



Cisco Unified IP Phone 6901 and 6911 Release Notes for Firmware Release 9.2(1) (SCCP and SIP)

Published: May 24, 2011

The information in this release note applies to the Cisco Unified IP Phone 6901 and 6911.

Use these release notes with Cisco Unified IP Phone 6901 and 6911 running firmware release 9.2(1). This version of firmware is compatible with Cisco Unified Communications Manager 7.1(3) and later.

Contents

These release notes provide the following information. You might need to notify your users about some of the information provided in this document.

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Related Documentation

Cisco Unified IP Phone 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/en/US/products/ps10326/tsd_products_support_series_home.html

Cisco Unified Communications Manager Documentation

Refer to the Cisco Unified Communications Manager Documentation Guide and other publications specific to your Cisco Unified Communications Manager release. Navigate from the following URL:

http://www.cisco.com/en/US/products/sw/voicesw/ps556/tsd_products_support_series_home.html



Americas Headquarters:

Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

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Cisco Unified Communications Manager Business Edition Documentation

Refer to the Cisco Unified Communications Manager Business Edition Documentation Guide and other publications that are specific to your Cisco Unified Communications Manager release. Navigate from the following URL:

http://www.cisco.com/en/US/products/ps7273/tsd_products_support_series_home.html

Cisco Unified Communications Manager Express Documentation

Refer to the Cisco Unified Communications Manager Express Documentation Guide and other publications specific to your Cisco Unified Communications Manager Express release. Navigate from the following URL:

http://www.cisco.com/en/US/products/sw/voicesw/ps4625/tsd_products_support_series_home.html

New and Changed Information

This section contains the following topics:

- [CME Version Negotiation, page 2](#)
- [EnergyWise, page 2](#)
- [IPv6 Support, page 3](#)
- [SSH Access, page 3](#)
- [UCR 2008 Support, page 4](#)

CME Version Negotiation

The Cisco Unified Communications Manager Express (Unified CME) Version Negotiation feature supports a SIS version in the supported tag. The Cisco Unified IP Phones use the supported tag to interact with Cisco Unified Communications Manager Express and its supported SIS version.

The following phone models support the CME Version Negotiation:

- Cisco Unified IP Phone 6901 (SIP only)
- Cisco Unified IP Phone 6911 (SIP only)

EnergyWise

Cisco EnergyWise program promotes company-wide sustainability by monitoring, reporting, and reducing energy consumption across an entire corporate infrastructure. In the Cisco Unified IP Phone firmware, the EnergyWise feature allows phones to participate in an EnergyWise-enabled system. The phones can report power usage to the EnergyWise domain to allow the tracking and control of power within the customer premise.

In the Cisco Unified IP Phones, the EnergyWise feature enables the phone to sleep (power down) and wake (power up). A sleeping phone reduces energy consumption, typically into the 0 to 1 watt range. The administrator sets a working schedule of days, power up times, and power down times for each phone. At the scheduled power down time, the phone automatically powers down, and at the scheduled power up time, the phone automatically powers up.

The following Cisco Unified IP Phones (SCCP and SIP) support EnergyWise in this release:

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

Cisco IOS support

In order for the phones to receive the power down and power up messages, the switch must also support the EnergyWise feature. The following table shows the versions of the Cisco switches that support EnergyWise.

Network Device	Cisco IOS release	EnergyWise Phase	EnergyWise Engineering Version	EnergyWise capable phone support
Cisco Catalyst 2000/3000 Series Switches	12.2 (50) SE	1.0	0.6n	No
	12.2 (52) SE	2.0	(rel2)	No
	12.2 (53) SE	2.0	(rel2_25)	No
	12.2 (53) SE1	2.0	(rel2_5)	No
	12.2 (53) SE2	2.0	(rel2_5)	No
	12.2 (55) SE	2.0	(rel2_6)	No
	12.2 (58) SE	2.5	(rel2_7)	Yes
Cisco Catalyst 4500 and 4900 Series Switches	15.0(2) SG	2.0	(rel2_6)	Yes
	3.2.0 SG	2.0	(rel2_6)	Yes
Cisco Catalyst 6000 Series Switches	12.2(33) SXI4	2.0	(rel2)	No
	12.2(33) SXJ	2.0	(rel2_6)	Yes

Limitations

For EnergyWise support, the Cisco Unified CM release 7.1, 8.0 and 8.5 require device pack installation. The EnergyWise is included in Cisco Unified CM release 8.6.

IPv6 Support

The Internet Protocol version 6 (IPv6) is an updated version of the current Internet Protocol, IPv4. IPv6 uses a 128-bit address and provides end-to-end security capabilities, enhanced Quality of Service (QoS), and increased number of available IP addresses. Cisco Unified IP Phones support the use of IPv6 only with the Skinny Call Control Protocol (SCCP).

This feature is supported on the following Cisco Unified IP Phones (SCCP):

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

SSH Access

The SSH Access settings option allows the administrator to enable or disable the SSH port on the phone using Cisco Unified CM Administration. When enabled, it allows the phone to accept the SSH connections. Disabling the SSH server functionality of the phone blocks the SSH access to the phone. This setting is disabled by default.

This feature is supported on the following Cisco Unified IP Phones (SCCP and SIP):

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

Limitations

For phones with SSH access, the Cisco Unified CM release 7.1, 8.0 and 8.5 require device pack installation. The SSH access is included in Cisco Unified CM release 8.6.

UCR 2008 Support

The Unified Capabilities Requirements (UCR) 2008 feature provides the following functions:

- Support for Federal Information Processing Standard (FIPS) 104-2 Level—The phone requires the following functions:
 - Power On Self Testing—to ensure that the appropriate encryption algorithms are available. If the phone does not have the correct modules in the firmware, the phone will fail to boot.
 - Cisco Unified Communications Manager to be set up for FIPS compliance (for example, disabling 802.1x EAP-MD5).
- Support of IPv4 and IPv6 addressing
- Support of 80-bit SRTCP Tagging—The phone handles both 32-bit and 80-bit SRTCP tags.
- DSCP tagging for network management traffic
- Multilevel Precedence and Preemption (MLPP)—When placing a call, users can select a precedence level and have the call preempt an existing call of a lower priority.

The UCR 2008 feature is supported on the following Cisco Unified IP Phones (SCCP):

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

Limitations

For UCR 2008 support, the Cisco Unified CM release 7.1, 8.0 and 8.5 require device pack installation. The UCR 2008 is included in Cisco Unified CM release 8.6.

Installation Notes

This section contains these sections:

- [Installation Upgrade Notes, page 5](#)
- [Installing Cisco Unified Communications Manager, page 5](#)
- [Installing Cisco Unified Communications Manager Express, page 5](#)
- [Installing Firmware Release 9.2\(1\) for SCCP, page 6](#)
- [Installing Firmware Release 9.2\(1\) for SIP, page 6](#)

Installation Upgrade Notes

Direct upgrades, using load files, are supported to firmware release 9.2(1). You can use the following firmware release file for these direct upgrades:

cmterm-6901_6911-sccp.9-2-1-a.cop.sgn

cmterm-6901_6911-sip.9-2-1-0.cop.sgn

**Note**

A direct upgrade from firmware release SCCP 9.0(2) to 9.2(1) SCCP or SIP is supported, and conversion between firmware release SCCP and SIP is also supported.

Installing Cisco Unified Communications Manager

Before using the Cisco Unified IP Phone with Cisco Unified Communications Manager, you must install the latest firmware on all Cisco Unified Communications Manager servers in the cluster.

To download and install the Cisco Unified Communications Manager version, follow these steps:

Procedure

-
- Step 1** Go to the following URL:
<http://tools.cisco.com/support/downloads/pub/Redirect.x?mdfid=278875240>
- Step 2** Log in to the **Products > Voice and Unified Communications > IP Telephony**.
- Step 3** Choose **Call Control > Cisco Unified Communications Manager (CallManager)**.
- Step 4** Choose your Cisco Unified Communications Manager version.
-

Installing Cisco Unified Communications Manager Express

To download and install the Cisco Unified Communications Manager Express version, follow these steps:


Procedure

-
- Step 1** Go to the following URL:
<http://tools.cisco.com/support/downloads/pub/Redirect.x?mdfid=278875240>
- Step 2** Log in to the **Products > Voice and Unified Communications > IP Telephony**.
- Step 3** Choose **Call Control > Cisco Unified Communications Manager Express**.
- Step 4** Choose your Cisco Unified Communications Manager Express version from the *Select a File to Download* section.
-

Installing Firmware Release 9.2(1) for SCCP

To download and install the phone firmware, follow these steps:

Procedure

-
- Step 1** Go to the following URL:
<http://tools.cisco.com/support/downloads/go/Redirect.x?mdfid=278875240>
- Step 2** Log in to the **Products > Voice and Unified Communications > IP Telephony > IP Phones > Cisco Unified IP Phone 6900 Series**.
- Step 3** Choose your phone type.
- Step 4** Choose **Skiny Client Control Protocol (SCCP) Software**.
- Step 5** Choose **9.2(1)** under the **Latest Releases** folder.
- Step 6** To download the SCCP firmware for the Cisco Unified IP Phone, choose one of the following firmware releases. Click the **Download Now** or **Add to cart** button and follow the prompts:
- **cmterm-6901_6911-sccp.9-2-1-a.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 files is in the Additional Information section, which contains installation instructions for the corresponding firmware:
- **cmterm-6901_6911-sccp.9-2-1-a-readme.html**
- Step 8** Follow the instructions in the Readme file to install the firmware.
-

Installing Firmware Release 9.2(1) for SIP

To download and install the phone firmware, follow these steps:

Procedure

-
- Step 1** Go to the following URL:
<http://tools.cisco.com/support/downloads/go/Redirect.x?mdfid=278875240>
- Step 2** Log in to the **Products > Voice and Unified Communications > IP Telephony > IP Phones > Cisco Unified IP Phone 6900 Series**.
- Step 3** Choose your phone type.
- Step 4** Choose **Session Initiation Protocol (SIP) Software**.
- Step 5** Choose **9.2(1)** under the **Latest Releases** folder.
- Step 6** To download the SIP firmware for the Cisco Unified IP Phone, choose one of the following firmware releases. Click the **Download Now** or **Add to cart** button and follow the prompts:

- **cmterm-6901_6911-sip.9-2-1-0.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 files is in the Additional Information section, which contains installation instructions for the corresponding firmware:

- **cmterm-6901_6911-sip.9-2-1-0-readme.html**

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

Caveats

This section contains these topics:

- [Using Bug Toolkit, page 7](#)
- [Open Caveats, page 8](#)
- [Resolved Caveats, page 8](#)

Using Bug Toolkit

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

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

You can search for problems by using the Cisco Software Bug Toolkit.

To access Bug Toolkit, you need the following items:

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

To use the Software Bug Toolkit, follow these steps:

Procedure

-
- Step 1** To access the Bug Toolkit, go to <http://tools.cisco.com/Support/BugToolKit/action.do?hdnAction=searchBugs>.
- Step 2** Log on 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 bug ID” field, then click **Go**.
-

Open Caveats

There are no open caveats for firmware release 9.2(1).

Resolved Caveats

Table 1 lists Severity 1, 2 and 3 defects that are resolved for the Cisco Unified IP Phone using firmware release 9.2(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 shown. You must be a registered Cisco.com user to access this online information.

Because defect status continually changes, be aware that Table 1 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 the “Using Bug Toolkit” section on page 7.

Table 1 Resolved Caveats for the Cisco Unified IP Phone for Firmware Release 9.2(1)

Identifier	Headline
CSCtn59279	The Cisco Unified IP Phones 6901 and 6911 certificate Subject CN should match EAP-TLS identity case
CSCtl08991	The Cisco Unified IP Phone 6911 does not respond to EAP-TLS fragments

Obtaining Documentation and Submitting a Service Request

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/en/US/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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