



Cisco Wireless IP Phone 8821 Release Notes for Firmware Release 11.0(4)SR3

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These release notes support the Cisco Wireless IP Phone 8821 Firmware Release 11.0(4)SR3.

The following table describes the systems and versions that the phone requires.

System	Minimum Version	Recommended Versions
Cisco Unified Communications Manager	9.1(2)	10.5(2), 11.0(1), 11.5(1), and later
Cisco Unified Communications Manager Express	10.5 through Fast Track	11.0, 11.5, 11.7 (native support), and later
Cisco Unified Survivable Remote Site Telephony	10.5	11.0, 11.5, 11.7, and later
Cisco Wireless LAN Controller	8.0.121.0	8.0.152.0, 8.2.170.0, 8.3.143.0, 8.5.140.0, 8.8.111.0
Cisco IOS Access Points (Autonomous)	12.4(21a)JY	12.4(25d)JA2, 15.2(4)JB6, 15.3(3)JF1
Cisco Meraki	MR 25.9, MX 13.33	MR 25.11, MX 13.33

New and Changed Features

This release contains no new or changed features.

Related Documentation

Use the following sections to obtain related information.

Cisco Wireless IP Phone 882x 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/support/collaboration-endpoints/unified-ip-phone-8800-series/tsd-products-support-series-home.html>

The Deployment Guide is located at the following URL:

<https://www.cisco.com/c/en/us/support/collaboration-endpoints/unified-ip-phone-8800-series/products-implementation-design-guides-list.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>

Cisco Unified Communications Manager Express Documentation

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

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

Installation

Installation Requirements

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



Note If your Cisco Unified Communications Manager does not have the required device pack to support this firmware release, the firmware may not work correctly.

For information on the Cisco Unified Communications Manager Device Packs, see http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucm/compat/devpack_comp_mtx.html.

Install Firmware Release 11.0(4)SR3 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.

Procedure

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- Step 1** Go to the following URL:
<http://software.cisco.com/download/navigator.html?mdfid=284883944&i=rm>
 - Step 2** Choose **Cisco IP Phone 8800 Series**.
 - Step 3** Choose **Cisco Wireless IP Phone 8821**.
 - Step 4** Choose **Session Initiation Protocol (SIP) Software**.
 - Step 5** In the Latest Releases folder, choose **11.0(4)SR3**.

- Step 6** Select the firmware file, click the **Download** or **Add to cart** button, and follow the prompts.
Firmware file: cmterm-8821-sip.11-0-4SR3-3.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** 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.
- Step 8** Follow the instructions in the readme file to install the firmware.

Install Firmware Release 11.0(4)SR3 on Cisco Communications Manager Express

You must download the Cisco Wireless IP Phone 8821 firmware image file from the software download center.

For information on Cisco Unified Communications Manager Express support, see http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucme/feature/phone_feature/phone_feature_support_guide.html.

For more information about this procedure, refer to the “Install and Upgrade Cisco Unified CME Software” chapter in the *Cisco Unified Communications Manager Express System Administrator Guide* at this URL:

http://www.cisco.com/c/en/us/td/docs/voice_ip_comm/cucme/admin/configuration/manual/cmeadm.html

Procedure

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- Step 1** To access the firmware files, go to this URL:
<https://software.cisco.com/download/navigator.html?mdfid=284729655&flowid=75283>
- Step 2** Choose **Cisco Wireless IP Phone 8821**.
- Step 3** Choose **Session Initiation Protocol (SIP) Software**.
- Step 4** Choose **11.0(4)SR3** in the Latest Releases folder.
- Step 5** Click **Download** or **Add to cart** and follow the prompts.
The file to download is cmterm-8821.11-0-4SR3-3.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

Anything that degrades network performance can affect phone voice 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.

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.

The CUCM device packs (October 2017 and later) have the default set to 20.

For more information, look at CSCvc14605 using <https://tools.cisco.com/bugsearch>.

Caveats

View Caveats

You can search for caveats using the Cisco Bug Search tool.

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=&pf=prdNm&pfVal=286308995&rls=11.0%284%29SR3&sb=anfr&bt=custV>
 - Use this URL for all open caveats:
<https://bst.cloudapps.cisco.com/bugsearch/search?kw=&pf=prdNm&pfVal=286308995&rls=11.0%284%29SR3&sb=af&bt=custV>
 - Use this URL for all resolved caveats:
<https://bst.cloudapps.cisco.com/bugsearch/search?kw=&pf=prdNm&pfVal=286308995&rls=11.0%284%29SR3&sb=fr&bt=custV>
- 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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Resolved Caveats

The following list contains the severity 1, 2, and 3 defects that are resolved for the Cisco Wireless IP Phone 8821 that use Firmware Release 11.0(4)SR3.

For more information about an individual defect, you can access the online record for the defect from the Bug Search Toolkit. 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 resolved at the time this report was compiled. For an updated view of resolved defects or to view specific bugs, access the Bug Search Toolkit as described in [View Caveats, on page 4](#).

- CSCvm91129 WLAN power mode not correct when making calls via XSI
- CSCvn04670 To define/implement new status message for 8821 battery drain to power off
- CSCvn04676 8821: Misleading unregistration reason code when 8821 is manually powered off
- CSCvn18664 Unlock SoftKey Disappear On Phone Screen
- CSCvn24025 Idle URL triggered when menu is open
- CSCvn59042 8821 call disconnects when when we receive XML query to change the display in off hook mode
- CSCvn60087 8821 URL format on CiscoIPPhoneMenu object request
- CSCvn64558 8821 Menu item Name with carriage return does not display correctly

Open Caveats

The following list contains the severity 1, 2, and 3 defects that are open for the Cisco Wireless IP Phone 8821 that use Firmware Release 11.0(4)SR3.

For more information about an individual defect, you can access the online record for the defect from the Bug Search Toolkit. 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 or to view specific bugs, access the Bug Search Toolkit as described in [View Caveats, on page 4](#).

- CSCuw10789 Configuration: RTP/sRTP Port Range Configuration
- CSCvd72816 RSSI value for connected AP is slow to update when phone is in Single AP mode
- CSCvg59066 Speed Dial & BLF SD are not working when on call
- CSCvh15285 DNS info got lost after phone power off/on when DHCP in off status
- CSCvh27418 Transfer soft key shall be grey before C answer while semi-transfer is disabled
- CSCvh27809 Focus and soft key error while press up-down hard key during conference
- CSCvh31648 Call should be disconnected while BT headset out of range for more than 30 seconds
- CSCvh38919 8821: Speaker fail to ring when insert headset
- CSCvh47665 No Secure tone played on protected phones while enable speaker
- CSCvh50578 Pressing red button can not cancel new call when PTT is opened

- CSCvh50994 No error toast prompts while cBarge failed due to maximum participants has been reached
- CSCvh74215 No \"CAL Text#\" logo displayed in incoming call toast & call details
- CSCvh89574 Pressing Green button to make a call - missing in PD/CD & Line View
- CSCvh99185 WLAN diags AP details only shows channels 36-48
- CSCvi16796 Phone does not use the configured SIP phone port to register with CUCM
- CSCvi24947 Display will not off while phone has one-way incoming intercom call
- CSCvi66235 PB: When configuring a Favorite, middle button can dial number by mistake when in Contact details
- CSCvi66773 PB: Pressing green button should not bring up call view when highlight on Unassigned
- CSCvi68937 8821 advertises dongle MAC instead of phone MAC via CDP
- CSCvi78358 8821 can't save debug command after reset or power-cycle
- CSCvi80433 Phone doesn't process the EAP request frame, causing de-registration
- CSCvj02218 Park resume is greyed out in 8821 registered in CME
- CSCvj07546 Phone de-registered due to re-IP during overnight testing
- CSCvj23342 Call could be dropped when OOR more than 1 minute
- CSCvj31950 Intermittent \"Device or resource busy\" can still happen
- CSCvj42007 DUT don't vibrate sometimes when pickup call with DND enable
- CSCvj43956 New call soft key not work while focus on BLF speed dial
- CSCvj44014 Back from intercom call details, phone's UI turn to blank
- CSCvj45498 Ringer shouldn't play thru headset in Australia network locale when inserting headset during ringing
- CSCvj46981 \"Battery charging\" toast not display when power charging with USB cable.
- CSCvj47001 Ringer for incoming call switches to headset after docked when ringer output is set to speaker
- CSCvj53208 White screen flash while charging powered off phone
- CSCvj54504 Blank call view after end the call on one line and then resume call on another line
- CSCvj54731 Should delay ringer output for 4 sec if 2nd call comes in immediately after 1st call is ended
- CSCvj55168 ip can be pinged after dhcp address released through \"wifi interface\"
- CSCvj55253 Can't move focus to other lines with nav-button when phone is in dialing.
- CSCvj64735 Voicemail icon shows on the second line and intercom line even there is only vm on first line
- CSCvj70382 Back to use correct username from wrong one, phone failed to connect to Auto AP with EAP-FAST
- CSCvj75229 Phone does not re-connect to first WLAN profile after disable/enable

- CSCvj84131 Decline not work on the line not configured to VM, when another line configured to VM
- CSCvj88754 Failed to Log Out from personal directory
- CSCvj94399 Sometimes(90%) ringer is very small in hold reversion state when ringer volume is maximized
- CSCvj94952 On Phone's LCD, the DN has not been changed after access hCluster successfully with EMCC method
- CSCvj96861 Application Button still works when DUT is not idle Although button priority is low
- CSCvk03109 When DNR is enabled and a higher priority MLPP call comes in, the ringer is not played on the phone.
- CSCvk09649 Incoming call will be auto answered when connect bluetooth headset to phone and hold the first call.
- CSCvk21292 8821 sipcc keep holding wakelock in OOR
- CSCvk22665 8821 display comes on sometimes when on call with shared line
- CSCvk25979 Phone eventually not able to receive auth response
- CSCvk30176 No response while press conf soft key after merge all on secured SRST
- CSCvk33875 Screenpng does not work when 8821 is sleeping
- CSCvk59324 CCKM roaming failure then call dropped on roaming stress test bed
- CSCvk65315 Download application multiple times when press the application button
- CSCvm04637 Continuous scan busy is reproducible on Conducted test bed
- CSCvm05950 Phone stuck at black screen during stress test
- CSCvm16421 EAP authentication triggered by wpa_suppllicant got interrupted and causing de-registration
- CSCvm23580 8821 dhcp exit and reboot after switching wlan profiles
- CSCvm40695 4-way handshake got interrupted by reassoc request thereby causing de-registration
- CSCvm46026 8821 : Java crash and connectivity lost
- CSCvm47856 Multiple Vulnerabilities in linux
- CSCvm50336 CIAM alerts of Linux/Linux for cygnus: CVE-2018-1130, CVE-2018-11506, CVE-2018-11508
- CSCvm50340 CIAM alerts of Linux/Linux for cygnus for all phone models
- CSCvm50348 Multiple Vulnerabilities in linux, port CSCvk55910 to 8821
- CSCvm50349 Multiple Vulnerabilities in linux, port CSCvm11633 to 8821
- CSCvm50527 Linux Kernel Kerberos RxRPC Ticket Decoding Local Privilege Escalati ...
- CSCvm55729 Phone can't associate to AP after inter-profile roaming, enable new profile after OOR
- CSCvm58866 4-way handshake failure due to invalid MIC in M2
- CSCvm58907 Firmware sometimes couldn't complete the fresh association

- CSCvm59233 cURL and libcurl NTLM Password Buffer Overflow Vulnerability (CVE-2018-14618)
- CSCvm60777 Linux Kernel alarm_timer_nsleep() Function Integer Overflow Vulnerability (CVE-2018-13053)
- CSCvm66028 Phone will eventually loose WiFi when roaming between 2 AP's set at 80MHz/40MHz
- CSCvm69293 Network configuration info not displayed on current wlan profile
- CSCvm69529 CDP shows previous IP for WLAN interface via CDP instead of wired USB dongle interface when docked
- CSCvm70501 8821 should not download WLAN config file from hCluster after EMCC login
- CSCvm74978 8821 phone sometimes couldn't receive the EAP identity request on 2.4G JFW test bed.
- CSCvm75535 Phone will not connect to 2.4GHz enabled WiFi profile from a 5GHz enabled WiFi profile vice versa
- CSCvm85526 Phone crashed when DHCP option 66 field configured with MaxLength
- CSCvm87368 Phone can't get ip address when DHCP option 150 field configured with MaxLength
- CSCvm87461 Call drop automatically after blowing into the Cisco 521/522 headset for 3-5 times during call
- CSCvm91396 No beep tone for hold revert while the other line in RIU status
- CSCvm91475 Can't answer incoming call for a while when hold reversion is 20s with about 20 call sessions
- CSCvm92798 Multiple Vulnerabilities in linux
- CSCvm92833 Linux Kernel MIDI Driver Local Privilege Escalation Vulnerability (CVE-2018-10902)
- CSCvm94269 DTIM period in WLAN Diags shows as 3 sometimes
- CSCvm95451 XMLSoft libxml2 xmlXPathCompOpEval() Function NULL Pointer Dereference Vulnerability (CVE-2018-14404)
- CSCvm95611 XML message does not display on lock screen if http url priority is 1 or 2
- CSCvm98027 GreenKey failed to work when setting phone to offhook dialing mode
- CSCvm99207 BusyBox huft_build Function Denial of Service Vulnerability (CVE-2015-9261)
- CSCvm99883 "Feature is unavailable" pops up on recipient phone UI on CME
- CSCvn35581 Multiple Vulnerabilities in openssl, part 2
- CSCvn37282 8821 phone freezes after receiving XSI msgs using priority 1
- CSCvn38253 "MIC mismatch" is seen in WLC log when 8821 fast roaming with 2802/3802 AP
- CSCvn41362 cp8821i/4šno "CAL Text#" displayed in "incoming call toast"
- CSCvn43154 No "details" softkey in multi-leg call history
- CSCvn49489 wpa_supplicant EAPOL-Key Messages Information Disclosure Vulnerability
- CSCvn60806 8821 phone Incoming Call Toast not display when ringing and phone screen keeps dark

- CSCvn63436 Linux Kernel ALSA Driver Local Use-After-Free Vulnerability (CVE-2018-19824)
- CSCvn67226 Qt BMP Image Handler Remote Denial of Service Vulnerability
- CSCvn71400 Pressing Green key should not answer two incoming calls at the same time
- CSCvn78117 Move the connected BT headset OOR, audio path will be switched to phone's headset within 10s
- CSCvn78225 Multiple Vulnerabilities in linux
- CSCvn81608 Java process sometimes has significant delay in receiving events from wlanmgr after OOR & In Range
- CSCvn81758 No ring for hold reversion after disconnecting another active call
- CSCvn97100 Pressing green button can not dial out speed dial on line view
- CSCvo03077 Conference call still in held mode when all the other parties ended the call
- CSCvo08243 Trolltech Qt QBmpHandler BMP File Buffer Overflow Vulnerability (CVE-2018-19873)
- CSCvo14601 Redial via press green key twice does not work when using off hook dialing
- CSCvo30508 Softkey options shouldn't be shown in line missed calls page if blank
- CSCvo32268 Ring plays thru headset if inserting headset during ringing while on dock & ringer output is Speaker
- CSCvo32469 Could not disable WLAN profile 2
- CSCvo32881 Both speaker icon displayed when setting auto answer with speaker on shared line
- CSCvo34735 No toast prompted for invalid RTP port range
- CSCvo40605 Softkey associated with two-digit numbers can not be accessed by pressing the index number
- CSCvo43854 Multiple Vulnerabilities in libxml2
- CSCvo44285 Multiple Vulnerabilities in qt
- CSCvo44358 No voicemail LED indicator for non-primary line
- CSCvo44367 Multiple Vulnerabilities in busybox
- CSCvo45817 Multiple Vulnerabilities in curl
- CSCvo47495 Linux Kernel USB Subsystem Data Size Checks Handling Vulnerability (CVE-2018-20169)
- CSCvo48068 Favorites highlight shifted when access by pressing index # if contact /w long name is assigned

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 `cisco.cm.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.

Cisco IP Phone Firmware Support Policy

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

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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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