Interoperability in Cisco TelePresence Point-to-Point Calls

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Contents

Supported Point-to-Point Interoperability Environments

- The point-to-point interoperability environments can include "other Cisco or third-party interoperability endpoints," which are outlined in the *Interoperability Between CTS Endpoints and Other Endpoints or Devices* and available at the following location:
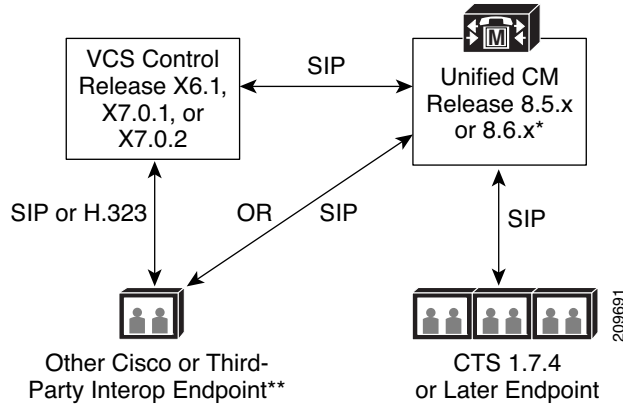
    http://www.cisco.com/en/US/docs/telepresence/interop/endpoint_interop.html

    The description of each environment includes a summary of maximum video quality, audio, security, and presentation sharing, which are defined as follows:

- Maximum video quality—The maximum video quality used during the interop call:

    - Maximum video resolution for an interop call is 720p.

    - Video can be negotiated to a lower supported resolution that is based on the capabilities or configuration of the other endpoint.

    - Video for all interop calls is sent at 30 frames per second (fps) and received at a maximum of 30 fps.

- Audio—The audio format used during the interop call.

- Security—The security level of the interop call, which can be secure or non-secure.

- Presentation sharing—The method used for presentation sharing. For more information, see Chapter 3, "Presentation Sharing in Cisco TelePresence Meetings."

Scenario 1

Figure 1-1   Point-to-Point Call, Scenario 1: Endpoints Registered With VCS Control and Unified CM

* To support CTS 1.7.4 through 1.7.6 endpoints
and also endpoints that use BFCP for presentation
sharing, you must run Unified CM release 8.6(2a)SU1.
A CTS 1.9.0 endpoint must be registered with Unified CM
release 8.6.1 or 8.6(2a)SU.
**A Cisco TelePresence TC 5.x endpoint must
be registered with Unified CM release 8.6.x.

Note   If the other Cisco or third-party interop endpoint uses SIP, the media flow is between the two endpoints. If the other interop endpoint uses H.323, the media flow is through VCS Control.

Table 1-1 outlines the supported capabilities of the CTS endpoints. For information about the tested capabilities during calls between a CTS endpoint and the other interop endpoint, see the *Interoperability Between CTS Endpoints and Other Endpoints or Devices*, which is available at the following location:

http://www.cisco.com/en/US/docs/telepresence/interop/endpoint_interop.html

Table 1-1   CTS Capabilities for Point-to-Point Call, Scenario 1: Endpoints Registered With VCS Control and Unified CM

Endpoint	Maximum Video Quality	Audio	Security	Presentation Sharing
CTS 1.7.4 through 1.7.6	Main Video: Up to 720p	G.722/G.711	Non-secure	Switched Presentation Send and receive XGA

Table 1-1   CTS Capabilities for Point-to-Point Call, Scenario 1: Endpoints Registered With VCS Control and Unified CM (continued)

Endpoint	Maximum Video Quality	Audio	Security	Presentation Sharing
CTS 1.8.*x*	Main Video: Up to 720p	G.722/G.711	Secure	BFCP or Switched Presentation Send: XGA Receive: XGA, SVGA, and VGA
CTS 1.9.0	Main Video: Up to 720p	G.722/G.711	Secure	BFCP or Switched Presentation **CTS 500-32, CTS 1300-47, CTS TX1310 65, CTS TX9000, and CTS TX9200** Send and Receive: XGA, SVGA, and VGA **All Other CTS Endpoints** Send: XGA Receive: XGA, SVGA, and VGA

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Table 1-2   CTS 1.8.x and 1.9.0 Endpoints: Main/Presentation Video Receive Resolutions For Point-to-Point Calls

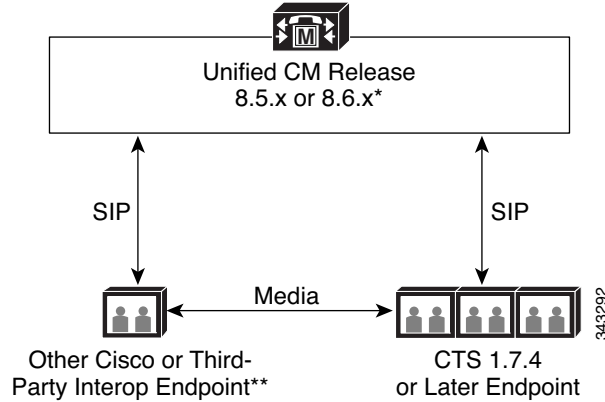| Standard	Supported Resolution	Tested For Main Video?	Tested For Presentation Video?
720p[1]	1280 x 720	Yes	N/A
XGA	1024 x 768	Yes	Yes
w576p	1024 x 576	Yes	Yes
–	912 x 512	No	N/A
–	848 x 480	No	No
Standard SVGA	800 x 600	Yes	Yes
–	800 x 448	No	N/A
w448p	768 x 448	Yes	N/A
–	720 x 400	No	N/A
4SIF	704 x 576	No	N/A
4CIF	704 x 480	No	N/A
VGA	640 x 480	Yes	Yes
360p	640 x 368	Yes	N/A
448p	576 x 448	Yes	N/A
wCIF	512 x 288	Yes	N/A
CIF	352 x 288	Yes	N/A
SIF	352 x 240	Yes	N/A
QVGA	320 x 240	No	N/A
–	256 x 144	Yes	N/A
QCIF	176 x 144	Yes	N/A

1. Applies to main video only and not presentation video.

Table 1-3   ***CTS 1.8.x and 1.9.0 Endpoints: Main Video Send Resolutions for Point-to-Point Calls***

Standard	Supported Resolution	Tested For Main Video?
720p	1280 x 720	Yes
360p	640 x 368	Yes
CIF	352 x 288	Yes
SIF	352 x 240	Yes

Scenario 2

Figure 1-2   Point-to-Point Call, Scenario 2: Endpoints Registered With Unified CM Only

* To support CTS 1.7.4 through 1.7.6 endpoints
  and also endpoints that use BFCP for presentation
  sharing, you must run Unified CM release 8.6(2a)SU1.
  A CTS 1.9.0 endpoint must be registered with Unified CM
  release 8.6.1 or 8.6(2a)SU.
**A Cisco TelePresence TC 5.x endpoint must
  be registered with Unified CM release 8.6.x.

Table 1-4 outlines the supported capabilities of the CTS endpoints. For information about the tested capabilities during calls between a CTS endpoint and the other interop endpoint, see the *Interoperability Between CTS Endpoints and Other Endpoints or Devices*, which is available at the following location:

http://www.cisco.com/en/US/docs/telepresence/interop/endpoint_interop.html

Table 1-4   CTS Capabilities for Point-to-Point Call, Scenario 2: Endpoints Registered With Unified CM Only

Endpoint	Maximum Video Quality	Audio	Security	Presentation Sharing
CTS 1.7.4 through 1.7.6	Main Video: Up to 720p	G.722/G.711	Non-secure	Switched Presentation Send and receive XGA
CTS 1.8.*x*	Main Video: Up to 720p	G.722/G.711	Secure	BFCP or Switched Presentation Send: XGA Receive: XGA, SVGA, and VGA
CTS 1.9.0	Main Video: Up to 720p	G.722/G.711	Secure	BFCP or Switched Presentation **CTS 500-32, CTS 1300-47, CTS TX1310 65, CTS TX9000, and CTS TX9200** Send and Receive: XGA, SVGA, and VGA **All Other CTS Endpoints** Send: XGA Receive: XGA, SVGA, and VGA

For information about main/presentation video receive resolutions for CTS 1.8.*x* and 1.9.0 endpoints, see Table 1-2 on page 1-3. For information about main video send resolutions for CTS 1.8.*x* and 1.9.0 endpoints, see Table 1-3 on page 1-4.