Check Selected Services on All Nodes check box—Allows you to check specific service check boxes in the Troubleshooting Trace Settings window. This setting applies for all nodes in the cluster where the service is activated.
 - Check All Services on All Nodes check box—Automatically checks all check boxes for all services for all nodes in the cluster. When you check this check box, the Check All Services and Check Selected Services on All Nodes check boxes automatically get checked.
 - Reset Troubleshooting Traces—Restores the original trace settings for the services on the node that you chose in the Server drop-down list box; also displays as an icon that you can click.
 - Reset Troubleshooting Traces On All Nodes—Restores the original trace settings for the services on all nodes in the cluster.

Serviceability Administration Configuration Tips

Leaving Troubleshooting trace enabled for a long time increases the size of the trace files and may impact the performance of the services.

For More Information

- Troubleshooting Trace Settings Configuration, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- Trace, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*

Cisco Unified CallManager Real-Time Monitoring Tool (RTMT)

Cisco Unified CallManager includes the following enhancements for Cisco Unified CallManager Release 5.1(1b):

- RTMT allows you to zoom in and zoom back out on the monitor of a predefined object. To zoom in on the monitor of a predefined object, click and drag the left mouse button over the area of the chart in which you are interested. To zoom out and reset the monitor to the initial default view, press the “R” key.
- RTMT contains a new counter. The Cisco Tomcat Connector ThreadsBusy counter represents the connector current number of busy/in-use request processing threads.
- The description for the Process Status counter value of 4 changed from traced to stopped.

For More Information

- Real-time Monitoring Configuration, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- Performance Objects and Counters, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*

Cisco Unified CallManager Analysis and Reporting (CAR)

Cisco Unified CallManager Analysis and Reporting (CAR), which is an application that allows you to run reports for Quality of Service (QoS), traffic, billing information, and so on, includes the following enhancements for Cisco Unified CallManager Release 5.1(1b):

- When a logged-in Cisco Extension Mobility user makes a call, CAR uses the user ID that is configured for the Cisco Extension Mobility user in all reports that display a user ID. When the call is made by a non-Cisco Extension Mobility user (or logged-out Cisco Extension Mobility user) and when the call is made with a device that does not have a configured Owner User ID, CAR uses the default user ID, `_unspecifieduser`, in the report.
- In all CDR Search reports, the system only displays the oldest 100 records that fall into the time and date range that you configure.

CAR Configuration Tips

When you configure the time range for CDR Search, use Coordinated Universal Time (UTC). Likewise, when you configure the date and time range settings for CDR Search, configure the settings, so the number of CDR results do not exceed 15,000. If the results exceed 15,000, CDR search cannot occur, and a message displays that you must revise the settings.

For More Information

- CAR Report Results, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- CDR Analysis and Reporting Overview, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- CDR Search Configuration, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*

New and Changed Information for Third-Party API

The following sections describe new features and changes that are pertinent to this release of Cisco Unified CallManager and third-party APIs.

- [AXL Programming, page 25](#)
- [WebDialer Requirements, page 26](#)

AXL Programming**AXL APIs**

The following list provides AXL API calls that are new in Cisco Unified CallManager Release 5.1:

- `addSIPRealm`

- updateSIPRealm
- getSIPRealm
- removeSIPRealm

These APIs add and update credentials (passwordreserve) in siprealm.

New AXL Service Parameter

Cisco Unified CallManager Administration 5.1 release adds a new service parameter, Send Valid Namespace in AXL Response, under the Cisco Database Layer Monitor service. This parameter determines the namespace that gets sent in the AXL response from Cisco Unified CallManager.

When this parameter specifies True, Cisco Unified CallManager sends the valid namespace (that is, <http://www.cisco.com/AXL/API/1.0>) in the AXL response, so the namespace matches the AXL schema specification.

If the parameter specifies False, Cisco Unified CallManager sends an invalid namespace (that is, <http://www.cisco.com/AXL/1.0>) in the AXL response, which does not match the AXL schema specification.

The default service parameter value specifies False to maintain backward compatibility with the AXL response in the Cisco Unified CallManager 5.0 release. Cisco recommends that you set this parameter to True, so Cisco Unified CallManager sends the valid namespace.

WebDialer Requirements

Cisco Unified CallManager Release 5.1 includes the following change to Cisco Unified CallManager WebDialer:

- WebDialer and Redirector now require HTTPS.

Developers should format Redirector and WebDialer requests to use HTTPS. Cisco Unified CallManager requires the secured protocol to prevent unauthorized applications from reading user data.

For More Information

- AXL Programming, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*
- WebDialer API Programming, *Cisco Unified CallManager New and Changed Information Guide, Release 5.1(1)*

New and Changed Information for Cisco Unified IP Phones

The following section describes the enhancements for Cisco Unified IP Phones:

- [Wideband Codec, page 26](#)

Wideband Codec

Wideband codecs such as G.722 provide a superior voice experience because wideband frequency response is 200 Hz to 7 kHz compared to narrowband frequency response of 300 Hz to 3.4 kHz. At 64 kbps, the G.722 codec offers conferencing performance and good music quality.

When users use a headset that supports wideband, they experience improved audio sensitivity when the wideband setting on their phones is enabled (it is disabled by default). To access the wideband headset setting on the phone, users choose the **Settings** icon > **User Preferences** > **Audio Preferences** > **Wideband Headset**. Users should check with their system administrator to be sure their phone system is configured to use G.722 or wideband. If the system is not configured for a wideband codec, they may not detect any additional audio sensitivity, even when they are using a wideband headset.

The following Cisco Unified IP Phones (both SCCP and SIP protocols) support the wideband codec G.722 for use with a wideband headset:

- Cisco Unified IP Phone 7971G-GE
- Cisco Unified IP Phone 7970G
- Cisco Unified IP Phone 7961G-GE
- Cisco Unified IP Phone 7961G
- Cisco Unified IP Phone 7941G-GE
- Cisco Unified IP Phone 7941G

For more information about the administration settings for wideband codecs, see the “[Enterprise Parameter Changes](#)” section on page 15 and the “[Phone Configuration—Product-Specific Configuration Changes](#)” section on page 16.

Caveats

The following sections contain information on how to obtain the latest resolved caveat information and descriptions of open caveats of severity level 1, 2, and 3.

Caveats describe unexpected behavior on a Cisco Unified CallManager server. Severity 1 caveats represent the most serious caveats, severity 2 caveats represent less serious caveats, and severity 3 caveats represent moderate caveats.

Resolved Caveats

You can find the latest resolved caveat information for Cisco Unified CallManager Release 5.1(1b) by using Bug Toolkit, which is an online tool that is available for customers to query defects according to their own needs.



Tip

You need an account with Cisco.com (Cisco Connection Online) to use the Bug Toolkit to find open and resolved caveats of any severity for any release.

To access the Bug Toolkit, log on to http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl.

This section includes the following topics:

- [Using Bug Toolkit, page 27](#)
- [Saving Bug Toolkit Queries, page 29](#)

Using Bug Toolkit

To access Bug Toolkit, you need the following items:

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

To use Bug Toolkit, follow this procedure.

Procedure

-
- Step 1** To access the Bug Toolkit, go to http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl. Log on with your Cisco.com user ID and password.
- Step 2** Click the **Launch Bug Toolkit** hyperlink.
- Step 3** If you are looking for information about a specific caveat, enter the ID number in the “Enter known bug ID:” field.
- To view all caveats for Cisco Unified CallManager, go to the “Search for bugs in other Cisco software and hardware products” section and enter Cisco Unified CallManager in the Product Name field. Alternatively, you can scroll through the product name list and click Cisco Unified CallManager.
- Step 4** Click **Next**. The Cisco Unified CallManager search window displays.
- Step 5** Choose the filters to query for caveats. You can choose any or all of the available options:
- Choose the Cisco Unified CallManager version:
 - Choose the major version for the major releases (such as, 5.1, 5.0, 4.1, 4.0).
A major release contains significant new features, enhancements, architectural changes, and/or defect fixes.
 - Choose the revision for more specific information; for example, choosing major version 5.0 and revision version 3 queries for release 5.0(2) caveats.
A revision (maintenance) release primarily contains defect fixes to address specific problems, but it may also include new features and/or enhancements.
 - Choose the Features or Components to query; make your selection from the “Available” list and click Add to place your selection in the “Limit search to” list.
 - To query for all Cisco Unified CallManager caveats for a specified release, choose “All Features” in the left window pane.



Note

The default value specifies “All Features” and includes all the items in the left window pane.

- To query only for Cisco Unified CallManager-related caveats, choose “ciscocm” and then click **Add**.
 - To query only for phone caveats, choose “ciscocm-phone” and then click **Add**.
 - To query only for gateway caveats, choose “voice-gateway” and then click **Add**.
- c.** Enter keywords to search for a caveat title and description, if desired.



Note

To make queries less specific, use the All wildcard for the major version/revision, features/components, and keyword options.

- Choose the Set Advanced Options, including the following items:

- Bug Severity level—The default specifies 1-3.
- Bug Status Group—Check the **Fixed** check box for resolved caveats.
- Release Note Enclosure—The default specifies Valid Release Note Enclosure.

e. Click **Next**.

Bug Toolkit returns the list of caveats on the basis of your query.

- You can modify your results by submitting another query and using different criteria.
- You can save your query for future use. See the [“Saving Bug Toolkit Queries” section on page 29](#).



Note

For detailed online help with Bug Toolkit, click **Help** on any Bug Toolkit window.

Saving Bug Toolkit Queries

Bug Toolkit allows you to create and then save your queries to monitor a specific defect or network situation. You can edit a saved search at any time to change the alert conditions, the defects being watched, or the network profile.

Follow this procedure to save your Bug Toolkit queries.

Procedure

- Step 1** Perform your search for caveats, as described in the [“Using Bug Toolkit” section on page 27](#).
- Step 2** In the search result window, click the **This Search Criteria** button that displays at the bottom of the window.
- A new window displays.
- Step 3** In the Name of saved search field, enter a name for the saved search.
- Step 4** Under My Bug Groups, use one of the following options to save your defects in a bug group:
- Click the **Existing group** radio button and choose an existing group name from the drop-down list box.
 - Click the **Create new group named:** radio button and enter a group name to create a new group for this saved search.



Note

This bug group will contain the bugs that are identified by using the search criteria that you have saved. Each time that a new bug meets the search criteria, the system adds it to the group that you chose.

Bug Toolkit saves your bugs and searches and makes them available through the My Stuff window. (The My Stuff window allows you to view, create, and/or modify existing bug groups or saved searches. Choose the My Stuff link to see a list of all your bug groups.)

- Step 5** Under Email Update Options, you can choose to set optional e-mail notification preferences if you want to receive automatic updates of a bug status change. Bug Toolkit provides the following options:
- **Do NOT send me any email updates**—If you choose this default setting, Bug Toolkit does not send e-mail notifications.

- **Send my updates to:**—Click the radio button to choose this option to send e-mail notifications to the user ID that you enter in this field. Additional notification options include
 - **Updates as they occur**—Bug Toolkit provides updates that are based on status change.
 - **Weekly summaries**—Bug Toolkit provides weekly summary updates.
- **Apply these email update options to all of my saved searches**—Check this check box to use these e-mail update options for all your saved searches.

Step 6 To save your changes, click **Save**.

Step 7 A window displays the bug group(s) that you have saved. From this window, you can click a bug group name to see the bugs and the saved searches; you can also edit the search criteria.



Note

For complete Cisco Unified IP Phone firmware release note information, refer to the applicable firmware release notes for your specific IP phone at

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

Open Caveats

Table 5 describes possible unexpected behaviors in Cisco Unified CallManager Release 5.1(1b), which are sorted by component.



Tip

For more information about an individual defect, click the associated Identifier in **Table 5** to access the online record for that defect, including workarounds.

Understanding the Fixed-in Version and the Integrated-in Fields in the Online Defect Record

When you open the online record for a defect, you may see data in the “First Fixed-in Version” or “Integrated-in” fields. The information that displays in these fields identifies the list of Cisco Unified CallManager interim versions in which the defect was fixed. These interim versions then get integrated into Cisco Unified CallManager releases.

Some more clearly defined versions include identification for Engineering Specials (ES) or Service Releases (SR); for example 03.3(04)ES29 and 04.0(02a)SR1. However, the version information that displays for the Cisco Unified CallManager maintenance releases may not be as clearly identified.

The following examples show how you can decode the maintenance release interim version information. These examples show you the format of the interim version along with the corresponding Cisco Unified CallManager release that includes that interim version. You can use these examples as guidance to better understand the presentation of information in these fields.

- 003.003(003.144) = Cisco CallManager Release 3.3(4)
- 005.000(000.123) = Cisco Unified CallManager Release 5.0(1)
- 005.000(001.008) = Cisco Unified CallManager Release 5.0(2)
- 005.001(002.201) = Cisco Unified CallManager Release 5.1(3)

**Note**

Because defect status continually changes, be aware that [Table 5](#) 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 and follow the instructions as described in the [“Using Bug Toolkit” section on page 27](#).

**Tip**

Bug Toolkit requires that you have an account with Cisco.com (Cisco Connection Online). By using the Bug Toolkit, you can find caveats of any severity for any release. Bug Toolkit may also provide a more current listing than this document provides. To access the Bug Toolkit, log on to http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl.

Table 5 **Open Caveats**

Identifier	Headline
Component: Attendant Console	
CSCsf06351	Remove unnecessary debug printout CLineStateNotifier.
Component: Broadband Provisioning Solutions (BPS) Bulk Administration Tool (BAT)	
CSCsh52994	Creating VG224 SCCP template inserts the gateway in ccmadmin pages.
Component: CAR	
CSCsh66231	When you purge data manually, subsequent purge attempts result in Error 10012.
Component: Cisco Unified CallManager CTI	
CSCsg27220	Wrong Local information exists in unicode call forward scenario.
Component: Call Processing	
CSCsh49938	Ring back/Dial Tone does not play in a particular scenario.
CSCsh51281	Phone displays Authenticated Icon when a parked call is retrieved.
CSCsf31295	CallCoverage: iDivert: When iDivert is used on a Cisco Unified IP 7961 SIP Phone, the phone displays the same name for options 1 and 2.
CSCsg20423	CallCoverage: iDivert: When iDivert was placed for a call on hold, phone displays same name for options 1 and 2.
CSCsg89252	Database: After a VPN network outage, the incorrect status displays.
CSCsf23480	Huntlist: RTMT routelistexhausted alerts for huntlists.
CSCse50142	Media Control: Hold/resume fails with H323 -- SIP ICT -- H323 ICT -- SCCP/SIP call.
CSCsf13956	Media Control: Cisco Unified CallManager should wait for CLCs before sending TCS after SIP triggers ECS.
CSCsg29976	Media Control: Video RSVP call to Cisco Unified Presence Communicator end point takes three RSVP resources.
CSCsg31775	Media Control: Third-party issue: No Remote video exists on SIP polycom.
CSCsg35113	Media Control: Third-Party Issue: SIP Cisco Unified Presence Client (CUPC) to SIP Polycom calls - No remote video exists for CUPC.
CSCsg42281	Media Control: Video H323 to SIP Multipoint Control Unit (MCU) interworking shows one-way video.

Table 5 **Open Caveats (continued)**

CSCsg56183	Media Control: For SIP to GK-controlled H225 trunk call with "BRQ enabled", if H323 device does not send incoming video OLC in time, Cisco Unified CallManager will not send BRQ to GK and just sends out outgoing video OLC.
CSCsg64332	Media Control: Video-related performance counters do not get updated.
CSCsh51032	Media Control:
CSCsh56522	Media Control: SIP Video Endpoint failed to communicate with an H.323 gateway via Cisco Unified CallManager.
CSCsh57790	Media Control: Call Hold does not work properly.
CSCsh66608	Media Control: T.38 fax not working when a 3rd party device Audiocode MP112 is used, if configured to send capabilityIdentifier domainBased.
CSCsh70207	Media Control: CUPC to 7985/Cisco Unified Video Assistant video calls do not connect.
CSCsh71084	Media Control: Call gets disconnected while putting call on Hold from both sides at the same time.
CSCsd41297	Q Signaling (QSIG): Wrong far end point type exists in hairpin scenario
CSCsd57244	Q Signaling (QSIG): Call Diversion by reroute does not kick off if not enough bandwidth exists in RSVP Location.
CSCsg05163	Q Signaling (QSIG): Cisco Unified CallManager does not display the MGCP/QSIG User name or the alerting name in the Association Control Service Element.
CSCsg60636	Q Signaling (QSIG): RTMT counters do not work properly for H225 trunk.
CSCsh68080	Resource Control: When Endpoints are removed or powered down during conference calls, the conference server receives both media stream failure detection and drop participant request message.
CSCse48081	Resource Reservation Protocol (RSVP) Agent: RSVP preempted call gets 'Not Enough Bandwidth' instead of MLPP alert.
CSCsh24824	SCCP: Cisco Unified CallManager sends wrong message 'OpenMultiMediaReceiveChannel' to Cisco Unified Video Assistant.
CSCsh63276	SCCP: When a primary call is active and selected before joining, the resulting conference call will be selected. However, if the primary call is held and selected before joining, then the resulting conference call will be unselected.
CSCsh69319	SCCP: Two scenarios: <ol style="list-style-type: none"> 1. When the calling phone and the called phone set Japanese locale, the calling phone display the characters of ASCII Alerting Name for the called phone instead of Alerting Name while ringing. 2. When the calling phone sets English locale and called phone sets Japanese, the calling phone displays garbled characters for the called phone instead of ASCII Alerting Name while ringing.
CSCsh41912	Session Initiation Protocol (SIP) Station: Barge for lower level security does not work properly.
CSCsh64716	Session Initiation Protocol (SIP) Station: The resulting conference call remains selected after a join is completed.
CSCsf25167	Session Initiation Protocol (SIP) Trunk: No ringback tone occurs when a call is made over SIPT to SIP or H.323 gateway with MTP.

Table 5 Open Caveats (continued)

CSCsg92831	Session Initiation Protocol (SIP) Trunk: Incorrect caller id is displayed on CUPC after a video call is transferred to CUPC.
CSCsh24049	Session Initiation Protocol (SIP) Trunk: No ACK comes from Cisco Unified CallManager when IP/VC MCU is called via SIP trunk.
CSCsh63057	Supplementary Services: JTAPI server throws an exception when you try to join multiple calls.
CSCsg98070	System: Core file is caused by the async thread and router thread waiting on each other.
Component: Cisco Customer Performance Indicators (CPI) Appinstall	
CSCsh23986	Misleading display of embedded md5sum appears on the media check screen.
CSCsh47064	Need exists for COP file.
CSCsh56814	Installing devpack does not update all loads.
CSCsh68282	A Cisco brand USB key with answer file does not get detected during installation.
Component: Cisco Customer Performance Indicators (CPI) Certificate Management	
CSCse49089	IPSec validation throws error across clusters if UDP protocol is selected
CSCsf05359	User does not get e-mail notification for Certificates CallManager and CAPF
Component: Cisco Customer Performance Indicators (CPI) Data Migration Assistant (DMA)	
CSCsf09804	DMA installation fails if not enough hard drive space exists.
CSCsf24390	Tried to install DMA and an error occurred.
CSCsg23117	System failed to make DMA backup.
CSCsg92930	The DMA backup page does not get refreshed automatically, so the user must close the page and reopen it manually.
CSCsh05766	DMA backup status shows ready after the backup.
Component: Cisco Customer Performance Indicators (CPI) OS	
CSCse83975	Password recovery needs to inform the database of change.
CSCsg23526	SNMP monitoring of ServeRAID RAID drives does not report any problems when ServeRAID fails after a Cisco Unified CallManager upgrade.
CSCsh14483	After an upgrade the BIOS contains corrupt/missing option.
CSCsh69199	User cannot create SATA RAID during installation.
Component: Cisco Customer Performance Indicators (CPI) Security	
CSCsg80593	MD5 does not get used in phase 2 in IPSEC on Cisco Unified CallManager.
CSCsh53813	Installation of second node in a Cisco Unified CallManager cluster fails.
Component: Command Line Interface	
CSCsh67199	CLI command 'set network nic' fails.
Component: Database	
CSCsb71648	During an upgrade, database migration takes an excessive amount of time.
CSCse21733	After an upgrade, a ccmAgent core dump occurs when the database is shutdown.
CSCsg07605	Disaster recovery system backup makes Cisco Unified CallManager database read only.

Table 5 **Open Caveats (continued)**

CSCsg70432	CUOS Administration CLI utilities: Database replication reset does not start on all nodes.
CSCsg73474	When the user tries to log in to extension mobility, the log in fails with an Error 6 Database failure.
CSCsh15475	IBM PMR 47790 database does not respond after receiving a core file with AF.
CSCsh16775	Database install/upgrade progress indicators are missing.
CSCsh38429	Cisco Unified CallManager needs a way to add software MTP resources.
CSCsh45042	IBM PMR 47825 49R 000 reply logs in /tmp - do not get disabled (CSCsg54205).
CSCsh51628	During upgrade, only one dial plan will remain active.
CSCsh60831	Need support for introduction of Western Australian Daylight Savings.
Component: Database Administration	
CSCsg49046	When the Automatic Configuration option is checked on the Cisco Unified CallManager Assistant User Configuration window, the page cannot be submitted if the user-associated phone has two domain names that are the same but in different partitions.
CSCsg97738	When an extension mobility user is logged in, another user cannot save any changes in Device > Phone.
Component: Documentation	
CSCsh68050	Release notes for CUCS IPT contains errors in Unity requirements.
Component: IPMA Service	
CSCsh38540	German localized IPMA does not display properly.
Component: Java Telephony API (JTAPI) Software Development Toolkit (SDK)	
CSCsg03945	CiscoJTAPIClient-linux.bin fails to install.
Component: Media Storage Application	
CSCsh57225	MOH Audio File Management Upload Error.
Component: QED	
CSCsg61249	Retry video does not appear as audio call option in CUPC device page.
Component: Real-Time Monitoring Tool (RTMT)	
CSCsc12008	RTMT: Graphs cannot highlight nodes/counters.
CSCse43150	RTMT CoreDumpFileFound trace collection generates very high IOWait.
CSCsg11854	The RTMT Summary Page, cluster total for ActiveGatewayPorts&Channels is wrong.
Component: Serviceability	
CSCsh66149	Unexpected CoreDumpFileFound alert is raised by RTMT.
Component: Serv-SOAP	
CSCsh38658	LogCollectionPort WSDL contains extra invalid colon character.
Component: Telephony API (TAPI) Software Development Toolkit (SDK)	
CSCsb64096	TAPI application stops during RecordWave with Silence operation.
CSCsg23468	Latency exists on PlayWave on TSP 5.1.1.1 after client reboot.

Table 5 **Open Caveats (continued)**

CSCsg23990	TSP svchost pegging occurs at 99 percent CPU during TLS connection.
Component: TFTP	
CSCsg65717	A versionStamp mismatch causes restart loop with SIP phones.
Component: User Interface	
CSCsh47443	Forwarded Call Information Display can not be modified on a DN via BAT.
CSCsh58284	Administration phone configuration page does not include the link to Device Pool Details.
CSCsh67114	Cisco Unified CallManager Administration does not work properly with Internet Explorer 6.0 SP2.
CSCsh69246	No product-specific configuration section on the device configuration window.
CSCsh69282	When the duplicate device pool name is changed to valid, the save fails.
CSCsh69327	When the audio codec for a region is changed, a servlet exception occurs.

Documentation Updates

This section provides documentation changes that were unavailable when the Cisco Unified CallManager release 5.1(1b) documentation suite was released.

- [Omissions, page 35](#)
- [Updates, page 36](#)
- [Changes, page 37](#)

Omissions

This section provides information that was not included in the Cisco Unified CallManager Release 5.1(1b) documentation.

- [Searching for a Device in RTMT with the Any Status Option, page 35](#)
- [Planning Your Software MTP Configuration, page 36](#)
- [Ad Hoc Conference Settings Restrictions for SIP Phones, page 36](#)

Searching for a Device in RTMT with the Any Status Option

The Real-time Monitoring Tool chapter of the *Cisco Unified CallManager Serviceability System Guide* does not include the following information.

When you search for a device by choosing the any status option, RTMT does not display a snapshot of the matched device type, but rather it displays data for that device type from the RIS database for all specified Cisco Unified CallManager nodes for a period of time. As a result, you may see multiple entries of a device with multiple status (Registered, Unregistered, and so on) in RTMT. When you see multiple entries of a device, the current status of the device appears as the entry that has the latest timestamp. You can configure the time that information on unregistered or rejected device is kept in the RIS database by

configuring the RIS Unused Cisco CallManager Device Store Period service parameter in Cisco RIS Data Collector service in Cisco Unified CallManager Administration. For more information on configuring service parameter, refer to the *Cisco Unified CallManager Administration Guide*.

Planning Your Software MTP Configuration

The *Cisco Unified CallManager System Guide*, Media Termination Points chapter does not include the following information:

Consider the following information when you are planning your MTP configuration:

- To optimize performance of DTMF signaling, use Cisco IOS Release 12.4(11)T or later. This Cisco IOS release supports RFC 2833 DTMF MTP Pass through of digits.

Ad Hoc Conference Settings Restrictions for SIP Phones

The Conferencing chapter of the *Cisco Unified CallManager System Guide* does not include the following information.

Even though Cisco SIP IP Phones (7911, 7941, 7961, 7970, 7971) can create an ad hoc conference, Cisco SIP IP Phone 7940/60 and third-party SIP phones can only be participants.

The following restrictions apply to all SIP phones when ad hoc conferencing is used:

- Cisco Unified CallManager uses “beep” and “beep beep” tones when a new party is added, and when the new party drops from the ad hoc conference, respectively. When a party is added to an ad hoc conference, a user on a SIP Phone may or may not hear the beep; when a participant drops from the ad hoc conference, a user on a SIP Phone may not hear the beep beep. The beeps may not be heard because of the time it takes to re-establish connections for the conference.

Updates

This section provides information that has been updated since the release of the Cisco Unified CallManager Release 5.1(1b) documentation.

- [Name Change, page 36](#)

Name Change

Cisco Unified CallManager Analysis and Reporting Guide, Release 5.0(4), refers to Cisco IP Manager Assistant (IPMA) instead of Cisco Unified CallManager Assistant. For each instance of Cisco IP Manager Assistant (IPMA) in this guide, replace it with Cisco Unified CallManager Assistant. To run reports for Cisco Unified CallManager Assistant in Cisco Unified CallManager Analysis and Reporting (CAR), choose **User Reports > Cisco Unified CallManager Assistant > Manager Call Usage** (or **Assistant Call Usage**). For additional information on running these reports, refer to *Cisco Unified CallManager Analysis and Reporting Guide, Release 5.0(4)*.

Corrections

This section lists corrected information that the current version of the Cisco Unified CallManager documentation may not include:

- [Servers That Support Cisco Unified CallManager 5.0\(3\), page 37](#)

- [Cisco Emergency Responder 1.3\(1a\)](#), page 37

Servers That Support Cisco Unified CallManager 5.0(3)

The document, *Installing Cisco Unified CallManager 5.0(3)* does not provide a complete list of servers that support Cisco Unified CallManager 5.0(3). For a list of servers that support Cisco Unified CallManager 5.0 releases, click the following URL:

<http://www.cisco.com/en/US/products/hw/voiceapp/ps378/>

Cisco Emergency Responder 1.3(1a)

Cisco Emergency Responder (Cisco ER) 1.3(1a) supports Cisco Unified CallManager 5.0(2) and 5.0(3) in addition to Cisco Unified CallManager 3.3 and Cisco Unified CallManager 4.0, 4.1, and 4.2.



Note

Cisco Unified CallManager 5.0(1) does not get supported with Cisco Emergency Responder 1.3(1a).

- Ensure all Cisco ER servers are version 1.3(1a). This allows Cisco ER to support multiple Cisco Unified CallManager 5.0(2) or 5.0(3) clusters. Cisco ER 1.3(1a) will not work with previous versions of Cisco ER.
- Cisco ER 1.3(1a) supports upgrades from Cisco ER 1.2(1), Cisco ER 1.2(2), and Cisco ER 1.2(3).
- Cisco ER 1.3(1a) provides Windows-based support.

Changes

This section lists changed information that the current version of the Cisco Unified CallManager documentation may not include:

Updated Voice Gateway Model Information

The Understanding Cisco Unified Voice Gateways chapter in the *Cisco Unified CallManager Release 5.1(1) New and Changed Information Guide* contains updated information on the supported voice gateways, protocols, trunk interfaces, and port types.

Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. This section explains the product documentation resources that Cisco offers.

Cisco.com

You can access the most current Cisco documentation at this URL:

<http://www.cisco.com/en/US/support/index.html>

You can access the Cisco website at this URL:

<http://www.cisco.com>

You can access international Cisco websites at this URL:

http://www.cisco.com/public/countries_languages.shtml

Product Documentation DVD

The Product Documentation DVD is a library of technical product documentation on a portable medium. The DVD enables you to access installation, configuration, and command guides for Cisco hardware and software products. With the DVD, you have access to the HTML documentation and some of the PDF files found on the Cisco website at this URL:

http://www.cisco.com/en/US/products/sw/voicesw/tsd_products_support_category_home.html

The Product Documentation DVD is created and released regularly. DVDs are available singly or by subscription. Registered Cisco.com users can order a Product Documentation DVD (product number DOC-DOCDVD= or DOC-DOCDVD=SUB) from Cisco Marketplace at the Product Documentation Store at this URL:

<http://www.cisco.com/cgi-bin/marketplace/welcome.pl>

Ordering Documentation

You must be a registered Cisco.com user to access Cisco Marketplace. Registered users may order Cisco documentation at the Product Documentation Store at this URL:

<http://www.cisco.com/cgi-bin/marketplace/welcome.pl>

If you do not have a user ID or password, you can register at this URL:

<http://tools.cisco.com/RPF/register/register.do>

Documentation Feedback

You can provide feedback about Cisco technical documentation on the Cisco Support site area by entering your comments in the feedback form available in every online document.

Cisco Product Security Overview

Cisco provides a free online Security Vulnerability Policy portal at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

From this site, you will find information about how to do the following:

- Report security vulnerabilities in Cisco products
- Obtain assistance with security incidents that involve Cisco products
- Register to receive security information from Cisco

A current list of security advisories, security notices, and security responses for Cisco products is available at this URL:

<http://www.cisco.com/go/psirt>

To see security advisories, security notices, and security responses as they are updated in real time, you can subscribe to the Product Security Incident Response Team Really Simple Syndication (PSIRT RSS) feed. Information about how to subscribe to the PSIRT RSS feed is found at this URL:

http://www.cisco.com/en/US/products/products_psirt_rss_feed.html

Reporting Security Problems in Cisco Products

Cisco is committed to delivering secure products. We test our products internally before we release them, and we strive to correct all vulnerabilities quickly. If you think that you have identified a vulnerability in a Cisco product, contact PSIRT:

- For emergencies only—security-alert@cisco.com

An emergency is either a condition in which a system is under active attack or a condition for which a severe and urgent security vulnerability should be reported. All other conditions are considered non emergencies.

- For non emergencies—psirt@cisco.com

In an emergency, you can also reach PSIRT by telephone:

- 1 877 228-7302
- 1 408 525-6532



Tip

We encourage you to use Pretty Good Privacy (PGP) or a compatible product (for example, GnuPG) to encrypt any sensitive information that you send to Cisco. PSIRT can work with information that has been encrypted with PGP versions 2.x through 9.x.

Never use a revoked encryption key or an expired encryption key. The correct public key to use in your correspondence with PSIRT is the one linked in the Contact Summary section of the Security Vulnerability Policy page at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

The link on this page has the current PGP key ID in use.

If you do not have or use PGP, contact PSIRT to find other means of encrypting the data before sending any sensitive material.

Product Alerts and Field Notices

Modifications to or updates about Cisco products are announced in Cisco Product Alerts and Cisco Field Notices. You can receive these announcements by using the Product Alert Tool on Cisco.com. This tool enables you to create a profile and choose those products for which you want to receive information.

To access the Product Alert Tool, you must be a registered Cisco.com user. Registered users can access the tool at this URL:

<http://tools.cisco.com/Support/PAT/do/ViewMyProfiles.do?local=en>

To register as a Cisco.com user, go to this URL:

<http://tools.cisco.com/RPF/register/register.do>

Obtaining Technical Assistance

Cisco Technical Support provides 24-hour-a-day award-winning technical assistance. The Cisco Support website on Cisco.com features extensive online support resources. In addition, if you have a valid Cisco service contract, Cisco Technical Assistance Center (TAC) engineers provide telephone support. If you do not have a valid Cisco service contract, contact your reseller.

Cisco Support Website

The Cisco Support website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The website is available 24 hours a day at this URL:

<http://www.cisco.com/en/US/support/index.html>

Access to all tools on the Cisco Support website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a user ID or password, you can register at this URL:

<http://tools.cisco.com/RPF/register/register.do>

**Note**

Before you submit a request for service online or by phone, use the **Cisco Product Identification Tool** to locate your product serial number. You can access this tool from the Cisco Support website by clicking the **Get Tools & Resources** link, clicking the **All Tools (A-Z)** tab, and then choosing **Cisco Product Identification Tool** from the alphabetical list. This tool offers three search options: by product ID or model name; by tree view; or, for certain products, by copying and pasting **show** command output. Search results show an illustration of your product with the serial number label location highlighted. Locate the serial number label on your product and record the information before placing a service call.

**Tip****Displaying and Searching on Cisco.com**

If you suspect that the browser is not refreshing a web page, force the browser to update the web page by holding down the **Ctrl** key while pressing **F5**.

To find technical information, narrow your search to look in technical documentation, not the entire Cisco.com website. After using the Search box on the Cisco.com home page, click the **Advanced Search** link next to the Search box on the resulting page and then click the **Technical Support & Documentation** radio button.

To provide feedback about the Cisco.com website or a particular technical document, click **Contacts & Feedback** at the top of any Cisco.com web page.

Submitting a Service Request

Using the online TAC Service Request Tool is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool provides recommended solutions. If your issue is not resolved using the recommended resources, your service request is assigned to a Cisco engineer. The TAC Service Request Tool is located at this URL:

<http://tools.cisco.com/ServiceRequestTool/create/launch.do>

For S1 or S2 service requests, or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411

Australia: 1 800 805 227

EMEA: +32 2 704 55 55

USA: 1 800 553 2447

For a complete list of Cisco TAC contacts, go to this URL:

http://www.cisco.com/en/US/support/tsd_contact_technical_support.html

Definitions of Service Request Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

Severity 1 (S1)—An existing network is “down” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operations are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of the network is impaired while most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Severity 4 (S4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- The Cisco Online Subscription Center is the website where you can sign up for a variety of Cisco e-mail newsletters and other communications. Create a profile and then select the subscriptions that you would like to receive. To visit the Cisco Online Subscription Center, go to this URL:

<http://www.cisco.com/offer/subscribe>

- The *Cisco Product Quick Reference Guide* is a handy, compact reference tool that includes brief product overviews, key features, sample part numbers, and abbreviated technical specifications for many Cisco products that are sold through channel partners. It is updated twice a year and includes the latest Cisco channel product offerings. To order and find out more about the *Cisco Product Quick Reference Guide*, go to this URL:

<http://www.cisco.com/go/guide>

- Cisco Marketplace provides a variety of Cisco books, reference guides, documentation, and logo merchandise. Visit Cisco Marketplace, the company store, at this URL:
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