



System Release Notes for IP Telephony: Cisco Unified Communications System Release 8.6(1)

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Overview

As part of its standard methodology Cisco Systems performs system-wide testing of the Cisco Unified Communications family of products to supplement the product-level testing performed on each Cisco Unified Communications product.

A major deliverable of the System Release and Cisco Unified Communications System testing is a recommendation of compatible software releases that have been verified by the testing teams. The recommendations are not exclusive and are in addition to interoperability recommendations for each of the individual voice application or voice infrastructure products.

For information about component software releases for Cisco Unified Communications System Release 8.6(1), see [System Requirements, page 17](#). Software compatibility data for all Cisco Unified Communications System releases, as well as updated compatibility information for this release, is available from the Cisco Unified Communications Compatibility Tool at: <http://tools.cisco.com/ITDIT/vtgsca>

This document focuses on the IP telephony components of Cisco Unified Communications system testing. Information about contact center components that were tested for Cisco Unified Communications System is available at: <http://cisco.com/go/unified-techinfo>

This document provides release notes for the testing conducted on systems including the following types of components:

- Call control components, such as Cisco Unified Communications Manager, Cisco Unified Communications Manager Business Edition, Cisco Unified Communications Manager Express, Cisco Intercompany Media Engine, and Cisco Unified Presence
- Voice applications, such as Cisco Emergency Responder
- Conferencing components, such as Cisco Unified MeetingPlace, and Cisco Unified Videoconferencing
- Voice mail and unified messaging components, such as Cisco Unity and Cisco Unity Express
- Endpoints and clients, such as Cisco Unified IP Phones 6900, 7900, 8900, and 9900 Series, Cisco Unified Personal Communicator, and Cisco UC Integration™ for Microsoft Lync and Cisco Unified Communications for RTX (UC for RTX)
- Security devices, such as Cisco ASA 5500 Series Adaptive Security Appliances
- Network management tools, such as Cisco Unified Operations Manager, Cisco Unified Service Statistics Manager, and Cisco Unified Service Monitor
- Communications infrastructure devices, such as Cisco routers, gateways/gatekeepers, and switches

**Note**

For a more complete list of IP telephony components that are included in a Unified Communications System Release 8.6(1), see [Software Version Matrix, page 20](#).

Tested Functionality

This section covers the following areas of system-wide testing for IP telephony:

- [Feature Testing](#)
- [Deployment Models](#)
- [Upgrade Paths](#)
- [Upgraded components](#)

Feature Testing

The system-wide testing of IP telephony functionality for Cisco Unified Communications System Release 8.6(1) included the following features:

- Cisco Unified Communications Manager
- Cisco Unified Communications Manager Business Edition 3000
 - PSTN local break-out in central site & remote sites with Logical Partitioning
 - E1 PSTN signaling interface
 - Emergency calling
 - In-built Voicemail/Auto Attendant services
 - Supplementary features, MoH and Extension Mobility
- Unified Communications Manager on Cisco Unified Computing System Express
 - Cisco Service Ready Engine module (SRE 910) on Cisco Integrated Services Routers Generation 2 (ISR G2)
- Cisco Unified IP Phones model 8941 and 8945
- Mobility
 - Cisco Android Mobility client call processing features including transfer and conference.
 - Cisco Nokia Mobility client call processing features including Presence, Instant Messaging, DVO forward, and DVO backward.
- Video
 - SIP adhoc conference bridge support using Cisco TelePresence MCU
 - Skinny adhoc/meetme conference bridge support using high density PVDM3 modules on Cisco Integrated Services Routers Generation 2 (ISR G2)
 - Cisco TelePresence Video Communication Server and Expressway
 - Cisco IP Video Phone E20, Cisco Telepresence EX90, Cisco Telepresence 1700 MXP registered to Cisco Telepresence Video Communications Server
 - Cisco IP Video Phone E20, Cisco Telepresence EX90, Cisco Telepresence 1700 MXP registered to Cisco Unified Communications Manager
 - Cisco Telepresence 6000MXP
 - Remote teleworker video endpoints registration to Cisco VCS Expressway and interop calls (point to point and multipoint) from remote teleworker video endpoint (can be MOVi, E20, Ex90) to HQ video phones

- Interop with CUCM registered video endpoints such as 9971, CUPC, and CSF clients with VCS registered endpoints over SIP trunk
- Presentation share using BFCP with EX90 on CUCM and VCS endpoints
- VCS endpoints interop with UC application such as, IPCC Contact Center, Unity Connection voicemail
- CTS interop with all UC endpoints, 9971, 7985, CUCIMOC, CUPC, E20, EX90, CIPC/CUVA registered to CUCM. All these features were tested in conjunction with CTS 1000/500/3000)
- CTS Interop with E20, Ex90, C20, MOVi registered to VCS
- Adhoc conference interop with Cisco Telepresence MCU. (CTS added to conference)
- Interop with TP 7010
- Interop with third party endpoints: polycom 4000 / lifesize 220
- SIP/H323/ SAF inter-cluster trunk calls
- CTS interop with UC application like CER IPCC-X and Unity Connection voicemail systems
- Interop with MXE and CTMS
- Interop with ISR G2 Conference Bridge
- Interop with Cisco Cius
- Cisco Unified Enterprise Attendant Console and Cisco Unified Business Attendant Console
- Cisco Unity Connection
- Cisco Unity Express
 - Secure messaging, and CSF clients using CUE as voicemail server
- VXC
 - NG-POE+ blade, Stand alone VXC, and Backpack to 9971 phone
 - Integration with CUCM and Wyse OS
- Cisco Unified Survivable Remote Site Voicemail
 - Auto Attendant test, failover of CUCM and CUE
- Cisco Cius
 - docked and mobile mode, testing as a video endpoint, testing as a secure endpoint
- Failover and redundancy testing of all major IP Telephony components
- Cisco 4451-X Integrated Services Router

Deployment Models

The system-wide testing of IP telephony functionality for Cisco Unified Communications System Release 8.6(1) included the following deployment models:

- Campus
- Multisite with Centralized Call Processing w/Remote Site Survivability (SRST Router)
- Multisite with Distributed Call Processing
- Unified CM Session Management Edition
- Cisco Intercompany Media Engine

- Clustering Over the IP WAN
- Unified Communications on Virtualized Servers
- Call Routing and Dial Plan Distribution Using Call Control Discovery for the Service Advertisement Framework

Upgrade Paths

The system-wide testing of IP telephony functionality for Cisco Unified Communications System Release 8.6(1) included the following upgrade paths:

- Single stage upgrade of IP telephony components from Cisco Unified Communications System Release 8.5(1) to Cisco Unified Communications System Release 8.6(1). For a list of the base Release 8.5(1) versions, see *System Release Notes for IP Telephony: Cisco Unified Communications System, Release 8.5(1)* at:
http://www.cisco.com/en/US/docs/voice_ip_comm/uc_system/UC8.5.1/release_notes/rnipt851.html
- Multistage upgrade of IP telephony components from Cisco Unified Communications System Release 7.1(3) to Cisco Unified Communications System Release 8.6(1). For a list of the base Release 7.1(3) versions, see the *System Release Notes for IP Telephony: Cisco Unified Communications System, Release 7.1(3)* at:
http://www.cisco.com/en/US/docs/voice_ip_comm/uc_system/UC7.1.3/release_notes/rnipt713.html
- Multistage upgrade of IP telephony components from Cisco Unified Communications System Release 6.1(1) to Cisco Unified Communications System Release 8.6(1). For a list of the base Release 6.1(1) versions, see the *System Release Notes for IP Telephony: Cisco Unified Communications System, Release 6.1(1)* at:
http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/rel_notes/6_1_1/cucm-rel_note-611.html

For a list of the target Cisco Unified Communications System Release 8.6(1) versions that the main components were upgraded to, see [Software Version Matrix, page 20](#).

For system upgrade procedures to Cisco Unified Communications System Release 8.6(1), see the *System Installation and Upgrade Manual for IP Telephony* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/uc_system/UC8.6.1/ipt_system_inst_upg/suimt861.pdf

Upgraded components

The following major components were upgraded:

- Unified Communications Manager to Release 8.6(1a)
- Cisco Unified Survivable Remote Site Telephony (SRST) to Release 8.6(1)
- Cisco Emergency Responder to Release 8.6(1)
- Cisco Unified Operations Manager to Release 8.6(1)
- Cisco IOS Mainline Release to Release 15.1(4)M1

New and Changed Features

Cisco Unified Communications System Release 8.6(1) integrates telephony, conferencing (voice and web), and messaging products for enterprise IP customers in a variety of deployment models using SIP and SCCP endpoints over IP networks. The end-to-end system release for enterprise Cisco Unified Communications is centered on the latest Unified Communications Manager release.

The following sections provide brief overviews of new and enhanced features for Cisco Unified Communications System Release 8.6(1) major components and links to release note documentation:

- [Cisco Unified Communications Manager](#)
- [Cisco Unified Communications Manager Business Edition 3000](#)
- [Cisco Unified Communications Manager Business Edition 5000](#)
- [Cisco Unified Communications Manager Business Edition 6000](#)
- [Cisco Services Ready Engine Virtualization](#)
- [Cisco Intercompany Media Engine](#)
- [Cisco Unified Contact Center Express](#)
- [Cisco Unified Presence](#)
- [Cisco Unified SIP Proxy](#)
- [Cisco Emergency Responder](#)
- [Cisco Unified Business/Department Attendant Console](#)
- [Cisco Unified Enterprise Attendant Console](#)
- [Cisco Unified MeetingPlace](#)
- [Cisco Unity](#)
- [Cisco Unity Connection](#)
- [Cisco Unity Express](#)
- [Cisco Unified Messaging Gateway and Survivable Remote Site Voicemail-Cisco Unity Express](#)
- [Cisco Virtual Desktop Integration](#)
- [Cisco Unified IP Phone Support](#)
- [Cisco Virtualization Experience Clients](#)
- [Cisco TelePresence](#)
- [Cisco Cius](#)
- [Cisco IP Communicator](#)
- [Cisco Unified Personal Communicator](#)
- [Cisco UC Integration™ for Microsoft Lync](#)
- [Cisco Adaptive Security Appliance](#)
- [Cisco Unified Operations Manager](#)
- [Cisco Unified Service Monitor](#)
- [Cisco Unified Service Statistics Manager](#)
- [Cisco Unified Provisioning Manager](#)
- [Unified Computing System C-Series Blade Servers \(Unified Communications Virtualization\)](#)

- [Cisco IOS Release 15.1\(4\)M1](#)
- [Cisco 4451-X Integrated Services Router](#)

Cisco Unified Communications Manager

Cisco Unified Communications Manager Release 8.6(1a) includes new features and changes to functionality in the following areas:

- Installation, upgrade, and migration
- Cisco Unified Communications Operating System
- Command line interface
- Cisco Unified Communications Manager administration
- Destination code control
- Security
- Cisco Unified IP Phones
- JTAPI Support
- Cisco Unified Serviceability
- Cisco Unified Real-Time Monitoring Tool

For detailed information about these changes, see *New and Changed Information for Cisco Unified Communications Manager Release 8.6(1)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/rel_notes/8_6_1/delta/delta.html

For more information about Release 8.6(1a), see *Release Notes for Cisco Unified Communications Manager Release 8.6(1a)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/rel_notes/8_6_1/cucm-rel_notes-861a.html

Cisco Unified Communications Manager Business Edition 3000

Cisco Unified Communications Manager Business Edition 3000 Release 8.6(1a), is the first release for Cisco Unified Communications Manager Business Edition 3000.

For information about features and functionality, see *Release Notes for Cisco Unified Communications Manager Business Edition 3000 Release 8.6(1)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cucmbe3k/8_6_1/release_notes/3krel_notes861.html#wp61663

Cisco Unified Communications Manager Business Edition 5000

For information about changes to Cisco Communications Manager Business Edition 5000 Release 8.6(1a), see *New and Changed Information for Cisco Unified Communications Manager Release 8.6(1)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/rel_notes/8_6_1/delta/delta.html

For information about features and functionality, see *Release Notes for Cisco Unified Communications Manager Business Edition 5000 Release 8.6(1)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cucmbe/rel_notes/8_6_1/861cucmbern.html

Cisco Unified Communications Manager Business Edition 6000

For information about changes to Cisco Communications Manager Business Edition 5000 Release 8.6(1a), see *New and Changed Information for Cisco Unified Communications Manager Release 8.6(1)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/rel_notes/8_6_1/delta/delta.html

For information about features and functionality, see *Release Notes for Cisco Unified Communications Manager Business Edition 6000 Release 8.6(1)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cucmbe/rel_notes/8_6_1/cucmbe6k-rel_notes-861.html

Cisco Services Ready Engine Virtualization

The Cisco Services Ready Engine Virtualization (Cisco SRE-V) product enables the VMware vSphere Hypervisor™ (ESXi) to be provisioned on a Cisco Services Ready Engine (SRE) Service Module, and to host one or multiple virtual machines running various guest operating systems. The entire system is integrated with Generation 2 of the Cisco Integrated Services Router (ISR G2).

For information about features and functionality, see *Release Notes for Cisco Services Ready Engine Virtualization 1.1* at:

http://www.cisco.com/en/US/docs/interfaces_modules/services_modules/sre_v/1.1/release/notes/sre_v_release.html

Cisco Intercompany Media Engine

Cisco Intercompany Media Engine Release 8.6(1) provides a technique for establishing direct IP connectivity between enterprises by combining peer-to-peer technologies with the existing public switched telephone network (PSTN) infrastructure.

For information about features and functionality, see *Release Notes for Cisco Intercompany Media Engine Release 8.6(1)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/ime/8_6_1/rel_notes/ime-rel_notes-861.pdf

Cisco Unified Contact Center Express

Cisco Unified Contact Center Express 8.5(1) SU1 includes the following new features and changes to functionality:

- Support for four instances of Unified CCX on C200
- Reporting enhancement for Outbound IVR feature
- New Port Monitoring Tool
- Enhanced agent password encryption

For information about features and functionality, see *Release Notes for Cisco Unified Contact Center Express Release 8.5(1) SU1* at:

http://www.cisco.com/en/US/products/sw/custcosw/ps1846/prod_release_notes_list.htm

Cisco Unified Presence

Cisco Unified Communications System Release 8.6(1) supports Cisco Unified Presence Release 8.5(1). This release version did not change from the previous Cisco Unified Communications System release.

For information about features and functionality, see *Release Notes for Cisco Unified Presence Release 8.5* at:

http://www.cisco.com/en/US/products/ps6837/prod_release_notes_list.html

Cisco Unified SIP Proxy

Cisco Unified SIP Proxy Release 8.5(2) includes the following new features and changes to functionality:

- Support for call admission control for server group elements.
- Performance control support to restrict the total calls-per-second that are processed.
- SIP message log to capture SIP messages sent and received.
- Failed call log to capture call record details for calls that do not terminate normally.
- Support for Simple Network Management Protocol (SNMP).

For information about features and functionality, see *Release Notes for Cisco Unified SIP Proxy Release 8.5* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cuspr/rel8_5/release_notes/cuspr85.html

Cisco Emergency Responder

Cisco Emergency Responder Release 8.6(1a) enhances the existing emergency 9-1-1 functionality offered by Cisco Unified Communications Manager. For information about features and functionality, see *Release Notes for Cisco Emergency Responder 8.6(1)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cer/8_6/english/release/notes/cer_86.html

Cisco Unified Business/Department Attendant Console

Cisco Unified Business/Departments Attendant Console 8.6(1) includes the following changes to functionality:

- Personal Directory Groups
- Wait Time Overflow (Cisco Unified Business Attendant Console only)
- Assign Attendants to Queues
- AND Searching
- Allow 1 Attendant per queue (Cisco Unified Department Attendant Console Only)
- Unicode Support enhancements to improve localization of data for the core 15 languages.
- Support for VMWare (ESXI-4 and 4.1). (See Note under Hardware/Software Supported in the System Requirements section for additional details)
- Support for JAWS 10, 11 and 12 accessibility software
- Support for Cisco Unified Presence 7.0, 8.0, 8.5 and 8.6
- Console client upgrade enhancement to retain user settings

- Device template enhancement to include or exclude call forwarding

For information about features and functionality, see *Release Notes for Cisco Unified Business/Department Attendant Console Release v8.6.1* at:

http://www.cisco.com/en/US/products/ps7282/prod_release_notes_list.html

Cisco Unified Enterprise Attendant Console

Cisco Unified Enterprise Attendant Console 8.6(1) includes the following changes to functionality:

- Personal Directory Groups
- Wait Time Overflow
- AND Searching
- Unicode Support enhancements to improve localization of data for the core 15 languages.
- Support for VMWare (ESXI-4 and 4.1). (See Note under Hardware/Software Supported in the System Requirements section for additional details)
- Windows 7 (32 bit and WoW64) support for the Attendant Console
- Support for JAWS 10, 11 and 12 accessibility software
- Support for CUP (Cisco Unified Presence) 7.0, 8.0, 8.5 and 8.6
- Console client upgrade enhancement to retain user settings
- Device template enhancement to include or exclude call forwarding

For information about features and functionality, see *Release Notes for Cisco Unified Enterprise Attendant Console Release v8.6.1* at:

http://www.cisco.com/en/US/products/ps7282/prod_release_notes_list.html

Cisco Unified MeetingPlace

Cisco Unified MeetingPlace 8.5 includes the following changes to functionality:

- Audio ports are no longer reserved. Meetings use ports as callers are added to the meeting, until all the ports are in use. Users no longer need to enter the number of ports when scheduling a meeting.
- Cisco Unified Communications Manager is no longer included with shipments of Cisco Unified MeetingPlace
- Features and functionality in MeetingPlace Conference Manager depend on deployment.

For information about features and functionality, see *Release Notes for Cisco Unified MeetingPlace Release 8.5* at:

http://www.cisco.com/en/US/products/sw/ps5664/ps5669/prod_release_notes_list.html

Cisco Unity

Cisco Unified Communications System Release 8.6(1) supports Cisco Unity Release 8.0(3). This release version did not change from the previous Cisco Unified Communications System release.

For information about features and functionality, see *Release Notes for Cisco Unity Release 8.0(3)* at: http://www.cisco.com/en/US/products/sw/voicesw/ps2237/prod_release_notes_list.html

Cisco Unity Connection

Cisco Unity Connection Release 8.6(1) includes the following new features and changes to functionality:

- Single Sign On feature support with Cisco Unity Connection 8.6 and later
- Support for Microsoft BPOS dedicated environments
- Support for SpeechView fully automated (standard)
- Cisco Unity Connection conversation enhancements
- Additional options available for footer information played after a message
- Option for outside callers to mark messages as private
- Option for users to remove prior introductions when forwarding the original message
- Option to automatically advance to next message after playing the after message menu
- Prompting users to record introductions when forwarding messages
- Warning users replying to All that the number of recipients exceeds maximum
- Cisco Security Agent replaced with Security-Enhanced Linux

For information about features and functionality, see *Release Notes for Cisco Unity Connection Releases 8.6(1) and 8.6(1a)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/connection/8x/release/notes/861cucrn.html

Cisco Unity Express

Cisco Unity Express Release 8.6(1) includes the following new features and changes to functionality:

- Additional hardware support
- New remote access features

For information about features and functionality, see *Release Notes for Cisco Unity Express 8.6* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/unity_exp/rel8_6/rel_notes/rel_notes86.html

Cisco Unified Messaging Gateway and Survivable Remote Site Voicemail-Cisco Unity Express

Cisco Unified MG Release 8.6 and Cisco Unified SRSV-CUE Release 8.6 includes the following new features and changes to functionality:

- Updated language support
- Automated Cisco UMG clustering and failover support
- Managed software upgrades for Cisco Unified SRSV-CUE devices
- Call Handler support enhancements
- Notification service support

- GUI enhancements
- SNMP support
- 1861 platform support

For information about features and functionality, see *Release Notes for Cisco Unified Messaging Gateway Release 8.6 and Cisco Unified SRSV-CUE Release 8.6*. at:

http://www.cisco.com/en/US/docs/voice_ip_comm/umg/rel8_6/release_notes/rn_umg_86.html

Cisco Virtual Desktop Integration

Cisco Virtual Desktop Integration Release 9.2(1) includes the following new features:

- Increased administrative control and data security
- A near-native end-user computing experience
- Easier the migration to newer desktop operating systems
- Control over desktop TCO

For information about Cisco Desktop Virtualization, go to:

<http://www.cisco.com/en/US/netsol/ns978/index.html#~overview>

Cisco Unified IP Phone Support

Cisco Unified IP Phones 6901, 6911, 6921, 6941, 6961, 6945, 9951, 9971, and 8961(SIP) run on SIP firmware release 9.2(1). SIP Firmware Release 9.2(1) includes the following new features and changes to functionality:

- EnergyWise
- Enhanced Call Forward notification
- Forced Authentication Code and Client Matter Code support
- Next Generation Power over Ethernet
- PLKs as SoftKeys
- SSH access
- Toast Timer
- Wide screen video enhancements

For a detailed description of SIP Firmware Release 9.2(1) features and functionality, see *Cisco Unified IP Phone 8961, 9951, and 9971 (SIP) Release Notes for Firmware Release 9.2(1)SR1* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cuipph/9971_9951_8961/firmware/9_2_1/release_notes/9900_8900_921.pdf

Cisco Virtualization Experience Clients

Cisco Virtualization Experience Clients run on SIP firmware release 9.2(1). For a detailed description of SIP Firmware Release 9.2(1) features and functionality, see *Cisco Virtualization Experience Clients Release Notes for Firmware Release 9.2(1)SR1* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cuipph/9971_9951_8961/firmware/9_2_1/release_notes/9900_8900_921.pdf

Cisco TelePresence

Cisco TelePresence includes the following new features and changes to functionality:

- Cisco TelePresence Video Communication Server (VCS): integrates telepresence, high-definition (HD), and standard-definition (SD) video conferencing users into the same video meeting. Provides call control that registers Cisco TelePresence video endpoints in SIP or H323 mode. For more information, go to: <http://www.cisco.com/en/US/products/ps11337/index.html>
- Cisco Telepresence Video Communications Server Expressway: facilitates telepresence and video communications outside the firewall. Processes both H323 and SIP messages. For more information, go to: <http://www.cisco.com/en/US/products/ps11337/index.html>
- Cisco TelePresence Server 7010: integrates as an SIP or H323 scheduled conference bridge with Cisco VCS. In addition to inbound calls, the server can place outbound calls to endpoints to add to the conference. For more information, go to: <http://www.cisco.com/en/US/products/ps11397/index.html>
- Cisco TelePresence MCU MSE Series: delivers chassis-based, multimedia conferencing bridges that support SIP and H.323 endpoints. Registers natively to Cisco Unified Communications Manager as video adhoc bridge. Endpoints are able to invoke the bridge on demand. For more information, go to: <http://www.cisco.com/en/US/products/ps11447/index.html>
- Cisco TelePresence ISDN Gateway: integrates IP and ISDN video networks with an ISDN gateway. Provides transparent communication with IP and ISDN video networks and devices, and with the Cisco VCS for call control and firewall traversal. For more information, go to: <http://www.cisco.com/en/US/products/ps11448/index.html>
- Cisco TelePresence EX90: provides full high-definition 24-inch screen with vivid, life-like 1080p30 video. Includes simple touch-screen control and one-touch sharing of high-definition (HD) content. For more information, go to: http://www.cisco.com/en/US/prod/collateral/ps7060/ps11303/ps11308/ps11327/data_sheet_c78-627494.html
- Cisco TelePresence System MXP Series: integrates multiple-party video calls using a Cisco TelePresence MCU and Cisco VCS. One-step PC plug-in facilitates simple, real-time, face-to-face collaboration from the desktop. For more information, go to: <http://www.cisco.com/en/US/products/ps11381/index.html>
- Cisco IP Video Phone E20: merges voice, video, and collaboration into a highly scalable solution suitable for enterprise mass deployment. For more information, go to: <http://www.cisco.com/en/US/products/ps11329/index.html>

Cisco Cius

Cisco Cius 8.6(1) includes the following new features:

- Transparent mobility
- Virtual desktop client for cloud computing
- High-definition video and Cisco TelePresence™ solution interoperability
- Anywhere access to Cisco collaboration applications
- Android Marketplace applications
- New contacts-driven interface that simplifies collaboration

For more information about Cisco Cius, go to:

http://www.cisco.com/en/US/products/ps11156/index.html?POSITION=SEM&COUNTRY_SITE=ca&CAMPAIGN=HN&CREATIVE=Cius&REFERRING_SITE=Google&KEYWORD=cisco+cius

Cisco IP Communicator

Cisco IP Communicator 8.6(1) is a Windows PC-based softphone application that lets you use your personal computer to make premium voice and video calls. For information about features and functionality, see *Release Notes for Cisco IP Communicator Release 8.6* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/cipc/8_5/english/release_notes/CIPC8x_RN.html

Cisco Unified Personal Communicator

Cisco Unified Personal Communicator Release 8.5(1) includes the following new features and changes to functionality:

- High Availability failover support for the chat and availability status features
- Ability to escalate to an ad-hoc Cisco WebEx meetings directly and seamlessly
- Support for 64-bit versions of Microsoft Office applications
- Ability to disable the Instant Messaging feature.
- Ability to disable the Availability Status feature.
- Ability to disable Instant Messaging History logging.
- Support for im:uri protocol handling.
- Enhanced integration with Microsoft Office applications
- Ability to run Cisco Unified Personal Communicator in the background as a desktop agent
- Support for video with desk phone for phone calls with 64-bit versions of Windows
- Provision for DHTML extensibility feature
- Enhanced user interface
- Support for single sign-on (SSO) for Cisco WebEx and Cisco Unified MeetingPlace meetings
- Other user experience enhancements

For information about these features and functionality, see *Release Notes for Cisco Unified Personal Communicator Release 8.5* at:

http://www.cisco.com/en/US/products/ps6844/prod_release_notes_list.html

Cisco UC Integration™ for Microsoft Lync

Cisco UC Integration™ for Microsoft Lync 8.5(2) includes the following new features and changes to functionality:

- Support for Enhanced Directory Integration (EDI).
- Support for video with desk phone for calls on 64-bit editions of Windows 7.
- Registry setting allows administrators to enable or disable video calls for individual users.
- Option to display caller information in Internet Explorer when a user answers a call.

- Registry setting to enable administrators to configure Cisco Unified Client Services Framework to use Cisco Unified Communications Manager group information to determine which CTIManager servers to use.
- Option to select whether to call the default number for a contact automatically, or to show a dialog box from which the user can select the number to call.

For information about features and functionality, see *Release Notes for Cisco UC Integration for Microsoft Lync Release 8.5* at:

http://www.cisco.com/en/US/products/ps10317/prod_release_notes_list.html

Cisco Adaptive Security Appliance

Cisco Unified Communications System Release 8.6(1) supports Cisco Adaptive Security Appliance Release 8.4(1). This release version did not change from the previous Cisco Unified Communications System release.

For information about features and functionality, see *Release Notes for the Cisco ASA 5500 Series, Version 8.4(x)* at:

http://www.cisco.com/en/US/products/ps6120/prod_release_notes_list.html

Cisco Unified Operations Manager

Cisco Unified Operations Manager 8.6(1) will be available in CYQ3 2011. For information about features and functionality, see *Release Notes for Cisco Unified Operations Manager 8.6* at:

http://www.cisco.com/en/US/products/ps6535/prod_release_notes_list.html

Cisco Unified Service Monitor

Cisco Unified Service Monitor 8.6(1) will be available in CYQ3 2011. For information about features and functionality, see *Release Notes for Cisco Unified Service Monitor 8.6* at:

http://www.cisco.com/en/US/products/ps6536/prod_release_notes_list.html

Cisco Unified Service Statistics Manager

Cisco Unified Service Statistics Manager 8.6(1) will be available in CYQ3 2011. For information about features and functionality, see *Release Notes for Cisco Unified Service Statistics Manager 8.6* at:

http://www.cisco.com/en/US/products/ps7285/prod_release_notes_list.html

Cisco Unified Provisioning Manager

Cisco Unified Provisioning Manager 8.6(1) will be available in CYQ3 2011. For information about features and functionality, see *Release Notes for Cisco Unified Provisioning Manager 8.6* at:

http://www.cisco.com/en/US/products/ps7125/prod_release_notes_list.html

Unified Computing System C-Series Blade Servers (Unified Communications Virtualization)

Cisco supports virtualization of Unified Communications components running on Unified Computing System C-Series Blade Servers:

For more information about Unified Communications on Unified Computing System (Virtualization), see http://docwiki.cisco.com/wiki/Unified_Communications_Virtualization.

Cisco IOS Release 15.1(4)M1

Cisco IOS Release 15.1(4)M1 includes support for new hardware and software features.

For a detailed description of new and changed features for Cisco IOS Release 15.1(4)M1, see *Release Notes for Cisco IOS Release 15.1M&T* at:

http://www.cisco.com/en/US/docs/docs/ios/15_1/release/notes/151TRN.pdf

Cisco 4451-X Integrated Services Router

Cisco 4451-X Integrated Services Router includes the following new features and changes to functionality:

- New voice feature

For information about features and functionality, see *Release Notes for Cisco 4451-X Integrated Services Router* at:

<http://www.cisco.com/en/US/docs/routers/access/4400/release/notes/isr4451rn.html>

System Requirements

This section provides information about the software versions of the Cisco and third-party components and the firmware versions of the Cisco Unified IP Phones used in system-wide testing of Cisco Unified Communications System Release 8.6(1). This section contains the following information:

- [End-of-Sale Components, page 17](#)
- [Deployment Considerations, page 18](#)
- [Software Version Matrix, page 20](#)
- [Latest Software Upgrades and Licenses, page 25](#)

End-of-Sale Components

The following components have reached end-of-sale (EOS) status but are still supported. Because they may be present in existing customer deployments, they remained installed in the test-bed sites for this Cisco Unified Communications System release.

- Cisco Unified MeetingPlace Express
- Cisco Unity—IBM Lotus Domino
- IBM Lotus Notes for Cisco Unified MeetingPlace Release
- Cisco Security Agent for Cisco Unified MeetingPlace Express
- Cisco Unified Videoconferencing 3511 MCU
- Cisco Unified Videoconferencing 3515 MCU
- Cisco Unified Videoconferencing 3521 BRI Gateway—Cisco Unified Videoconferencing Gateway 3522 (ISDN BRI)
- Cisco Unified Videoconferencing 3526 PRI Gateway—Cisco Unified Videoconferencing Gateway 3527 (ISDN PRI)
- Cisco Catalyst 6506, 6509 (Supervisor Engine 32)

- Cisco Catalyst Express 500
- Cisco Fax Server
- Cisco SIP Proxy Server
- Cisco Personal Assistant—Replaced with Cisco Unity
- Tandberg 990 MXP (H.323 video endpoint)
- Cisco 2691 router
- Cisco 831 router
- Cisco Catalyst 3550 series switches
- Cisco Catalyst 3660 multiservice platform
- Cisco Catalyst Firewall Service Module
- Cisco NAC Appliance (Clean Access)

The EOS date is the last date to order the product through Cisco point-of-sale mechanisms. The product is no longer for sale. Another process, the end-of-life (EOL) cycle, guides the final business operations associated with the product.

The EOL process consists of a series of technical and business milestones and activities that, when completed, make a product obsolete. After a product becomes obsolete, it is not sold, manufactured, improved, repaired, maintained, or supported.

For information about recommended replacements, see the comprehensive list of announcements at End-of-Life and End-of-Sale Products at the following URL:

http://www.cisco.com/en/US/products/prod_end_of_life.html

For information about specific products, choose a product from the following URL:

<http://www.cisco.com/web/psa/products/index.html>

Then click on the End-of-Life and End-of-Sale Notices link in the Product Literature box.

For an overview of the Products and Services EOL policy, see the information at the following URL:

http://www.cisco.com/en/US/products/products_end-of-life_policy.html

Deployment Considerations

The tables in this section list the recommended software and firmware releases based on Cisco Unified Communications System Release 8.6(1). Note that not every rebuild is tested as part of Cisco Unified Communications System. Therefore, additional regression testing in a customer or Cisco-specific certification lab is recommended before deployment.

When deploying IP Communications in a customer environment, consider the following:

- At the minimum, customers should deploy the software release recommended in these tables.
- For CSA, customers should use the latest engine and policy release. CSA software is available at: <http://www.cisco.com/cgi-bin/tablebuild.pl/csa>
- For other software components, customers should use the most current rebuild of a maintenance release. For IOS, information about the latest releases, including deferral advisories, is available at: <http://tools.cisco.com/support/downloads/go/Redirect.x?mdfid=268438303>
- If the recommended release has been deferred to a subsequent release, customers should use the subsequent release.

- Before deploying a release, examine the open caveats in the chosen release to determine if any will affect your implementation. Open caveats can be viewed through the Bug Toolkit, located at:
<http://tools.cisco.com/Support/BugToolKit/>
- In system upgrades, deploy the chosen release in a lab environment that uses the same product components as the customer's product components before moving to a production environment.

Software Version Matrix

The following table lists the software release versions of both Cisco and third-party components used in the Cisco Unified Communications System Release 8.6(1) system test.


Note

You can set up a virtualized environment by running Unified Communications applications on a virtual machine on a Unified Computing System (UCS). For additional details, including UCS hardware information and third-party requirements, see:

www.cisco.com/go/uc-virtualized

Table 1 *Software Release Versions in Cisco Unified Communications System Release 8.5(1) for IP Telephony*

Category	Component	Release 8.6(1)
Call Control	Cisco Unified Communications Manager	8.6(1)
	Cisco Unified Communications Manager—Cisco IP Telephony Operating System	Bundled with Unified Communications Manager
	Cisco Unified Communications Manager Business Edition 3000	8.6(1)
	Cisco Unified Communications Manager Business Edition 5000	8.6(1)
	Cisco Unified Communications Manager Business Edition 6000	8.6(1)
	Cisco Unified Communications Manager Express	8.6.1 15.1(4)M1
	Cisco Unified Survivable Remote Site Telephony (SRST)	8.6(1) 15.1(4)M1
	Cisco Unified Enhanced Survivable Remote Site Telephony	8.6(1)
	Cisco Intercompany Media Engine	8.6(1)
	Cisco TelePresence Video Communication Server	X6.1
	Cisco Telepresence Video Communications Server Expressway	X6.1
Contact Center	Cisco Unified Contact Center Express	8.5(1) SU1
	Cisco Unified Contact Center Express Operating System	Bundled with Unified Contact Center Express
Applications	Cisco Unified Presence	8.5(1)
	Cisco Unified SIP Proxy	8.5(2)
	Cisco Emergency Responder	8.6(1)
	Cisco Emergency Responder—Cisco IP Telephony Operating System	Bundled with Cisco Emergency Responder
	Cisco Unified Business Attendant Console and Unified Department Attendant Console	8.6(1)
	Cisco Unified Enterprise Attendant Console	8.6(1)

Category	Component	Release 8.6(1)
Conferencing	Cisco Unified MeetingPlace	8.5(1) ¹
	Microsoft Outlook for Cisco Unified MeetingPlace	8.5(1)
	Cisco Unified Media Server for 3545 MCU (video)	5.7.0.0.4
	Cisco Unified Media Server for 3545 MCU (audio)	6.1.0.0.16
	Cisco Unified Videoconferencing 3522 BRI Gateway	5.0.0.0.22
	Cisco Unified Videoconferencing 3527 and 3545 PRI Gateways	5.0.0.0.22
Telepresence	Cisco TelePresence System 500 Series, 1000, 1100, 1300 Series, 3000 Series, 3200 Series	CTS 1.7.3
	Cisco TelePresence System EX90 and Cisco TelePresence System EX60	TC 5.0 ²
	Cisco TelePresence System Profile Series. 42-inch, 52-inch, 52-inch Dual, 65-inch, and 65-inch Dual	TC 5.0 ²
	Cisco TelePresence System Quick Set C20 and Cisco TelePresence System Integrator Package C40, C60, and C90	TC 5.0 ²
	Cisco IP Video Phone E20	TE 4.1 ²
	Cisco TelePresence System 1700 MXP	F 9.0.2 PAL
	Cisco TelePresence Movi	4.1
	Cisco TelePresence Server 7010	2.2
	Cisco TelePresence MCU MSE Series	4.2
	Cisco Telepresence ISDN Gateway 3241	2.1
Voice Mail and Unified Messaging	Cisco Unity	8.0(3)
	Cisco Unity-CM TSP	8.4(3)
	Cisco Unity—Microsoft Exchange	Microsoft Exchange 2007 SP2
	Cisco Unity Connection	8.6(1)
	Cisco Unity Express	8.6(1)
	Cisco Unified Messaging Gateway	8.6(1)
	Cisco Unified Survivable Remote Site Voicemail	8.6(1) IOS 15.1(4)M1
	Cisco Virtual Desktop Integration/Virtualization Experience Clients	9.2(1)

Category	Component	Release 8.6(1)
Endpoints and Clients	Cisco Unified IP Phones 7906G, 7911G, 7931, 7941G, 7942G, 7945G, 7961G, 7962G, 7965G, 7970G, 7971G, 7975G	Bundled with Unified Communications Manager Firmware 9.2(1)
	Cisco Unified IP Phones 7921G, 7925G	1.4(1)
	Cisco Unified IP Phones 7937G	1.4(4)
	Cisco Unified IP Phones 7936	3.3(20)
	Cisco Unified IP Phones 7985G	4.1(7)
	Cisco Unified IP Phones 3905	Firmware 9.2(1)
	Cisco Unified IP Phones 3911, 3951	8.1(4a)
	Cisco Unified IP Phones 6901, 6911	Firmware 9.2(1)
	Cisco Unified IP Phones 6921, 6941, 6945, 6961	Firmware 9.2(1)
	Cisco Unified IP Phones 8941, 8945, 8961	Firmware 9.2(1)
	Cisco Unified IP Phones 9951, 9971	Firmware 9.2(1)
	Cisco Virtualization Experience Clients	Firmware 9.2(1)
	Cisco Cius	8.6(1)
	Cisco IP Communicator	8.6(1)
	Cisco Unified Personal Communicator	8.5(1)
	Cisco UC Integration™ for Lync	8.5(2)
	Cisco Unified Communications for RTX	8.5(1)
Wireless and Mobility	Cisco Aironet 3502 Access Point	AIR-WLC4400-K9-7-0-116-0-ER.aes
	Cisco Aironet 1142 Access Point	AIR-WLC4400-K9-7-0-116-0-ER.aes
	Cisco 4400 Series Wireless LAN Controllers	AIR-WLC4400-K9-7-0-116-0-ER.aes
	Cisco 5500 Series Wireless Controllers	AIR-CT5500-K9-7-0-116-0.aes
	Cisco Unified Mobility Advantage	7.1(3)
	Cisco Unified Mobile Communicator	7.1(3)
Security	Cisco Adaptive Security Appliance (ASA)	8.4(1)
	Cisco Intrusion Prevention System (AIP-SSM, IDS-2 Module, IPS-4200)	7.0(2)E3
	Management Center for Cisco Security Agents	5.2.1
	Cisco Security Agent for Cisco Unified Communications Manager	Bundled with Unified Communications Manager
	Cisco Security Agent for Cisco Emergency Responder	Bundled with Unified Communications Manager
	Cisco Security Agent for Unified Contact Center Express	Bundled with Unified Contact Center Express
	Cisco Security Agent for Cisco Unity	6.0(1)
	Cisco Security Agent for Cisco Unified MeetingPlace	6.0(1)

Category	Component	Release 8.6(1)
Network Management	Cisco Unified Operations Manager	8.6(1) ²
	Cisco Unified Service Monitor	8.6(1) ²
	Cisco Unified Service Statistics Manager	8.6(1) ²
	Cisco Unified Provisioning Manager	8.6(1) ²
Communications Infrastructure	Cisco IOS Mainline Release	15.1(4)M1
	Unified Computing System B200 M2, C200 M2, and C210 M2 (Unified Communications Virtualization)	VMWare ESXi 4.0
	Cisco Integrated Services Router (ISR) 2801, 2811, 2821, 2851, 3825, 3845	15.1(4)M1
	Cisco 38xx Gatekeepers	15.1(4)M1
	Cisco 3800 (IP-to-IP gateway)	15.1(4)M1
	Cisco 3900 (IP-to-IP gateway)	15.1(4)M1
	Cisco Integrated Services Router (ISR) 1861	15.1(4)M1
	Cisco Integrated Services Router (ISR) 2901, 2911, 2921, 2951, 3925, 3945, 3925E, 3945E	15.1(4)M1
	Cisco 4451-X Integrated Services Router	IOS-XE 3.9
	Cisco Unified Border Element Enterprise Edition for Cisco ISR Series	15.1(4)M1
	Cisco Unified Border Element Enterprise Edition for Cisco ASR 1000 Series	3.2
	Cisco Secure RTP and Cisco Secure SRST	15.1(4)M1
	Cisco Catalyst 3750 (data center switch)	12.2(53)SE2
	Cisco Catalyst 4503 Switch	12.2(53)SE2
	Cisco Catalyst 4506 (access switch)	12.2(54)SG
	Cisco Catalyst 6506, 6509 (voice access switch, supervisor 2/MSFC2)	12.2(33)SX14 CatOS8.6(6a)
	Cisco Catalyst 6608, 6624 (voice gateway)	Bundled with Unified Communications Manager
	Cisco VG202 and 204 (analog voice gateway)	15.1(4)M1
	Cisco VG224 (analog voice gateway)	15.1(4)M1
	Cisco VG248 (analog voice gateway)	1.3(2)
	Cisco ATA 187 (analog telephony adaptor)	9.2(1)
Third Party	McAfee Antivirus ³	Enterprise 8.7.0i

- Adhoc conferencing feature in Unified MeetingPlace Releases 8.0/8.5 is not supported with Unified Communications Manager Release 8.6(1).
- Will be available in CYQ3 2011.
- You can install third-party antivirus agents on Windows-based servers such as Unified Operations Manager and Unified Provisioning Manager, but not on non-Windows appliances such as Unified Communications Manager and Unified Communications Manager Business Edition.

**Note**

Product specific compatibility documents provide complete compatibility information between components.

Firmware Version Matrix

The following table lists the recommended firmware versions of the Cisco Unified IP Phones (SCCP and SIP) used in the Cisco Unified Communications System Release 8.6(1) system test.

Table 2 *Firmware Versions of Cisco SCCP and SIP Phones in Cisco Unified Communications System Release 8.6(1)*

Component	SCCP Firmware Version	SIP Firmware Version
Cisco Unified IP Phone 3905	—	CP3905.9-2-1-0
Cisco Unified IP Phone 3911	—	SIP3951.8-1-4a
Cisco Unified IP Phone 3951	—	SIP3951.8-1-4a
Cisco Unified IP Phone 6901	SCCP6901.9-2-1-a	SIP6901.9-2-1-0
Cisco Unified IP Phone 6911	SCCP6911.9-2-1-a	SIP6911.9-2-1-0
Cisco Unified IP Phone 6921	SCCP69xx.9-2-1-0	SIP69xx.9-1-1-3-sr
Cisco Unified IP Phone 6941	SCCP69xx.9-2-1-0	SIP69xx.9-1-1-3-sr
Cisco Unified IP Phone 6945	SCCP6945.9-2-1-0	SIP6945.9-1-1-0
Cisco Unified IP Phone 6961	SCCP69xx.9-2-1-0	SIP69xx.9-1-1-3-sr
Cisco Unified IP Phone 7902	CP7902080002SCCP060817A	—
Cisco Unified IP Phone 7905	CP7905080003SCCP070409A	CP7905080001SIP060412A
Cisco Unified IP Phone 7906	SCCP11.9-2-1S	SIP11.9-2-1S
Cisco Unified IP Phone 7910	P00405000700	—
Cisco Unified IP Phone 7911	SCCP11.9-2-1S	SIP11.9-2-1S
Cisco Unified IP Phone 7912	CP7912080004SCCP080108A	CP7912080001SIP060412A
Cisco Unified IP Phone 7920	cmterm_7920.4.0-03-02	—
Cisco Unified IP Phone 7921	CP7921G-1.4.1	—
Cisco Unified IP Phone 7925	CP7925G-1.4.1	—
Cisco Unified IP Phone 7931	SCCP31.9-2-1S	SIP31.9-2-1S
Cisco Unified IP Phone 7935	P00503021900	—
Cisco Unified IP Phone 7936	cmterm_7936.3-3-20-0	—
Cisco Unified IP Phone 7937	apps37sccp.1-4-3-0	—
Cisco Unified IP Phone 7941	SCCP41.9-2-1S	SIP41.9-2-1S
Cisco Unified IP Phone 7941G-GE	SCCP41.9-2-1S	SIP41.9-2-1S
Cisco Unified IP Phone 7942	SCCP42.9-2-1S	SIP42.9-2-1S
Cisco Unified IP Phone 7945	SCCP45.9-2-1S	SIP45.9-2-1S
Cisco Unified IP Phone 7961	SCCP41.9-2-1S	SIP41.9-2-1S
Cisco Unified IP Phone 7961G-GE	SCCP41.9-2-1S	SIP41.9-2-1S
Cisco Unified IP Phone 7962	SCCP42.9-2-1S	SIP42.9-2-1S
Cisco Unified IP Phone 7965	SCCP45.9-2-1S	SIP45.9-2-1S
Cisco Unified IP Phone 7970	SCCP70.9-2-1S	SIP70.9-2-1S
Cisco Unified IP Phone 7971	SCCP70.9-2-1S	SIP70.9-2-1S

Table 2 *Firmware Versions of Cisco SCCP and SIP Phones in Cisco Unified Communications System Release 8.6(1)*

Component	SCCP Firmware Version	SIP Firmware Version
Cisco Unified IP Phone 7975	SCCP75.9-2-1S	SIP75.9-2-1S
Cisco Unified IP Phone 7985	cmterm_7985.4-1-7-0	—
Cisco Unified IP Phone 8941	SCCP894x.9-1-2-SR-1	—
Cisco Unified IP Phone 8945	SCCP894x.9-1-2-SR-1	—
Cisco Unified IP Phone 8961	—	sip8961.9-2-1
Cisco Unified IP Phone 9951	—	sip9951.9-2-1
Cisco Unified IP Phone 9971	—	sip9971.9-2-1
Cisco ATA 186	ATA030204SCCP090202A	—
Cisco ATA 187	—	ATA187.9-0-3-0
Cisco E20	—	te410-prealpha-248240.pkg
Cisco TelePresence 500-37	—	CTS.1-7-4-192D-K9.P1.sbn

Latest Software Upgrades and Licenses

The following are links to the latest software upgrades and licenses for Cisco Unified Communications System Release 8.6(1) components.

To launch the Product Upgrade Tool, go to:

<http://tools.cisco.com/gct/Upgrade/jsp/index.jsp>

To access the Cisco Agent Desktop Web licensing site, go to:

<http://209.46.83.138/sws/WebLicensingInitial/InitialLicensePage.html>

To download the latest software for all other components, go to:

<http://www.cisco.com/cisco/software/navigator.html>

Related Documentation

System Documentation

The components in these release notes, including the platforms tested, are discussed in the Technical Information site at:

http://www.cisco.com/iam/unified/ipt861/Install_and_Configure_System_Components.htm

See this content for the specific versions of the components tested and links to relevant documentation for installation and configuration procedures.

Upgrade information for components that have been tested and verified during system testing is provided in the *System Installation and Upgrade for IP Telephony Enterprise Cisco Unified Communications System Release 8.6(1)* at:

http://www.cisco.com/en/US/docs/voice_ip_comm/uc_system/UC8.6.1/ipt_system_inst_upg/suimt861.pdf

For additional information about specific hardware recommendations or bills of material for each product, see [System Requirements, page 17](#).

Manageability Documentation

For manageability information about certain products, see documentation at:

http://www.cisco.com/en/US/docs/voice_ip_comm/uc_system/unified/communications/system/Managed_Services.html

Product Documentation

The following table provides links to the main page for documentation on various Cisco Unified Communications components, from which you can navigate to individual documents.

Table 3 **Related Documentation URLs**

Category	Component	Documentation URL
Call Control	Cisco Unified Communications Manager	http://www.cisco.com/en/US/products/sw/voicesw/ps556/tsd_products_support_series_home.html
	Cisco Unified Communications Manager Business Edition 3000	http://www.cisco.com/en/US/products/ps11370/tsd_products_support_series_home.html
	Cisco Unified Communications Manager Business Edition 5000	http://www.cisco.com/en/US/products/ps7273/tsd_products_support_series_home.html
	Cisco Unified Communications Manager Business Edition 6000	http://www.cisco.com/en/US/products/ps11369/tsd_products_support_series_home.html
	Cisco Unified Communications Session Management Edition	http://www.cisco.com/en/US/products/ps10661/tsd_products_support_series_home.html
	Cisco Unified Communications Manager Express	http://www.cisco.com/en/US/products/sw/voicesw/ps4625/tsd_products_support_series_home.html
	Cisco Unified Survivable Remote Site Telephony (SRST)	http://www.cisco.com/en/US/products/sw/voicesw/ps2169/tsd_products_support_series_home.html
	Cisco Intercompany Media Engine	http://www.cisco.com/en/US/products/ps10669/tsd_products_support_series_home.html
Contact Center	Cisco Unified Contact Center Express	http://www.cisco.com/en/US/products/sw/custcosw/ps1846/tsd_products_support_series_home.html
Applications	Cisco Unified Presence	http://www.cisco.com/en/US/products/ps6837/tsd_products_support_series_home.html
	Cisco Emergency Responder	http://www.cisco.com/en/US/products/sw/voicesw/ps842/tsd_products_support_series_home.html
	Cisco Unified Application Environment	http://www.cisco.com/en/US/products/ps7058/tsd_products_support_series_home.html
	Cisco Unified Attendant Consoles	http://www.cisco.com/en/US/products/ps7282/tsd_products_support_series_home.html
	Cisco Unified SIP Proxy Software	http://www.cisco.com/en/US/products/ps10475/tsd_products_support_series_home.html
Conferencing	Cisco Unified MeetingPlace	http://www.cisco.com/en/US/products/sw/ps5664/ps5669/tsd_products_support_series_home.html
	Cisco Unified Videoconferencing 3500 Series Products	http://www.cisco.com/en/US/products/hw/video/ps1870/tsd_products_support_series_home.html
Telepresence	Cisco TelePresence Endpoints	http://www.cisco.com/en/US/products/ps7060/products.html
	Cisco TelePresence Infrastructure	http://www.cisco.com/en/US/products/ps7060/products.html#N618533

Table 3 **Related Documentation URLs**

Category	Component	Documentation URL
Voice Mail and Unified Messaging	Cisco Unity	http://www.cisco.com/en/US/products/sw/voicesw/ps2237/tsd_products_support_series_home.html
	Cisco Unity Connection	http://www.cisco.com/en/US/products/ps6509/tsd_products_support_series_home.html
	Cisco Unity Express	http://www.cisco.com/en/US/products/sw/voicesw/ps5520/tsd_products_support_series_home.html
	Cisco Unified Messaging Gateway	http://www.cisco.com/en/US/products/ps8605/tsd_products_support_series_home.html
	Cisco Unified Survivable Remote Site Voicemail	http://www.cisco.com/en/US/products/ps10769/tsd_products_support_series_home.html
Endpoints and Clients	Cisco Unified SIP Phone 3900 Series	http://www.cisco.com/en/US/products/ps7193/tsd_products_support_series_home.html
	Cisco Unified IP Phone 6900 Series	http://www.cisco.com/en/US/products/ps10326/tsd_products_support_series_home.html
	Cisco Unified IP Phone 7900 Series	http://www.cisco.com/en/US/products/hw/phones/ps379/tsd_products_support_series_home.html
	Cisco Unified IP Phone 8900 Series	http://www.cisco.com/en/US/products/ps10451/tsd_products_support_series_home.html
	Cisco Unified IP Phone 9900 Series	http://www.cisco.com/en/US/products/ps10453/tsd_products_support_series_home.html
	Cisco Virtualization Experience Clients	http://www.cisco.com/en/US/products/ps11295/Products_Sub_Category_Home.html
	Cisco Cius	http://www.cisco.com/en/US/products/ps11156/prod_literature.html
	Cisco IP Communicator	http://www.cisco.com/en/US/products/sw/voicesw/ps5475/tsd_products_support_series_home.html
	Cisco Unified Personal Communicator	http://www.cisco.com/en/US/products/ps6844/tsd_products_support_series_home.html
	Cisco UC Integration™ for Microsoft Lync	http://www.cisco.com/en/US/products/ps10317/tsd_products_support_series_home.html
Wireless and Mobility	Cisco Unified Communications for RTX	http://www.cisco.com/en/US/products/ps11241/tsd_products_support_series_home.html
	Cisco Aironet 1140, 3500 Series Access Points	http://www.cisco.com/en/US/products/hw/wireless/index.html
	Cisco 4400 Series Wireless LAN Controllers	http://www.cisco.com/en/US/products/ps6366/tsd_products_support_series_home.html
	Cisco Unified Mobility Advantage	http://www.cisco.com/en/US/products/ps7270/tsd_products_support_series_home.html
	Cisco Unified Mobile Communicator	http://www.cisco.com/en/US/products/ps7271/tsd_products_support_series_home.html

Table 3 **Related Documentation URLs**

Category	Component	Documentation URL
Security	Cisco ASA 5500 Series Adaptive Security Appliances (ASA 5520, ASA 5540, ASA 5580)	http://www.cisco.com/en/US/products/ps6120/tsd_products_support_series_home.html
	Cisco ASA Advanced Inspection and Prevention Security Services Module (AIP-SSM)	http://www.cisco.com/en/US/products/ps9774/prod_module_series_home.html
	Cisco Security Agent	http://www.cisco.com/en/US/products/sw/secursw/ps5057/tsd_products_support_eol_series_home.html
	Cisco Enterprise Policy Manager	http://www.cisco.com/en/US/products/ps9529/tsd_products_support_series_home.html
Network Management	Cisco Unified Operations Manager	http://www.cisco.com/en/US/products/ps6535/tsd_products_support_series_home.html
	Cisco Unified Service Monitor	http://www.cisco.com/en/US/products/ps6536/tsd_products_support_series_home.html
	Cisco Unified Service Statistics Manager	http://www.cisco.com/en/US/products/ps7285/tsd_products_support_series_home.html
	Cisco Unified Provisioning Manager	http://www.cisco.com/en/US/products/ps7125/tsd_products_support_series_home.html

Table 3 **Related Documentation URLs**

Category	Component	Documentation URL
Communications Infrastructure	Cisco IOS Software Release 15.1	http://www.cisco.com/en/US/products/ps10592/tsd_products_support_series_home.html
	Cisco 870, 881 Integrated Services Routers	http://www.cisco.com/en/US/products/hw/routers/ps380/tsd_products_support_series_home.html
	Cisco 1861 Integrated Services Router	http://www.cisco.com/en/US/products/ps5853/tsd_products_support_series_home.html
	Cisco 2800 Series Integrated Services Routers	http://www.cisco.com/en/US/products/ps5854/tsd_products_support_series_home.html
	Cisco 2900 Series Integrated Services Routers	http://www.cisco.com/en/US/products/ps10537/tsd_products_support_series_home.html
	Cisco 3800 Series Integrated Services Routers	http://www.cisco.com/en/US/products/ps5855/tsd_products_support_series_home.html
	Cisco 3900 Integrated Services Routers	http://www.cisco.com/en/US/products/ps10536/tsd_products_support_series_home.html
	Cisco 4451-X Integrated Services Routers	http://www.cisco.com/en/US/products/ps12522/tsd_products_support_series_home.html
	Cisco Unified Border Element	http://www.cisco.com/en/US/products/sw/voicesw/ps5640/tsd_products_support_series_home.html
	Cisco VGD 1T3 Voice Gateway	http://www.cisco.com/en/US/products/ps9890/tsd_products_support_series_home.html
	Cisco VG30D Voice Gateway	http://www.cisco.com/en/US/products/ps10601/products_data_sheets_list.html
	Cisco Catalyst 3750 Series Data Center Switches	http://www.cisco.com/en/US/products/hw/switches/ps5023/tsd_products_support_series_home.html
	Cisco Catalyst 4500 Series Access Switches	http://www.cisco.com/en/US/products/hw/switches/ps4324/tsd_products_support_series_home.html
	Cisco Catalyst 6500 Series Access Switches	http://www.cisco.com/en/US/products/hw/switches/ps708/tsd_products_support_series_home.html
	Cisco Catalyst 6600 Series Voice Gateways	http://www.cisco.com/en/US/products/hw/switches/ps700/tsd_products_support_eol_series_home.html
	Cisco VG200 Series Analog Voice Gateways	http://www.cisco.com/en/US/products/hw/gatecont/ps2250/tsd_products_support_series_home.html
	Cisco ATA 180 Series Analog Telephone Adaptors	http://www.cisco.com/en/US/products/hw/gatecont/ps514/tsd_products_support_series_home.html
Unified Computing	Cisco Unified Computing System	http://www.cisco.com/en/US/products/ps10477/tsd_products_support_series_home.html
	Cisco UCS B-Series Blade Servers	http://www.cisco.com/en/US/products/ps10280/tsd_products_support_series_home.html
	Cisco UCS C-Series Rack-Mount Servers	http://www.cisco.com/en/US/products/ps10493/tsd_products_support_series_home.html

Limitations and Restrictions

This section includes the following topics:

- [Important Notes, page 31](#)
- [Resolved Caveats, page 31](#)
- [Open Caveats, page 32](#)

If you are a Cisco partner or a registered Cisco.com user with a Cisco service contract, you can use the Bug Toolkit to find caveats of any severity for any release. Access the Bug Toolkit at:

<http://tools.cisco.com/Support/BugToolKit/>

Cisco offers a Product Alert Tool that allows you to set up one or more profiles that enable you to receive email notification of new Field Notices, Product Alerts, or End of Sale information for the products that you select. The Product Alert Tool is available at: <http://tools.cisco.com/Support/PAT>

Important Notes

This section includes important notes related to the testing of Cisco Unified Communications System Release 8.6(1) for IP telephony and includes the following issue:

- [DTMF signaling type 'no preference' with DTMF relay sip-kpml](#)

DTMF signaling type 'no preference' with DTMF relay sip-kpml

Do not configure a Unified Communications Manager SIP trunk pointing to the SIP gateway as DTMF signaling type 'no preference' when the SIP gateway is DTMF relay sip-kpml.

This combination results in bulk call failures during heavy traffic loads, followed by a gateway crash. To recover from the crash the gateway router must be reloaded. For more information, see [CSCtq56727](#), SIP GW crash with MALLOCFAIL during heavy call traffic.

Workaround:

Set the DTMF signaling type as 'OOB and RFC 2833' in Unified Communications Manager SIP trunk configuration.

OR

Configure dtmf-relay rtp-nte at the SIP gateway dial-peer configuration, instead of sip-kpml. The Unified Communications Manager SIP trunk is configured with 'no preference.'

Resolved Caveats

[Table 4](#) lists caveats, grouped by severity, that are resolved now but are *not* included in the recommended component versions of Cisco Unified Communications System Release 8.6(1) for IP telephony.



Note

For information about the caveats that were resolved in specific versions of each component, see the appropriate release notes for each component.

To determine the software version that includes the fix, click on the linked caveat number in the Identifier column in [Table 4](#) to access the Bug Toolkit.

Table 4 *Resolved Caveats Not Included in Cisco Unified Communications Release 8.6(1)*

Identifier	Headline
Severity 2-3 caveats	
CSCto02728	CUCM web very slow for phone queries
CSCto59303	CUCM BE 3k Auto Attendant key transfer to Pilot number
CSCtq17644	No video from RT to H320 PSTN endpoint over Codian ISDN gw
CSCtq26609	Dataset status failed DB error displays on scheduled reports
CSCtq37434	Payload Number reuse detection killing calls considered too harsh
CSCth73331	NME-CUE config lost after Reload
CSCto93338	Inbound/outbound calls to/from MXP1700 over QSIG ICT fails.
CSCtj23133	Re-order tone in originating side (CUCM) for unanswered
CSCtq70900	Tomcat and/or IPSEC Key store corruption causes DRF backup failures
Severity 4-6 Caveats	
CSCtf90314	Some configurations are lost while upgrading
CSCtk66134	Service cores during shutdown
CSCtj10806	Video Path replacement not working

Open Caveats

[Table 5](#) lists known caveats, grouped by severity, related to the testing of IP telephony components in Cisco Unified Communications System Release 8.6(1) and previous releases, which were not resolved at the time this document was written.

For additional information about each defect, click on the linked caveat number in the Identifier column in [Table 5](#) to access the Bug Toolkit.

Table 5 *Open Caveats*

Identifier	Headline
Severity 2-3 Caveats	
CSCti02486	7985 Video phone to TB H.320 PSTN endpoint video calls are not working
CSCte86123	If System IPCC is selected and Peripheral ID is 5000 CTIOS error occurs
CSCti98133	C20: P2P call fails between 9971 and C20 registered to VCS in h323 mode
CSCtn12208	PCoIP standalone - second display sometimes takes a long time to come up
CSCto11698	PMR 00006 data is not replicating between all nodes in cluster some
CSCtq52314	CUCIRTX (SoftPhone) drops the call when video gets added to the EX90/E20
CSCtq74688	CTS 500 call gets dropped after the originator of the conference is released
CSCtq82479	Limitation under Qsig which leads Conference string and COLP to miss
CSCtq83940	CUCM does not negotiate 101 in re-invite when call originates from SCCP
CSCtq71309	After upgrade the WebApp services fails to start
Severity 4-6 Caveats	

Table 5 **Open Caveats**

Identifier	Headline
CSCti23462	Display error message when user rebalance ignores an unhealthy node
CSCtd52204	SIP session/sip_tx and possible TD memory leak during tls testing
CSCte50676	Newly added users cannot login over soap following DB restart
CSCte70132	Need method to handle overlapping large reassignments
CSCtn39962	Disable replWatcher when pub and sub are on different versions

Troubleshooting

For important troubleshooting information, tips, and recommendations related to Cisco Unified Communications System Release for IP telephony, see the troubleshooting information at:
http://www.cisco.com/iam/unified/ipt851/Introduction_to_Troubleshooting.htm

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information about 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 an RSS feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service. Cisco currently supports RSS Version 2.0.

This document is to be used in conjunction with the documents listed in the “[Related Documentation](#)” section.

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System Release Notes for IP Telephony: Cisco Unified Communications System, Release 8.6(1)

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