



Preface

Last revised on: January 12, 2012

This document provides design considerations and guidelines for deploying a Cisco Unified Communications System based on Cisco Unified Communications Manager 7.x (7.0 and all subsequent 7.x releases).

This document focuses on the following major components of the Cisco Unified Communications System:

- Cisco Unified Communications Manager (Unified CM), formerly Cisco Unified CallManager
- Cisco Unified Communications Manager Business Edition (Unified CMBE)
- Cisco Unity, Unity Express, and Unity Connection
- Cisco Unified MeetingPlace and Unified MeetingPlace Express
- Cisco Unified Video Advantage
- Cisco Unified Presence
- Cisco Unified Mobility

This document should be used in conjunction with other documentation available at the following locations:

- For other Solution Reference Network Design (SRND) documents:
<http://www.cisco.com/go/ucsrnd>
- For more information about the Cisco Unified Communications System:
<http://www.cisco.com/go/unified-techinfo>
<http://www.cisco.com>
- For more information about Cisco Unified Communications Manager:
http://www.cisco.com/en/US/products/sw/voicesw/ps556/tsd_products_support_series_home.html
<http://www.cisco.com>
- For other Cisco design guides:
<http://www.cisco.com/go/designzone>

New or Changed Information for This Release



Note

Unless stated otherwise, the information in this document applies to Cisco Unified Communications Manager 7.x (7.0 and all subsequent 7.x releases). Any differences between the various releases of Cisco Unified Communications Manager are specifically noted in the text.

The following chapters are either new in the current release of this document, or they contain information that has changed significantly from previous releases of this document.

- [Unified Communications Deployment Models, page 2-1](#)
- [Network Infrastructure, page 3-1](#)
- [Gateways, page 4-1](#)
- [Cisco Unified CM Trunks, page 5-1](#)
- [Media Resources, page 6-1](#)
- [Music on Hold, page 7-1](#)
- [Call Processing, page 8-1](#)
- [Call Admission Control, page 9-1](#)
- [Dial Plan, page 10-1](#)
- [Third-Party Voicemail Design, page 12-1](#)
- [Cisco Voice Messaging, page 13-1](#)
- [Cisco Unified MeetingPlace, page 14-1](#)
- [Cisco Unified MeetingPlace Express, page 15-1](#)
- [IP Video Telephony, page 16-1](#)
- [LDAP Directory Integration, page 17-1](#)
- [IP Telephony Migration Options, page 18-1](#)
- [Voice Security, page 19-1](#)
- [Unified Communications Endpoints, page 20-1](#)
- [Cisco Unified Presence, page 22-1](#)
- [Cisco Collaboration Clients and Applications, page 23-1](#)
- [Cisco Unified CM Applications, page 24-1](#)
- [Cisco Mobility Applications, page 25-1](#)
- [Network Management, page 26-1](#)
- [Cisco Unified Communications Manager Business Edition, page 27-1](#)

Within each chapter, new and revised information is listed in a section titled *What's New in This Chapter*.

Revision History

This document may be updated at any time without notice. You can obtain the latest version of this document online at:

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

Visit this Cisco.com website periodically and check for documentation updates by comparing the revision date (on the front title page) of your copy with the revision date of the online document.

The following table lists the revision history for this document.

Revision Date	Comments
January 12, 2012	Minor corrections to a few illustrations in the chapter on Cisco Unified Presence, page 22-1 .
November 15, 2010	Updated capacity and sizing information for Cisco Unified MeetingPlace.
July 21, 2010	Minor corrections to some illustrations.
June 4, 2010	Various minor updates and error corrections.
November 6, 2009	Added a new chapter on Cisco Collaboration Clients and Applications, page 23-1 , and information on Cisco Unified IP Phones 8900 Series and 9900 Series.
September 18, 2009	Updated content for Cisco Unified Communications System Release 7.1(3).
May 22, 2009	Updated content for Cisco Unified Communications System Release 7.1(2).
December 15, 2008	Updated content as indicated in New or Changed Information for This Release, page xxxiv .
August 5, 2008	Initial version of this document for Cisco Unified Communications Manager Release 7.0.

Obtaining Documentation, Obtaining Support, and Security Guidelines

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

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

Cisco Product Security Overview

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

Further information regarding U.S. export regulations may be found at:

http://www.access.gpo.gov/bis/ear/ear_data.html