Cisco Unified SIP Phone 3905 Release Notes for Firmware Release 9.4(1)

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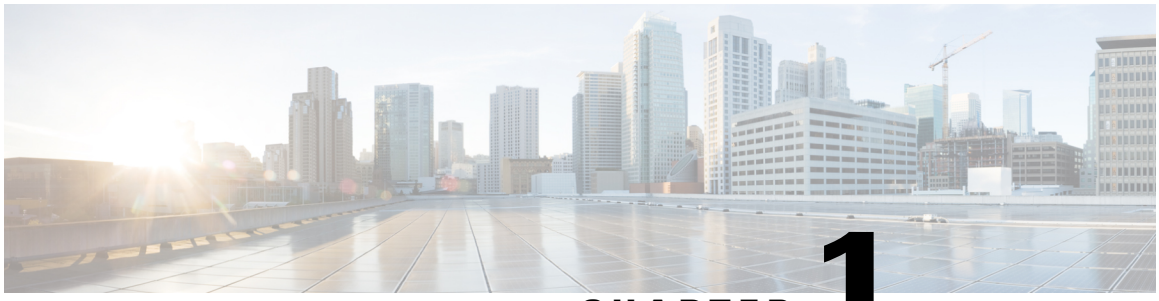

CHAPTER 1

Cisco Unified SIP Phone 3905 Release Notes for Firmware Release 9.4(1)

Introduction

These release notes support the Cisco Unified SIP Phone 3905 running Firmware Release 9.4(1).

The following table lists the Cisco Unified Communications Manager release and protocol compatibility for the Cisco Unified SIP Phone 3905.

Cisco Unified IP Phone	Protocol	Cisco Unified Communications Manager
Cisco Unified SIP Phone 3905	SIP	Cisco Unified Communications Manager Release 7.1(5) and later

Related Documentation

Use the following sections to obtain related information.

Cisco Unified SIP Phone 3905 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-sip-phone-3900-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 3000 Documentation

See the *Cisco Business Edition 3000 Documentation Guide* and other publications that are specific to your Cisco Business Edition 3000 release. Navigate from the following documentation URL:

http://www.cisco.com/c/en/us/support/unified-communications/business-edition-3000/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

New and Changed Features

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

Note 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.

IPv6 Ready Logo (SIP)

The IPv6 Ready Logo (SIP) feature ensures that IP addressing on Cisco SIP Phones passes component level conformance and interoperability testing as identified in the TAHI Project.

The feature is supported on the following phones:

- Cisco Unified SIP Phone 3905

Where to Find More Information

- https://www.ipv6ready.org/
- http://www.tahi.org/

IPv6 Support

The IPv6 Support feature provides support for expanded IP addressing on Cisco IP Phones. The phones support IPv6 support in stand-alone or dual-stack modes. In dual-stack mode, phones can communicate using IPv4 and IPv6 simultaneously.

The default configuration is dual-stack mode.

The feature is controlled using the IP Addressing Mode and the IP Addressing Mode Preference for Signalling parameters in the Common Phone Profile: **Device** > **Device Settings** > **Common Phone Profile** of the Cisco Unified Communications Manager Administration window.

The IP Addressing Mode and the IP Addressing Mode Preference for Signaling parameters have the following options:

- IPv4 Only
- IPv6 Only
- IPv4 and IPv6 (default)

This feature has no user impact.

The feature is supported on the following phone:

- Cisco Unified SIP Phone 3905

Where to Find More Information

Cisco Unified SIP Phone 3905 Administration Guide for Cisco Unified Communications Manager 10.0 (SIP)

Multiple Date Display Formats

The Multiple Date Display Formats feature provides the ability for the phone to display one of three date formats controlled by the CUCM. The supported date formats include:

- Day, Month, Year (DD/MM/YYYY)
- Month, Day, Year (MM/DD/YYYY)

- Year, Month, Day (YYYY/MM/DD)

The feature is supported on the following phones:

- Cisco Unified SIP Phone 3905

Where to Find More Information

Cisco Unified SIP Phone 3905 Administration Guide for Cisco Unified Communications Manager 10.0 (SIP)

Native Paging for Cisco Unified Communications Manager Express

The Native Paging for Cisco Unified Communications Manager Express feature provides users with the ability to create a one-way voice path to a designated group of phones. The receiving phones hear the message, but cannot respond to the call.

The feature is supported for IP multicast and unicast, in IPv4 address mode only.

The administrator assigns a specific paging number to a designated group of phones.

The feature is supported on the following phone:

- Cisco Unified SIP Phone 3905

For more information, see the Cisco Unified Communications Manager Express documentation.

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

Paging Support on Cisco Unified Communications Manager

The Paging Support on Cisco Unified Communications Manager feature provides users with the ability to create a one-way voice path to a designated group of phones using Singlewire InformaCast software.

The paging phone must be configured to support HTTP authentication and RTP multicast.

The administrator enables paging support by selecting basic HTTP authentication for the Cisco Unified Communications Manager.

The feature is supported on the following phones:

- Cisco Unified IP SIP Phone 3905

Where to Find More Information

- *Cisco Unified SIP Phone 3905 Administration Guide for Cisco Unified Communications Manager 10.0 (SIP)*
- *Cisco Unified SIP Phone 3905 User Guide for Cisco Unified Communications Manager 10.0 (SIP)*

SIP MD5 Digest Authentication

The SIP MD5 Digest Authentication feature allows administrators to enable or disable MD5 digest authentication for SIP.

MD5 is used for security.

The feature is supported on the following phone:

- Cisco Unified IP Phone 3905

Where to Find More Information

Cisco Unified SIP Phone 3905 Administration Guide for Cisco Unified Communications Manager 10.0 (SIP)

Installation

Install Firmware Release on Cisco Unified Communications Manager

Before using the Cisco Unified SIP Phone 3905 Firmware Release 9.4(1) 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://software.cisco.com/download/navigator.html?mdfid=280896546&i=rm

Step 2 Choose **Cisco Unified SIP Phone 3900 Series**.

Step 3 Choose **Cisco Unified SIP Phone 3905**.

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

Step 5 In the Latest Releases folder, choose **9.4(1)**.

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

- cmterm-3905.9-4-1-0.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-3905-sip-9-4-1-0-readme.html

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

Install Firmware Zip Files

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

- cmterm-3905.9-4-1-0.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://software.cisco.com/download/navigator.html?mdfid=280896546&i=rm

Step 2 Choose **Cisco Unified SIP Phone 3900 Series**.

Step 3 Choose **Cisco Unified SIP Phone 3905**.

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

Step 5 In the Latest Releases folder, choose **9.4(1)**.

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.

Limitations and Restrictions

Call Admission Control with Cisco Unified Communications Manager

We recommend that you do not configure the Cisco Unified Communications Manager to apply Call Admission Control (CAC) to the Cisco Unified SIP Phone 3905. Ensure that the phone is not part of the CAC locations or CAC gatekeepers and trunks. For more information on CAC, see the *Cisco Unified Communications Manager System Guide*.

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 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.

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.

Caveats

This section describes the resolved and open caveats, and provides information on accessing the Cisco Software Bug Toolkit.

Access Cisco Bug Search

Known problems (bugs) are graded according to severity level. These release notes contain descriptions of the following:

- All severity level 1 or 2 bugs
- Significant severity level 3 bugs

You can search for problems by using the Cisco Bug Search.

Before You Begin

To access Cisco Bug Search, you need the following items:

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

Procedure

Step 1 To access the Cisco Bug Search, go to:
https://tools.cisco.com/bugsearch

Step 2 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**.

Open Caveats

The following table lists severity 1, 2, and 3 defects that are open for the Cisco Unified IP Phones for Firmware Release 9.4(1).

For more information about an individual defect, you can access the online record for the defect by clicking the Identifier or going to the URL that is shown. You must be a registered Cisco.com user to access this online information.

Because defect status continually changes, the table reflects a snapshot of the defects that were open at the time this report was compiled. For an updated view of open defects, access Bug Toolkit as described in Access Cisco Bug Search, on page 7.

Table 1: Open Caveats for Firmware Release 9.4(1)

Identifier	Headline
CSCug96869	Not request new address after DHCPv6 assigned address duplicated
CSCuh02720	Take long time to bootup if DHCPv4 server shutdown
CSCuh10981	No DSCP to 802.1Q priority mapping for both IPv4 and IPv6
CSCuh15911	Phone should keep re-provision if version stamp mismatch

Identifier	Headline
CSCuh51331	Phone stuck after IPv6 isic6 attack
CSCuh91119	Phone stuck during Codenomicon HTTP Server/TCP for IPv4 suite testing
CSCui16740	Attack RTP port during active call, one-way voice occurs
CSCui21409	3905:DUT will restart and change IPv6 address when running ISIC
CSCui57035	Phone stuck after 10 hours DHCP_option and VLAN_Flapping stress
CSCuj73157	Not re-request config file if get TFTP "Disk full or allocation exceed"

Resolved Caveats

The following table lists severity 1, 2, and 3 defects that are resolved for the Cisco Unified IP Phones for Firmware Release 9.4(1).

For more information about an individual defect, you can access the online record for the defect by clicking the Identifier or going to the URL that is shown. You must be a registered Cisco.com user to access this online information.

Because defect status continually changes, the table reflects a snapshot of the defects that were resolved at the time this report was compiled. For an updated view of resolved defects, access Bug Toolkit as described in Access Cisco Bug Search, on page 7.

Table 2: Resolved Caveats for Firmware Release 9.4(1)

Identifier	Headline
CSCtw59242	Calls established with no audio on IP Phones 3905
CSCty26479	Phone unable to dial variable length route patterns with FAC enabled.
CSCty55380	3905 IP Phones always display GMT Time
CSCtz96290	3905 CME: Phone can’t work with VM server by enable DTMF integration
CSCtz96937	Brazilian cptone not working on a 3905 phone
CSCub09465	CP-3905 fails to configure voice VLAN via LLDP-MED.
CSCuc17539	3905 Phone - No audio
CSCuc90106	Call xfer on 3905 phone doesn't work after removing CfwdAll settings
CSCud02155	DSP module timing issue and corrupt data make 3905 hang in call

Identifier	Headline
CSCud13126	3905 Phones using more power than it's class allows during speakerphone
CSCud31483	error in G.729 codec handling make no audio
CSCuf03705	3905 phone won't stay registered to third-party switch
CSCug20931	BE3K: 3905 - Unable to dial from Placed Calls (Call History)
CSCug30895	Date & Time Format enhancement for IST in 3905 SIP phones
CSCug54295	3905 phone ignores timeout for variable length SIP Dial Rule pattern
CSCug59461	39xx phon model won't restrict read access to the netw setting
CSCug61605	3905 plays incorrect ringbacktone when NETWORK LOCALE is set to AU or UK
CSCug88894	3905 IP phone shows "rejected" on CUCM if we delete and add it back
CSCuh58560	3905 cannot stop ringback when Display field contains the letters "tag"
CSCuh75574	3905 allows Telnet access to port 7870 exposing access to Busy Box shell
CSCuh79852	Not send KPML via Notify message in some scenario
CSCui73186	3905 get stuck using hold in call preservation
CSCui84692	3905 hear busy tone when cancel transfer
CSCuj04191	3905 Phone sip module,SRST, re- registration thread and failover thread

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.

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

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