



Preface

This preface describes the purpose, audience, organization, and conventions of this guide and provides information on how to obtain related documentation.

The preface covers these topics:

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Purpose of Document

This document provides Cisco Unified CallManager upgrade procedures and requirements for the Cisco Media Convergence Server and the customer-provided server that meets approved Cisco configuration standards.

This document contains information on the following topics:

- [Preinstallation Information, page 1-1](#)
- [Upgrading Your Cisco Unified CallManager Server \(When You Are Not Replacing Hardware\), page 2-1](#)
- [Performing Post-Upgrade Tasks, page 3-1](#)
- [Reverting to the Previous Configuration After an Upgrade Attempt, page 4-1](#)
- [Upgrade Messages, page 5-1](#)
- [Replacing Servers During the Upgrade, page 6-1](#)

**Tip**

Use this document in conjunction with the documents that are listed in the “[Locating Related Documentation](#)” section on page ix.

Audience

The *Upgrading Cisco Unified CallManager* document provides information for network administrators who are responsible for maintaining the Cisco Unified CallManager system. This guide requires knowledge of telephony and IP networking technology.

Conventions

Consider the following documentation conventions as you review this upgrade document:

Unless otherwise specified, base server model numbers will be used in this document. For example references to the MCS-7835 apply to servers including the MCS-7835, the MCS-7835-1000, the MCS-7835-1266, the MCS 7835H-2.4, the MCS-7835I-2.4, MCS-7835H-3.0, MCS-7835I-3.0, the customer-provided DL380, and the customer-provided IBM xSeries 342 and 345.

Blue Text—To quickly navigate to a section or URL from your computer, click text that appears in blue.

**Note**

Reader, take note. Notes contain helpful suggestions or references to material not covered in the publication.

**Caution**

Reader, be careful. You may do something that could result in equipment damage or loss of data.

**Timesaver**

Reader, this tip saves you time as you perform the procedure.

(Required)

This convention indicates that you must perform the procedure. Failing to perform the procedure could cause a total system failure or a loss of data and configuration settings.

(Recommended)

This convention indicates that the procedure is strongly recommended, but not required.

Locating Related Documentation

Cisco strongly recommends that you review the following documents before you upgrade:

- *Release Notes for Cisco Unified CallManager Release 4.3*

Cisco provides a version of this document that matches the version of the upgrade document. Use this document as a companion guide to the upgrade document.

- *Cisco Unified CallManager Compatibility Matrix*

To ensure continued functionality with interfacing Cisco IP telephony applications after the Cisco Unified CallManager upgrade, refer to the *Cisco Unified CallManager Compatibility Matrix*, which provides information and workarounds for applications that are integrated with Cisco Unified CallManager.

Affected applications may include Cisco Conference Connection, Cisco SoftPhone, Cisco uOne, Cisco 186 Analog Telephony Adaptor, Cisco Personal Assistant, Cisco Customer Response Solutions (CRS), Telephony Application Programming Interface and Java Telephony Application Programming Interface (TAPI/JTAPI) applications, including Cisco-provided and third-party applications, and Cisco Unified CallManager Telephony Service Provider (TSP).

If you use Cisco Unified CallManager and related Cisco IP telephony applications in a call-center environment, review this document before you begin any upgrade procedures.

- Third-party application compatibility information

Before you upgrade Cisco Unified CallManager, verify that all the Cisco-provided and Cisco-approved applications that run in your network are compatible with this version of Cisco Unified CallManager.

- *Cisco Unified Communications Operating System, SQL Server, Security Updates*

This document provides information on the latest operating system, SQL Server, and security support updates. Information in this document applies to servers that are running the following Cisco IP telephony applications: Cisco Unified CallManager, Conference Connection, Personal Assistant, and Cisco Customer Response Applications/Solutions, and so on.

- *Cisco IP Telephony Backup and Restore System (BARS) Administration Guide*

This document describes how to install the BARS utility, configure the backup settings, back up Cisco Unified CallManager data, and restore the data/server.

This document also provides a list of files that the utility backs up. This utility does not back up operating system files, except for Hosts/LMHosts files, if those files exist on the server.

- *Cisco Unified CallManager Security Guide*

This document provides step-by-step instructions on how to configure and troubleshoot authentication and encryption for Cisco Unified CallManager, Cisco Unified IP Phones, SRST references, and Cisco MGCP gateways.

- The appropriate Cisco IP telephony application documentation

Locate the release notes, installation/upgrade, and configuration guides for the applications that you have integrated with Cisco Unified CallManager.

Click the URLs in [Table 1](#) to locate the appropriate documentation and related software.

Table 1 *Quick Reference for URLs*

Related Information and Software	URL and Additional Information
Operating system documentation and Virtual Network Computing (VNC) documentation (not readme documentation)	http://www.cisco.com/univercd/cc/td/doc/product/voice/iptel_os/index.htm
Cisco MCS data sheets	http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html
Software-only servers (IBM, HP, Compaq, Aquarius)	http://www.cisco.com/en/US/products/hw/voiceapp/ps378/prod_brochure_list.html
<i>Cisco Unified CallManager Compatibility Matrix</i>	http://www.cisco.com/univercd/cc/td/doc/product/voice/c_callmg/ccmcomp.htm
Cisco Partner Program Compatibility Information	http://www.cisco.com/cgi-bin/ecoa/Search
Cisco Technology Affiliate Program Compatibility Information	http://www.cisco.com/cgi-bin/ecoa/Search?isAffil=Y
Cisco Unified CallManager documentation	http://www.cisco.com/univercd/cc/td/doc/product/voice/c_callmg/index.htm
Cisco Unified CallManager backup and restore documentation	http://www.cisco.com/univercd/cc/td/doc/product/voice/backup/index.htm
Cisco Unified CallManager, SQL Server, and operating system service releases, upgrades, and readme documentation	http://www.cisco.com/kobayashi/sw-center/sw-voice.shtml Note The operating system and SQL Server 2000 service releases post on the voice products operating system cryptographic software page. You can navigate to the site from the Cisco Unified CallManager software page.
<i>Cisco Unified CallManager Security Guide</i>	http://www.cisco.com/univercd/cc/td/doc/product/voice/c_callmg/sec_vir/ae/index.htm
Related Cisco IP telephony application documentation	http://www.cisco.com/univercd/cc/td/doc/product/voice/index.htm

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/techsupport>

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/univercd/home/home.htm>

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/go/marketplace/docstore>

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/go/marketplace/docstore>

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

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

A summary of U.S. laws governing Cisco cryptographic products may be found at:

<http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>. If you require further assistance please contact us by sending email to export@cisco.com

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 nonemergencies.

- For nonemergencies — 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://www.cisco.com/techsupport/servicerequest>

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/techsupport/contacts>

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:

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

- Cisco Press publishes a wide range of general networking, training, and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to Cisco Press at this URL:

<http://www.ciscopress.com>

- *Internet Protocol Journal* is a quarterly journal published by Cisco for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the *Internet Protocol Journal* at this URL:

<http://www.cisco.com/ipj>

- Networking products offered by Cisco, as well as customer support services, can be obtained at this URL:

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

- Networking Professionals Connection is an interactive website where networking professionals share questions, suggestions, and information about networking products and technologies with Cisco experts and other networking professionals. Join a discussion at this URL:

<http://www.cisco.com/discuss/networking>

- “What’s New in Cisco Documentation” is an online publication that provides information about the latest documentation releases for Cisco products. Updated monthly, this online publication is organized by product category to direct you quickly to the documentation for your products. You can view the latest release of “What’s New in Cisco Documentation” at this URL:

<http://www.cisco.com/univercd/cc/td/doc/abtunecd/136957.htm>

- World-class networking training is available from Cisco. You can view current offerings at this URL:

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

