KNOWLEDGE BASE ARTICLES

- Codec C Series
- EX Series
- MX Series
- Profile Series
- SX Series
- Precision Cameras
- TRC Remote Controls
Thank you for choosing Cisco!

Your Cisco product has been designed to give you many years of safe, reliable operation.

The articles in this Knowledge Base give advice on installation, interoperability, configuration, firewalls, and many other frequently asked questions.

Our main objective is to address your goals and needs. Please let us know how well we succeeded!

May we recommend that you visit the Cisco web site regularly for updated versions of this guide.

The user documentation can be found on http://www.cisco.com/go/telepresence/docs.

How to use this guide

The top menu bar, the entries in the Table of Contents, and the entries in the question lists are all hyperlinks. You can click on them to go to the topic.

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Chapter 1

Introduction
About this guide

Several small articles related to the Cisco TelePresence products listed below are gathered in this Knowledge Based document. Most of the articles are in question/answer format and cover installation, interoperability, configuration, firewalls, and many other frequently asked questions.

Products covered in this guide

- Codec C Series:
  - Cisco TelePresence Codec C20
  - Cisco TelePresence Codec C40
  - Cisco TelePresence Codec C60
  - Cisco TelePresence Codec C90

- EX Series:
  - Cisco TelePresence EX90
  - Cisco TelePresence EX60

- MX Series
  - Cisco TelePresence MX200
  - Cisco TelePresence MX300
  - Cisco TelePresence MX200 G2
  - Cisco TelePresence MX300 G2
  - Cisco TelePresence MX700
  - Cisco TelePresence MX800

- Profile Series using Codec C Series:
  - Cisco TelePresence Profile 42"
  - Cisco TelePresence Profile 52"/ 55"
  - Cisco TelePresence Profile 52" Dual/ 55" Dual
  - Cisco TelePresence Profile 65"
  - Cisco TelePresence Profile 65" Dual

- Quick Set Series
  - Cisco TelePresence SX10 Quick Set
  - Cisco TelePresence SX20 Quick Set
  - Cisco TelePresence SX80

- Touch Series
  - Cisco TelePresence Touch 8
  - Cisco TelePresence Touch 10

- Precision Camera:
  - Cisco TelePresence SpeakerTrack 60 Camera
  - Cisco TelePresence Precision 60 Camera
  - Cisco TelePresence PrecisionHD 1080p2.5x
  - Cisco TelePresence PrecisionHD 1080p4x S2
  - Cisco TelePresence PrecisionHD 1080p4x
  - Cisco TelePresence PrecisionHD 1080p12x

- Remote Controls:
  - Cisco TelePresence Remote Control 5
  - Cisco TelePresence Remote Control 6

Software

You can download the software for your product from the Cisco web site, go to:

http://www.cisco.com/cisco/software/navigator.html
Chapter 2

Questions
Questions by category

The questions in this knowledge base are listed by category below. The article numbers are used as a reference only. Many of these articles apply to multiple product series.

Audio

325: There is no audio coming out from my codec when it is connected to my monitor with a HDMI cable, why?

326: The audio on the dual stream is out of sync with the dual stream video, why?

624: Can I use the Cisco TelePresence Performance Mic 20 external microphone on the EX and MX video systems?

692: Why can I hear my own voice in the speakers when I am using a Cisco TelePresence video system?

696: What kind of external speakers can I use with the C20 and SX20 codecs?

Cables

307: What is the maximum length of the HDMI cable connecting a codec to a monitor?

308: What is the maximum length of the cable between a codec and a camera when using HD-SDI?

609: My computer is connected to the DVI-I input of the EX90, but the desktop is not displayed on the screen. Why?

610: What resolutions does the EX90 support on the DVI-I PC-screen input? MX video systems?

673: Are there any requirements or limitations on the length of the Ethernet cable when connecting the Touch 8 or Touch 10 to a codec?

Camera

303: My C Series Codec does not seem to boot up (no video is displayed on the monitor), why?

332: I installed a second PrecisionHD 1080p Camera on my C Series codec, but I am unable to control it. Why?

333: I installed a video camera to the video input number 2 on my C90 using component video, now I am not able to get any video when I activate this source. Why?

703: Can the PrecisionHD 1080P 12x camera and PrecisionHD 1080 4xS2 camera work with the SX80 codecs?

705: Can the SpeakerTrack 60 camera be mounted upside down?

707: Can I use both the HDMI and 3G-SDI output at the same time from the Precision 60 Camera?

Configuration

300: The monitor does not go to standby mode when it is connected to a codec.

302: How do I change the output for my On Screen Display (OSD) from HDMI1 to another output when the system is used with the TRCV remote control?

303: My C Series Codec does not seem to boot up (no video is displayed on the monitor), why?

311: How do I enable HTTPS on my video system?

313: I changed the video output on my codec to a new resolution not supported by the monitor, how do I revert this?

315: How do I place a call from the GUI on the video system without changing the default dial protocol?

319: My monitor displays the image from my codec outside of the monitor frame, why?

321: I lost some of my settings after I powered down my codec. Why?

325: There is no audio coming out from my codec when it is connected to my monitor with a HDMI cable, why?

329: Why can I only place point-to-point calls on my codec?

330: How do I install the MultiSite option key?

332: I installed a second PrecisionHD 1080p Camera on my C Series codec, but I am unable to control it. Why?
333: I installed a video camera to the video input number 2 on my C90 using component video, now I am not able to get any video when I activate this source. Why?

363: Is transcoding supported for the H.239/dual stream?

524: Are there any shortcuts on the TRCV remote control?

528: Which resolutions do the video systems support at 60 fps?

545: Can I deploy endpoints from outside the enterprise network, for example, from a home office or remote office without VPN connection?

558: How do I record my video calls?

609: My computer is connected to the DVI-I input of the EX90, but the desktop is not displayed on the screen. Why?

610: What resolutions does the EX90 support on the DVI-I PC-screen input?

611: Can I run MultiSite on EX and MX video systems?

617: Which provisioning mode do the codes support?

620: Can I send content on the EX90 using HDMI 1 as input source?

622: Can I use the MX and EX systems as a USB hub?

630: I have the C40 DVI output configured as a second monitor, but when connecting to the DVI-I output on the C40 codec, nothing is displayed on the screen. Why?

631: When connecting to the second HDMI output on the Cisco TelePresence Codec C20, C40, SX20 or EX90, nothing is displayed on the screen. Why?

662: What should I do before contacting TAC?

687: How can I set up self view in full screen mode on my secondary monitor?

695: Which configurations on my video system require a reboot to take effect?

701: Which systems do not support H.323?
**Questions and answers**

### Touch controller and remote control

- **524**: Are there any shortcuts on the TRCV remote control?
- **643**: The call is disconnected when I pick up the handset of the Touch 8 on my EX90 and EX60. Why?
- **668**: Which TelePresence endpoints support the Touch 8, and which TelePresence Endpoints have it as the standard user interface?
- **670**: Do all of the Touch 8 controllers support the use of handset for audio?
- **673**: Are there any requirements or limitations on the length of the Ethernet cable when connecting the Touch 8 or Touch 10 to a codec?
- **674**: What is the difference between the Touch 8 controller for EX Series, SX20 and C Series?
- **675**: Do the Touch 8 and Touch 10 controller’s come in a wall mount version?
- **676**: Can I connect more than one Touch 8 to a Cisco TelePresence video system?
- **677**: Can I use both the Touch 8 and the remote control at the same time?
- **698**: Can I connect more than one Touch 10 to a Cisco TelePresence video system?
- **709**: Which TelePresence endpoints support the Touch 10, and which TelePresence Endpoints have it as the standard user interface?

### Video

- **302**: How do I change the output for my On Screen Display (OSD) from HDMI1 to another output when the system is used with the TRCV remote control?
- **303**: My C Series Codec does not seem to boot up (no video is displayed on the monitor), why?
- **318**: My Pioneer plasma monitor does not display the image correctly from my codec. Why?
- **319**: My monitor displays the image from my codec outside of the monitor frame, why?
- **326**: The audio on the dual stream is out of sync with the dual stream video, why?
- **333**: I installed a video camera to the video input number 2 on my C90 using component video, now I am not able to get any video when I activate this source. Why?
- **528**: Which resolutions do the video systems support at 60 fps?
- **609**: My computer is connected to the DVI-I input of the EX90, but the desktop is not displayed on the screen. Why?

### Other

- **610**: What resolutions does the EX90 support on the DVI-I PC-screen input?
- **611**: Can I run MultiSite on EX and MX video systems?
- **630**: I have the C40 DVI output configured as a second monitor, but when connecting to the DVI-I output on the C40 codec, nothing is displayed on the screen, why?
- **631**: When connecting to the second HDMI output on the Cisco TelePresence Codec C20, C40, SX20 or EX90, nothing is displayed on the screen, why?
- **662**: What should I do before contacting TAC?
- **667**: My computer is connected to the DVI-I input, but the desktop is not displayed on the screen. Why?
- **699**: Can the SX80 DVI-I output support Composite or S-Video?
- **702**: Which codecs support MultiWay(VCS)?
- **708**: Which codec supports the H.265 protocol?
Chapter 3

Questions and answers
300: The monitor does not go to standby mode when it is connected to a codec.

When a codec goes to standby, all monitor outputs are disabled. Some consumer monitors do however not go into standby when they receive no video on the HDMI input. In the newer releases TC4.2 and higher, we have implemented CEC (Consumer Electronics Control). This allows the codec to signal standby to a monitor.

 Applies to the following products:
 - SX10 Quick Set
 - SX20 Quick Set
 - SX80
 - Codec C20
 - Codec C40
 - Codec C60
 - Codec C90

302: How do I change the output for my On Screen Display (OSD) from HDMI1 to another output when the system is used with the TRCV remote control?

Configuring the OSD output from the menu on screen
You can change this in the GUI through the administrator settings. From the Home menu select Settings > Administrator settings > Advanced configuration > Video > OSD and set Output to the relevant video output.

Configuring the OSD output using an API command
You can use an API command to set the OSD output to the relevant video output. Log in as admin using SSH (secure shell) and execute the command:

```
xConfiguration Video OSD Output: <1-4>
```

Configuring the OSD output using the remote control
You can use a special sequence on the remote control.

Use the remote control to enter the following sequence: `Disconnect-key * # * # 0 X #` where X = the video output where you want to display the OSD.

- X = 1 for HDMI 1
- X = 2 for DVI 2 (HDMI 2 for C20)
- X = 3 for HDMI 3
- X = 4 for DVI 4

In addition to changing the OSD output it also resets the output to default resolution, which is XGA for DVI and 720p for HDMI.

 Applies to the following products:
 - SX10 Quick Set
 - Codec C20
 - Codec C40
 - Codec C60
 - Codec C90

Related questions:
313: I changed the video output on my codec to a new resolution not supported by the monitor, how do I revert this?
524: Are there any shortcuts on the TRCV remote control?

303: My C Series Codec does not seem to boot up (no video is displayed on the monitor), why?

Check the monitor
Check to make sure that the monitor is turned on and connected to the codec.

Check the camera cable
Check to make sure you have not plugged the RJ45 end of the camera cable into the Ethernet port of the camera.

 Applies to the following products:
 - SX10 Quick Set
 - SX20 Quick Set
 - SX80
 - Codec C20
 - Codec C40
 - Codec C60
 - Codec C90

Related questions:
662: What should I do before contacting TAC?
307: What is the maximum length of the HDMI cable connecting a codec to a monitor?

The HDMI cable going from the Cisco TelePresence Codec to the monitor can be up to 15 meters/50 feet long. This requires a good quality category 2 cable. Longer extensions are possible using HDMI/DVI extenders.

**Applies to the following products:**
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90

308: What is the maximum length of the cable between a codec and a camera when using HD-SDI?

The maximum length the HD-SDI supports is 100 meters/330 feet.

**Applies to the following products:**
- Codec C90

311: How do I enable HTTPS on my video system?

From TC6.0 onwards the system auto-generates a self-signed HTTPS certificate. The system must have a name set, in order for this to work. This enables you to use HTTPS without any configuration. You can still upload your own certificate by following the below steps.

You have to upload a certificate in PEM format. This can be done using the web interface of the Cisco TelePresence Codec:

1. Open a web browser and enter the **IP address** or **DNS name** to connect to the Cisco TelePresence Codec by HTTP.
2. Select the **Upload certificates** tab.
3. Select **Configuration > Security > Certificates** tab.
4. Click **Browse...** and locate the certificate files (.PEM).
5. Enter the **Private Key** (optional)
6. Enter the **Passphrase** (optional)
7. Click the **Add Certificate** button to start the certificate installation.

**Applies to the following products:**
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90
313: I changed the video output on my codec to a new resolution not supported by the monitor, how do I revert this?

Configuring the OSD output using the TRC V remote control
You can use a special sequence on the remote control.
Use the remote control to enter the following sequence: 'Disconnect-key * # * # 0 X #'
where X = the video output where you want to display the OSD.
- X = 1 for HDMI 1
- X = 2 for DVI 2 (HDMI 2 for C20)
- X = 3 for HDMI 3
- X = 4 for DVI 4
In addition to change the OSD output it also resets the output to default resolution, which is XGA for DVI and 720p for HDMI.

Configuring the OSD output using an API command
You can use an API command to set the OSD output to the relevant video output.
Log in as Admin using SSH (secure shell) and execute the command:
```
xConfiguration Video OSD Output: <1-4>
```

Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90

315: How do I place a call from the GUI on the video system without changing the default dial protocol?

In the Call menu, enter sip: or h323 before the URI/H323 ID, for example: sip:name@company.com
To see the default dial protocol options, open the Home menu and go to Settings > Administrator settings > Advanced configuration > Conference 1 > DefaultCall > Protocol.
On the Touch controller, enter More > settings menu and go to Administrator settings > Call Settings.

Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90

318: My Pioneer plasma monitor does not display the image correctly from my codec. Why?

Some of the Pioneer monitors must be set to PC mode to display the image correctly. Consult the Pioneer monitors user manual for further information.

Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- EX60
- EX90
319: My monitor displays the image from my codec outside of the monitor frame, why?

Most monitors over-scan TV resolutions such as 720p and 1080p. To fix this, you must go into the monitor’s menu system and find the setting to avoid this. Different monitors use different terms but you should look for something like: Just Scan, Pixel by Pixel or Underscan.

Some monitors only have this option for the native resolution of the display, therefore if you can’t find it, go to the codec’s administrator settings menu and change the video output resolution and then try again. To set the resolution for the video output HDMI 1, open the Home menu and go to Settings > Administrator settings > Advanced configuration > Video > Output > HDMI 1 (or 3) and set the Resolution.

Some monitors do not have this setting at all. Then you can use the VGA input of the monitor and select a PC resolution from the administrator settings menu. Set video output resolution to 1024×768 (XGA), 1280×1024 (SXGA) or 1360×768 (WXGA) (only applicable for the C60 and C90). To set the resolution for the video output DVI 2, open the Home menu and go to Settings > Administrator settings > Advanced configuration > Video > Output > DVI 2 (or 4) and set the Resolution.

Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90

321: I lost some of my settings after I powered down my codec. Why?

It takes quite some time for the codec to synchronize the current configuration with the stored startup configuration. Do not restart the codec using the power button immediately after a recent configuration change. Wait at least one minute before powering down the system using the power switch.

Note: It is recommended to reboot the system from the menu on screen. To do this, open the Home menu and go to Settings > Restart. This also synchronizes the configurations ensuring no data is lost. This same process can be done to restart the system using your Touch controller.

Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90

325: There is no audio coming out from my codec when it is connected to my monitor with a HDMI cable, why?

Check whether the video output resolution for HDMI 1 is set to 800×600 or 1900×1200. Due to an issue with these two resolutions we are running them in DVI mode (DVI over HDMI), and the DVI mode does not support audio. To check or change the video output resolution, open the Home menu and go to Settings > Administrator settings > Advanced configuration > Video > Output > HDMI 1 > Resolution.

To fix this you can:
1. Select another video output resolution for HDMI 1
2. or, use the audio from Audio Line Out 1 and 2.

Applies to the following products:
- SX20 Quick Set
- Codec C20
- Codec C40
- Codec C60
- Codec C90
326: The audio on the dual stream is out of sync with the dual stream video, why?

The Cisco TelePresence Codecs do not support lip-sync (synchronizing audio and video) on the dual channel. The audio is only synchronized with the main stream. Currently lip-sync for the second stream is not supported by the H.239 standard defining dual streams for H.323.

 Applies to the following products:
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90

329: Why can I only place point-to-point calls on my codec?

You need to have the MultiSite option installed to place MultiSite calls.

Check your options from the System information menu
1. Open the Home menu and go to: Settings > System information.
2. Make sure MultiSite is listed in the Software > Options installed

Check your options using the web interface
Enter the IP address of your codec on a web browser
1. Select Configurations and Advanced Configurations.
2. From the menu on the left select Conference 1.
3. In the scroll down menu for IncomingMultisiteCall Mode select Allow.

Check your options using an API command
Log into the video system as admin using SSH (Secure Shell):
1. Execute the API command:
   ```
   xStatus SystemUnit
   ```
2. Make sure the MultiSite option is listed as True.

 Applies to the following products:
- SX20 Quick Set
- SX80
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90

Related questions:
330: How do I install the MultiSite option key?
330: How do I install the MultiSite option key?
Incoming MultiSite Call is allowed as a default setting. If the Incoming MultiSite Call is disabled, it can be turned back on.
Follow the instructions below to turn on Incoming MultiSite Call option using the web interface:

1. Enter the IP address of your codec on a web browser
2. Select Configurations > System Configuration.
3. Select Conference from the menu on the left.
4. In the scroll down menu for Incoming MultiSite Call Mode select Allow.

Follow the instructions below for using the web interface:
1. Enter the IP address of your codec on a web browser
2. Select Maintenance > Option Key.
3. Reboot the codec.

Applies to the following products:
- SX20 Quick Set
- SX80
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX90

Related questions:
329: Why can I only place point-to-point calls on my codec?
611: Can I run MultiSite on EX and MX video systems?

332: I installed a second PrecisionHD 1080p Camera on my C Series codec, but I am unable to control it. Why?
To control the second camera you need to use a VISCA cascading cable. The VISCA cascading cable connects the first camera to the second camera and can be ordered from Cisco. You need to configure the video input source to set which camera you should control, when this particular video input source is active:
1. Login to the codec as admin using SSH (Secure Shell).
2. To configure the second camera to be connected to video input source 2, run the following API command:
   ```
   xConfiguration Video Input Source 2 CameraControl CameraId: 2
   ```

Applies to the following products:
- Codec C40
- Codec C60
- Codec C90

333: I installed a video camera to the video input number 2 on my C90 using component video, now I am not able to get any video when I activate this source. Why?
A C90 codec can connect up to 12 HD video input sources, but only five can be active simultaneously. As default the video input source number 2 is set to be HDMI. You can find more information on the video input sources in the Administrator Guide for the C90 codec.
To change this, open the Home menu on the C90 codec and go to: Settings > Administrator settings > Advanced configuration > Video > Input > Source 2 and set the Connector to YPbPr.

Applies to the following products:
- Codec C90

363: Is transcoding supported for the H.239/dual stream?
No, the H.239/dual stream does not support transcoding. Therefore, the dual stream capability in an internal MultiSite is restricted by the common denominator.

Applies to the following products:
- SX20 Quick Set
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- EX60
- EX90
524: Are there any shortcuts on the TRCV remote control?
The following remote control shortcuts are available:

**Quick access**
- **Home menu**: Press the OK / V key when no menus are shown (same as pressing the home key in any menu).
- **System Information and Call status**: Press the right-most function key on the home menu.
- **Advanced Configuration**: Press the fourth function key (from left) on the System Information and Call status page. The quick key sequence is "home - right-most function key - fourth function key" (or "V - right-most function key - fourth function key" when no menus are shown).

**Quick Call**
- **Call menu**: Press any number key in idle mode (when not in a call).
- **Recent calls**: Press the call key when the Call menu is not visible.
- **Dial last number**: Press the call key twice.

**Camera Control**
- **Camera control soft menu**: Press any arrow or zoom key in idle mode.
- **Camera presets**: Press the number key corresponding to the desired camera preset on the Camera control soft menu to change preset.

**Other**
- **Standby mode**: Press and hold the Disconnect-key for 5 seconds.
- **Restore resolution and OSD**: When not in a call, enter the sequence following sequence with the remote control "Disconnect-key - # - # - 0 - x - #" where x is output 1 to 4 to change the OSD and restore the resolution (1280×720@60Hz for HDMI and 1024×768@60Hz for DVI) to the selected output.
- **DTMF**: Pressing a number key in a call gives the DTMF (Dual Tone Multiple Frequencies) sound for the pressed number.

Applies to the following products:
- SX20 Quick Set
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- EX60
- EX90

Related questions:
302: How do I change the output for my On Screen Display (OSD) from HDMI1 to another output when the system is used with the TRCV remote control?

528: Which resolutions do the video systems support at 60 fps?
The supported resolutions at 60 fps are **w288, w448, w576 and w720**.

Please note the following:
- The Cisco TelePresence Codec **C20, SX20, MX200, MX300** and **EX60** can encode 60 fps in point-to-point calls, but not if a presentation is running at the same time.
- The Cisco TelePresence Codec **C40, C60** and **EX90** can encode 60 fps in point-to-point calls, also when presentations are running at the same time, but not in MultiSite.
- The Cisco TelePresence Codec **C90** can encode 60 fps in point-to-point calls, when running presentations, and in MultiSite.

Applies to the following products:
- SX20 Quick Set
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- EX60
- EX90

Related questions:
530: What is the relationship between transmitted frame rate and bandwidth on the video systems?
545: Can I deploy endpoints from outside the enterprise network, for example, from a home office or remote office without VPN connection

Yes, endpoints can register to CUCM also when the endpoint is not within the enterprise network. In such cases you will need Expressway (Expressway Edge/Expressway Core) for secure firewall traversal and line-side support for CUCM registrations. This feature is referred to as Cisco Unified Communications Mobile and Remote Access (MRA), and is a core part of the Cisco Collaboration Edge Architecture.

The VCS series of infrastructure products also supports such use case. In this case you will then need VCS (VCS Expressway/VCS Control) for secure firewall traversal.

Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90

558: How do I record my video calls?

You can record your video calls, and include all participants and any presentations using the Cisco TelePresence Content Server. For more information, please refer to the Content Server user documentation.

Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90
609: My computer is connected to the DVI-I input of the EX90, but the desktop is not displayed on the screen. Why?

There can be several reasons for this:

The EX90 input source is set to DVD
If both the DVI-IP/PC and HDMI/DVD inputs are connected, make sure the input source is set to PC.
1. Tap the Settings icon in the top left corner on the Touch controller main menu.
2. Select Settings > Source and set the source to PC. Note that the Source selector icon is only visible if both input sources are connected.

The EX90 fails to detect the DVI-I input source type
The DVI-I input of the EX90 is capable of reading both digital and analog input signals. The EX90 auto-detects the signal type by default. However, in some situations, it may be necessary to manually set up the EX90 to the correct input signal type.
1. Tap the Settings icon in the top left corner on the Touch controller main menu.
2. Select Settings > Display settings and set the DVI Mode. Change this setting to Digital.

The computer does not support the resolution
The computer is not capable of outputting any of the supported input resolutions defined on the EX90.

The computer graphics card does not have the latest driver installed
Check that you are running the latest driver available from your graphics card vendor.

The cables are not connected properly
Check that the cables are connected.

Applies to the following products:
- EX90

Related questions:
- 610: What resolutions does the EX90 support on the DVI-I PC-screen input?

610: What resolutions does the EX90 support on the DVI-I PC-screen input?

The EX90 has one DVI-I (integrated analog and digital) input.

The following resolutions are supported on the EX90 PC screen digital input:
- 1920×1200 - native resolution, recommended
- 1920×1080 (not full screen)
- 1776×1000 (not full screen)
- 1680×1050
- 1600×1200 (not full screen)
- 1440×900
- 1400×1050 (not full screen)
- 1280×1024 (not full screen)
- 1280×960 (not full screen)
- 1280×800
- 1280×768 (not full screen)
- 1280×720 (not full screen)
- 1152×648 (not full screen)
- 1024×768 (not full screen)
- 960×600 (not full screen)
- 800×600 (not full screen)

The following resolutions are supported on the EX90 PC screen analog input:
- 1920×1200 - native resolution, recommended
- 1680×1050
- 1600×1200 (not full screen)
- 1440×900
- 1280×1024 (not full screen)
- 1024×768 (not full screen)
- 800×600 (not full screen)

Applies to the following products:
- EX90

Related questions:
- 610: What resolutions does the EX90 support on the DVI-I PC-screen input?
611: Can I run MultiSite on EX and MX video systems?
MultiSite is available on EX90 and the MX Series, but is not available on EX60, MX200 and MX300. On EX90 up to 3-sites can connect in MultiSite.

 Applies to the following products:
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90

Related questions:
329: Why can I only place point-to-point calls on my codec?
330: How do I install the MultiSite option key?

617: Which provisioning mode do the codes support?
The codes currently support CUCM, VCS, Edge and TMS.

 Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90

619: Can the MX and EX video systems be wall mounted?
The MX Series and the EX60 can be wall mounted. The brackets you need to do this have to be ordered separately. The EX90 cannot be wall mounted.

 Applies to the following products:
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90

620: Can I send content on the EX90 using HDMI 1 as input source?
Yes, the system auto-selects DVI or HDMI depending upon which is active - if both are active you need to choose between these two.
1. Tap the More icon in the bottom left corner on the Touch controller main menu.
2. Select Settings > Sources and select the input you want. By selecting DVD as source on the Touch controller interface, HDMI 1 is used as input source. Note that the Source selector icon is only visible if both input sources are connected. If there is only one source, the EX90 selects this source automatically.

 Applies to the following products:
- EX90

622: Can I use the MX and EX systems as a USB hub?
No, this is not possible. The USB host and USB device connectors are for future use.

 Applies to the following products:
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90
624: Can I use the Cisco TelePresence Performance Mic 20 external microphone on the EX and MX video systems? The EX90 supports the Performance Mic 20 external microphone, but the MX200, MX300 and EX60 do not support it.

**Applies to the following products:**
- MX200
- MX300
- EX60
- EX90

630: I have the C40 DVI output configured as a second monitor, but when connecting to the DVI-I output on the C40 codec, nothing is displayed on the screen, why? You need to have the `DualDisplay option key` installed on the C40 codec to use the DVI-I output.

**Check your options from the system information menu**
1. Open the Home menu and go to: Settings > System information.
2. Make sure `DualDisplay` is listed in the Software > Options installed

**Check your options using an API command**
Log into the Cisco TelePresence system as `admin` using SSH (Secure Shell):
1. Execute the API command:
   ```plaintext
   xStatus SystemUnit Software OptionKeys DualDisplay
   ```
2. Make sure the DualDisplay option is listed as True.

**Applies to the following products:**
- SX20 Quick Set
- Codec C20
- Codec C40
- EX90

631: When connecting to the second HDMI output on the Cisco TelePresence Codec C20, C40, SX20 or EX90, nothing is displayed on the screen, why? You need to have the `DualDisplay option key` installed on the Cisco TelePresence system to use the second HDMI output.

**Check your options from the product’s system information menu**
1. Open the Home menu and go to: Settings > System information.
2. Make sure `DualDisplay` is listed in the Software > Options installed

**Check your options using an API command**
Log into the Cisco TelePresence system as `admin` using SSH (Secure Shell):
1. Execute the API command:
   ```plaintext
   xStatus SystemUnit Software OptionKeys DualDisplay
   ```
2. Make sure the DualDisplay option is listed as True.

**Applies to the following products:**
- SX20 Quick Set
- Codec C20
- Codec C40
- EX90

643: The call is disconnected when I pick up the handset of the Touch 8 on my EX90 and EX60. Why? The light sensor in the early production handset cradles on the Touch 8 can be affected by some particular light conditions and this may cause false hang ups when the handset is picked up. Please contact your local support office if you experience this problem. This issue can be prevented by changing the light environment of the Touch 8. Please notice that the EX90, EX60 and Touch 8 can be used without the handset. Alternatively, use the EX90 and EX60 in loud speaking mode or with a headset.

**Applies to the following products:**
- EX60
- EX90
What should I do before contacting TAC?

To help TAC to identify fixes and process RMAs on screen-related issues, please follow the steps below before raising a ticket.

Examples of screen issues include incorrect image display, unusual colors, stripes, or any other visual problems. The steps below take you through a process of elimination that allows you to identify the piece of hardware that is at fault (the screen, the cable or the codec) and show you how to gather some technical information that is useful for TAC.

1. Upgrade your codec to the latest software version (it’s always best to troubleshoot on the newest software).
2. Check that the monitor is healthy by connecting it to a known healthy output device and verify that the image is displaying correctly. You can connect a 1080p camera directly to the HDMI on the monitor without going through the codec and you should see an image. This is an excellent way of testing both the camera and the monitor.
3. Try a different cable. Check the cable pins (DVI, VGA, HDMI) and if it is a DVI cable make sure you are not using a DVI-A (see image). If you have several types of DVI cables, you should try them all.
4. If the monitor is healthy you should now move on to the codec. Connect the codec to another known healthy monitor and check if the same error occurs here.
5. Try a different output on the codec and see if the problem persists.
6. Important: Take a short video clip (for example, on your mobile phone) or a photo of the problematic video output. Telnet into the codec and copy the output of the ‘xConfiguration’ and ‘xStatus’ commands. Provide all this information to TAC when you raise the ticket, together with the results of the tests you have done.

By following these steps you help the TAC team to identify and resolve your problem as quickly as possible.

Related questions:

303: My C Series Codec does not seem to boot up (no video is displayed on the monitor), why?

667: My computer is connected to the DVI-I input, but the desktop is not displayed on the screen. Why?

There can be several reasons to this:

The system fails to detect the DVI-I input source type
The DVI-I input is capable of reading both digital and analog input signals. The system auto-detects the signal type by default. However, in some situations, it may be necessary to manually set up the system to the correct input signal type.

1. Tap the Adjustments icon in the bottom left corner on the Touch controller main menu.
2. Select Settings > Display settings and set the DVI Mode.

The computer does not support the resolution
The computer is not capable of outputting any of the supported input resolutions defined on the system.

The computer graphics card does not have the latest driver installed
Check that you are running the latest driver available from your graphics card vendor.

The cables are not connected properly
Check that the cables are connected.

Applies to the following products:

• SX10 Quick Set
• SX20 Quick Set
• SX80
• Codec C20
• Codec C40
• Codec C60
• Codec C90
• MX200
• MX300
• MX200 G2
• MX300 G2
• MX700
• MX800
• EX60
• EX90
668: Which TelePresence endpoints support the Touch 8, and which TelePresence Endpoints have it as the standard user interface?

You can use the Touch 8 with all C Series endpoints running TC software version 4.1, or later, and all EX Series, MX200 and MX300 (First generation) running TC software. This includes Cisco C Series Codecs and Integrator Packages (C40, C60 and C90), Quick Set C20, SX20 Quick Set, Profile Series and EX Series.

The MX200 and MX300, EX and Profile Series have the Touch 8 as the standard user interface. Integrator Products and Quick Sets have the Touch 8 as a purchasable option.

Applies to the following products:
- SX20 Quick Set
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- EX60
- EX90
- Touch 8

670: Do all of the Touch 8 controllers support the use of handset for audio?

No, only the EX Series supports the use of handset. For other installations that connect via Ethernet (over LAN or directly to the codec) there is no support for audio signaling.

Applies to the following products:
- SX20 Quick Set
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- EX60
- EX90
- Touch 8

673: Are there any requirements or limitations on the length of the Ethernet cable when connecting the Touch 8 or Touch 10 to a codec?

It is recommended to use a shielded Ethernet cable when connecting from the power adapter to a LAN port or when connecting directly to the secondary Ethernet port on the codec. There are no limitations on the length of the Ethernet cable, but normally it is not recommended to use more than 100 meters per cable segment.

Applies to the following products:
- SX20 Quick Set
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- Touch 8
- Touch 10

674: What is the difference between the Touch 8 controller for EX Series, SX20 and C Series?

The Touch controller for EX Series is different from the Touch controller for SX20 and C Series in two ways:

1. An audio handset can only be connected to the Touch controller for the EX Series.
2. The Touch controller for EX Series comes with a fixed 1,2 meter cable. The Touch controller for Profile Series, C Series Codecs, C20 Quick Set and SX20 Quick Set comes with a fixed 7,5 meter cable.

Applies to the following products:
- SX20 Quick Set
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- EX60
- EX90
- Touch 8
675: Do the Touch 8 and Touch 10 controller’s come in a wall mount version?
No, the Touch 8 and Touch 10 are only available as a table version.

Applies to the following products:
• Touch 8

676: Can I connect more than one Touch 8 to a Cisco TelePresence video system?
Yes. When multiple Touch controllers are connected, only the last paired device stays paired after reboot, unless connected directly to the system. When connected directly to the system, both the directly connected system and last paired system over LAN stay paired after reboot.

Applies to the following products:
• SX20 Quick Set
• Codec C20
• Codec C40
• Codec C60
• Codec C90
• MX200
• MX300
• EX60
• EX90
• Touch 8

Related questions:
668: Which TelePresence endpoints support the Touch 8, and which TelePresence Endpoints have it as the standard user interface?
677: Can I use both the Touch 8 and the remote control at the same time?

677: Can I use both the Touch 8 and the remote control at the same time?
No. When a codec is paired with a Touch 8 it is not possible to use the remote control.

Applies to the following products:
• SX20 Quick Set
• Codec C20
• Codec C40
• Codec C60
• Codec C90
• Touch 8

Related questions:
676: Can I connect more than one Touch 8 to a Cisco TelePresence video system?

688: How can I use a dedicated monitor for showing presentations only?
You can set up a monitor to show only presentations by executing the following API command:
xConfiguration Video Monitors: DualPresentationOnly
This activates the secondary monitor output, but only when a presentation is shown locally or received from far end.

NOTE: We do not recommend using the alternative xConfiguration Video Output HDMI 1 MonitorRole: PresentationOnly – this command is designed for a specific use-case.

Applies to the following products:
• SX20 Quick Set
• SX80
• Codec C20
• Codec C40
• Codec C60
• Codec C90

689: How do I select which monitor output is primary and which is secondary?
By default you have one primary and one secondary monitor. The output is marked with 1st and 2nd screen on the back of the codec. This may be changed to alter the primary and secondary monitor.

E.g to swap the default setting on a C40 – execute the following
xConfiguration Video Output HDMI 1 MonitorRole: Second
xConfiguration Video Output DVI 2 MonitorRole: First

Applies to the following products:
• SX20 Quick Set
• SX80
• Codec C20
• Codec C40
• Codec C60
• Codec C90
• MX200
• MX300
692: Why can I hear my own voice in the speakers when I am using a Cisco TelePresence video system?

If a microphone is connected to the Line 1 and Line 2 ports on the codec, its audio comes out of the speakers. This is a normal behavior as it is designed to be used as an audio input for presentations. This can be changed via TC console. The details are present in the TC console User Guide.

Applies to the following products:
- SX80
- MX700
- MX800
- Codec C40
- Codec C60
- Codec C90

694: How do I setup a Cisco TelePresence video system so that I am not disturbed by incoming calls when I am already in a call?

You can avoid getting incoming calls when you are already in a call by enabling the MultiSite feature:

1. Enter the IP address of your codec on a web browser.
2. Select Configurations and Advanced Configurations.
3. Select Conference 1 from the menu on the left.
4. In the scroll down menu for IncomingMultisiteCall Mode select Deny.

This also applies to systems without MultiSite installed.

When enabling the MultiSite feature in TC7 The configuration is:

5. Select Configurations > System Configuration > Conference

Applies to the following products:
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90
695: Which configurations on my video system require a reboot to take effect?

The following configurations require a reboot to take effect:

TC5:
- xConfiguration NetworkServices HTTP Mode
- xConfiguration NetworkServices HTTPS Mode
- xConfiguration RTP Ports Range Start
- xConfiguration RTP Ports Range Stop
- xConfiguration Network 1 Speed
- xConfiguration Network 1 IPStack (when switching from IPv4 to IPv6; not from IPv6 to IPv4)
- xConfiguration Security Audit Server Address
- xConfiguration Security Audit Server Port
- xConfiguration Security Audit OnErrorAction
- xConfiguration Security Audit Logging Mode
- xConfiguration Network Port 2 Mode: Requires reboot

TC6:
- xConfiguration NetworkServices HTTP Mode
- xConfiguration NetworkServices HTTPS Mode
- xConfiguration RTP Ports Range Start
- xConfiguration RTP Ports Range Stop
- xConfiguration Security Audit Server Address
- xConfiguration Security Audit Server Port
- xConfiguration Security Audit OnErrorAction
- xConfiguration Security Audit Logging Mode
- xConfiguration Network Port 2 Mode: Requires reboot

TC7:
- xConfiguration RTP Ports Range Start
- xConfiguration RTP Ports Range Stop
- xCommand SystemUnit ConfigurationProfile Change

Applies to the following products:
- SX20 Quick Set
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90

696: What kind of external speakers can I use with the C20 and SX20 codecs?

You should use active speakers that are non-grounded. Attaching a grounded active speaker to the system creates a ground loop, which causes an annoying humming sound.

Another option is to use a ground isolator between grounded speakers and the codec.

Applies to the following products:
- SX20 Quick Set
- Codec C20

697: How can I set up self-view in full screen mode on my secondary monitor?

This is possible with TC6.0, and later software versions. To achieve this, use the following configurations:

1. xConfiguration Video SelfviewDefault OnMonitorRole: second
2. xConfiguration Video SelfviewDefault FullscreenMode: on

To change the configurations on the web interface, go to Configuration > System Configuration > Video > SelfviewDefault. From OnMonitorRole select Second and from FullscreenMode select On. Click Save to confirm the changes.

Applies to the following products:
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90
698: Can I connect more than one Touch 10 to a Cisco TelePresence video system?
There has been limited testing with more than one Touch 10 connected to Codec. Therefore
the use of more than one Touch 10 is not officially supported.

Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- MX200 G2
- MX300 G2
- MX700
- MX800
- Touch 10

699: Can the SX80 DVI-I output support Composite or S-Video?
The SX80 DVI output does not support S-Video or Composite. It does support analog RGB
at a minimum resolution of 1280x720. A scalar is needed to down scale the signal to
Composite or S-Video

Applies to the following products:
- SX80

701: Which systems do not support H.323?
H.323 is not supported in SX10 as the SX10 is an SIP (Session Initiation Protocol) only device.

Applies to the following products:
- SX10 Quick Set

702: Which codecs support MultiWay(VCS)?
From TC7.3, MultiWay(VCS) support has been added to SX80, MX700, MX800, SX20 Quick
Set. The MX200 G2 and MX300 G2 are already supporting MultiWay(VCS) prior to TC7.3.
MultiWay(VCS) is not supported on the SX10.

Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- MX200 G2
- MX300 G2
- MX700
- MX800

703: Can the PrecisionHD 1080P 12x camera and PrecisionHD 1080 4xS2 camera work with
the SX80 codecs?
Yes, they can work with the SX80 codecs, however, the camera must be externally powered.

Applies to the following products:
- SX80
- PrecisionHD 1080p4x S2 Camera
- PrecisionHD 1080p12x Camera

704: Which products support OneButtonToPush?
One Button To Push is supported on all products, but on the SX10 it is only supported on
TC7.3 or later.

Applies to the following products:
- SX10 Quick Set
- SX20 Quick Set
- SX80
- Codec C20
- Codec C40
- Codec C60
- Codec C90
- MX200
- MX300
- MX200 G2
- MX300 G2
- MX700
- MX800
- EX60
- EX90

705: Can the SpeakerTrack 60 camera be mounted upside down?
No, the SpeakerTrack 60 camera cannot be mounted upside down. It can be mounted upright
above, below or next to a display.

Applies to the following products:
- SpeakerTrack 60 Camera
- SX80
- Codec C90
- Codec C60
706: Are third party microphones supported when used with SX10?
No, third party microphones are not supported when used with SX10.

*Applies to the following products:*
- SX10 Quick Set

707: Can I use both the HDMI and 3G-SDI output at the same time from the Precision 60 Camera?
Yes, both HDMI and 3G-SDI outputs are active at the same time from the camera.

*Applies to the following products:*
- Precision 60 Camera

708: Which codec supports the H.265 protocol?
H.265 is supported in SX10 Quick Set, MX700 and MX800 systems. However, it is only supported in a point to point call.

*Applies to the following products:*
- SX80
- MX700
- MX800

709: Which TelePresence endpoints support the Touch 10, and which TelePresence Endpoints have it as the standard user interface?
You can use the Touch 10 with all SX Series endpoints (SX10 Quick Set, SX20 Quick Set and SX80), and all MX Series endpoints except MX200 and MX300 (First generation), MX700 and MX800 as well as MX200 G2 and MX300 G2 endpoints running TC software version TC7.x, or later. The SX10 Quick Set and SX20 Quick Set need TC software version 7.2 or later, the other products can use any software version valid to that specific product.

*Applies to the following products:*
- SX10 Quick Set
- SX20 Quick Set
- SX80
- MX200 G2
- MX300 G2
- MX700
- MX800
- Touch 10
Chapter 4

Appendices
Product overview

Cisco TelePresence Codec C20

Cisco TelePresence Codec C40

Cisco TelePresence Codec C60

Cisco TelePresence Codec C90

Cisco TelePresence Codec SX20

Cisco TelePresence SX10

Cisco TelePresence Codec SX80

Cisco TelePresence EX60

Cisco TelePresence EX90
Cisco TelePresence MX200 (Table Stand)

Cisco TelePresence MX200 G2 (Floor Stand)

Cisco TelePresence MX700 Single Cam (Floor Stand)

Cisco TelePresence MX300 (Floor Stand)

Cisco TelePresence MX300 G2 (Floor Stand)

Cisco TelePresence MX700 Dual Cam (Floor Stand)
Cisco TelePresence TC Endpoints

Cisco TelePresence Profile 65 Dual

Cisco TelePresence PrecisionHD 1080p4x S2

Cisco TelePresence Precision 60 Camera

Cisco TelePresence SpeakerTrack 60 Camera

Cisco TelePresence PrecisionHD 1080p12x

Cisco TelePresence Remote Control 5

Cisco TelePresence PrecisionHD 1080p4x

Cisco TelePresence PrecisionHD 1080p2.5x

Cisco TelePresence Remote Control 6
Cisco TelePresence TC Endpoints

Cisco TelePresence Touch 8

Cisco TelePresence Touch 10
User documentation
For all our products we have several guides suitable for various user groups.

You can download all the user guides for the Cisco TelePresence products from the Cisco web site:

- [Codec C Series](http://www.cisco.com/go/cseries-docs)
- [EX Series](http://www.cisco.com/go/ex-docs)
- [MX Series](http://www.cisco.com/go/mx-docs)
- [Profile Series](http://www.cisco.com/go/profile-docs)
- [SX Series](http://www.cisco.com/go/sx-docs)
- [Touch Series](http://www.cisco.com/go/touch-docs)
- [Remote Control](http://www.cisco.com/go/telepresence/docs)
- [PrecisionHD Camera](http://www.cisco.com/go/camera-docs)

Document categories
For each product, you can find different types of guides in the following document categories:

**Install and Upgrade: Install and Upgrade Guides**

**Installation guides:** Describes how to install an endpoint.

**Getting started guide:** Describes the initial configuration of Cisco TelePresence video systems. This includes setting passwords, and configuring IP, H.323 and SIP using the remote control, the Touch controller, or the web interface.

**Regulatory compliance and safety information:** Describes the regulatory compliance information, safety instructions, declaration of conformity and China ROHS table.

**Maintain and Operate: End-User Guides**

**User guides:** You can learn about the system and call settings, camera adjustments/presets, phone book usage, call control and in-call features. In addition, instructions to the use of the remote control or Touch controller are included in these guides.

**Quick reference guides:** This two page guide describes the basics of using a video system. You will learn how to place a call, use the contact list, initiate a video conference, and share content.

**Camera User Guide:** Describes the physical interface of the PrecisionHD cameras. Instructions on how connect a camera to a codec, cable pin outs, daisy chaining, VISCA commands and technical specifications are also included in this guide.

**Physical interface guides:** Describes the physical interface of the C40, C60 and C90 codecs and the SX80.

**Maintain and Operate: Maintain and Operate Guides**

**Administrator guides:** Provides information required to administrate video systems at an advanced level. The web interface is described, and the advanced settings available via the web interface and the on-screen menu system are explained.

**Administering TC endpoints on CUCM guide:** Describes the process of getting a TC endpoint up and running with a Cisco Unified Communication Manager

**Reference Guides: Command references**

**API reference guides:** Describes the API for the video systems. Commands described are the xCommand, xConfiguration, xStatus, xHistory, xEvent, xFeedback, xPreferences and SystemTools.

**Design: Design Guides**

**Video conferencing room guidelines:** The Video Conferencing Room Acoustics Guidelines and Video Conferencing Room Primer include information on what should be considered when planning and setting up a video room.

**Release and General Information: Release Notes**

**TC software release notes:** Describes the new features and capabilities included in the latest TC software release. A list of fixed and open bugs, known issues and information on interoperability can be found in this document.

**Release and General Information: Licensing Information**

**TC software licensing information:** Describes the open source license information supported for the Cisco TelePresence products running TC software.

**NOTE:** All products do not have all types of guides.
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