



# Preface

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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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- [Audience, page viii](#)
- [Conventions, page viii](#)
- [Locating Related Documentation, page viii](#)
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## Purpose of Document

This document provides Cisco 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 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

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

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# Audience

The *Upgrading Cisco CallManager* document provides information for network administrators who are responsible for maintaining the Cisco 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 CallManager Release 4.2*

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 CallManager Compatibility Matrix*

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

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

- *Cisco IP Telephony 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 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 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 CallManager Security Guide*

This document provides step-by-step instructions on how to configure and troubleshoot authentication and encryption for Cisco CallManager, Cisco 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 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)	<a href="http://www.cisco.com/univercd/cc/td/doc/product/voice/iptel_os/index.htm">http://www.cisco.com/univercd/cc/td/doc/product/voice/iptel_os/index.htm</a>
Cisco MCS data sheets	<a href="http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html">http://www.cisco.com/en/US/products/hw/voiceapp/ps378/index.html</a>
Software-only servers (IBM, HP, Compaq, Aquarius)	<a href="http://www.cisco.com/en/US/products/hw/voiceapp/ps378/prod_brochure_list.html">http://www.cisco.com/en/US/products/hw/voiceapp/ps378/prod_brochure_list.html</a>
<i>Cisco CallManager Compatibility Matrix</i>	<a href="http://www.cisco.com/univercd/cc/td/doc/product/voice/c_callmg/ccmcomp.htm">http://www.cisco.com/univercd/cc/td/doc/product/voice/c_callmg/ccmcomp.htm</a>
Cisco Partner Program Compatibility Information	<a href="http://www.cisco.com/cgi-bin/ecoa/Search">http://www.cisco.com/cgi-bin/ecoa/Search</a>

Table 1 Quick Reference for URLs (continued)

Related Information and Software	URL and Additional Information
Cisco Technology Affiliate Program Compatibility Information	<a href="http://www.cisco.com/pcgi-bin/ecoa/Search?isAffil=Y">http://www.cisco.com/pcgi-bin/ecoa/Search?isAffil=Y</a>
Cisco CallManager documentation	<a href="http://www.cisco.com/univercd/cc/td/doc/product/voice/c_callmg/index.htm">http://www.cisco.com/univercd/cc/td/doc/product/voice/c_callmg/index.htm</a>
Cisco CallManager backup and restore documentation	<a href="http://www.cisco.com/univercd/cc/td/doc/product/voice/backup/index.htm">http://www.cisco.com/univercd/cc/td/doc/product/voice/backup/index.htm</a>
Cisco CallManager, SQL Server, and operating system service releases, upgrades, and readme documentation	<a href="http://www.cisco.com/kobayashi/sw-center/sw-voice.shtml">http://www.cisco.com/kobayashi/sw-center/sw-voice.shtml</a> <b>Note</b> 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 CallManager software page.
<i>Cisco CallManager Security Guide</i>	<a href="http://www.cisco.com/univercd/cc/td/doc/product/voice/c_callmg/sec_vir/ae/index.htm">http://www.cisco.com/univercd/cc/td/doc/product/voice/c_callmg/sec_vir/ae/index.htm</a>
Related Cisco IP telephony application documentation	<a href="http://www.cisco.com/univercd/cc/td/doc/product/voice/index.htm">http://www.cisco.com/univercd/cc/td/doc/product/voice/index.htm</a>

## Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

### 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](http://www.cisco.com/public/countries_languages.shtml)

### Product Documentation DVD

The Product Documentation DVD is a comprehensive library of technical product documentation on a portable medium. The DVD enables you to access multiple versions of installation, configuration, and command guides for Cisco hardware and software products. With the DVD, you have access to the same HTML documentation that is found on the Cisco website without being connected to the Internet. Certain products also have .PDF versions of the documentation available.

The Product Documentation DVD is available as a single unit or as a subscription. Registered Cisco.com users (Cisco direct customers) can order a Product Documentation DVD (product number DOC-DOCDVD= or DOC-DOCDVD=SUB) from Cisco Marketplace at this URL:

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

## Ordering Documentation

Registered Cisco.com users may order Cisco documentation at the Product Documentation Store in the Cisco Marketplace at this URL:

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

Nonregistered Cisco.com users can order technical documentation from 8:00 a.m. to 5:00 p.m. (0800 to 1700) PDT by calling 1 866 463-3487 in the United States and Canada, or elsewhere by calling 011 408 519-5055. You can also order documentation by e-mail at [tech-doc-store-mkpl@external.cisco.com](mailto:tech-doc-store-mkpl@external.cisco.com) or by fax at 1 408 519-5001 in the United States and Canada, or elsewhere at 011 408 519-5001.

## Documentation Feedback

You can rate and provide feedback about Cisco technical documents by completing the online feedback form that appears with the technical documents on Cisco.com.

You can submit comments about Cisco documentation by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems  
Attn: Customer Document Ordering  
170 West Tasman Drive  
San Jose, CA 95134-9883

We appreciate your comments.

## 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](http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html)

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

- 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](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](mailto: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](mailto:psirt@cisco.com)

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

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



Tip

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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 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](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 at the aforementioned e-mail addresses or phone numbers before sending any sensitive material to find other means of encrypting the data.

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## Obtaining Technical Assistance

Cisco Technical Support provides 24-hour-a-day award-winning technical assistance. The Cisco Technical Support & Documentation 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 Technical Support & Documentation Website

The Cisco Technical Support & Documentation 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/techsupport>

Access to all tools on the Cisco Technical Support & Documentation 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

Use the Cisco Product Identification (CPI) tool to locate your product serial number before submitting a web or phone request for service. You can access the CPI tool from the Cisco Technical Support & Documentation website by clicking the **Tools & Resources** link under Documentation & Tools. Choose **Cisco Product Identification Tool** from the Alphabetical Index drop-down list, or click the **Cisco Product Identification Tool** link under Alerts & RMAs. The CPI 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.

## 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 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 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>

- *Packet* magazine is the Cisco Systems technical user magazine for maximizing Internet and networking investments. Each quarter, Packet delivers coverage of the latest industry trends, technology breakthroughs, and Cisco products and solutions, as well as network deployment and troubleshooting tips, configuration examples, customer case studies, certification and training information, and links to scores of in-depth online resources. You can access Packet magazine at this URL:

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

- *iQ Magazine* is the quarterly publication from Cisco Systems designed to help growing companies learn how they can use technology to increase revenue, streamline their business, and expand services. The publication identifies the challenges facing these companies and the technologies to help solve them, using real-world case studies and business strategies to help readers make sound technology investment decisions. You can access iQ Magazine at this URL:

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

or view the digital edition at this URL:

<http://ciscoiq.texterity.com/ciscoiq/sample/>

- *Internet Protocol Journal* is a quarterly journal published by Cisco Systems 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 Systems, 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 for networking professionals to 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>

- 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>

