



Cisco TelePresence Conductor XC2.0

Release Notes
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Introduction

These release notes describe the features and capabilities included in the Cisco TelePresence Conductor software version XC2.0.

The Cisco TelePresence Conductor XC2.0 operates with either Cisco TelePresence Video Communication Servers (VCSs) or Cisco Unified Communications Managers (Unified CMs) and one or more pools of conference bridges (Cisco TelePresence MCUs or Cisco TelePresence Servers) to provide conference services to users. The TelePresence Conductor allows administrators to better utilize their conference bridge infrastructure by allowing conferences to be hosted on the most appropriate conference bridge and dynamically cascade conferences across multiple conference bridges as conference size increases.

The Cisco VCS receives the call, communicates with TelePresence Conductor to identify how to route the call, and then places the call as directed. Endpoint users access conferences simply by dialing a specified conference alias.

Alternatively, Unified CM communicates with TelePresence Conductor to allow endpoint users to make either rendezvous calls (where users dial a specified conference alias) or add additional endpoint users into an ad hoc conference.

The TelePresence Conductor is designed to be used alongside

- call control devices
 - Cisco VCS Control or Expressway version X7.0 or later
 - Unified CM version 8.6.2 or later
- conference bridges
 - Cisco MCU 5300 series running software version 4.3 (2.30) or later
 - Cisco MCU 4200 series, 4500 series, and MSE8000 blades 8420 and 8510 running software version 4.2 or later
 - Cisco TelePresence Server 7010 series and MSE 8710 version 3.0 (2.46) or later
- any standards-compliant SIP or H.323 endpoints

Product documentation

The following documents provide guidance on installation, initial configuration, and operation of the product:

- [*Cisco TelePresence Conductor Administrator Guide*](#)
- [*Cisco TelePresence Conductor Getting Started Guide*](#)
- [*Cisco TelePresence Conductor Virtual Machine Deployment Guide*](#)
- [*Cisco TelePresence Conductor with Cisco TelePresence Video Communication Server Deployment Guide*](#)
- [*Cisco TelePresence Conductor with Cisco Unified Communications Manager Deployment Guide*](#)
- [*Cisco TelePresence Conductor Clustering with Cisco TelePresence VCS Deployment Guide*](#)
- [*Cisco TelePresence Conductor Clustering with Cisco Unified CM Deployment Guide*](#)
- [*Cisco TelePresence Conductor Geographic Cascading Deployment Guide*](#)

New features in XC2

New features in XC2.0

Cisco TelePresence Server support

A new conference bridge type of Cisco TelePresence Server is supported in this release of the TelePresence Conductor. Conference bridge pools can now be made up of either TelePresence Servers or TelePresence MCUs.

Cisco Unified Communications Manager support

The TelePresence Conductor now supports direct connection to Cisco Unified Communications Manager for Ad hoc and Rendezvous calls. Endpoints can be registered with either Unified CM or Cisco VCS and call into the same conference.

Addition of multiple IP addresses

Multiple IP addresses can be added on TelePresence Conductor. A different IP address is needed on the TelePresence Conductor for each Ad hoc Unified CM location and each Rendezvous Unified CM location. This allows the TelePresence Conductor to mimic Unified CM's expectation that it is connecting to separate conference bridges in each location, for Ad hoc and Rendezvous calls.

Known and unknown multiscreen endpoint support for TelePresence Server conferences

The TelePresence Conductor supports endpoints with more than one screen in conferences hosted on TelePresence Servers.

Cisco TelePresence System (CTS) series endpoints, including Cisco TelePresence System T3, can be pre-configured, in which case they will be allocated the resources defined for the endpoint, or supported without pre-configuration, in which case they will be allocated the resources defined for the conference template.

Other customized multiscreen endpoints have to be pre-configured if sufficient resources are to be allocated on the TelePresence Servers used in the relevant conferences.

Support for third-party and customized multiscreen TelePresence systems (i.e. those other than CTS3xxx, TX9000 or T3) require the optional third-party interop key on the TelePresence Server.

Resource optimization

Resource optimization allows resources that are initially over-allocated on a TelePresence Server to be recovered and re-allocated for other participants, allowing more participants to be handled by a single TelePresence Server.

XMLRPC API support to communicate between Cisco TMS and TelePresence Server 3.0

The TelePresence Conductor API now has support added to translate information being sent between Cisco TelePresence Management Suite and TelePresence Server version 3.0 running in 'Remotely managed' mode. See *Cisco TelePresence Management Suite Release Notes* for information on when this support has been added to the Cisco TMS.

Improvements to logging

Filtered event logs can now be downloaded from the UI.

It is possible to specify the remote syslog server mode as one of the following:

- Legacy BSD format
- IETF syslog format
- IETF syslog using TLS connection
- Custom

The Configuration Log page provides a list of all changes to the TelePresence Conductor configuration, providing users with an audit trail of the TelePresence Conductor configuration.

System Administration session timeout and limits

It is now possible to set a session time out, as well as limits for concurrent sessions and concurrent logins per administrator account for web, SSH and serial sessions.

Certificate signing request (CSR)

The TelePresence Conductor can now generate server certificate signing requests, which removes the need to use an external mechanism to generate and obtain certificate requests.

Firewall rules

Firewall rules can now be added to the TelePresence Conductor, which provide the ability to configure IP table rules to control access to the TelePresence Conductor at the IP level.

Addition of multiple administrator accounts

It is now possible to add multiple administrator accounts with pre-determined access level settings.

Other changes and improvements

Improvements have been made to the TelePresence Conductor web interface.

Resolved issues

Resolved in XC2.0

The following issues were found in previous releases and were resolved in XC2.0:

Identifier	Description
CSCub46878	<p>Symptom: Maximum latency for Telepresence Conductor is not documented.</p> <p>Diagnosis: None.</p> <p>Versions affected: XC1.2</p> <p>Workaround: None.</p>
CSCua01811	<p>Symptom: Cannot load "trusted CA certificates file" onto Conductor via the web interface.</p> <p>Diagnosis: None.</p> <p>Versions affected: XC1.2</p> <p>Workaround: Load "trusted CA certificates file" onto Conductor using SCP.</p>
CSCub84541	<p>Symptom: Logins on the web can be slow to complete.</p> <p>Diagnosis: When remote authentication is enabled, all logins (not just remote users) can be delayed by many seconds if the LDAP server is slow to respond.</p> <p>Versions affected: XC1.2</p> <p>Workaround: None, however delays from the LDAP server are outside the control of the Conductor.</p> <p>Additional Information: The fix in X8.0 disables LDAP checks for local users, removing local user delays. Remote user delays will still exist if the LDAP server is slow to respond, but this is outside the control of the Conductor.</p>

Open issues

The following issues apply to this version of the Cisco TelePresence Conductor.

Identifier	Description
CSCuc88654	<p>Symptom: Conductor won't use video ports for audio calls when it runs out of audio ports.</p> <p>Diagnosis: If you run out of audio ports on an MCU then the next audio participant can use a video port if available. Currently Conductor does not support this and just keeps track of video ports.</p> <p>Versions affected: XC2.0</p> <p>Workaround: None.</p>
CSCud10101	<p>Symptom: Autodialled participant calls which are configured not to "keep conference alive" can be left in a conference if participants try but fail to enter the conference, or no chair participants arrive on a lecture conference.</p> <p>Diagnosis: As above.</p> <p>Versions affected: XC2.0</p> <p>Workaround: Ensure that there is a maximum duration on any conferences that this may affect.</p>

Limitations

The TelePresence Conductor XC2.0 supports up to:

- 30 conference bridges
- 30 conference bridge pools
- 30 Service Preferences
- 1000 conference templates
- 1000 conference aliases
- a maximum of 2400 concurrent calls
- a maximum of 104 concurrent calls per cluster of TelePresence Server blades
- conference bridge types of Cisco TelePresence MCU and Cisco TelePresence Server
- conference cascading on TelePresence MCUs only

It does not support:

- T3 point to point calls escalated to a conference functionality
- conference cascading on TelePresence Servers
- auto-dialed participants that are multiscreen endpoints
- advanced parameters for auto-dialed participants that are part of conferences hosted on TelePresence Servers

Upgrading to XC2.0

Note that you will need a release key if you are upgrading to a new major release (for example from XC1.2 to XC2.0). It is not required for dot releases (for example from XC1.1 to XC1.2).

Upgrading a standalone TelePresence Conductor

To upgrade a TelePresence Conductor that is not in a cluster the following procedure should be followed:

1. Stop the Cisco VCS from sending requests to TelePresence Conductor.
2. Log into the TelePresence Conductor web interface.
3. Create a backup of your configuration.
4. Upgrade using the **Upgrade** page (**Maintenance > Upgrade**) as described in the Administrator guide.

Upgrading a cluster of TelePresence Conductors

To upgrade a cluster of TelePresence Conductors the following procedure should be followed:

1. Remove the TelePresence Conductor that should be upgraded from the cluster, as described in the *Cisco TelePresence Conductor Clustering with Cisco Unified CM Deployment Guide* or in the *Cisco TelePresence Conductor Clustering with Cisco VCS Deployment Guide*.
2. Log into the web interface.
3. Create a backup of your configuration.
4. Upgrade using the **Upgrade** page (**Maintenance > Upgrade**) as described in the Administrator guide.

Interoperability

Equipment	Minimum software version	Comments
Cisco TelePresence Video Communication Server (VCS)	X7.0	
Cisco TelePresence MCU 4200 series	4.2	
Cisco TelePresence MCU 4500 series	4.2	
Cisco TelePresence MSE8000 blades 8420 and 8510	4.2	
Cisco TelePresence MCU 53XX series	4.3 (2.30)	All other MCUs used by the same TelePresence Conductor need to be running release 4.3(2.18) or later
Cisco TelePresence Management Suite	13.1.2	TMS version 14.1 and XC1.2 are required to support scheduling on TelePresence Conductor
Cisco Unified Communications Manager	8.6.2	
Cisco TelePresence Server	3.0 (2.46)	TelePresence Server needs to be running in 'Remotely managed' mode.

Using the Bug Search Tool

The Bug Search Tool contains information about open and resolved issues for this release and previous releases, including descriptions of the problems and available workarounds. The identifiers listed in these release notes will take you directly to a description of each issue.

To look for information about a specific problem mentioned in this document:

1. Using a web browser, go to the [Bug Search Tool](#).
2. Sign in with a cisco.com username and password.
3. Enter the bug identifier in the Search field and click **Search**.

To look for information when you do not know the identifier:

1. Type the product name in the **Search** field and click **Search**.
2. From the list of bugs that appears, use the **Filter** drop-down list to filter on either *Keyword*, *Modified Date*, *Severity*, *Status*, or *Technology*.

Use **Advanced Search** on the Bug Search Tool home page to search on a specific software version.

The Bug Search Tool help pages have further information on using the Bug Search Tool.

Third-party software included in TelePresence Conductor

Third-party software used in the TelePresence Conductor includes:

Third-party software	Version
Apache	2.4.2
OpenSSL	1.0.1c

Document revision history

Date	Revision	Description
2012-12-12	01	Release of Cisco TelePresence Conductor XC2.0

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