Cisco Unified IP Phone 8961, 9951, and 9971 Release Notes for Firmware Release 9.4(2)

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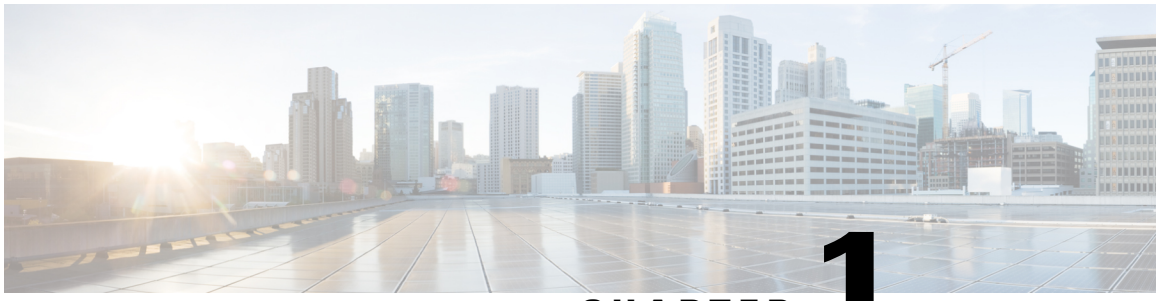

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Introduction

These release notes support the Cisco Unified IP Phones 8961, 9951, and 9971 running Firmware Release 9.4(2).

The following table lists the Cisco Unified Communications Manager release and protocol compatibility for the Cisco Unified IP Phones.

Cisco Unified IP Phone	Protocol	Cisco Unified Communications Manager
Cisco Unified IP Phones 8961, 9951, and 9971	SIP	Cisco Unified Communications Manager Release 7.1(5) and later

Note Some features in this release may require a specific version of Cisco Unified Communications Manager. The feature description identifies if the feature requires a different version of Cisco Unified Communications Manager from the version identified in the above table.

Related Documentation

Use the following sections to obtain related information.

Cisco Unified IP Phone 8900 Series Documentation

Refer to publications that are specific to your language, phone model, and Cisco Unified Communications Manager release. Navigate from the following documentation URL:

http://www.cisco.com/c/en/us/support/collaboration-endpoints/unified-ip-phone-8900-series/tsd-products-support-series-home.html

Cisco Unified IP Phone 9900 Series Documentation

Refer to publications that are specific to your language, phone model, and Cisco Unified Communications Manager release. Navigate from the following documentation URL:

http://www.cisco.com/c/en/us/support/collaboration-endpoints/unified-ip-phones-9900-series/tsd-products-support-series-home.html

Cisco Unified Communications Manager Documentation

See the *Cisco Unified Communications Manager Documentation Guide* and other publications that are specific to your Cisco Unified Communications Manager release. Navigate from the following documentation URL:

http://www.cisco.com/c/en/us/support/unified-communications/unified-communications-manager-callmanager/tsd-products-support-series-home.html

Cisco Business Edition 5000 Documentation

See the *Cisco Business Edition 5000 Documentation Guide* and other publications that are specific to your Cisco Business Edition 5000 release. Navigate from the following URL:

http://www.cisco.com/c/en/us/support/unified-communications/business-edition-5000/tsd-products-support-series-home.html

Cisco Virtualization Experience Client Documentation

Refer to publications that are specific to your language. Navigate from the following documentation URL:

http://www.cisco.com/c/en/us/support/collaboration-endpoints/virtualization-experience-client-6000-series/tsd-products-support-series-home.html

New and Changed Features

The following sections describe the features that are new or have changed in this release.

Note Some features may require the installation of a Cisco Unified Communications Manager Device Package. Failure to install the Device Package before the phone firmware upgrade may render the phones unusable.

Features Available with Firmware Release

The following sections describe the features available with the Firmware Release.

Call Transfer Notification

The Call Transfer Notification feature enables users to identify who transferred a ringing call to them. The name of the person who initiated the transfer displays in the Call Session bubble.

This feature requires no administration.

This feature is supported on the following SIP phones:

- Cisco Unified IP Phone 8961
- Cisco Unified IP Phone 9951
- Cisco Unified IP Phone 9971

Where to Find More Information

- *Cisco Unified IP Phone 8961, 9951, and 9971 Administration Guide for Cisco Unified Communications Manager 10.0 (SIP)*
- *Cisco Unified IP Phone 8961, 9951, and 9971 User Guide for Cisco Unified Communications Manager 10.0 (SIP)*

Features Available with Latest Cisco Unified Communications Manager Device Pack

The following sections describe features in the release which require the new firmware and the latest Cisco Unified Communications Manager Device Pack.

For information about the Cisco Unified IP Phones and the required Cisco Unified Communications Manager device packs, see the following URL:

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/compat/devpack_comp_mtx.html

Audio Parameter Enhancement

The Audio Parameter Enhancement feature enables the administrator to customize the audio parameters. These parameters control the quality of the audio that the users experience.

The Audio EQ field is configured in Cisco Unified Communications Manager Administration using **Device** > **Phone**. The following settings are supported:

- Default:
- Default: Low Bass/High Treble
- Default: Low Bass/High Mid/High Treble
- Open Space: Default
- Open Space: Low Bass/High Treble
- Open Space: Low Bass/High Mid/High Treble

This feature is supported on the following SIP phones:

- Cisco Unified IP Phone 8961
- Cisco Unified IP Phone 9951
- Cisco Unified IP Phone 9971

Where to Find More Information

Cisco Unified IP Phone 8961, 9951, and 9971 Administration Guide for Cisco Unified Communications Manager 10.0 (SIP)

Privacy Setting Enhancements

The Privacy Setting Enhancements feature controls the information displayed on the assistant phone and in the assistant phone log for private manager calls. The feature is controlled by two parameters: Show Remote Private Calls and Record Call Log for Remote Private Calls. These parameters are configured in the Cisco Unified Communications Manager Administration window, using the **Device** > **Phone** screen.

When Privacy is turned on for the manager phone and the Show Remote Private Calls is enabled on the assistant, the assistant phone shows “Private” instead of the caller information for private calls on the manager phone. When Privacy is turned on for the manager phone and the Show Remote Private Calls is disabled on the assistant phone, the assistant phone does not display any call session information about private calls on the manager phone. In this case, the assistant phone displays the solid red LED for the shared line.

By default, Show Remote Private Calls is disabled.

When Privacy is turned on for a call and Record Call Log for Remote Private Calls are enabled, the call log for the assistant phone shows the call information for the private call on the manager phone. When Privacy is turned on for a call and Record Call Log for Remote Private Calls is disabled, the call log for the assistant phone does not store call information for private calls on the manager phone.

This feature is supported on the following SIP phones:

- Cisco Unified IP Phone 8961
- Cisco Unified IP Phone 9951

- Cisco Unified IP Phone 9971

Where to Find More Information

- *Cisco Unified IP Phone 8961, 9951, and 9971 Administration Guide for Cisco Unified Communications Manager 10.0 (SIP)*
- *Cisco Unified IP Phone 8961, 9951, and 9971 User Guide for Cisco Unified Communications Manager 10.0 (SIP)*

Installation

Install the Firmware Release on Cisco Unified Communications Manager

Before using the Cisco Unified IP Phone Firmware Release 9.4(2) with Cisco Unified Communications Manager, you must install the latest firmware on all Cisco Unified Communications Manager servers in the cluster.

Procedure

Step 1 Go to the following URL:
http://www.cisco.com/cisco/software/navigator.html?mdfid=268437892&flowid=5293

Step 2 Depending on your phone model, choose **Cisco Unified IP Phones 8900 Series** or **Cisco Unified IP Phones 9900 Series**.

Step 3 Choose your phone type.

Step 4 Choose **Session Initiation Protocol (SIP) Software**.

Step 5 In the Latest Releases folder, choose **9.4(2)**.

Step 6 Select one of the following firmware files, click the **Download** or **Add to cart** button, and follow the prompts:

- cmterm-8961.9-4-2-13.cop.sgn
- cmterm-9951.9-4-2-13.cop.sgn
- cmterm-9971.9-4-2-13.cop.sgn

Note If you added the firmware file to the cart, click the **Download Cart** link when you are ready to download the file.

Step 7 Click the + next to the firmware file name in the Download Cart section to access additional information about this file. The hyperlink for the readme file is in the Additional Information section, which contains installation instructions for the corresponding firmware:

- cmterm-8961.9-4-2-13-readme.html
- cmterm-9951.9-4-2-13-readme.html
- cmterm-9971.9-4-2-13-readme.html

Step 8 Follow the instructions in the readme file to install the firmware.

Install the Firmware Zip Files

If a Cisco Unified Communications Manager is not available to load the installer program, the following .zip files are available to load the firmware.

- cmterm-8961.9-4-2-13.zip
- cmterm-9951.9-4-2-13.zip
- cmterm-9971.9-4-2-13.zip

Firmware upgrades over the WLAN interface may take longer than upgrades using a wired connection. Upgrade times over the WLAN interface may take more than an hour, depending on the quality and bandwidth of the wireless connection.

Procedure

Step 1 Go to the following URL:
http://www.cisco.com/cisco/software/navigator.html?mdfid=268437892&flowid=5293

Step 2 Depending on your phone model, choose **Cisco Unified IP Phones 8900 Series** or **Cisco Unified IP Phones 9900 Series**.

Step 3 Choose your phone type.

Step 4 Choose **Session Initiation Protocol (SIP) Software**.

Step 5 In the Latest Releases folder, choose **9.4(2)**.

Step 6 Download the relevant zip files.

Step 7 Unzip the files.

Step 8 Manually copy the unzipped files to the directory on the TFTP server. See *Cisco Unified Communications Operating System Administration Guide* for information about how to manually copy the firmware files to the server.

Cisco Unified Video Camera Firmware

The Cisco Unified Video Camera is supported on Cisco Unified Communications Manager Release 7.1(5) and later.

Limitations and Restrictions

Cisco Unified IP Phone 9971 and Personal Address Book or Fast Dial Features

Users of the Personal Address Book or Fast Dial feature may receive an error message followed by a request to log back into the network. In DNS round robin configurations, the phone does not retain access with the same IP address. In this situation, the phone displays a message to indicate that the user must log into the phone again.

Plantronics Audio 615M Headset and Cisco Unified IP Phone 8961

The Plantronics Audio 615M headset is not compatible with the Cisco Unified IP Phone 8961. You must use an alternate headset type for this IP phone. For more information, see https://tools.cisco.com/bugsearch/bug/CSCth71104.

Plantronics CS50 USB Headset and Cisco Unified IP Color Key Expansion Module

The Plantronics CS50 USB headset causes the phone to request power from the switch even though the headset is self powered. In this case, if a device such as a camera or expansion module is connected and active on the phone, the switch will reject the power request for the headset because the power budget has been exceeded. In this case, the headset cannot be used.

Cisco Unified IP Phones 9951 and 9971 One-Way Video Calls

Because of limitations in the H.264 video signaling standards, Cisco Unified IP Phones 9951 and 9971 may not correctly display video that is received from devices supporting resolutions greater than 640 x 480. In this case, the user sees a black video screen.

To ensure that video from such devices displays properly on the IP phone, configure high definition phones and Cisco Unified IP Phones 8961, 9951, and 9971 into different call regions and limit the video bandwidth to 384 kb/s when calling between regions.

Cisco Virtualization Experience Client 2100

The Cisco Virtualization Experience Client 2100 (VXC 2100) Series are zero clients designed to deliver a user desktop from a centralized host server, providing access to desktop applications as if they were available locally. The Cisco VXC 2100 Series attaches to the Cisco Unified IP Phones 8961, 9951, and 9971 through a spine connector cable.

When running VXC with a single-tunnel option, high traffic to or from VXC may affect the phone's performance. Cisco Unified IP Phones 8961, 9951, and 9971 support 384kbps throughput bandwidth for VXC.

Set VPN MTU to 1406 to reduce packet reassemble in Cisco Unified IP Phones 8961, 9951, and 9971, to improve bandwidth in limited packet rate.

Video and audio applications may not play smoothly through VXC, even on a device plugged directly into a LAN.

USB CD-ROMs and other USB storage devices have limited support. In the current VXC environment, the expected performance is a low bit/transfer rate for USB storage devices and USB CD-ROMs connected to the VXC device.

For more information, see http://www.cisco.com/c/en/us/support/collaboration-endpoints/virtualization-experience-client-2000-series/tsd-products-support-series-home.html.

No UDP for SIP Support

Cisco Unified IP Phones 8961, 9951, and 9971 do not support UDP for SIP. Do not configure the UDP protocol for SIP signaling on Cisco Unified IP Phones 8961, 9951, and 9971.

Multiple Text Messages

If you send multiple text messages to Cisco Unified IP Phones 8961, 9951, and 9971 within a few seconds using CiscoIPPhoneExecute.xml, the phone may reply with an HTTP/1.1 503 Service Unavailable message, and the user may not receive the text message on their phone screen.

Secure Video Bandwidth When Calling Over VPN

When using Cisco Unified IP Phones 8961, 9951, and 9971 for a secure video call over VPN and VXC VPN, the maximum supported bandwidth is 320 kbps.

Turn Off VPN Before Downgrade

The phone will go into an unregistered state if it is downgraded from a 9.3(1) load to a pre-9.2(3) load while VPN is turned on. Turn off VPN before downgrading to a pre-9.2(3) load.

Voice VLAN and IPv6 Limitation

If the PC attached to the PC port of the phone is using IPv6, we recommend that the PC Voice LAN access be disabled. This ensures that the PC can connect to the Voice VLAN.

Phone Limitation During SVI Change

Cisco IP Phones use a Switch Virtual Interface (SVI) to manage VLANs. If the SVI changes and the phones require new IP addresses, some phones require a reboot so that the new IP address is used. The following phones must be rebooted in this condition:

- Cisco Unified IP Phone 6901
- Cisco Unified IP Phone 6911
- Cisco Unified IP Phone 6921

- Cisco Unified IP Phone 6941
- Cisco Unified IP Phone 6945
- Cisco Unified IP Phone 6961
- Cisco Unified IP Phone 8941
- Cisco Unified IP Phone 8945
- Cisco Unified IP Phone 8961
- Cisco Unified IP Phone 9951
- Cisco Unified IP Phone 9971

Phone Behavior During Times of Network Congestion

Anything that degrades network performance can affect Cisco IP Phone voice and video quality, and in some cases, can cause a call to drop. Sources of network degradation can include, but are not limited to, the following activities:

- Administrative tasks, such as an internal port scan or security scan
- Attacks that occur on your network, such as a Denial of Service attack

To reduce or eliminate any adverse effects to the phones, schedule administrative network tasks during a time when the phones are not being used or exclude the phones from testing.

View Caveats

You can search for caveats using the Cisco Bug Search.

Known caveats (bugs) are graded according to severity level, and can be either open or resolved.

Before You Begin

To view caveats, you need the following items:

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

Procedure

Step 1 Perform one of the following actions:

- To find all caveats for this release, use this URL:

  https://tools.cisco.com/bugsearch/search?kw=&pf=prdNm&pfVal=282677106&rls=9.4(2)&sb=anfr&srtBy=svr&bt=custV

- To find all open caveats for this release, use this URL:

https://tools.cisco.com/bugsearch/search?kw=&pf=prdNm&pfVal=282677106&rls=9.4%282%29&sb=afr&srtBy=svr&bt=custV

- To find all resolved caveats for this release, use this URL:

  https://tools.cisco.com/bugsearch/search?kw=&pf=prdNm&pfVal=282677106&rls=9.4%282%29&sb=fr&srtBy=svr&bt=custV

Step 2 When prompted, log in with your Cisco.com user ID and password.

Step 3 To look for information about a specific problem, enter the bug ID number in the Search for field, then press **Enter**.

Unified Communications Manager Endpoints Locale Installer

By default, Cisco IP Phones are set up for the English (United States) locale. To use the Cisco IP phones in other locales, you must install the locale-specific version of the Unified Communications Manager Endpoints Locale Installer on every Cisco Unified Communications Manager server in the cluster. The Locale Installer installs the latest translated text for the phone user interface and country-specific phone tones on your system so that they are available for the Cisco IP Phones.

To access the Locale Installer required for a release, access http://software.cisco.com/download/navigator.html?mdfid=286037605&flowid=46245, navigate to your phone model, and select the Unified Communications Manager Endpoints Locale Installer link.

For more information, see the "Locale Installer" section in the *Cisco Unified Communications Operating System Administration Guide*.

Note The latest Locale Installer may not be immediately available; continue to check the website for updates.

Cisco IP Phone Firmware Support Policy

For information on the support policy for Cisco IP Phones, see http://www.cisco.com/c/en/us/support/docs/collaboration-endpoints/unified-ip-phone-7900-series/116684-technote-ipphone-00.html.

Cisco IP Phone Documentation Updates on Cisco Unified Communications Manager

The Cisco Unified Communications Manager Self Care Portal (Release 10.0 and later) and User Options web pages (Release 9.1 and earlier) provide links to the IP Phone user guides in PDF format. These user guides are stored on the Cisco Unified Communications Manager and are up to date when the Cisco Unified Communications Manager release is first made available to customers.

After a Cisco Unified Communications Manager release, subsequent updates to the user guides appear only on the Cisco website. The phone firmware release notes contain the applicable documentation URLs. In the web pages, updated documents display “Updated” beside the document link.

Note The Cisco Unified Communications Manager Device Packages and the Unified Communications Manager Endpoints Locale Installer do not update the English user guides on the Cisco Unified Communications Manager.

Administrators and users should check the Cisco website for updated user guides and download the PDF files. Administrators can also make the files available to the users on their company website.

Tip Administrators may want to bookmark the web pages for the phone models that are deployed in their company and send these URLs to their users.

Documentation, Service Requests, and Additional Information

For information on obtaining documentation, submitting a service request, and gathering additional information, 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/c/en/us/td/docs/general/whatsnew/whatsnew.html

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

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