



# Preface

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## Overview

*Cisco Unified IP Phone 7970G/7971G-GE Administration Guide for Cisco Unified Communications Manager 7.0* provides the information you need to understand, install, configure, manage, and troubleshoot the phones in the Cisco Unified IP Phone 7970 series on a Voice-over-IP (VoIP) network.

Because of the complexity of a Unified Communications network, this guide does not provide complete and detailed information for procedures that you need to perform in Cisco Unified Communications Manager (formerly Cisco Unified CallManager) or other network devices. See the [“Related Documentation” section on page xii](#) for a list of related documentation.

## Audience

Network engineers, system administrators, or telecom engineers should review this guide to learn the steps required to properly set up the Cisco Unified IP Phone 7970 Series on the network.

The tasks described are administration-level tasks and are not intended for end-users of the phones. Many of the tasks involve configuring network settings and affect the phone’s ability to function in the network.

Because of the close interaction between the Cisco Unified IP Phone and Cisco Unified Communications Manager, many of the tasks in this manual require familiarity with Cisco Unified Communications Manager.

## Organization

This manual is organized as follows:

<a href="#">Chapter 1, “An Overview of the Cisco Unified IP Phone”</a>	Provides a conceptual overview and description of the Cisco Unified IP Phone
<a href="#">Chapter 2, “Preparing to Install the Cisco Unified IP Phone on Your Network”</a>	Describes how the Cisco Unified IP Phone interacts with other key IP telephony components, and provides an overview of the tasks required prior to installation
<a href="#">Chapter 3, “Setting Up the Cisco Unified IP Phone”</a>	Describes how to properly and safely install and configure the Cisco Unified IP Phone on your network

Chapter 4, “Configuring Settings on the Cisco Unified IP Phone”	Describes how to configure network settings, verify status, and make global changes to the Cisco Unified IP Phone
Chapter 5, “Configuring Features, Templates, Services, and Users”	Provides an overview of procedures for configuring telephony features, configuring directories, configuring phone button and softkey templates, setting up services, and adding users to Cisco Unified Communications Manager
Chapter 6, “Customizing the Cisco Unified IP Phone”	Explains how to customize phone ring sounds, background images, and the phone idle display at your site
Chapter 7, “Viewing Model Information, Status, and Statistics on the Cisco Unified IP Phone”	Explains how to view model information, status messages, network statistics, and firmware information from the Cisco Unified IP Phone
Chapter 8, “Monitoring the Cisco Unified IP Phone Remotely”	Describes the information that you can obtain from the phone’s web page, and how to use this information to remotely monitor the operation of a phone and to assist with troubleshooting
Chapter 9, “Troubleshooting and Maintenance”	Provides tips for troubleshooting the Cisco Unified IP Phone
Appendix A, “Providing Information to Users Via a Website”	Provides suggestions for setting up a website for providing users with important information about their Cisco Unified IP Phones
Appendix B, “Feature Support by Protocol for the Cisco Unified IP Phones 7970 Series”	Provides information about feature support for the Cisco Unified IP Phone using the SCCP or SIP protocol
Appendix C, “Supporting International Users”	Provides information about setting up phones in non-English environments
Appendix D, “Technical Specifications”	Provides technical specifications of the Cisco Unified IP Phone
Appendix E, “Basic Phone Administration Steps”	Provides procedures for basic administration tasks such as adding a user and phone to Cisco Unified Communications Manager and then associating the user to the phone.

## Related Documentation

For more information about Cisco Unified IP Phones or Cisco Unified Communications Manager, refer to the following publications:

### Cisco Unified IP Phone 7970 Series

These publications are available at the following URL:

[http://www.cisco.com/en/US/products/hw/phones/ps379/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/hw/phones/ps379/tsd_products_support_series_home.html)

- *Cisco Unified IP Phone 7970 Series Phone Guide*
- *Cisco Unified IP Phone Features A–Z*
- *Cisco Unified IP Phone Expansion Module 7914 Phone Guide*
- *Installing the Wall Mount Kit for the Cisco Unified IP Phone*
- *Regulatory Compliance and Safety Information for the Cisco Unified IP Phones*
- *Open Source License Notices for the Cisco Unified IP Phones 7900 Series*

**Cisco Unified Communications Manager Administration**

These publications are available at the following URL:

[http://www.cisco.com/en/US/products/sw/voicesw/ps556/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/sw/voicesw/ps556/tsd_products_support_series_home.html)

**Cisco Unified Communications Manager Business Edition**

These publications are available at the following URL:

[http://www.cisco.com/en/US/products/ps7273/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps7273/tsd_products_support_series_home.html)

## 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](http://www.access.gpo.gov/bis/ear/ear_data.html).

## Document Conventions

This document uses the following conventions:

Convention	Description
<b>boldface</b> font	Commands and keywords are in <b>boldface</b> .
<i>italic</i> font	Arguments for which you supply values are in <i>italics</i> .
[ ]	Elements in square brackets are optional.
{ x   y   z }	Alternative keywords are grouped in braces and separated by vertical bars.
[ x   y   z ]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
screen font	Terminal sessions and information the system displays are in <code>screen font</code> .

Convention	Description
<b>boldface screen font</b>	Information you must enter is in <b>boldface screen font</b> .
<i>italic screen font</i>	Arguments for which you supply values are in <i>italic screen font</i> .
^	The symbol ^ represents the key labeled Control—for example, the key combination ^D in a screen display means hold down the Control key while you press the D key.
< >	Nonprinting characters, such as passwords are in angle brackets.

**Note**

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the publication.

**Caution**

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

**Warning**

**Means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.**