



Installing the Cisco TelePresence Touch 12

November 13, 2013

Cisco Systems, Inc.

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Preface

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This book describes the procedures you perform to connect and configure the Cisco TelePresence Touch 12 (Cisco TelePresence Touch).

Conventions

This document uses the following conventions to convey information and alert the user to conditions requiring special awareness.

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, you must be aware of the hazards involved with electrical circuitry and familiar with standard practices for preventing accidents.

Caution

Means reader be careful. In this situation, you might do something that could result in equipment damage or loss of data.

Note

Means reader take note. Notes contain helpful suggestions or references to material not covered in the publication.



Means the information contains useful tips.

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Understanding COP and Loads Files for the Cisco TelePresence System

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This section contains information about the COP file and how you use it, and includes the following topics:

- Understanding COP Files, page 1-1
- Differences in Unified CM Between the CTT 12 and Cisco Unified IP Phone, page 1-2
- COP File Naming Convention, page 1-3
- Contents of the COP File, page 1-4
- Upgrading Systems That Are Running Cisco TelePresence Software Versions Prior To 1.7.4, page 1-5

Understanding COP Files

Before you can use the Cisco TelePresence Touch 12 (CTT 12), you install a Cisco Options Package (COP) file to Cisco Unified Communications Manager (Unified CM). The COP file is a zipped file that contains the codec and control device (for example, CTT 12 or Cisco Unified IP Phone) image files, and a loads file that lists the contents of the COP file. For more information, see the "Contents of the COP File" section on page 1-4.

The COP file is the default method of file distribution for all releases 1.8.0 and beyond, whether your system uses either a CTT 12 or a Cisco Unified IP Phone for call control.

Systems that are running a miminum Cisco TelePresence System software release of 1.7.4 can use a COP file to upgrade and install their software, even though the CTT 12 is not supported on any releases prior to 1.8.0. Systems that are running Cisco TelePresence System software releases 1.8.0 and above must use a COP file to upgrade and install their software. For COP file-specific information about systems that are running software prior to 1.7.4, see the "Upgrading Systems That Are Running Cisco TelePresence Software Versions Prior To 1.7.4" section on page 1-5.

After you use a COP file to upgrade your system, you perform all subsequent upgrades by using the COP file. You perform the upgrade by specifying the file name in Unified CM and omitting all file extensions. Specifying a codec image file with a specific file extension, or specifying a file that is not included in a COP file, might result in the CTT 12 reporting a version mismatch.

Find the COP file in the "Download" section of the Cisco support site for your product, located at the following URL:

http://www.cisco.com/cisco/web/support/index.html

Differences in Unified CM Between the CTT 12 and Cisco Unified IP Phone

You do not register the CTT 12 in Unified CM. This configuration method differs from the configuration for a Cisco TelePresence system that uses a Cisco Unified IP Phone for call control, where you register both the codec and Cisco Unified IP Phone in Unified CM. With a system that uses a CTT 12 device, you only register the codec in Unified CM.

To upgrade your system, you specify the name of the COP file, with no file types or extensions, in Unified CM. You specify the name either in the Unified CM Device Defaults Load Information field (to specify this file for all devices of the same type) or the Device Phone Load Name field (to specify this file for a single device).



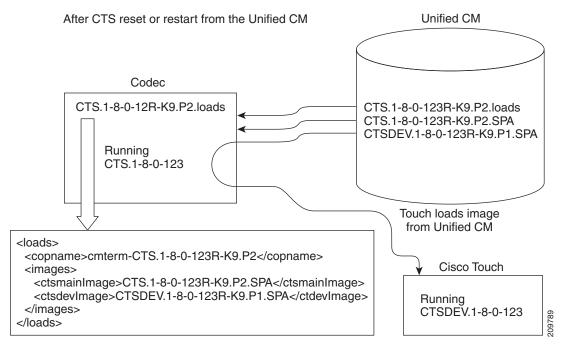
vote

If your system is running a CTS version earlier than 1.7.4, you first specify the file name with an .sbn or .SPA extension, then you specify the file name with no extension. For summary steps, see the "Upgrading Systems That Are Running Cisco TelePresence Software Versions Prior To 1.7.4" section on page 1-5; for detailed steps, see the "Upgrading the CTS Software for Systems That Are Running Cisco TelePresence Software Versions Prior to 1.7.4" section on page 3-5.

Unified CM automatically extracts the codec and CTT 12 files from the COP file and applies them to your Cisco TelePresence system.

Figure 1-1 shows how the codec and CTT 12 retrieve the files in the COP file from Unified CM. This example shows a COP file for systems that use the CTS-CODEC-SING-G1 or CTS-CODEC-PRI-G2R codec. The process for systems that use the CTS-CODEC-PRIM or CTS-CODEC-PRI-G2 codec is the same; however, the codec file name is different. For more information, see the "COP File Naming Convention" section on page 1-3.

Figure 1-1 COP File Extraction Process for the Codec and CTT 12



For more information, see the "Upgrading Systems That Are Running Cisco TelePresence Software Versions Prior To 1.7.4" section on page 1-5 and "Upgrading the CTS Software for Systems That Are Running Cisco TelePresence Software Versions 1.7.4 and Above" section on page 3-14.

COP File Naming Convention

The COP file uses the following naming convention:

CTS.r-r-r-bbbR-K9.Pv.cop.sgn

where:

r-r-r is the Cisco TelePresence System (CTS) software release,

bbb is the build name, and

v specifies the file version.

The Pv variable differs depending on the contents of the COP file and the codec that is used by the system. For the example in Figure 1-2, the COP file, codec image file, and CTT 12 file have a version of P1. For the example in Figure 1-3, the COP and codec files have a version of P2, while the CTT 12 file has a version of P1.

Contents of the COP File

The COP file can contain multiple files, including any of the following types of files:

- Codec image files
- CTT 12 image files
- Midlet files

For the purpose of understanding how COP files are used with the CTT 12, assume that the COP file contains three files: A loads file, a codec image file, and a CTT 12 image file.

The loads file lists the file names of the specific codec and CTT 12 image files. Figure 1-2 and Figure 1-3 show sample loads files.

Figure 1-2 Sample Loads File – Systems That Use the CTS-CODEC-PRIM or CTS-CODEC-PRI-G2 Codec

```
<leads>
<copname>cmterm-CTS.1-8-0-123R-K9.P1</copname>
<images>
<ctsmainImage>CTS.1-8-0-123R-K9.P1.sbn</ctsmainImage>
<ctsdevImage>CTSDEV.1-8-0-123R-K9.P1.SPA</ctdevImage>
</images>
</loads>
```

Figure 1-3 Sample Loads File—Systems That Use the CTS-CODEC-SING-G1 or CTS-CODEC-PRI-G2R Codec

```
<leads>
<copname>cmterm-CTS.1-8-0-123R-K9.P2</copname>
<images>
<ctsmainImage>CTS.1-8-0-123R-K9.P2.SPA</ctsmainImage>
<ctsdevImage>CTSDEV.1-8-0-123R-K9.P1.SPA</ctdevImage>
</images>
</loads>
```

The loads file contains the following entries:

• <copname>: The COP file name.



Note When you specify the COP file name, remove the **cmterm-** in front of the file name. For specific examples of the COP file name when configuring a device in Unified CM, see Chapter 3, "Upgrading From a Cisco Unified IP Phone to a Cisco TelePresence Touch 12."

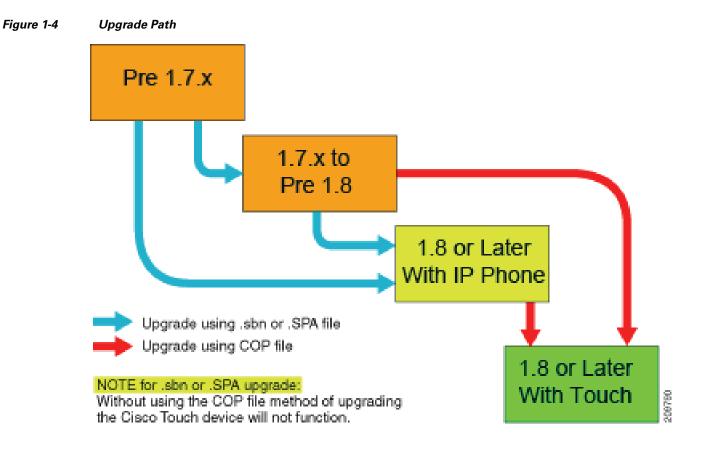
- <ctsmainImage>: The codec image file name. Note that the file types in the examples in Figure 1-2 and Figure 1-3 are different; the file types are based on the type of codec that the system uses.
- <ctsdevImage>: The CTT 12 image file name.

Upgrading Systems That Are Running Cisco TelePresence Software Versions Prior To 1.7.4

Systems that are running CTS software version 1.7.4 or older cannot process loads files and will report a "file not found" error, even in cases where the file is present. To upgrade your system, complete the following steps.

Do not physically connect the CTT 12 to your system until Step 9 of this procedure.
You can upgrade your system using these steps, skipping Step 9, even if your system uses a Cisco Unified IP Phone for call control.
Install the COP file into the Unified CM server.
This action extracts the codec and CTT 12 image files from the COP file and stores them in the Unified CM TFTP directory.
Restart the TFTP server.
Upgrade your codec by entering the complete file name, including either the .sbn or .SPA file type, in one of the following places:
• To specify this file for all devices of a specified type, enter the file name in the Unified CM Device Defaults Load Information field.
• To specify this file for a single device enter the file name in the Device Phone Load Name field (e)
Save and apply your changes in Unified CM, which reboots the codec and upgrades your system to a minimum of release 1.8.0.
For Cisco TelePresence System 500-32 systems running Cisco TelePresence Software version 1.7.1.1, you must first upgrade your system to version 1.7.x before upgrading your system to 1.8.0. For more information, see the "Special Restriction for CTS-500-32 Systems Running Cisco TelePresence System Software Version 1.7.1.1" section on page 3-24.
Connect the CTT 12 to your system and specify the COP file with no file extension.
Save and apply your changes in Unified CM, which reboots the codec and upgrades your CTT 12 to the correct software release.
Upgrade your codec by specifying the loads file name, which is the name of the COP file with no file extensions, either in the Unified CM Device Defaults Load Information field (to specify this file for al devices of the same type) or the Device Phone Load Name field (to specify this file for a single device
Save and apply your changes in Unified CM, which restarts the codec and enables your system to suppor the CTT 12.
Connect the CTT 12 to your system.

Figure 1-4 shows the upgrade path that is available depending on your Cisco TelePresence system software version.





Installing the Cisco TelePresence Touch 12 That Ships With a New Product

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This chapter describes the steps that you perform to configure and install the Touch device for a new system and includes the following sections:

- Enabling the Directory for the Touch Device, page 2-1
- Connecting the Touch Device to Your System, page 2-3

Enabling the Directory for the Touch Device

To use the directory service for the Touch device, you must make the following changes in Cisco Unified Communications Manager (Unified CM):

• Check that Cisco User Data Services are enabled.

Releases between 8.5.1 and 8.6.0 have the User Data Services enabled by default. Release 8.6.1 has the services disabled by default.



The Touch device requires a minimum Unified CM version of 8.5.1.

• Configure the User Search Limit to 500

If you do not make these changes, your Touch device still functions but you cannot access the directory.

To enable the directory for the Touch device, complete the following steps:

- **Step 1** Check to make sure that Cisco User Data Services are enabled by completing the following steps:
 - a. From the Navigation drop-down list on the top right of the Unified CM GUI, select **Cisco Unified Serviceability** and click **Go**.

The Cisco Unified Serviceability window displays.

- **b.** Navigate to **Tools > Control Center—Network Services**.
- c. Select the Unified CM server from the drop-down list and click Go.
- d. In the CM Services area, click the Cisco User Data Services option button.

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<u>Note</u>

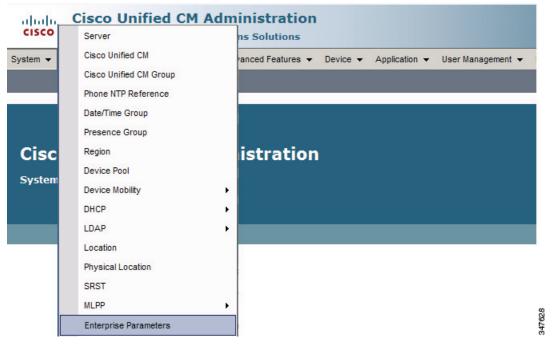
Some older software versions of Unified CM have CM Services in the **Tools > Control Center—Feature Services** page. If you cannot find Cisco User Data Services in this area on this page, navigate to the Feature Services Page and look for CM Services there.

Figure 2-1 Cisco User Data Services

CM Services		
	Service Name	
0	Cisco CallManager Personal Directory	
\odot	Cisco Extension Mobility Application	
\odot	Cisco CallManager Cisco IP Phone Services	
۲	Cisco User Data Services	
\bigcirc	Cisco Change Credential Application	

- e. Click Restart to save your choice and start the service.
- **Step 2** Configure the Search User Limit to 500 by performing the following actions:
 - **a.** Log in to the Unified CM GUI.
 - The Cisco Unified CM Administration window displays.
 - b. Navigate to System->Enterprise Parameters.

Figure 2-2 Enterprise Parameters



- c. In the User Search Limit field, enter 500.
- <u>Note</u>

This field is in the User Search Parameters area.

- d. Click Save to save your changes.
- e. Click Apply Config to apply the changes to your Cisco Touch device(s).

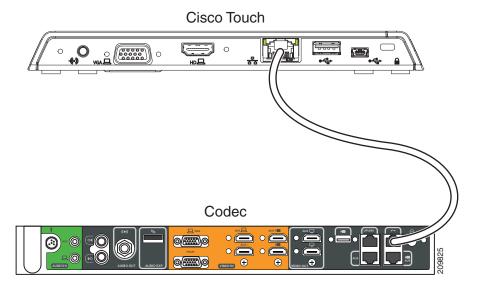
Connecting the Touch Device to Your System

Connect the Touch device to your system by using the diagram in Figure 2-3.



If you need to swap out a Touch device, or are replacing a Cisco Unified IP Phone with a Touch device, reboot the system after installing the new Touch device. For a first-time installation, install the Touch device before powering on the system.

Figure 2-3 Connection Diagram for New Systems



The Ethernet cable for the Touch device is packaged with your system.



After you connect the Touch device, you should see a series of circled numbers on the lower left side of the Touch display. The numbers change to check marks as the device is starting. If the circled numbers do not change to check marks or you receive a message on the Touch device that it could not register to the codec, disconnect the Touch device, wait 5 minutes, then reconnect it. For more troubleshooting information, see Chapter 4, "Troubleshooting Touch Device Installation Issues."

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Upgrading From a Cisco Unified IP Phone to a Cisco TelePresence Touch 12

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The following chapter describes the tasks that you perform to upgrade your system from a Cisco Unified IP Phone to a Cisco TelePresence Touch 12 and includes the following sections:

- Determining the Type of Codec Used by Your System, page 3-1
- Kit and Parts List, page 3-2
- Enabling the Directory for the Touch Device, page 3-3
- Upgrading the CTS Software for Systems That Are Running Cisco TelePresence Software Versions Prior to 1.7.4, page 3-5
- Upgrading the CTS Software for Systems That Are Running Cisco TelePresence Software Versions 1.7.4 and Above, page 3-14
- Connecting the Touch Device to the System, page 3-22
- Special Restriction for CTS-500-32 Systems Running Cisco TelePresence System Software Version 1.7.1.1, page 3-24



The display used in this product contains mercury. Dispose of according to local, state, and federal laws.

Determining the Type of Codec Used by Your System

The following installation instructions specify loading an .sbn or .SPA file in Unified CM before you specify the COP file name with no extensions. The file extension depends on the type of codec you use in your system. To determine the type of file you specify, use the following guide:

- If your codec looks like the codec in Figure 3-1, use the .sbn file. The following systems use this codec:
 - Cisco TelePresence System 500-37 (PID: CTS-500-37)
 - Cisco TelePresence System 1000 (PID: CTS-1000)
 - Cisco TelePresence System 1100 (PID: CTS-1100)
 - Cisco TelePresence System 1300-65 (PID: CTS-1300)
 - Cisco TelePresence System 3000 (PID: CTS-3000)

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- Cisco TelePresence System 3010 (PID: CTS-3010)
- Cisco TelePresence System 3200 (PID: CTS-3200)
- Cisco TelePresence System 3210 (PID: CTS-3210)
- If your codec looks like the codec in Figure 3-2, use the .SPA file. The following systems use this codec:
 - Cisco TelePresence System 500-32 (PID: CTS-500-32)
 - Cisco TelePresence System 1300-47 (PID: CTS-1300-47)
 - Cisco TelePresence System TX1310-65 (PID: CTS-TX1310-65)
 - Cisco TelePresence System TX9000 (PID: CTS-TX9000)
 - Cisco TelePresence System TX9200 (PID: CTS-TX9200)

Figure 3-1 Codec CTS-CODEC-PRI-G2 or CTS-CODEC-PRIM

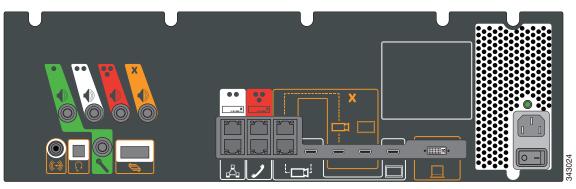


Figure 3-2 Codec CTS-CODEC-SING-G1 or CTS-CODEC-PRI-G2R



Kit and Parts List

Order the following kits to upgrade your system from a Cisco Unified IP Phone to a Cisco Touch 12 (CTT 12):

- Order kit number CTS-CTRL-DV12-A= for the following systems:
 - Cisco TelePresence System 500-32 (PID: CTS-500-32)
 - Cisco TelePresence System 1300-47 (PID: CTS-1300-47)
 - Cisco TelePresence System TX1310-65 (PID: CTS-TX1310-65)
 - Cisco TelePresence System TX9000 (PID: CTS-TX9000)
 - Cisco TelePresence System TX9200 (PID: CTS-TX9200)

This includes the CTT 12 device, part number CTS-CTRL-DV12.

• Order kit number CTS-CTRL-DV12-B= for the following systems:

- Cisco TelePresence System 1000 (PID: CTS-1000)
- Cisco TelePresence System 1100 (PID: CTS-1100)
- Cisco TelePresence System 1300-65 (PID: CTS-1300)
- Cisco TelePresence System 3000 (PID: CTS-3000)
- Cisco TelePresence System 3010 (PID: CTS-3010)
- Cisco TelePresence System 3200 (PID: CTS-3200)
- Cisco TelePresence System 3210 (PID: CTS-3210)

CTS-CTRL-DV12-B= includes the following parts:

- CTS-CTRL-DV12: CTT 12 device
- CTS-PWR-PDU: Power Distribution Unit
- AIR-PWRINJ4: The Power injector for the CTT 12
- CTS-JUMPER-CORD: This cord connects the power injector to the power distribution unit (PDU) for your system. The PDU end of the cord uses a IEC 60320 C19 connector to connect to the PDU.
- Order kit number CTS-CTRL-DV12-C= for the Cisco TelePresence System 500-37 (PID: CTS-500-37).

CTS-CTRL-DV12-C= contains the same parts as the CTS-CTRL-DV12=B; however the CTS-JUMPER-CORD is removed and replaced with a country-specific power cord. This change is required because a Cisco TelePresence System 500-37 does not ship with a PDU.

Enabling the Directory for the Touch Device

To use the directory service for the Touch device, you must make the following changes in Cisco Unified Communications Manager (Unified CM):

Check that Cisco User Data Services are enabled.

Releases between 8.5.1 and 8.6.0 have the User Data Services enabled by default. Release 8.6.1 has the services disabled by default.



The Touch device requires a minimum Unified CM version of 8.5.1.

• Configure the User Search Limit to 500

If you do not make these changes, your Touch device still functions but you cannot access the directory.

To enable the directory for the Touch device, complete the following steps:

Step 1 Check to make sure that Cisco User Data Services are enabled by completing the following steps:

a. From the Navigation drop-down list on the top right of the Unified CM GUI, select **Cisco Unified Serviceability** and click **Go**.

The Cisco Unified Serviceability window displays.

- b. Navigate to Tools > Control Center—Network Services.
- c. Select the Unified CM server from the drop-down list and click Go.
- d. In the CM Services area, click the Cisco User Data Services option button.

<u>Note</u>

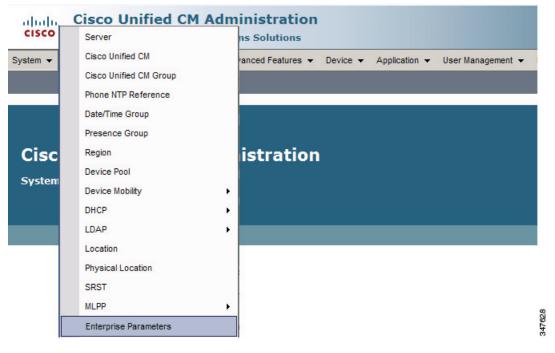
Some older software versions of Unified CM have CM Services in the **Tools > Control Center—Feature Services** page. If you cannot find Cisco User Data Services in this area on this page, navigate to the Feature Services Page.

Figure 3-3 Cisco User Data Services

CM Services	
	Service Name
\odot	Cisco CallManager Personal Directory
\odot	Cisco Extension Mobility Application
\odot	Cisco CallManager Cisco IP Phone Services
۲	Cisco User Data Services
\bigcirc	Cisco Change Credential Application

- e. Click Restart to save your choice and start the service.
- **Step 2** Configure the Search User Limit to 500 by performing the following actions:
 - **a.** Log in to the Unified CM GUI.
 - The Cisco Unified CM Administration window displays.
 - b. Navigate to System->Enterprise Parameters.

Figure 3-4 Enterprise Parameters Area



- c. In the User Search Limit field, enter 500.
- Note

This field is in the User Search Parameters area.

- d. Click Save to save your changes.
- e. Click Apply Config to apply the changes to your Cisco Touch device(s).

Upgrading the CTS Software for Systems That Are Running Cisco TelePresence Software Versions Prior to 1.7.4

To load the .sbn or .SPA and COP files to Unified CM and upgrade your codec and CTT 12 software for systems that are running CTS software versions that are lower than 1.7.4, complete the following steps.

For the summary steps you perform, see the "Upgrading Systems That Are Running Cisco TelePresence Software Versions Prior To 1.7.4" section on page 1-5.



Do not physically connect the CTT 12 to the system until you complete the software upgrade procedure.



Note Some Cisco TelePresence 500-32 systems and some replacement codecs are pre-loaded with Cisco TelePresence System software version 1.7.1.1; if your system is loaded with this software, perform the procedure as shown in the "Special Restriction for CTS-500-32 Systems Running Cisco TelePresence System Software Version 1.7.1.1" section on page 3-24.

- **Step 1** Copy the COP file to a Secure File Transfer Protocol (SFTP) server that is accessible by Unified CM.
- **Step 2** Log in to the Unified CM administrative GUI.
- **Step 3** From the Navigation drop-down list, on the top right of the GUI, select Cisco Unified OS Administration.

The Cisco Unified Operation System Administration screen displays.



Enter your user ID and password if prompted to do so.

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Step 4 Navigate to **Software Upgrades > Install/Upgrade**.

- **Step 5** In the Software Location area, specify the following information in the fields:
 - In the Source drop-down list, select Remote Filesystem.
 - In the Directory and Server fields, enter the location of the COP file on the SFTP server.
 - In the User Name and User Password fields, enter the user name and password used to access the SFTP server.
 - In the Transfer Protocol drop-down list, select SFTP.

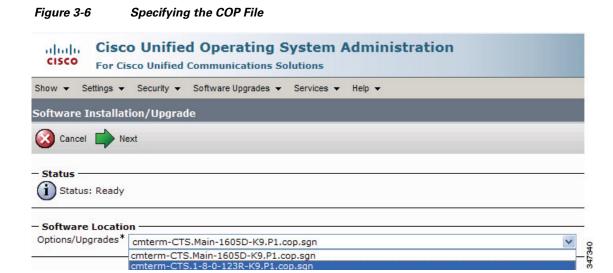
Figure 3-5 Specifying SFTP Server and File Location

	Security - Software Upgrades - Services	Heip
oftware Installa	tion/Upgrade	
🔇 Cancel 📄 N	ext	
• •		
Status		
1 Status: Ready		
 Software Location Source* 	Remote Filesystem	~
Directory*		•
	/home/users/defaultuser/sftpdirectory	
Server*	10.1.1.1	
User Name*	username	
User Password*	•••••	
Transfer Protocol*	SFTP	~
SMTP Server		
Email Destination		

Step 6 Click Next.

Unified CM accesses the SFTP server. The Software Location area lists the COP files that Unified CM finds in the directory that you specified.

Step 7 Choose the COP file that you want to install from the available file names in the Options/Upgrades drop-down list.



Step 8 Click Next.

The Unified CM GUI shows the COP file being installed.

igure 3-7	COP File Installation
	Cisco Unified Operating System Administration For Cisco Unified Communications Solutions
Show - Settin	ngs ▼ Security ▼ Software Upgrades ▼ Services ▼ Help ▼
Software Ins	tallation/Upgrade
Cancel	
-	
- Status	
Download	ding the file
– Download F	ile
File	cmterm-CTS.Main-1605D-K9.P1.cop.sgn
Directory	сор
Server	10.22.147.208
User Name	root
Download Stat	tus ** Accessing the upgrade file, please wait
<u> </u>	
- Cancel -	
- Cancel -	
~	tes required item.
~	tes required item.

- **Step 9** After installation completes, verify the file validity by completing the following steps:
 - a. Make a note of the information in the File Checksum Details area. This value is shown in Figure 3-8.
 - **b.** Log in to the SFTP server and enter the following command:
 - c. md5sum filename.cop.sgn

where:

filename is the file name of the COP file on the SFTP server.

- d. Make a note of the checksum value that displays as a result of the md5sum command.
- e. Compare the MD5 Hash Value that displays in this area to the MD5 checksum value that you find in the COP file on the server and make sure that they match to ensure that the file is not corrupted.
- f. If the values match, continue to the next step; if the values do not match, retry the file installation.

Figure 3-8 File Checksum Details Area

Show - Settings - Security - Software Upgrades - Services - Help -	
Software Installation/Upgrade	
🔇 Cancel 📫 Next	
Status Warning: To ensure the integrity of the installation file, please verify the MD5 hash value against the Cisco Systems web site	
Warning: You may need to stop some services before you install a locale. You may then restart those services after you complete the locale installation details.	al
— File Checksum Details —	
File cmterm-CTS.Main-1605D-K9.P1.cop.sgn	
MD5 Hash Value de:2f:b0:af:9c:d3:c2:b3:8b:cd:1d:77:ec:cd:cc:d8	
Cancel Next	_
(i) *- indicates required item.	17600

Upgrading the CTS Software for Systems That Are Running Cisco TelePresence Software Versions Prior to 1.7.4

Step 10 Click **Next** to begin installation.

The installation log displays the installation progress.

After the .loads, codec and CTT 12 files are extracted, the interface displays a status of Complete in the Installation Status area.

Figure 3-9 Installation Status Area

asso Softwar	e Installation/Upgrade				🚹 Home 🔹	Feeds (J)
cisco	Cisco Unified Operating For Cisco Unified Communications		ninistration			
Show 👻	Settings - Security - Software Upgrades	✓ Services ✓ Help	•			
Software	Installation/Upgrade					
Install	Another					
File	tion Status cmterm-CTS.Main-1605D-K9.P1.cop.sgr e Thu Sep 22 11:01:32 PDT 2011 Locale /common/download//cmterm-CT		cop Successfully installed			
– Installa	tion Log					
no .im Sep 22 11 source /us disable [0] instal Success	gCTS.Main-1605D-K9.P1.loads process g files found processingCTSDEV.Main-1 L:01:41 PDT 2011 Publisher: Starting inst sr/local/cm/db/informix/local/ids.env ; nic anotify rc[0] xml DSN=ccm_super/usr lldb Success[-x] (28055) Thu Sep 22 1 ful running of copstart for option /commo ommon/download//cmterm-CTS.Main-160	1605D-K9.P1.SPA no calldb /bin/su -l info ce /usr/local/cm/bin/ir /local/cm/db/xml/xml 1:02:46 PDT 2011 St n/download//cmterm-	.UBoot files found no .jar file rmix -s /bin/sh -c "source /us stalldb -x /usr/local/cm/db/x installXml rc[0] enablenoti jccessful final run of installdb CTS.Main-1605D-K9.P1.cop.	r/local/cm/db/dblenv.b ml/xml" fy dsn[DSN=ccm_sup (28055) Thu Sep 23	er] enablend 2 11:02:46 Pl	otify rc DT 2011
– Insta	all Another					

Step 11 From the Navigation drop-down list on the top right of the GUI, select **Cisco Unified Serviceability** and click **Go**.

The Cisco Unified Serviceability window displays.

Note

Enter your user ID and password if prompted to do so.

- **Step 12** Restart the TFTP server by completing the following steps:
 - a. Navigate to Tools > Control Center Feature Services.

Figure 3-10 Cisco Unified Serviceability Window

		Unified Serviceabili	
Alarm - Trace	▼ T <u>o</u>	ools ▼ <u>S</u> nmp ▼ <u>C</u> allHome ▼ <u>H</u> e	þ •
		Service Activation	
		Control Center - Feature Services	
Cisco L	In	Control Center - Network Services	
System ver	ior	Serviceability Reports Archive	
System vers	5101	Audit Log Configuration	
		Dialed Number Analyzer	
		CDR Analysis and Reporting	
		CDR Management	
Convright @ 100	0 201	1 Cisco Sustama Tas	

- b. Choose the correct TFTP server from the drop-down list that displays and click Go.
- c. In the CM Services area click the Cisco Tftp radio button.

d. Click the Restart button (either the Restart button on the bottom of the page or the button circled in red in Figure 3-11.

Figure 3-11 Restart Button in Features Services Page



Step 13 From the Navigation drop-down list on the top right of the GUI, select **Cisco Unified CM** Administration and click **Go**.

The Cisco Unified CM Administration window displays.

Step 14 To apply the software to all devices of a specified type, complete the following steps:



To load the software per device, rather than apply it as a default, continue to Step 15.

- a. Navigate to **Device > Device Settings > Device Defaults**.
- **b.** Locate the system to which you want to apply a default codec image.
- **c.** Apply the software image file as the default image file for all systems of a specified type by completing the following steps:
 - 1. In the Load Information field, enter the name of the COP file, making the following changes:
 - If your system uses the codec shown in Figure 3-1, append a file type of .sbn.

In the example in Figure 3-12, the administrator specified a default codec file image of CTS.1-8-0-123R-K9.P1.sbn for all Cisco TelePresence 1100 systems. The original COP file name was cmterm-CTS.1-8-0-123R-K9.P1.

Figure 3-12 Specifying the Default .sbn File Image for All Systems of a Specified Type

alete Device De	efaults Configuration				
diala cisco	Cisco Unified CM A For Cisco Unified Community				
System 👻	Call Routing 👻 Media Resources 👻	Advanced Features - Devi	ce 🔻 Application 👻 User	Management 👻 Bulk Administratio	on 🔻 Help 👻
Device De	faults Configuration				
Save					
🏀 Cisco T	elePresence 1000	SIP	CTS.1-8-0-123R-K9.P1	Default 💌	Standard_Cisco_TelePre: 💙
🏀 Cisco T	elePresence 1100	SIP	CTS.1-8-0-123R-K9.P1	Default 🗸	Standard_Cisco_TelePre: 🗸

• If your system uses the codec shown in Figure 3-2, append a file type of .SPA.

In the example in Figure 3-13, the administrator specified device a default codec file image of CTS.1-8-0-123R-K9.P2.SPA for all Cisco TelePresence 500-32 systems. The original COP file name was cmterm-CTS.1-8-0-123R-K9.P2.

Figure 3-13 Specifying the Default .SPA File Image for All Systems of a Specified Type

device Defaults Con	figuration						6 · 6	🛛 🖃 🕈 Page 🕶 Safety	1
	D Unified CM A	dministration					Navi	gation Cisco Unified CM Ad	n -
CISCO For Cis	co Unified Communio	cations Solutions					admin	Search Documentation	
System 👻 Call Routin	🔹 Media Resources 👻	Advanced Features 👻 🛛	Device - Application - User	r Management 👻 Bulk	Administration 👻 He	lp 👻			
Device Defaults Co	onfiguration								
Save									39
🚸 Cisco TelePreser	ice 500-32	SIP	CTS.1-8-0-123R-K9.P2	2 Default	🖌 Standar	d_Cisco_TelePres 💙			347639
🚸 Cisco TelePreser	ice 500-37	SIP	CTS.1-8-0 EFT1-14D-	k Default	V Standar	d Cisco TelePre: 🗸			34

- 2. Click Save to save your changes.
- **d**. Navigate to **Device > Phone**.
- **e**. Search and access the device type for which you want to apply the new codec image file by completing the following steps:
 - 1. In the Find Phone Where area, choose the Device Type and begins with drop-down choices.
 - 2. Enter the device type for the endpoint; for example, Cisco TelePresence 500-32.
 - 3. Click Find.

An example results screen is shown in Figure 3-14.

Figure 3-14 Results Screen After Device Type Search

cisc		Sisco Unified CM				
System -	- Call	Routing 👻 Media Resources	✓ Advanced Features ▼ Dev	vice - Application	✓ User Management ✓	Bulk Administration 👻 He
Find an	d List	Phones				
Ad	d New	Select All Clear Al	Delete Selected 🏻 😭 R	Reset Selected 💋	Apply Config to Selected	
0	records	found - 4 of 4)				
Find Pho	one wh	ere Device Type	✓ begins with ✓	Cisco TelePreser	ce 501 Find Clear Fil	ter 🕀 😑
<u></u>				Select item or er		
		Device Name(Line) [▲]	Description		Device Type	Device Protocol
	500-32	SEP0022BDD3F33E	CTS 500-32 in room 345	Cisc	TelePresence 500-32	SIP
2	500-32	SEP1CDF0F76F6EF	CTS 500-32 28864 in room	345 Cisc	TelePresence 500-32	SIP
	500-32	SEP1CDF0F76F516	TCE 1 CTS-500-32 System	Ciso	TelePresence 500-32	SIP
V	500-32	SEP1CDF0F76F6F4	CTS 500-32 28865 in Flagf	ish Cisc	TelePresence 500-32	SIP
Add I	New	Select All Clear All	Delete Selected R	eset Selected	Apply Config to Se	elected

 Select the check box on the left side of the page to select all devices. This check box is circled in red in Figure 3-14.

- 5. Click Apply Config to Selected to apply the configuration to all selected devices.
- f. Continue to Step 16.
- **Step 15** To load the software for a specific device, complete the following steps:
 - a. Navigate to **Device > Phone**.
 - **b.** Search and access your device by completing the following steps:
 - **1.** Use the drop-down choices to specify a valid search term, or leave the fields blank to find all devices.
 - 2. Click Find.
 - 3. Click the hypertext link in the Device Name (Line) row that corresponds to your device.
- **Step 16** Apply the 1.8.0 codec file image to your system by completing the following steps:
 - If your system uses the codec shown in Figure 3-1, append a file type of .sbn.

In the example in Figure 3-15, the administrator specified a default codec file image of CTS.1-8-0-123R-K9.P1.sbn for all the specified system. The original COP file name was cmterm-CTS.1-8-0-123R-K9.P1.

Figure 3-15 Specifying an .sbn File Image for a Specific System

cis				Navi	gation Cisco Unified CM				
cis	For Cisco Unified Communications Solut	ions		admin	Search Documentation				
System	System 👻 Call Routing 👻 Media Resources 👻 Advanced Features 👻 Device 👻 Application 👻 User Management 👻 Bulk Administration 👻 Help 👻								
Phone	Phone Configuration Related Links: Back To Find/List								
🔒 s	ave 🗙 Delete 🗋 Copy 🎦 Reset 🖉 Apply	Config 🖵 Add New							
9	Add a new SD	Common Device Configuration	< None >	View Details					
10	Gamanew SD	Phone Button Template*	Standard_Cisco_TelePresence_1100	*					
11	Ga Add a new SD	Common Phone Profile*	Standard Common Phone Profile	*					
		Calling Search Space	< None >	*					
12	Carl Add a new SD	Media Resource Group List	< None >	*					
13	Add a new SD	Location*	Hub_None	~					
14	Ca Add a new SD	User Locale	< None >	*					
15	Ca Add a new SD	Network Locale	< None >	*					
16	Can Add a new SD	Device Mobility Mode*	Default	View Current	Device Mobility Settings				
17	Gar Add a new SD	Owner User ID	< None >	*					
	0	Phone Load Name	CTS.1-8-0-123R-K9.P1.sbn						
18	G <u>⊜ Add a new SD</u>	Use Trusted Relay Point*	Default	*					
19	Add a new SD	Always Use Prime Line*	Default	*					
20	Ca Add a new SD	Always Use Prime Line for Voice Message*	Default	*					
21	Ca Add a new SD	Calling Party Transformation CSS	< None >	*	90				
22	Com Add a new SD	Geolocation	< None >	*	347636				
2010/02/03		Use Device Pool Calling Party Transform	nation CSS		34				

• If your system uses the codec shown in Figure 3-2, append a file type of .SPA.

In the example in Figure 3-16, the administrator specified a codec file image of CTS.1-8-0-123R-K9.P2.SPA. The original COP file name was cmterm-CTS.1-8-0-123R-K9.P2.

Figure 3-16 Specifying an .SPA File Image for a Specific System

ciso				Navigation Cisco Unified CM Adm admin Search Documentation					
ystem	ystem 👻 Call Routing 👻 Media Resources 👻 Advanced Features 👻 Device 👻 Application 👻 User Management 👻 Buik Administration 👻 Help 👻								
hone	hone Configuration Related Links: <mark>Back To Find/List</mark>								
🔒 si	ave 🗙 Delete 🗋 Copy 省 Reset 🧷 Ap	ply Config 🕂 Add New							
13	Add a new SD	Location*	Hub_None	×					
14	Add a new SD	User Locale	< None >	~					
15	Add a new SD	Network Locale	< None >	~					
16	Gen Add a new SD	Device Mobility Mode*	Default	View Current Device Mobility Settings					
		Owner User ID	< None >	 Y 					
	Carl Add a new SD	Phone Load Name	CTS.1-8-0-123R-K9.P2.SPA						

- 4. Click Save.
- 5. Click **Apply Config** to apply the configuration to this device.

The codec shuts down, applies the .SPA codec file as its boot file, and reboots.

- Step 17 Apply the COP (Loads) file to the codec, which in turn allows the CTT 12 file to be installed by the CTT 12, by completing the following steps:
 - a. Redo Step 13 through Step 16 in this section, making the following changes:
 - **b.** In the Load Information field (for all devices of a specified type) or the Phone Load Name field (for a single device), enter the name of the COP file, omitting all file types.

In the examples in Figure 3-13 and Figure 3-16, you would change the file name from CTS.1-8-0-123R-K9.P2.SPA to CTS.1-8-0-123R-K9.P2. In the examples in Figure 3-12 and Figure 3-15, you would change the file name from CTS.1-8-0-123R-K9.P1.sbn to CTS.1-8-0-123R-K9.P1.

- c. Click Save.
- d. Click Apply Config.
- **Step 18** Connect the CTT 12 to the system as described in the "Connecting the Touch Device to the System" section on page 3-22.

Upgrading the CTS Software for Systems That Are Running Cisco TelePresence Software Versions 1.7.4 and Above

To load the COP files to Unified CM and upgrade your codec and CTT 12 software for systems that are running CTS software version 1.7.4 and above, complete the following steps.

Step 5 In the Software Location area, specify the following information in the fields:

- In the Source drop-down list, select **Remote Filesystem**.
- In the Directory and Server fields, enter the location of the COP file on the SFTP server.
- In the User Name and User Password fields, enter the user name and password used to access the SFTP server.
- In the Transfer Protocol drop-down list, select SFTP.

Step 6 Click Next.

Figure 3-17

Show - Settings -	Security - Software Upgrades - Services -	Help 🔻
Software Installa	tion/Upgrade	
Cancel 📥 N	ext	
• •		
- Status		
(i) Status: Ready		
0		
- Software Locati	on	
Source*	Remote Filesystem	*
Directory*	/home/users/defaultuser/sftpdirectory	
Server*	10.1.1.1	
User Name*	username	
User Password*		
Transfer Protocol*	SETP	
SMTP Server	SFIP	•
Email Destination		
Cancel Next	ß	

Figure 3-18 Specifying SFTP Server and File Location

Step 7 Click Next.

Unified CM accesses the SFTP server. The Software Location area lists the COP files that Unified CM finds in the directory that you specified.

Step 8 In the Options/Upgrades drop-down list, choose the COP file that you want to install from the available file names.

Figure 3-19 Specifying the File To Be Used After Installing the COP File

01000	o Unified Operating System Administration sco Unified Communications Solutions	
Show 👻 Settings 👻	Security Seftware Upgrades Services Help	
Software Installa	tion/Upgrade	
🙆 Cancel 📫 N	ext	
- Status		
Status: Ready		
- Software Locatio		
Options/Upgrades*		
Options/ opgrades	cilitarii Croshaii 10000 Kosi 1.copisgi	9
	cmterm-CTS.Main-1605D-K9.P1.cop.sgn	-
	cmterm-CTS.1-8-0-123R-K9.P1.cop.sqn	e e

Step 9 Click Next.

The Unified CM GUI shows the COP file being installed.

Figure 3-20 COP File Installation

CIECO	Cisco Unified Operating System Administration for Cisco Unified Communications Solutions
Show 👻 Setti	ngs 💌 Security 💌 Software Upgrades 💌 Services 💌 Help 💌
Software Ins	tallation/Upgrade
Cancel	
Status Ownload Download Download	ding the file
File	cmterm-CTS.Main-1605D-K9.P1.cop.sgn
Directory	сор
Server	10.22.147.208
	root
Download Sta	tus ** Accessing the upgrade file, please wait
- Cancel -	tes required item.

- **Step 10** After installation completes, verify the file validity by completing the following steps:
 - **a.** Make a note of the information in the File Checksum Details area. This value is circled in Figure 3-21.
 - **b.** Log in to the SFTP server and enter the following command:
 - c. md5sum filename.cop.sgn

where:

filename is the file name of the COP file on the SFTP server.

- d. Make a note of the checksum value that displays as a result of the md5sum command.
- e. Compare the MD5 Hash Value that displays in this area to the MD5 checksum value that you find in the COP file on the server and make sure that they match to ensure that the file is not corrupted.
- f. If the values match, continue to the next step; if the values do not match, retry the file installation.

Figure 3-21 File Checksum Details Area

Show - Settings - Security - Software Upgrades - Services - Help -					
Software Installation/Upgrade					
🔇 Cancel 📫 Next					
Status					
Warning: To ensure the integrity of the installation file, please verify the MD5 hash value against the Cisco Systems web site					
Warning: You may need to stop some services before you install a locale. You may then restart those services after you complete the locale instal installation details.					
File Checksum Details	_				
File cmterm-CTS.Main-1605D-K9.P1.cop.sgn					
MD5 Hash Value de:2f:b0:af:9c:d3:c2:b3:8b:cd:1d:77:ec:cd:cc:d8					
Cancel Next	-				
(i) *- indicates required item.	0001				

Step 11 Click **Next** to begin installation.

The installation log displays the installation progress.

After the .loads, codec and CTT 12 files are extracted, the interface displays a status of Complete in the Installation Status area.

Figure 3-22 Installation Status Area

Software Installation/Upgrade				🚹 Home 🔹	Feeds (J)
Cisco Unified Operating Sy For Cisco Unified Communications Solu		tion			
Show 🕶 Settings 🕶 Security 🕶 Software Upgrades 💌 S	Services 🔻 Help 👻				
Software Installation/Upgrade					
Install Another					
Installation Status					
File cmterm-CTS.Main-1605D-K9.P1.cop.sgn					
Start Time Thu Sep 22 11:01:32 PDT 2011					
Status Locale /common/download//cmterm-CTS.Main	n-1605D-K9.P1.cop Success	fully installed			
-					
processingCTS.Main-1605D-K9.P1.loads processing					<u>^</u>
no .img files found processingCTSDEV.Main-1605D Sep 22 11:01:41 PDT 2011 Publisher: Starting installdb.					
source /usr/local/cm/db/informix/local/ids.env ; nice /us				Jash / Usi / IOCa	i, ciii ,
disablenotify rc[0] xml DSN=ccm_super /usr/local,				er] enableno	otify rc
[0] installdb Success[-x] (28055) Thu Sep 22 11:02:					
Successful running of copstart for option /common/dow Locale /common/download//cmterm-CTS.Main-1605D-K9			(28055) Thu Sep 22	2 11:02:47 PD	DT 2011
Locale / common/download//cmterm-CTS.Main-1605D-KS	3.P1.cop Successfully Install	ea			
Install Another					

Step 12 from the Navigation drop-down list on the top right of the GUI, select **Cisco Unified Serviceability** and click **Go**.

The Cisco Unified Serviceability window displays.

Note

Enter your user ID and password if prompted to do so.

- **Step 13** Restart the TFTP server by completing the following steps:
 - a. Navigate to Tools > Control Center Feature Services.

Figure 3-23 Feature Services

cisco			ified Serviceabili	- Julions	ility
Alarm 👻 👖	irace 👻	T <u>o</u> ols 👻	Snmp • CallHome • He	eb ▲	
		Serv	vice Activation		
			trol Center - <u>F</u> eature Services		
Cisco	o Un	Con	trol Center - Network Services		
System	vorcior	Serv	viceability <u>Reports</u> Archive		1
System	version	Aud	it Log Configuration		-78
		Diale	ed Number Analyzer		And a state of the
		<u>C</u> DR	Analysis and Reporting		641
		CDR	t Management		34764
Convright @	1000 3	011 00	na Sustama Taa	*	

- b. Choose the correct TFTP server from the drop-down list that displays and click Go.
- c. In the CM Services area, click the Cisco Tftp radio button.

- Upgrading the CTS Software for Systems That Are Running Cisco TelePresence Software Versions 1.7.4 and Above
 - **d.** Click the Restart button (either the Restart button on the bottom of the page, or the button circled in red in Figure 3-24.

Figure 3-24 Restart Button in Features Services Page

Cisco Unified Serviceability For Cisco Unified Communications Solutions					
<u>A</u> larm ▼ <u>T</u> race ▼	Tools \checkmark Snmp \checkmark CallHome \checkmark Help \checkmark				
Control Center - J	<u>Feature Services</u>				
Server* tsbu-tes	st-cucm7 🔽 Go	347632			

Step 14 From the Navigation drop-down list on the top right of the GUI, select **Cisco Unified CM Administration** and click **Go**.

The Cisco Unified CM Administration window displays.

Step 15 To apply the software to all devices of a specified type, complete the following steps:



To load the software per device, rather than apply it as a default, continue to Step 16.

- a. Navigate to **Device > Device Settings > Device Defaults**.
- **b.** Locate the system to which you want to apply a default codec image.
- **c.** Apply the image file as the default image file for all systems of a specified type by completing the following steps:
 - **1.** In the Load Information field, enter the name of the COP file, removing the cmterm- in front of the file name.

In the example in Figure 3-25, the administrator specified a default codec file image of CTS.1-8-0-123R-K9.P2 for all Cisco TelePresence 500-32 systems.

Figure 3-25 Specifying the Default Codec File Image for All Systems of a Specified Type

deb Device Defaults Configuration				🚹 🔹 🗟 🔹 🖶 🔹 Page 🔹 Safety
	fied CM Administration			Navigation Cisco Unified CM Adr
CISCO For Cisco Uni	fied Communications Solutions			admin Search Documentation
System - Call Routing - M	edia Resources 👻 Advanced Features 👻	Device - Application - User Management -	Bulk Administration 👻 Help 👻	
Device Defaults Configur	ation			
Save				g
Cisco TelePresence 500	-32 SIP	CTS.1-8-0-123R-K9.P2 Default	Standard_Cisco_TelePres	292
& Cisco TelePresence 500	-37 SIP	CTS.1-8-0 EFT1-14D-k Default	Standard Cisco TelePre: 🗸	200

- 2. Click Save to save your changes.
- d. Navigate to **Device > Phone**.

- **e.** Search and access the device type for which you want to apply the new codec image file by completing the following steps:
 - 1. In the Find Phone Where area, choose the Device Type and begins with drop-down choices.
 - 2. Enter the device type for the endpoint; for example, Cisco TelePresence 500-32.
 - 3. Click Find.

An example results screen is shown in Figure 3-26.

Figure 3-26 Results Screen After Device Type Search

cis		Cisco Unified CM /						
System		I Routing 👻 Media Resources 🔹	 Advanced Features De 	vice 👻 Ap	plication 👻 User Management 👻	Bulk Administration 👻 He		
Find and List Phones								
Add New 🔛 Select All 🔛 Clear All 💥 Delete Selected 🍄 Reset Selected 🧷 Apply Config to Selected								
- Status								
Phone (1 - 4 of 4)								
Find Phone where Device Type 🔹 begins with 🗸 Cisco TelePresence 50 Find Clear Filter 🔂								
\sim				Select iter	m or enter search text	*		
(च)		Device Name(Line) *	Description		Device Type	Device Protocol		
•	500-32	SEP0022BDD3F33E	CTS 500-32 in room 345		Cisco TelePresence 500-32	SIP		
~	500-32	SEP1CDF0F76F6EF	CTS 500-32 28864 in roor	n 345	Cisco TelePresence 500-32	SIP		
~	500-32	SEP1CDF0F76F516	TCE 1 CTS-500-32 System	n	Cisco TelePresence 500-32	SIP		
☑	500-32	SEP1CDF0F76F6F4	CTS 500-32 28865 in Flag	fish	Cisco TelePresence 500-32	SIP		
Add	New	Select All Clear All	Delete Selected	Reset Select	ted Apply Config to Se	lected		

4. Select the check box on the left side of the page to select all devices.

This check box is circled in red in Figure 3-26.

- 5. Click Apply Config to Selected to apply the configuration to all selected devices.
- f. Continue to Step 17.

Step 16 To load the software for a specific device, complete the following steps:

- a. Navigate to **Device > Phone**.
- **b**. Search and access your device by completing the following steps:
 - 1. Use the drop-down choices to specify a valid search term, or leave the fields blank to find all devices.
 - 2. Click Find.
 - 3. Click the hypertext link in the Device Name (Line) row that corresponds to your device.
- **Step 17** Apply the 1.8.0 codec file image to your system by completing the following steps:
 - **a.** In the Phone Load Name field, enter the name of the COP file, removing the cmterm-in front of the file name.

In the example in Figure 3-27, the administrator specified a file name of CTS.1-8-0-123R-K9.P2.SPA

Figure 3-27 Phone Load Name Field

Cisco Unified CM Admi		Navigation Cisco Unified CM Adm					
For Cisco Unified Communication	solutions		admin Search Documentation				
ystem - Call Routing - Media Resources - Adva	inced Features - Device - Application - I	User Management 👻 Bulk Administration 👻 Help 👻					
hone Configuration Related Links: Back To Find/List							
🚽 Save 💥 Delete 🗈 Copy 🎦 Reset 🥒 Apply Config 🕂 Add New							
13 Add a new SD	Location*	Hub_None	~				
14 Can Add a new SD	User Locale	< None >	×				
15 Gran Add a new SD	Network Locale	< None >	×				
16 Can Add a new SD	Device Mobility Mode*	Default	View Current Device Mobility Settings				
	Owner User ID	< None >	View Current Device Mobility Settings				
17 G Add a new SD	Phone Load Name	CTS.1-8-0-123R-K9.P2.SPA	247				
··· ··· ··· · · · · · · · · · · · · ·	11						

- b. Click Save.
- c. Click Apply Config.
- Step 18 Connect the CTT 12 to the system as described in the "Connecting the Touch Device to the System" section on page 3-22.

Connecting the Touch Device to the System

For systems that use the codec shown in Figure 3-1, connect the CTT 12 device, by completing the following tasks:

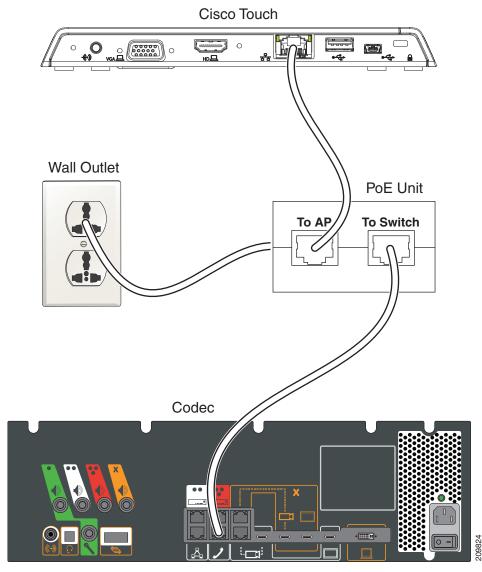
<u>Note</u>

If you need to swap out a Touch device, or are replacing a Cisco Unified IP Phone with a Touch device, reboot the system after installing the new Touch device. For a first-time installation, install the Touch device before powering on the system.

- **Step 1** Connect one Ethernet cable between the "Network Uplink Input RJ-45" port on the rear of the CTT 12 and the connection labeled "To AP" on the PoE unit.
- **Step 2** Connect one Ethernet cable between the "To Phone" connection on the codec and the connection labeled "To Switch" on the PoE unit.

Step 3 Connect one end of the power cord to the PoE unit and plug the other end into a wall outlet.

Figure 3-28 Cisco TelePresence Touch Connections with Power over Ethernet Unit



Note

After you connect the Touch device, you should see a series of circled numbers on the lower left side of the Touch display. The numbers change to check marks as the device is starting. If the circled numbers do not change to check marks or you receive a message on the Touch device that it could not register to the codec, disconnect the Touch device, wait 5 minutes, then reconnect it.

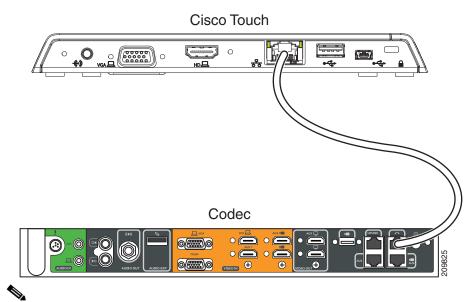
For systems that use the codec shown in Figure 3-2, connect the CTT 12 by performing the following tasks:

Step 1 Connect the other side of the Ethernet cable to the "To Phone" connection on the system codec.

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- Special Restriction for CTS-500-32 Systems Running Cisco TelePresence System Software Version 1.7.1.1
 - **Step 2** Connect one side of the Ethernet cable that is supplied with the CTT 12 to the "Network Uplink Input RJ-45" port on the rear of the device.





Note

After you connect the Touch device, you should see a series of circled numbers on the lower left side of the Touch display. The numbers change to check marks as the device is starting. If the circled numbers do not change to check marks or you receive a message on the Touch device that it could not register to the codec, disconnect the Touch device, wait 5 minutes, then reconnect it.

Special Restriction for CTS-500-32 Systems Running Cisco TelePresence System Software Version 1.7.1.1

Some Cisco TelePresence System 500-32 systems come pre-loaded with Cisco TelePresence System (CTS) Software Version 1.7.1.1. If you need to replace a codec, that codec might also come pre-loaded with version 1.7.1.1 software. In this case, you cannot immediately load the newest version of CTS software and need to perform an interim upgrade to 1.7.x. To do so, modify the following steps in the "Upgrading the CTS Software for Systems That Are Running Cisco TelePresence Software Versions Prior to 1.7.4" section on page 3-5:

- **Step 1** Follow Step 1 through Step 16, replacing the 1.8.0 file shown with a 1.7.x file (for example, 1.7.5 or 1.7.6).
- **Step 2** For Step 7 and Step 8, download both the 1.7.x file and the minimum version 1.8.0 file.



You need two files for this procedure: The file on which you want your system to run, and the 1.7.x file.

Special Restriction for CTS-500-32 Systems Running Cisco TelePresence System Software Version 1.7.1.1

Step 3 Continue to Step 17 with no further changes.

Chapter 3 Upgrading From a Cisco Unified IP Phone to a Cisco TelePresence Touch 12

Special Restriction for CTS-500-32 Systems Running Cisco TelePresence System Software Version 1.7.1.1



Troubleshooting Touch Device Installation Issues

Revised: November 13, 2013, OL-25603-01

The following chapter describes troubleshooting steps for the installation and upgrade of your Touch device and includes the following sections:

- Retrieving Log Files for Your Device, page 4-1
- Troubleshooting Installation and Upgrade Issues, page 4-2
- Determining the Cause of the Error By System Check Number During Bootup, page 4-2
- Troubleshooting "Establishing Connection" Errors on the Touch Panel, page 4-5



The display used in this product contains mercury. Dispose of according to local, state, and federal laws.

Retrieving Log Files for Your Device

If your software does not install or upgrade successfully, a good way to begin troubleshooting is to obtain the log files for the Cisco TelePresence system that you are attempting to upgrade. To do so, complete the following steps:

- **Step 1** Log into the Cisco TelePresence system that you are attempting to upgrade by entering the IP address for the system.
- **Step 2** Enter the user name and password for your device.

By default, the user name is **admin** and the password is **cisco**.

- **Step 3** Navigate to **Troubleshooting > Log Files**.
- **Step 4** Check the log files under the **Sysop Log** tab.

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Troubleshooting Installation and Upgrade Issues

Most installation issues involve problems that occur during the software upgrade process. Check the log files as shown in the "Retrieving Log Files for Your Device" section on page 4-1 and attempt to troubleshoot the problem.

The following procedures might help you to find a solution for your problem:

• You attempted to upgrade directly from an image prior to 1.7.4 to an image that is 1.8.0 or greater. To upgrade from pre-1.7.4 images, see the "Upgrading the CTS Software for Systems That Are Running Cisco TelePresence Software Versions Prior to 1.7.4" section on page 3-5.

For additional troubleshooting steps, continue to the "Determining the Cause of the Error By System Check Number During Bootup" section on page 4-2 and review the problems based on the system check number. If you still cannot determine the cause of the problem, review the installation and upgrade sections in this document and make sure that you did not omit any steps.

Determining the Cause of the Error By System Check Number During Bootup

Occasionally, the Touch device will stop during the bootup process. You can attempt to determine the error by looking at the check marks on the lower left of the screen. There are seven check marks, numbered one to seven. The numbers change into check marks as the bootup continues Figure 4-1 shows the Touch device having completed six of the seven internal checks.

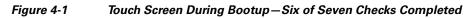




Table 4-1 provides you with an explanation of the numbers and possible reason for the failure.

Table 4-1 System Check Number and Explanation/Troubleshooting Steps

System Check Number	Explanation and Troubleshooting Steps				
1	Power-on self test. If the device fails during this check mark, contact your Cisco technical support representative for a replacement.				
2	UBoot (universal boot loader) loads the boot image on to the RAM.				
	Issues that could occur during this check include a power outage, or the user/installer unplugging the Power over Ethernet (PoE) cable. To attempt to fix this problem, disconnect the PoE cable and then reconnect it.				
3	UBoot performs a cyclical redundancy check (CRC) on the boot image. If the CRC check fails, this number will be crossed out. If the Touch device is being booted on the active slot, the UBoot program attempts to switch to the backup slot and reset the Touch. If the Touch device is being booted on the backup slot, then UBoot will not switch and sit at the UBoot prompt.				
	If this problem continues, it indicates that the image on both the active and backup Flash slots are corrupted. You can attempt to disconnect the Ethernet cable from the system, reload a new software image on the codec, then reconnect the system. For more information, see Chapter 2, "Installing the Cisco TelePresence Touch 12 That Ships With a New Product."				
4	The system acquires an IP address, either using the dynamic host configuration protocol (DHCP) in your network or using a manual address you set on the system. If the system cannot obtain an IP address, the number is crossed out and an error message "Unable to communicate with the codec" is displayed.				
	If you see the "Unable to communicate with the codec" message, a possible reason is that a VLAN is set up as both an access VLAN and a voice VLAN. To fix this problem, configure separate VLANs for access and voice.				
	To specify a static IP address for your device, log in to the Cisco TelePresence Administration system as the admin user, navigate to Configuration > IP Settings , change the DHCP Enabled setting to No , and specify a static IP address, subnet mask, gateway and DNS server. You must reboot your codec after you configure a static IP address.				
	Note You must use a DHCP-enabled computer to specify an IP address, and you must connect the computer to the correct port on the codec. For more information, refer to the "First-Time Setup" chapter for your system. For example, for a TX9000 or TX9200 system, refer to the "Setting Up a TX9000 or TX9200 System That Uses a Static Network Address" section of the "First-Time Setup" chapter of the <i>Cisco TelePresence System TX9000 and TX9200 Assembly, First-Time Setup, and Field-Replaceable Unit Guide</i> .				
	You might receive the following message on the Cisco TelePresence Administration console during this stage of the bootup process: "Room Phone (not connected)". You can ignore this message. At the early stages of Touch initialization, the Cisco TelePresence system cannot detect the Touch device, and this message is received. Once the system recognizes the Touch device, you will receive a system message "Touch Screen (connected / status)".				

System Check Number	Explanation and Troubleshooting Steps
5	The system loads the system image from Unified CM through the codec and onto the Touch device.
	• If the system cannot retrieve the image within 2 minutes, 5 is crossed out and the message "Unable to retrieve the boot image" is displayed on the device and in the system error logs. If you find this error, check the following issues:
	 The system has not yet been registered to Unified CM. The system receives its image from Unified CM, and you must register your system to download the image.
	- The file has not yet been loaded on the Unified CM server.
	- The file is loaded, but the TFTP server has not been restarted.
	 You did not specify the correct file name in the Cisco Unified Communications Manager (Unified CM) administrative GUI.
	 The file existed on the Unified CM server, but has been deleted. The Touch device gets its image directly from the Unified CM server via the codec. See Figure 1-1 in Chapter 1, "Understanding COP and Loads Files for the Cisco TelePresence System."
	 You specified an invalid file name for your system. Generally, the CTS-500-37, CTS-1000, CTS-1100, CTS-1300-65, CTS-3010, and CTS-3210 use the COP file with a name ending in P1, while the CTS-500-32, CTS-1300 47, TX1310 65, TX9000, and TX9200 use the COP file with a name ending P2.
	 For all releases before 1.7.4: You did not specify the file type after the file name, or you specified an invalid file type. The CTS-500-37, CTS-1000, CTS-1100, CTS-1300-65, CTS-3010, and CTS-3210 use a file extension of .sbn, while the CTS-500-32 and CTS-1300-47 use a file extension of .SPA.
	 For all releases after and including 1.7.4: When you specified the file name, you entered a file type (extension) along with the file name. Enter the file name with no extension in the Unified CM GUI.
	 You directly uploaded the files by using the Software Upgrades > TFTP File Management > Upload File choice in Unified CM. This method is unsupported.
	 If the system retrieves the image, but the image is corrupted or unsigned, 5 is crossed out and the message "Boot image corrupted" is displayed. To fix this problem, reload the COP file on the Unified CM server, or upload a different file on the server, as this error indicates a corrupted COP file on the codec.
	• If the kernel image is corrupted due to some software packaging issue, 5 is crossed out and the message "Unable to extract the boot image" will be shown. There is no workaround.
	• If the image cannot be copied to the flash device, 5 is crossed out and the message "Unable to update flash" is displayed. There is no workaround.
6	The file system has completed extracting and the Touch device moves its active slot to the slot of the extracted image. If there is a problem extracting the file system contents, then 6 is crossed out and the message "Unable to extract the boot image" is displayed.
	The only workaround is to wait 90 seconds for the system to re-attempt a reboot.
7	The user interface becomes active on the Touch screen. There is no workaround if this box does not become checked.

Troubleshooting "Establishing Connection" Errors on the Touch Panel

If your touch panel displays text "Establishing Connection" after it boots up successfully, there could be an issue with the Manufacturing Installed Certificate (MIC). The full error that displays is the following text:

Establishing Connection Attempting to connect with the system. Please wait a moment.

To verify this error, log in to the system codec using a secure terminal session, such as SSH Secure Shell, and enter the CLI command **show cert mic**. The output should return an error that there is no certificate.

You can also check the Log Files section of the GUI. The following error should appear at the top of the sysop log files:

If you are attempting to register to a secure device profile, the registration fails, because the MIC is not available.

To resolve this problem, perform a factory initialization or a factory reset as shown in the following procedure.

Troubleshooting "Establishing Connection" Errors on the Touch Panel: Summary Steps

Step 1 Log in to the system via a secure terminal session such as Secure Shell SSH, then enter the show the **show cert mic** command.

Step 2 If the command output indicates that the MIC certificate could not be found, enter the **utils system** factory init command.

The system reboots several times during this process.

Troubleshooting "Establishing Connection" Errors on the Touch Panel: Detailed Steps

- **Step 1** Log in to the system via a secure terminal session such as Secure Shell SSH, then enter the show the **show cert mic** command.
- **Step 2** If the command output indicates that the MIC could not be found, complete the following steps to perform either a factory initialization of a factory reset.

The following differences exist between a factory initialization or a factory reset:

• A factory initialization of your system reboots your system using that image that the system finds in Unified CM and regenerates the necessary certificate. It is suggested that you use this method.

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Your Unified CM server must use Option 150 of the Dynamic Host Configuration Protocol (DHCP), specifying the IP address of the Unified CM server as the TFTP server address. If your system does not use DHCP, you must specify the server location after the system reboots.

• A factory reset of your system reboots your system using the image that was loaded on the codec at the factory, clears all configuration (including all IP and Cisco Unified Communications Manager (Unified CM) configuration, the camera white balance, and microphone calibration) and regenerates the necessary certificate.

To factory reset your system, you require access to the system GUI or access to the system console using a secure CLI or web GUI of the codec, as well as access to the system, so that you can directly connect an Ethernet cable to the system codec. An Ethernet cable and a laptop running DHCP are also required.

Step 3 Make a note of the IP and Unified CM configuration by completing the following actions:



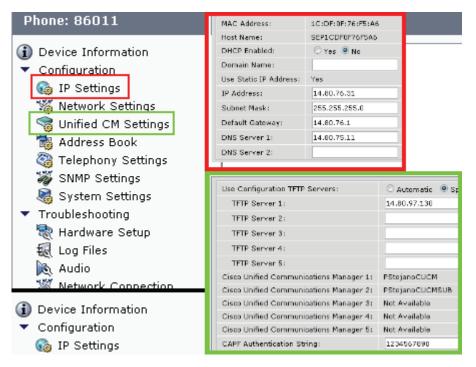
While this step is required only if you do a factory reset of your system, it is good practice to make a note of all settings, in case there are any problems with the reset procedure.

- **a.** Log in to the Cisco TelePresence System Administration GUI. By default, the user ID is **admin** and the password is **cisco**.
- **b.** Navigate to **Configuration > IP settings** and make a note of the IP settings.
- c. Navigate to Configuration > Unified CM settings and make a note of the Unified CM settings. The IP address under TFTP server 1 is the IP address of the Unified CM server.



Make sure to note whether DHCP is turned on or off for both the IP and the Unified CM settings.





- **Step 4** Perform either a factory initialization or a factory reset of your system by completing the following steps:
 - To perform a factory initialization, which reboots your system from the image that is found in Unified CM, complete one of the following actions:
 - Log in to the system via a secure CLI session, such as SSH Secure Shell, and enter the **utils** system factory init command. Type yes when you are prompted.

The system reboots and loads the image that is specified in Unified CM.

 In the Cisco TelePresence Administration GUI, navigate to the Configuration > Configuration Issues window and click the Revert to Factory Configuration... button. Click OK when you are prompted.

This completes the procedure for a factory initialization. If you have any problems with the reboot, continue to the Step 5 to verify the IP settings, Unified CM settings, white balance, and microphone calibration.

• To reset your system, which causes the system to reboot with the factory image instead of the image that is specified in Unified CM, enter the **utils system factory reset** command at the command prompt. Type **yes** when you are prompted. Continue to Step 5.

The system reboots and loads the image that was loaded on the codec from the factory.

- Step 5 After the system reboots, manually re-enter the IP settings by completing the following steps:
 - a. Directly connect a DHCP-enabled PC to the codec using an Ethernet cable.
 - If your codec looks like the codec in Figure 4-4, connect the Ethernet cable to the auxiliary camera port of the primary codec. The connection on the port is the Ethernet port labeled "Aux" with a camera icon next to it. The port is on the far lower right in Figure 4-4. The following systems use this codec:

Cisco TelePresence System 500-32 (PID: CTS-500-32)

Cisco TelePresence System 1300-47 (PID: CTS-1300-47)

Cisco TelePresence System TX1310-65 (PID: CTS-TX1310-65)

Cisco TelePresence System TX9000 (PID: CTS-TX9000)

Cisco TelePresence System TX9200 (PID: CTS-TX9200)



For the Cisco TelePresence Systems TX9000 and TX9200, connect the cable to the TS1 codec. The location of TS1 is the second codec from the left after you open the cabinets under the displays. For an example, refer to the following URL: http://www.cisco.com/en/US/docs/telepresence/tx9000/assembly_guide/tx9000_installing_the_electronic_equipment_and_camera.html#wp1122096

• If your codec looks like the codec in Figure 4-3, connect the Ethernet cable to the secondary camera port of the primary codec. This connection is listed as the auxiliary network port in Figure 4-3. The following systems use this codec:

Cisco TelePresence System 500-37 (PID: CTS-500-37)

Cisco TelePresence System 1000 (PID: CTS-1000)

Cisco TelePresence System 1100 (PID: CTS-1100)

Cisco TelePresence System 1300-65 (PID: CTS-1300)

Cisco TelePresence System 3000 (PID: CTS-3000)

Cisco TelePresence System 3010 (PID: CTS-3010) Cisco TelePresence System 3200 (PID: CTS-3200) Cisco TelePresence System 3210 (PID: CTS-3210)

<u>}</u> Tip

If any cables are connected to the port, you can unplug the cable, as long as you reconnect it after you complete these steps.

Figure 4-3 Codec CTS-CODEC-SING-G1 or CTS-CODEC-PRI-G2R

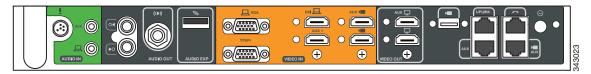
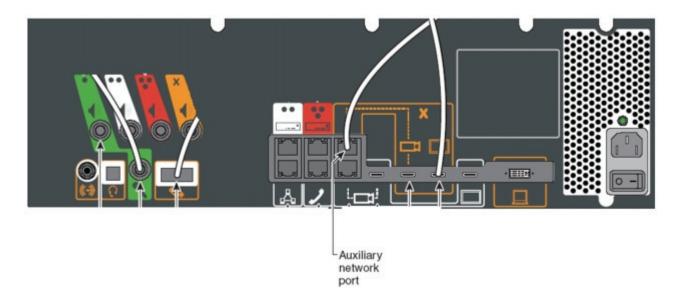


Figure 4-4 Codec CTS-CODEC-PRI-G2 or CTS-CODEC-PRIM



b. Ensure that your local network interface is set to DHCP so that the codec assigns an IP address to your laptop.

On Windows 7, set your DHCP settings under **Control Panel > Network** and **Internet > Network Connections**. Right-click your wired interface and select **Properties**. Then click **Internet Protocol Version 4** and click the **Properties** button. Make sure that the **Obtain an IP Address Automatically** radio button is selected.

- c. Open a command prompt and type ipconfig.
- d. Make a note of the IP address for your wired connection in the command output.

- e. In a web browser, enter *xxx.xxx*.1 where the first three octets match your local IP address. The codec will assign you an address such as 192.168.2.2. In that case, open a browser and enter 192.168.2.1 to open the Cisco TelePresence Administration GUI. The codec can also assign 10.x.x.x addresses.
- f. From the Cisco TelePresence Administration GUI, navigate to Configuration > IP Settings and Configuration > Unified CM Settings and restore the IP and Unified CM values to their previous values.

Note

Be sure to specify the correct DHCP settings (either Yes or No).

The system reboots and either upgrades its image to the version that is specified in Unified CM, or initializes with the factory image, depending on what you specified in Step 3. The system might reboot multiple times during this process.

- **Step 6** If you reset your system with the factory image, reload the current image onto your system
- **Step 7** Reset the camera white balance by following the procedure in the "Setting Up the Cameras" section of the "First-Time Setup" chapter for your system.

For first-time setup instructions, refer to the Cisco TelePresence System Assembly Guide for your system on Cisco.com:

Cisco TelePresence System 500-32 Assembly, Use & Care, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_500/cts_500_32/assembly/guide/cts_500_32_g uide.html

Cisco TelePresence System 500-37 Assembly, Use & Care, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_500/500_assembly_guide/500_first_time_setu p.html

Cisco TelePresence 1000 Assembly, Use & Care, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_1000/assembly/guide/t1hwch06.html

Cisco TelePresence System 1100 Assembly, First-Time Setup, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_1100/cts_1100_assembly_guide/1100_first_ti me_setup.html

Cisco TelePresence System TX1300 47 Installation, First-Time Setup, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_1300/cts_1300_47/assembly/guide/1300_47_a ssembly_guide.html

Cisco TelePresence System 1300-65 Assembly, First-Time Setup, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_1300/cts_1300_assembly_guide/1300_first_ti me_setup.html

Cisco TelePresence System TX1310 65 Assembly, First-Time Setup, and Field Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_1300/cts_1310/assembly/guide/1310_assembl y_guide.html

Cisco TelePresence System 3000 Assembly, Use & Care, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_3000/guide/3000_First_Time_Setup.html

Cisco TelePresence System 3010 Assembly, Use & Care, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_3010/assembly_guide/3010_first_time_setup.h tml

Cisco TelePresence System 3200 Assembly, Use & Care, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_3200/assembly_guide/3200_First_Time_Setup .html

Cisco TelePresence System 3210 Assembly, Use & Care, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/cts_3210/assembly_guide/3210_first_time_setup.h tml

Cisco TelePresence System TX9000 and TX9200 Assembly, First-Time Setup, and Field-Replaceable Unit Guide:

http://www.cisco.com/en/US/docs/telepresence/tx9000/assembly_guide/tx9000_9200_assembly_g uide.html

Step 8 If you have a Cisco TelePresence System TX1300 47, TX1310 65, TX9000 or TX9200, re-calibrate the microphones as shown in the "Setting Up the Microphones" section of the Cisco TelePresence System TX9000 and TX9200 Assembly, First-Time Setup, and Field-Replaceable Unit Guide. The calibration procedure is the same for all systems.