



Cisco Wireless IP Phone 8821 and 8821-EX Release Notes for Firmware Release 11.0(6)SR4

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These release notes support the 11.0(6)SR4 firmware release for the Cisco Wireless IP Phone 8821 and 8821-EX.

The following table describes the supported call control platforms for this release.

Table 1: Call Control Platform

Call Control Platform	Minimum Version	Recommended Versions
Cisco Unified Communications Manager	9.1(2)	11.5, 12.0, 12.5, 14 or later
Cisco Unified Communications Manager Express	10.5	11.7 or later
Cisco Unified Survivable Remote Site Telephony	10.5	11.7 or later

The following table describes the supported wireless access points and versions for this release.

For more details about compatible wireless access points, see the [Cisco Wireless IP Phone 8821 and 8821-EX Wireless LAN Deployment Guide](#).

Table 2: Wireless Access Points

Access Point Hardware	Minimum Version	Recommended Versions
Cisco AireOS Wireless LAN Controller and Cisco Lightweight Access Points	8.0.121.0	8.3.150.0, 8.5.171.0, 8.8.130.0, 8.10.151.0
Cisco Catalyst IOS XE Wireless LAN Controller and Cisco Lightweight Access Points	16.12.1s	16.12.5, 17.3.3, 17.4.1
Cisco Mobility Express and Cisco Lightweight Access Points	8.3.143.0	8.3.150.0, 8.5.171.0, 8.8.130.0, 8.10.151.0

Access Point Hardware	Minimum Version	Recommended Versions
Cisco Autonomous Access Points	12.4(21a)JY	15.2(4)JB6, 15.3(3)JF12i, 15.3(3)JPK
Cisco Meraki Access Points	MR 25.9, MX 13.33	MR 27.6, MX14.53

Related Documentation

Use the following sections to obtain related information.

Cisco Wireless IP Phone 882x Series Documentation

Find documentation that is specific to your phone model, call control system, and language on the product support page for the [Cisco Wireless IP Phone 8821](#) and [Cisco Wireless IP Phone 8821-EX](#). From these pages, you can also find the [Cisco Wireless IP Phone 8821 and 8821-EX Wireless LAN Deployment Guide](#).

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 on the [product support](#) page.

Cisco Unified Communications Manager Express Documentation

See the publications that are specific to your language, phone model, and release on the product support page for [Cisco Unified Communications Manager Express](#).

New and Changed Features

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

Battery Management Enhancement

New options to set up the following:

- **Battery Lifetime Alert:** This alert is generated periodically according to specified interval. It reminds the user to check or replace the battery based on the phone use time.
- **Phone SN Alert:** This alert is generated when the phone manufactured date exceeds two years.
- **Overvoltage Alert:** This alert is generated immediately when an overvoltage event is detected.
- **Battery SN Reminder:** This reminds the user to check the age of the battery. The reminder will be generated every time after the phone boots-up from powered-off state and registered to CUCM.

Where to Find More Information

- *Cisco Wireless IP Phone 8821 and 8821-EX Administration Guide for Cisco Unified Communications Manager*

Installation

Installation Requirements

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



Note If your Cisco Unified Communications Manager doesn't have the required device package to support this firmware release, the firmware may not work correctly.

For information on the device packages, see the Cisco Unified Communications Manager [Device Package Compatibility Matrix](#).

Install Firmware Release 11.0(6)SR4 on Cisco Unified Communications Manager

Before you can use 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.

Before you begin

The Cisco Options Package (COP) file for this release is signed with the sha512 checksum. Versions of Cisco Unified Communications Manager before version 14 don't have built-in support for sha512, so for those versions, you must first enable sha512 checksum support.



Note If you try to install the sha512 COP file on a Cisco Unified Communications Manager that doesn't support the sha512 checksum, the COP file doesn't appear in the list of available files.

To enable sha512 checksum support, install ciscocm.enable-sha512sum-2021-signing-key-v1.0.cop.sgn. For directions on how to install this file, see this [release note document](#).

Procedure

- Step 1** Go to the [IP Phone 8800 Series Software Download](#) page.
- Step 2** Click **Wireless IP Phone 8821**.
- Step 3** Click **Session Initiation Protocol (SIP) Software**.
- Step 4** From the **Latest Releases** folder, click **11.0(6)SR4**.
- Step 5** Click either **Download** or **Add to Cart** next to the firmware file, and follow the prompts.

Firmware file: cmterm-8821-sip.11-0-6SR4-3.k4.cop.sha512

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

- Step 6** To access more details about the file, such as the Checksum details and a link to the Readme file, hover the mouse pointer over the filename.

- a) Click **Readme** to access the installation instructions for the corresponding firmware.
- b) Follow the instructions in the **Readme** file to install the firmware.

Install Firmware Release 11.0(6)SR4 on Cisco Unified Communications Manager Express

Before you can use the phone firmware release on Cisco Unified Communications Manager Express, you must download the firmware image file from the software download center and install it.

For information about Cisco Unified Communications Manager Express support, see the [Phone Feature Support Guide for Unified CME, Unified SRST, Unified E-SRST, and Unified Secure SRST](#).

For more information about this procedure, see the *Install and Upgrade Cisco Unified CME Software* chapter in the [Cisco Unified Communications Manager Express System Administrator Guide](#).

Procedure

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- Step 1** Go to the [IP Phone 8800 Series Software Download](#) page.
 - Step 2** Click **Wireless IP Phone 8821**.
 - Step 3** Click **Session Initiation Protocol (SIP) Software**.
 - Step 4** From the **Latest Releases** folder, click **11.0(6)SR4**.
 - Step 5** Click **Download** or **Add to Cart** next to the following zip file and follow the prompts.
Zip file: cmterm-8821.11-0-6SR4-3.zip
 - Step 6** Extract the files from the zip file, manually copy them to the Cisco Unified Communications Manager Express TFTP server (router flash), and enable them for TFTP.
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Limitations and Restrictions

Phone Behavior During Times of Network Congestion

- 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.

Recording Tone Volume Limitation

If you use the recording feature, we recommend that you change the **Recording Tone Local Volume** configured in Cisco Unified Communications Manager. Change the field from the default of 100 to 20, as described in [CSCvc14605](#).

The Cisco Unified Communications Manager device packs (October 2017 and later) have the default set to 20.

TLS 1.2 Tunnel Limitation with ISE 2.0 to 2.3

To support a TLS 1.2 tunnel between the phone and the Cisco Identity Service Engine (ISE) server, the ISE patch to resolve [CSCvm03681](#) must be applied. This patch is required for ISE servers running Release 2.0 to 2.3; ISE Release 2.4 and later include the patch.

Caveats

View Bugs

You can search for bugs using the Cisco Bug Search Tool.

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

For more information about how to use the Bug Search Tool, see [Bug Search Tool Help](#).

Before you begin

To view bugs, you need the following items:

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

Procedure

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- Step 1** Click the following links to view bugs for the 11.0(6)SR4 release of the Cisco Wireless IP Phone 8821 and 8821-EX:
- View [all bugs](#).
 - View [open bugs](#).
 - View [resolved bugs](#).
- 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**.
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Open Bugs

The following list contains a snapshot of the severity 1, 2, and 3 bugs that were open at the time of the Cisco Wireless IP Phone 8821 and 8821-EX Firmware Release 11.0(6)SR4.

For an updated view of open bugs or to view more information about specific bugs, access the Bug Search Tool as described in: [View Bugs](#)

- CSCvn05182 UI error while enable FAC.
- CSCvo74177 Sometimes(90%) ringer is very low in hold reversion state when ringer volume is maximized.
- CSCvo05996 No Recording Tone heard after hold/resume several times.

- CSCvo08723 Phone not able to re-connect to highest priority WLAN profile after connect to lower priority one.
- CSCvo10371 Phone did not do full authentication after deauth 7 causing call preservation.
- CSCvo46442 Phone shut down when battery was showing 13%.
- CSCvo74044 Hear short sharp ring tone during hold revert with Chirp1&2 ringtone and RIU session.
- CSCvo82607 Wrong behavior after press red key on originator phone in conference call when failover to SRST.
- CSCvw91213 phone sometimes fails to process the EAP Request packets on 5GHz JFW test bed.
- CSCvw91590 8821 can't make a call when FAC enabled and using Recents list.
- CSCvp14422 Phone will not roam from 5GHz WLAN profile to 2.4GHz WLAN profile if SSID disabled via WLC.
- CSCvv45769 8821 can't set local time from LCD if its dhcp server has option 42 configured.
- CSCvn18501 MLPP priority lost in session bubble during xfer/conference.
- CSCvn58894 8821 Personal Directory Login should not display again after success login & exit without logout.
- CSCvn63992 UI: missing SSID if in neighbor list before WLAN connection.
- CSCvv04725 8821 has no dial tone after fallback from srst to cucm.
- CSCvr86735 Phone does not ring for hold reverted call after disconnecting another active call.
- CSCvs16657 Call is automatically muted when dock station power is disconnected.
- CSCvs85963 undefined' and 'Rcvr packets' swapping on Call statistics screen.
- CSCvt02503 Phone no longer plays recording tone after a few calls.
- CSCvm69293 Network configuration info not displayed on current wlan profile.
- CSCvm74978 8821 phone sometimes couldn't receive the EAP identity request on 2.4G JFW test bed.
- CSCvn81608 Java process sometimes has significant delay in receiving events from wlanmgr after OOR & In Range.
- CSCvm66028 Phone will eventually loose WiFi when roaming between 2 AP's set at 80MHz/40MHz.
- CSCvh47665 No Secure tone played on protected phones while enable speaker.
- CSCvj88754 Failed to Log Out from personal directory.
- CSCwc34664 8821 QED should be updated to include support for 3072/4096 bit keys.
- CSCwc63067 8821 encounters audio issue due not receiving WWMM Parameter IE into beacon frames from 3rd party AP.

Resolved Bugs

The following list contains a snapshot of the severity 1, 2, and 3 bugs that were resolved at the time of the Cisco Wireless IP Phone 8821 and 8821-EX Firmware Release 11.0(6)SR4.

For an updated view of resolved bugs or to view more information about specific bugs, access the Bug Search Tool as described in: [View Bugs](#)

- CSCvx62510 Cisco IP Phone Cisco Discovery Protocol Out-of-Bound Read Vulnerability.
- CSCvy39058 Cisco IP Phones Information Disclosure Vulnerability.
- CSCwa32886 Unable to push a new SSID and PSK via Wireless Device Profiles on CP-8821.
- CSCwa43522 After changing the WLAN Profile Group on an 8821, the new additional WLAN Profiles are disabled.

Cisco Unified Communication Manager Public Keys

To improve software integrity protection, public keys are used to sign cop files for Cisco Unified Communications Manager Release 10.0.1 and later. These cop files have “k3 or k4” in their name. To install a k3 or k4 cop file on a pre-10.0.1 Cisco Unified Communications Manager, consult the Readme for the `cisco.com.version3-keys.cop.sgn` to determine if you must install this additional cop file 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 the [Software Download](#) page, 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.

Cisco IP Phone Firmware Support Policy

For information on the support policy for phones, see the [Cisco IP Phone Firmware Support Policy](#).

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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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