



Cisco TelePresence System EX Series

Software release notes TE6

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Document revision history

Revision	Date	Description
03	25/02/2013	Release of TE6.0.2, minor release. Release notes document fixes.
02	16/01/2013	Release of TE6.0.1, minor release
01	04/12/2012	Release of TE6.0, main release

Introduction software version TE6.0.2

This release note describes the features and capabilities included in the Cisco TelePresence System EX90 and EX60 software version TE6.0.2 released on 25th of February 2013.

TE6.0.2 is a Cisco Unified Communications Manager (CUCM) release only and does not support VCS registration. Additionally, TE6.0.2 does not support all non-CUCM features from earlier TC software releases such as H.323 and Multiway. Full non-CUCM feature parity with TC software is introduced in TC6.0 and beyond. TE6.0.2 does not require a release key.

For TE6.0.2 you need the correct device package for CUCM in order for all features to work properly. The supported versions are:

- ▶ CUCM Release 8.6.2(23047)
- ▶ CUCM Release 9.0.1(11003)



The EX-Series support provisioning and basic call functionality with Cisco Unified Communications Manager (CUCM) version 8.6 and above. It also supports Cisco Discovery Protocol (CDP) for easy deployment in CUCM environments. When provisioning mode is set to CUCM the system will try to use Voice VLAN if available in your network. In other provisioning modes it will try to use Data VLAN.

Please be aware that in future releases Voice VLAN will be set to 'Auto' as per Cisco best practice. If you are using Cisco switches you need to prepare your network so that network services are reachable from your Voice VLAN.

Resolved caveats

Using the Bug Search Tool

You can use the Bug Search Tool to find information about caveats (bugs) in this release, including descriptions of the problems and available workarounds. The Bug Search Tool lists both open and resolved caveats.

To use the Bug Search Tool, follow these steps:

Step 1 Access the Bug Search Tool by navigating to <http://www.cisco.com/cisco/psn/bssprt/bss>

Step 2 Log in 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'.

Resolved since TE6.0.1

SIP

Reference ID	Summary
<i>CSCue06118</i>	System allows Barge on call when Privacy enabled
<i>CSCud81796</i>	Issues when system is receiving calls from other subscriber when registered to CUCM.

Introduction software version TE6.0.1

This release note describes the features and capabilities included in the Cisco TelePresence System EX90 and EX60 software version TE6.0.1 released on 16th of January 2013.

TE6.0.1 is a Cisco Unified Communications Manager (CUCM) release only and does not support VCS registration. Additionally, TE6.0.1 does not support all non-CUCM features from earlier TC software releases such as H.323 and Multiway. Full non-CUCM feature parity with TC software will be introduced in TC6.0 and beyond. TE6.0.1 does not require a release key.

For TE6.0.1 you need the correct device package for CUCM in order for all features to work properly. The supported versions are:

- ▶ CUCM Release 8.6.2(23047)
- ▶ CUCM Release 9.0.1(11003)



The EX-Series support provisioning and basic call functionality with Cisco Unified Communications Manager (CUCM) version 8.6 and above. It also supports Cisco Discovery Protocol (CDP) for easy deployment in CUCM environments. When provisioning mode is set to CUCM the system will try to use Voice VLAN if available in your network. In other provisioning modes it will try to use Data VLAN.

Please be aware that in future releases Voice VLAN will be set to 'Auto' as per Cisco best practice. If you are using Cisco switches you need to prepare your network so that network services are reachable from your Voice VLAN.

Resolved caveats

Using the Bug Search Tool

You can use the Bug Search Tool to find information about caveats (bugs) in this release, including descriptions of the problems and available workarounds. The Bug Search Tool lists both open and resolved caveats.

To use the Bug Search Tool, follow these steps:

Step 1 Access the Bug Search Tool by navigating to <http://www.cisco.com/cisco/psn/bssprt/bss>

Step 2 Log in 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.

Resolved since TE6.0.0

SIP

Reference ID	Summary
<i>CSCud83749</i>	No Audio/Video sent after de-escalation from CUCM Ad Hoc conference

Introduction software version TE6.0

This release note describes the features and capabilities included in the Cisco TelePresence System EX90 and EX60 software version TE6.0 released on 4th of December 2012.

TE6.0 is a Cisco Unified Communications Manager (CUCM) release only and does not support VCS registration. Additionally, TE6.0 does not support all non-CUCM features from earlier TC software releases such as H.323 and Multiway. Full non-CUCM feature parity with TC software will be introduced in TC6.0 and beyond. TE6.0 does not require a release key.

For TE6.0 you need the correct device package for CUCM in order for all features to work properly. The supported versions are:

- ▶ CUCM Release 8.6.2(23047)
- ▶ CUCM Release 9.0.1(11003)



The EX-Series support provisioning and basic call functionality with Cisco Unified Communications Manager (CUCM) version 8.6 and above. It also supports Cisco Discovery Protocol (CDP) for easy deployment in CUCM environments. When provisioning mode is set to CUCM the system will try to use Voice VLAN if available in your network. In other provisioning modes it will try to use Data VLAN.

Please be aware that in future releases Voice VLAN will be set to 'Auto' as per Cisco best practice. If you are using Cisco switches you need to prepare your network so that network services are reachable from your Voice VLAN.

New features and functionality in TE6.0

New features for Cisco TelePresence EX90 and EX60

- ▶ Encryption in CUCM Environment
- ▶ Basic CTI/JTAPI support
- ▶ Cisco Touch user interface improvements
- ▶ Ad hoc conferencing in CUCM
- ▶ Shared Lines support
- ▶ Call Forward All support
- ▶ Bluetooth Headset support
- ▶ Voice mail support and message waiting indication.
- ▶ SIP URI dialing when registered to CUCM
- ▶ Mediatrace support
- ▶ Audio-driven Local Microphone Mute Notification

New features description

Encryption in CUCM Environment

EX90 and EX60 now support encryption when registered to Cisco Unified Communications Manager (CUCM). This feature requires CUCM 8.6.2 or later versions and the security mode must be installed and configured on the CUCM. An encryption indicator is shown on the Touch user interface during a call. Encrypted CTMS calls are not supported in TE6.0.

Basic CTI/JTAPI support

EX90 and EX60 can now be managed using a Java Telephony API (JTAPI). With the introduction of JTAPI the Cisco Remote expert 1.8 is now supported when registered to CUCM version 8.6.2 or later. The following basic APIs are supported: call, answer, disconnect, hold, resume, blind transfer, consultative transfer and consultative conference.

Touch user interface general improvements

The Cisco Touch has a new and improved graphic user interface:

- ▶ New Call Scene and Home Menu for easier call control
- ▶ Badges on contacts in call history for Missed Calls
- ▶ New soft keyboard and improved text selector
- ▶ Dial pad for numeric dialing
- ▶ Settings Menu is now directly accessible from the Home Menu's top right corner
- ▶ Tabbed view for held calls and improved transfer call handling
- ▶ Swipe feature to second view of conference participant list.
- ▶ Encryption and call duration indicators

Local Microphone Mute Notification

When in a call, you will be notified if you start speaking while your microphone is muted. The notification “Your microphone is muted” will be displayed on the main display.

Localization of the Cisco Touch 8

The Cisco Touch now supports Dutch, Italian, Korean and Brazilian Portuguese

CUCM Ad Hoc Conferencing

EX90 and EX60 now support ad-hoc conferences when registered to CUCM. The Cisco TelePresence MCU has to be registered to CUCM. This feature is not supported if the MCU is registered to VCS. Furthermore, this feature requires CUCM 8.6.2 or later versions. If encryption is used, CUCM 9.0 and later is required.

CUCM Shared Line support

The EX90 and EX60 now support Shared Line when registered to CUCM. CUCM considers a directory number to be a shared line if it appears on more than one device in the same partition allowing the call to be accepted on more than one phone. When Shared Lines are active, assisted call handling such as call forward, barge and remote resume are supported.

CUCM Call Forward All

EX60 and EX90 now support call forwarding when registered to CUCM. Call forwarding diverts calls to a specified number. When Call Forward All is activated, all incoming calls are diverted. The target destination for diverted calls can be set from the Touch controller, or provisioned by the CUCM.

Bluetooth Headset support

The Bluetooth version 2.1 headset profile is supported. The following functions are included: answer, volume up, volume down and hang up. A Bluetooth headset icon appears in the audio selector on the Touch 8 when a headset is paired with the video system. Only one headset can be paired at the time.

CUCM Voice Mail support and Message waiting indicator

Endpoints registered to a CUCM can be assigned a voice mail profile. When receiving a Busy or No Answer signal from such an endpoint, the call is forwarded to voice mail. A message waiting notification appears on the Touch controller. By tapping the messages icon a call is placed directly to the voice mail and you can retrieve your messages.

SIP URI dialing when registered to CUCM

As from CUCM version 9.0, endpoints registered to CUCM support URI dialing. A URI is an alias for a directory number (DN). A call to the URI behaves as if the call was made directly to the directory number.

URI example: conference_room@company.com. The username (left side) is case sensitive in CUCM 9.0, while the domain (right side) is not.

Medianet support

The Mediatrace diagnostics tool

Mediatrace is a software feature that discovers the routers and switches (layer 2 and 3 devices) along the path of an IP flow. It is a diagnostic tool that collects critical information hop by hop on specific media streams as they traverse the network. Mediatrace should be enabled on each network node you want to collect information from. Because the path of video data packets from the endpoints is traced, troubleshooting is facilitated and network performance can be optimized.

Metadata

The Metadata component allows applications to convey information to the network, for example by marking the video traffic traversing the network. The metadata adds information to the flow. Network managers use this information to prioritize and allocate bandwidth efficiently.

New API configurations

- ▶ xConfiguration Conference [1..1] BFCP Mode
- ▶ xConfiguration NetworkServices CTMS Mode
- ▶ xConfiguration SIP Profile [1..1] Mailbox
- ▶ xConfiguration SIP Profile [1..1] Line
- ▶ xConfiguration SIP ListenPort
- ▶ xConfiguration SystemUnit Bluetooth Mode
- ▶ xConfiguration UserInterface TouchPanel DomainAutocomplete
- ▶ xConfiguration Video Input HDMI [1] RGBQuantizationRange (only EX90)
- ▶ xConfiguration Video Input DVI [n] RGBQuantizationRange

Changed API configurations

- ▶ xConfiguration Audio Volume
 - Renamed to xConfiguration Audio Volume Speaker
- ▶ xConfiguration Audio VolumeHandset
 - Renamed to xConfiguration Audio Volume Handset
- ▶ xConfiguration Audio VolumeHeadset
 - Renamed to xConfiguration Audio Volume Headset
- ▶ xConfiguration Conference [1..1] DefaultCallProtocol
 - H323 has been removed.
- ▶ xConfiguration Network [1..1] IPv6 Assignment
 - Added DHCPv6, options are now: <Static/DHCPv6/Autoconf>
- ▶ xConfiguration Network [1..1] DNS Server [1..n] Address
 - Maximum number of DNS servers reduced from 5 to 3
- ▶ xConfiguration Provisioning Mode
 - TMS, VCS, CallWay and Auto have been removed.
- ▶ xConfiguration SIP Profile [1..1] Type
 - Standard, Alcatel, Avaya, Microsoft and Nortel have been removed.
- ▶ xConfiguration SystemUnit MenuLanguage
 - Added: Dutch, Italian, Korean, Portuguese-Brazilian

- ▶ xConfiguration Video Wallpaper
 - Removed: Growing, Summersky

Removed API configurations

- ▶ xConfiguration Audio Microphones Mute Enabled
- ▶ xConfiguration Cameras Camera [1..1] Mirror
- ▶ xConfiguration Cameras Camera [1..1] Flip
- ▶ xConfiguration Cameras Camera [1..1] IrSensor
- ▶ xConfiguration Conference [1..1] IncomingMultisiteCall Mode
- ▶ xConfiguration Conference [1..1] FarEndControl SignalCapability
- ▶ xConfiguration Conference [1..1] VideoBandwidth Mode
- ▶ xConfiguration Conference [1..1] VideoBandwidth MainChannel Weight
- ▶ xConfiguration Conference [1..1] VideoBandwidth PresentationChannel Weight
- ▶ xConfiguration Conference [1..1] Presentation Policy
- ▶ xConfiguration Conference [1..1] Multipoint Mode
- ▶ xConfiguration H323 NAT Address
- ▶ xConfiguration H323 NAT Mode
- ▶ xConfiguration H323 Profile [1..1] Authentication LoginName
- ▶ xConfiguration H323 Profile [1..1] Authentication Mode
- ▶ xConfiguration H323 Profile [1..1] Authentication Password
- ▶ xConfiguration H323 Profile [1..1] CallSetup Mode
- ▶ xConfiguration H323 Profile [1..1] Gatekeeper Address
- ▶ xConfiguration H323 Profile [1..1] Gatekeeper Discovery
- ▶ xConfiguration H323 Profile [1..1] H323Alias E164
- ▶ xConfiguration H323 Profile [1..1] H323Alias ID
- ▶ xConfiguration H323 Profile [1..1] PortAllocation
- ▶ xConfiguration Network [1..1] RemoteAccess Allow
- ▶ xConfiguration NetworkServices H323 Mode
- ▶ xConfiguration NetworkServices MultiWay Mode
- ▶ xConfiguration NetworkServices MultiWay Address
- ▶ xConfiguration NetworkServices MultiWay Protocol
- ▶ xConfiguration NetworkServices SSH AllowPublicKey
- ▶ xConfiguration NetworkServices HTTPS OCSP URL
- ▶ xConfiguration NetworkServices HTTPS OCSP Mode
- ▶ xConfiguration Security Audit Server Address
- ▶ xConfiguration Security Audit Server Port
- ▶ xConfiguration Security Audit OnError Action
- ▶ xConfiguration Security Audit Logging Mode
- ▶ xConfiguration Security Session ShowLastLogon
- ▶ xConfiguration Security Session InactivityTimeout

- ▶ xConfiguration SerialPort Mode
- ▶ xConfiguration SerialPort BaudRate
- ▶ xConfiguration SerialPort LoginRequired
- ▶ xConfiguration Standby Control
- ▶ xConfiguration Standby WakeupAction
- ▶ xConfiguration Standby BootAction
- ▶ xConfiguration Standby StandbyAction
- ▶ xConfiguration Video Layout Scaling
- ▶ xConfiguration Video Layout ScaleToFrame
- ▶ xConfiguration Video Layout ScaleToFrameThreshold
- ▶ xConfiguration Video Layout LocalLayoutFamily
- ▶ xConfiguration Video Layout RemoteLayoutFamily
- ▶ xConfiguration Video OSD MyContactsExpanded
- ▶ xConfiguration Video OSD LoginRequired
- ▶ xConfiguration Video OSD Mode
- ▶ xConfiguration Video OSD AutoSelectPresentationSource
- ▶ xConfiguration Video OSD TodaysBookings
- ▶ xConfiguration Video OSD Output
- ▶ xConfiguration Video OSD InputMethod InputLanguage
- ▶ xConfiguration Video OSD InputMethod Cyrillic
- ▶ xConfiguration Video Monitors

Resolved caveats

Using the Bug Search Tool

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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.

Resolved since TC5.1.4

Audio

Reference ID	Summary
<i>CSCub08026</i>	One-way audio after Resume in EX90->CUCM->TS call

Camera

Reference ID	Summary
<i>CSCty38897</i>	Camera image intermittently disappears because initialization fails after reboot on EX90 and EX60.

Network

Reference ID	Summary
<i>CSCtz86298</i>	802.1x is not handled correctly on unit with PC port and/ or Touch

Protocol

Reference ID	Summary
<i>CSCtz91531</i>	Black video received because RTP is not decoded until we process the SIP ACK
<i>CSCtz20817</i>	NTP over IPv4 packets not marked with DSCP
<i>CSCua75897</i>	NTP over IPv6 is not supported
<i>CSCua87849</i>	INVITEs including contact header with reg-id rejected
<i>CSCub45073</i>	System is not sending or processing max-fps causing issues when calling system that does not support 60 fps.
<i>CSCty80153</i>	Sip requests using TCP should be responded to on the IP port where the request was received

Reference ID	Summary
<i>CSCub27043</i>	Not possible to dial via directory
<i>CSCtz87452</i>	EX series endpoints cannot use CUCM phone books with numbers including white spaces.

System

Reference ID	Summary
<i>CSCua22057</i> <i>CSCua73240</i>	When the EX90 and EX60 privacy shutter is on, the unit still sends video.
<i>CSCua62842</i>	EX Series - Reboots with graceful shutdown after Multiway "Merge"
<i>CSCty51858</i>	An unregistered endpoint running TC5 or later may unexpectedly restart when attempting to call certain URI's, depending on the DNS server response
<i>CSCty11069</i>	Dual screen connected to an EX90 is black until you have shared presentation in a call.
<i>CSCtx09955</i>	Logs fill up with IPV6 DHCPClient error messages.
<i>CSCua64961</i>	A too long media type, transport or label in sdp may crash the system.
<i>CSCub03016</i>	The output of xstatus Ethernet duplex setting on an EX90 is incorrect. When it is configured for half it still shows full.
<i>CSCtx84402</i>	When VLAN is set to auto, CDP kicks in to learn voice VLAN and dhclient immediately starts to send out DHCPREQ using the IP address it obtained earlier.
<i>CSCtz78119</i>	When log ctx RTPStatistics debug x is turned on, RTP statistics should appear in the application.log
<i>CSCtx65144</i>	Improved system behaviour when configuration is corrupted.
<i>CSCtt44610</i>	TC software executables are not compiled as position-independent executables, providing limited address space layout randomization support.

Touch 8

Reference ID	Summary
<i>CSCtr24575</i>	EX60 shows 'No LAN' if cable is connected to PC port (not to LAN port)

Video

Reference ID	Summary
<i>CSCty35577</i>	Improved an issue where video blacks out using clearpath in p2p calls with packet loss

Known limitations

Cisco

Reference ID	Equipment	Summary
<i>CSCud04924</i>	EX90 and EX60 registered to secure CUCM	If securely registered to CUCM, and downgrading to TC5, registration will fail, because TC5 does not support secure registration to CUCM.
<i>CSCud04863</i>	EX90 and EX60	TFTP Encrypted Config is configurable for EX endpoints running TE6 in CUCM but support is not implemented in software yet.
<i>CSCuc09385</i>	EX90 and EX60 registered to secure CUCM	When doing a factory reset in a secure CUCM environment, the system will not be able to re-register without issuing a new LSC on the CUCM.
<i>CSCuc90663</i>	EX90	EX90 may shut down when you connect a device with high current consumption to the USB ports in the back of the unit.
<i>CSCtr32420</i>	EX90 and EX60	The EX Series does not meet the Cisco password policy. It is highly recommended to set a password on the unit from the web interface during installation.
<i>CSCts29132</i>	EX90	Fans may run at max speed when powered up. Power cables must be unplugged and reinserted to restart fans on normal speed.
<i>N/A</i>	EX90 and EX60	Not possible to start an ad-hoc conference using the Web UI
<i>N/A</i>	EX90	The EX90 will reduce its capability set when using internal MultiSite. When this is done, the dual stream is able to transmit WXGA at maximum until all calls are disconnected.
<i>N/A</i>	EX90 and EX60	The EX60 and EX90 do not support remote control use. The Touch controller must be used to control these devices.
<i>N/A</i>	TMS Scheduling	If Cisco TMS is used for scheduling and conference control, Cisco TMS 13.2.2 or later must be used with endpoints running TE6. Cisco TMS does not support upgrading EX Series endpoints to TE6.

Open caveats

Reference ID	Summary
<i>CSCue06118</i>	If privacy is toggled enabled during a call, barge is still possible.
<i>CSCub86129</i>	No video on CTS endpoint when EX endpoint drops from a 3-party conference and CTS is connected to the other EX endpoint when CUBE is in the call flow.
<i>CSCuc31025</i>	Calling EX90-EX90 at 128kbps ends up as audio call only. Statistics shows 128kbps for audio using acc-ld mono.

Interoperability

The systems below have been tested and verified with this software release.

SIP registrars/proxies

Equipment	Software revision	Comments
CUCM	8.6.2 (23047) 9.0.1 (11003)	

MCU interoperability

Equipment	Software revision	Comments
Cisco MCU 4500 Series	4.3(1.68)	
Cisco CTMS	1.9.1.0(68)	
RadVision Scopia Elite	7.5.0.18.6	

Endpoint Interoperability

Equipment	Software revision	Protocol	Comments
Cisco CTS 500 Cisco CTS 1300 Cisco TX9000	CTS.1-9-2-19D-K9	SIP	
Cisco TelePresence Codec C-series	TC5.1.4	SIP	
Cisco TelePresence System MXP	F8.3, F9.1	SIP	
TANDBERG Personal Series	L5.1, L6.1	SIP	If you dial a TANDBERG 150 with software version L5.1.1 or older with encryption setting set to 'on', you may not get audio in any direction.
Cisco IP Video Phone E20	TE4.0, TE4.1	SIP	
LifeSize Express	LS_EX1_4.7.21 (4)	SIP H.323 (interworked)	Far end camera control does not work after hold and resume. H.323 (interworked): Some issues observed with presentation in Multisite
LifeSize Passport	LS_PP1_4.8.11.1 (16)	H.323 (interworked)	Some issues observed with presentation in Multisite.
Polycom HDX 8000 HD	3.0.5	H.323 (interworked)	When the Polycom device starts the call, we believe we receive presentation and display black presentation immediately after call setup. Presentation (BFCP) does not work for SIP calls if initiated from the Cisco side.

References and related documents

The following table lists documents and web sites referenced in this document. All product documentation can be found on our [web site](#)

Name	Document reference
Cisco website	http://www.cisco.com
Cisco Software Download	http://www.cisco.com/cisco/software/navigator.html?i=lch
Cisco EX Series User Documentation	http://www.cisco.com/go/ex-docs

Software filenames

The correct software filename is listed in the following table.

Cisco TelePresence System	Software for EX90 and EX60
AES Encryption software for CUCM	cmterm-ex-te6_0_2.cop.sgn

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