Cisco IP Phone 7800 Series Release Notes for Firmware Release 12.6(1)SR1

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These release notes support the Cisco IP Phones 7811, 7821, 7841, and 7861 running SIP Firmware Release 12.6(1)SR1.

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

Cisco IP Phone	Protocol	Cisco Unified Communications Manager
Cisco IP Phones 7811, 7821, 7841, and 7861	SIP	Cisco Unified Communications Manager version 8.5(1) and later
		Cisco Unified Communications Manager DST Olsen version D or later
		SRST 8.0 (IOS load 15.1(1)T) and above
Cisco IP Phones 7811, 7821, 7841, and 7861	SIP	CME 10.0 (IOS load 15.3(3)M)
Cisco IP Phones 7811, 7821, 7841, and 7861		Cisco Expressway X8.7 or Cisco TelePresence Video Communication Server X8.7 (for Mobile and Remote Access)

Table 1: Cisco IP Phones, Cisco Unified Communications Manager, and Firmware Release Compatibility

Related Documentation

Use the following sections to obtain related information.

Cisco IP Phone 7800 Series Documentation

Refer to publications that are specific to your language, phone model, and call control system. Navigate from the following documentation URL:

https://www.cisco.com/c/en/us/products/collaboration-endpoints/unified-ip-phone-7800-series/index.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:

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

New and Changed Features

This release contains no new or changed features.

Features from Release 12.6(1)

Cisco IP Phone 7800 Series Firmware Release 12.6(1) was deprecated. It had no new features.

Installation

Installation Requirements

Before you install the firmware release, you must ensure that your Cisco Unified Communications Manager (Unified CM) is running the latest device pack. After you install a device pack on the Unified CM servers in the cluster, you need to reboot all the servers.



Note If your Unified CM doesn't have the required device pack to support this firmware release, the firmware may not work correctly.

For information on the Unified CM Device Packs, see https://www.cisco.com/c/en/us/td/docs/voice_ip_comm/ cucm/compat/matrix/CMDP BK CCBDA741 00 cucm-device-package-compatibility-matrix.html.

Install the Firmware Release on Cisco Unified Communication Manager

Before using the phone firmware release on the Cisco Unified Communications Manager, you must install the latest Cisco Unified Communications Manager firmware on all Cisco Unified Communications Manager servers in the cluster.

Procedure

Step 1	Go to the following URL:		
	https://software.cisco.com/download/navigator.html?mdfid=284883944&i=rm		
Step 2	Choose Cisco IP Phone 7800 Series.		
Step 3	Choose your phone model.		
Step 4	Choose Session Initiation Protocol (SIP) Software.		
Step 5	In the Latest Releases folder, choose 12.6(1)SR1.		
Step 6	Select the firmware file, click the Download or Add to cart button, and follow the prompts		

The firmware filename is cmterm-78xx.12-6-1-0101-692.k3.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	this file	he + next to the firmware file name in the Download Cart section to access additional information about . The hyperlink for the readme file is in the Additional Information section, which contains installation ions for the corresponding firmware.
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 file is available to load the firmware.

• cmterm-78xx.12-6-1-0101-692.zip

Procedure

Step 1	Go to the following URL:		
	http://software.cisco.com/download/navigator.html?mdfid=284883944&i=rm		
Step 2	Choose Cisco IP Phones 7800 Series.		
Step 3	Choose your phone model.		
Step 4	Choose Session Initiation Protocol (SIP) Software.		
Step 5	In the Latest Releases folder, choose 12.6(1)SR1 .		
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 <i>Cisco Unified Communications Operating System Administration Guide</i> for information about how to manually copy the firmware files to the server.		

Limitations and Restrictions

Manufacturing Installed Certificate Signature and SHA-256 Support

The manufacturing installed certificate(MIC) signature has been updated from SHA-128 with RSA to SHA-256 with RSA. You must update and install the new SHA-2 certificates on the Cisco Unified Communications Manager for secure mode to function. You can download the new certificate from http://www.cisco.com/security/pki/certs/cmca2.cer.

All applications that authenticate the phone MIC should update the MIC, including the following:

- Cisco Unified Communications Manager
- Cisco Unified Survivable Remote Site Telephony
- Cisco Secure Access Control System

Cisco Identity Services Engine

For additional information about SHA-2 use and support, see *Security Guide for Cisco Unified Communications Manager* (https://www.cisco.com/c/en/us/support/unified-communications/ unified-communications-manager-callmanager/products-maintenance-guides-list.html).

Phone Behavior During Times of Network Congestion

Anything that degrades network performance can affect phone audio 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

Health-Care Environment Use

This product is not a medical device and uses an unlicensed frequency band that is susceptible to interference from other devices or equipment.

On-Hook Transfer Limitation in SIP Phones

When the Cisco Unified Communications Manager **Transfer On-Hook Enabled** field is enabled, users might report a problem with direct call transfer in SIP phones. If the user transfers the call and immediately goes on hook before they hear the ring signal, the call may drop instead of being transferred.

The user needs to hear the ring signal so that they can be sure that the call is being routed.

Ringtone Limitation During Firmware Downgrade from Release 11.0

When the phone downgrades from Firmware Release 11.0 to Firmware Release 10.3, the phone may not ring when there is an incoming call. The ringtone for the line has been deleted and must be manually set in the **Settings** > **Ringtone** menu.

Connections with the PC and SW Ports

If you only have one LAN cable at your desk, you can plug your phone into the LAN with the SW port and then connect your computer into the PC port.

You can also daisy chain two phones together. Connect the PC port of the first phone to the SW port of the second phone.

Caution Do not connect the SW and PC ports into the LAN.

Language Limitation

There is no localized Keyboard Alphanumeric Text Entry (KATE) support for the following Asian locales:

- Chinese (China)
- Chinese (Hong Kong)
- Chinese (Taiwan)
- Japanese (Japan)

• Korean (Korea Republic)

The default English (United States) KATE is presented to the user instead.

For example, the phone screen will show text in Korean, but the 2 key on the keypad will display **a b c** 2 **A B C**.

Softkey Templates and Video Mode

You can't configure softkey templates for Video mode on the Cisco IP Phone 7800 Series phones. If a softkey appears on the phone, then it will not function correctly.

Cisco IP Phone Firmware Support Policy

For information on the support policy for phones, see https://cisco.com/go/phonefirmwaresupport.

Caveats

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:

• Use this URL for all caveats:

https://bst.cloudapps.cisco.com/bugsearch/ search?kw=12.6.1%20release%2078xx%20audio&pf=prdNm&rls=12.6(1)&sb=anfr&bt=empCustV

• Use this URL for all open caveats:

https://bst.cloudapps.cisco.com/bugsearch/ search?kw=12.6.1%20release%2078xx%20audio&pf=prdNm&rls=12.6(1)&sb=anfr&sts=open&bt=empCustV

• Use this URL for all resolved caveats:

https://bst.cloudapps.cisco.com/bugsearch/ search?kw=12.6.1%20release%2078xx%20audio&pf=prdNm&rls=12.6(1)&sb=anfr&sts=fd&bt=empCustV

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

Step 3 (Optional) Enter the bug ID number in the Search for field, then press **Enter**.

Open Caveats

The following list contains severity 1, 2, and 3 defects that are open for the Cisco IP Phone 7800 Series for Firmware Release 12.6(1)SR1.

For more information about an individual defect, access the Bug Search toolkit and search for the defect using the Identifier. You must be a registered Cisco.com user to access this online information.

Because defect status continually changes, the list reflects a snapshot of the defects that were open at the time this report was compiled. For an updated view of open defects, access the Bug Toolkit as described in View Caveats, on page 5.

CSCvq94805 Newer Revisions Of 7861 Might Exhibit Slowness In Audio Cut-Through To The Handset

Resolved Caveats

The following list contains severity 1, 2, and 3 defects that are resolved for the Cisco IP Phone 7800 Series for Firmware Release 12.6(1)SR1.

For more information about an individual defect, access the Bug Search toolkit and search for the defect using the Identifier. You must be a registered Cisco.com user to access this online information.

Because defect status continually changes, the list reflects a snapshot of the defects that were open at the time this report was compiled. For an updated view of resolved defects, access the Bug Toolkit as described in View Caveats, on page 5.

- CSCvq75308 8851/8861 : With CME/BE4k MWI always shows 1 message regardless of number of messages
- CSCvq83109 ms crash caused by watchdog timeout
- CSCvq93141 External phone number mask is not displayed as the directory number after an incoming call when more than 11 lines are configured
- CSCvr06323 CUCM Server1 and CUCM Server3 null values for Active Server
- CSCvr21736 Phone displays "???" when releasing a call
- CSCvr21781 Unexpected audio tone played for call recording INVITE
- CSCvr27035 7841 phones do not request custom directory URLs
- CSCvr35161 PRT Status: uploading-failed when generating PRT via web access
- CSCvr54598 Intermittently not ring after upgrade to 12.6
- CSCvr56478 "Attempting VPN connection" banner on phone screen doesn't go away after VPN connection establishes
- CSCvr69093 Phone stuck in registering status due to Memory leak in sipstack

Bugs Resolved in Firmware Release 12.6(1)

Because Firmware Release 12.6(1) was deprecated, here are the bugs resolved in that release.

CSCvm52980: 78XX phone does not return to idle screen after using speed dial menu

- CSCvq31061: Phone still show the "Answer" softkey while "Hold Reversion" state is end
- CSCvq84976: Multiple Vulnerabilities in glibc for Snoopyplus with TI solution

Cisco Unified Communication Manager Public Keys

To improve software integrity protection, new public keys are used to sign cop files for Cisco Unified Communications Manager Release 10.0.1 and later. These cop files have "k3" in their name. To install a k3 cop file on a pre-10.0.1 Cisco Unified Communications Manager, consult the README for the ciscocm.version3-keys.cop.sgn to determine if this additional cop file must first be installed on your specific Cisco Unified Communications Manager version. If these keys are not present and are required, you will see the error "The selected file is not valid" when you try to install the software package.

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 https://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 documentation for your particular Cisco Unified Communications Manager release.



Note

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

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.

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



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

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- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

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