



Configuring Cisco TelePresence Features for the IX System

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This chapter covers the following topics:

- [Ad Hoc Conferencing, page 2-1](#)
- [Enabling Directory Support on the Touch 10 Device, page 2-3](#)
- [Configuring the BFCP over UDP Collaboration Feature, page 2-4](#)
- [Touch 10 Screen Dimming, page 2-7](#)

Ad Hoc Conferencing

The IX system supports ad hoc conferencing, in which an existing point-to-point call is escalated into a conference by adding more video and audio participants. The ad hoc conference does not require scheduling the meeting beforehand using a meeting scheduler such as TelePresence Management Suite. Ad hoc conferencing is also referred to as ad hoc escalation.

In earlier IX releases, you could only add one audio-only participant to an existing call hosted by Unified CM). With ad hoc conferencing, you can add up to 64 video and audio participants to an existing call. Ad hoc conferences with audio participants are hosted by Cisco TelePresence Server (TS). Ad hoc conferences with video participants only are hosted by Unified CM.

You configure the maximum number of participants (video endpoints) using Unified CM settings. For more information, see the [“Configuring Advanced Ad Hoc Conferencing Support” section on page 2-2](#).



Note

The Cisco TelePresence Server (TS) capacity determines the actual number of participants you can add to an ad hoc conference. T

On the IX system, to add a participant to an existing call, tap **Add** on the Touch 10 device. Enter the number or directory entry and tap **Call**, and then tap **Merge**. As more video participants join a meeting, the screen layout on the IX system automatically adjusts.

Basic ad hoc conferencing requires that Media Resource Group Lists are configured with TelePresence Conductor. You must also configure TelePresence Conductor to support ad hoc conferences. For more information, see the [Cisco TelePresence Conductor with Cisco Unified Communications Manager Deployment Guide](#) for release XC4.0 or later.

Ad hoc conferencing support on the IX system includes the following limitations:

- To add participants to an ad hoc conference, the Advanced Ad Hoc Enabled setting must be set to True on the IX. See [Table 2-1](#) for more information.
- Rendezvous conferences, in which other endpoints can join the conference by dialing a conference number or URI into the IX system, are not supported.
- If there are more than 16 participants in an ad hoc conference, only the 16 who were added most recently are shown in the participants list.
- When an ad hoc conference is audio-only, the list of participants is not visible.
- Dropping a particular participant from the ad hoc conference by the conference originator (active control) is not supported.
- The IX does not support Linear and Non-Linear linking of ad hoc conferences.
- The IX system can create secure conferences with both audio and video participants. Secure conferences are only possible with endpoints running IX, TX, or CTS software. If an endpoint running other software (such as CE8 or TC7) is added to a secure ad hoc conference, that endpoint is added as an audio-only participant.

Configuring Advanced Ad Hoc Conferencing Support

When configuring the IX in Unified CM, basic ad hoc conferencing is enabled using the “Multipoint Mode” field in the Product Specific Configuration Layout Area. Choose the “Use Media Resource Group List” option to use the Conference Bridge (media resources) feature on Unified CM with TelePresence Conductor. For more information, see the “[Product Specific Configuration Layout Area](#)” section on [page 1-21](#).

To configure advanced Ad Hoc conferencing parameters, perform the following steps:

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- Step 1** Log in to the Cisco Unified CM Administration interface.
 - Step 2** Navigate to **System > Service Parameters**.
 - Step 3** From the **Server** drop-down list, choose the server.
 - Step 4** From the **Service** drop-down list, choose Cisco CallManager.
 - Step 5** Configure the fields in the **Clusterwide Parameters (Features - Conference)** area. See the Related Topics section for more information about the fields and their configuration options.

The table below lists advanced hoc conferencing parameters supported on the IX. For more complete information about ad hoc conferencing in Unified CM, see the “Ad Hoc Conferencing” chapter of the [Feature Configuration Guide for Cisco Unified Communications Manager](#) for your release.

- Step 6** Click **Save**.
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Table 2-1 **Advanced Ad Hoc Conferencing Settings**

Field	Setting
Drop Ad Hoc Conference	<p>Specifies whether the ad hoc conference is dropped when the originator of the conference leaves the conference.</p> <ul style="list-style-type: none"> • Never—The ad hoc conference does not get dropped. • When Conference Controller Leaves—The ad hoc conference is dropped when the originator of the conference leaves.
Maximum Ad Hoc Conference	<p>Specifies the maximum number of video endpoints that can join the ad hoc conference. The default value is 4 and the maximum is 64.</p> <p>Note Even if you set the maximum number of participants to that the actual limit is governed by the host TelePresence Server capacity.</p>
Advanced Ad Hoc Conference Enabled	<p>Specifies who can add new participants to an ad hoc conference.</p> <ul style="list-style-type: none"> • False—Only the conference originator can add a new participant to an ad hoc conference. This is the default setting. • True—Any ad hoc conference participant can add a new participant to an existing ad hoc conference. This option requires that the endpoint of the participant adding the new participant have the Unified CM “Multipoint Mode” field set to the Use Media Resource Group List setting.
Non-Linear Ad Conference Linking Enabled	<p>Enables Non-Linear ad hoc conferencing linking.</p> <p>Note Non-Linear and Linear Linking of ad hoc conferences is not supported on the IX.</p>
Minimum Video Capable Participants	<p>Defines the number of minimum number of video-capable endpoints required to start a video ad hoc conference. The valid range is from 1 to 3. The default value is 2.</p> <p>The minimum video capable participants setting works as follows:</p> <ul style="list-style-type: none"> • If fewer video-capable endpoints are present when the ad hoc conference begins, the conference converts to an audio-only conference hosted by Unified CM. • If video-capable endpoints are added to an existing audio-only ad hoc conference, the conference remains audio-only.

Enabling Directory Support on the Touch 10 Device

The **Directory** button on the Cisco TelePresence Touch 10 allows a user to look up TelePresence phone numbers for co-workers. To support this feature for the IX system, configure either corporate directories in Unified CM, or Phone Books in Cisco TMS (TelePresence Management Suite).

For more information about configuring corporate directories, refer to the “LDAP System Setup”, “LDAP Directory Setup”, and “LDAP Authentication Setup” sections in the [Cisco Unified Communications Manager Administration Guide](#) for your Unified CM release.

To set up a Directory for the user from the Cisco Unified Communications Manager Administration interface:

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- Step 1** Log in to the Cisco Unified Communications Manager Administration interface.
 - Step 2** Navigate to **System > Enterprise Parameters**.
 - Step 3** Scroll to **Self Care Portal Parameters**.
 - Step 4** Locate Allow Directory Search from the list and choose **True** (the default setting) from the drop-down list.
 - Step 5** Click **Save** to save your settings. The change will take effect on next sign-in to Cisco Unified Communications Manager User Options window.
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To use Cisco TMS Phone Books for your directory, the Alternate Directory Type field in the Product Specific Configuration Layout Area must be set to TMS. For more information, see the [“Product Specific Configuration Layout Area” section on page 1-21](#). For more information about configuring phone books in Cisco TMS, see the “Creating and Managing Phone Books” section of the *Cisco TelePresence Management Suite Administrator Guide*.

Configuring the BFCP over UDP Collaboration Feature

Binary Floor Control Protocol (BFCP) is used to control access to the media resources in a meeting. BFCP allows the IX system and the remote endpoints to view presentation and main display video simultaneously. It also supports some third-party TelePresence endpoints.

The IX system offers three media lines: one for audio, one for the main video, and the other for presentation or content using the session description protocol (SDP). Also, an application line is sent in the SDP for the BFCP control channel.

The bandwidth of the presentation media line matches the capability of the IX system. For example, if the IX system is configured for the maximum rate of 1080p at 30 frames per second (fps), the presentation media line bandwidth is 4Mbps.

The IX system uses BFCP over user datagram protocol (UDP) in both secure and nonsecure BFCP modes.

BFCP Compatibility With Legacy Immersive Endpoints

BFCP is enabled by default on all Cisco TelePresence immersive endpoints beginning with CTS Release 1.8. Endpoints using CTS software prior to CTS Release 1.8 must either disable BFCP on all new SIP profiles in the Unified CM Administration interface, or upgrade all CTS endpoints to CTS Release 1.8.

Configure your system in the following order:

1. [Configuring VCS To Use BFCP, page 2-4](#)
2. [Configuring Unified CM to Use BFCP, page 2-5](#)

Configuring VCS To Use BFCP

To enable BFCP with Cisco VCS, you must perform the following steps:

- Change parameters in the VCS Zone in the Cisco VCS administration interface.

- Add a custom BFCP profile to the trunk between Cisco VCS to Unified CM in the Cisco Unified Communications Manager Administration interface.

The Video Communication Server (VCS) and Unified CM must be operational before you perform these steps.

For complete Cisco VCS configuration support and information, refer to the [Cisco VCS and CUCM Deployment Guide](#) for your VCS software release.

To change the Zone configuration in Cisco VCS:

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- Step 1** Log into VCS as an administrative (admin) user.
 - Step 2** Navigate to **Configuration > Zones > Zones**.
 - Step 3** Select the zone for the Unified CM server to which the IX system is registered by clicking the hyperlink for that zone.
 - Step 4** In the Advanced area, select **Cisco Unified Communications Manager (8.6.1 or later)** from the drop-down list.
 - Step 5** Click **Save**.
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Configuring Unified CM to Use BFCP

This section includes the steps you perform to configure BFCP for Unified CM and includes the following topics:

- [Adding a New BFCP Profile, page 2-5](#)
- [Configuring the Unified CM Trunk, page 2-6](#)

Adding a New BFCP Profile

To add a new profile for BFCP, follow the steps in this section.



Note

Associate this profile with every trunk and device that uses BFCP for presentations. To enable BFCP for a device, navigate to **Device > Phone**, select the device, and check the “Allow Presentation Sharing using BFCP” check box in the “[Protocol-Specific Information Area](#)” section on [page 1-18](#).

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- Step 1** Navigate to **Device > Device Settings > SIP Profile**.
 - Step 2** Click **Add New**. The SIP Profile Configuration window appears.
 - Step 3** Create a name for the BFCP profile. For example, “Standard BFCP SIP Profile.”
 - Step 4** In the SDP Information area, click to select the **Allow Presentation Sharing using BFCP** check box, as shown in [Figure 2-1](#).



Note

There are two SDP Profile areas. Navigate to the second one at the bottom of the page.

Figure 2-1 SIP Profile Information - Allow Presentation Sharing Using BFCP

SDP Information

- Send send-receive SDP in mid-call INVITE
- Allow Presentation Sharing using BFCP
- Allow iX Application Media
- Allow multiple codecs in answer SDP

- Step 5** Leave the remaining field defaults.
- Step 6** Click **Save**, then click **Apply Config**.
- Step 7** Configure the BFCP trunk by performing the tasks in the “[Configuring the Unified CM Trunk](#)” section on page 2-6.

Configuring the Unified CM Trunk

- Step 1** Navigate to **Device > Trunk**.
- Step 2** Select the SIP trunk by clicking the hyperlink for it in the Name area.
- Step 3** In the SIP Information area, change the SIP Profile field to use the trunk you created in the “[Adding a New BFCP Profile](#)” section on page 2-5. [Figure 2-2](#) shows the Standard BFCP SIP Profile selected in the SIP Profile field.

Figure 2-2 Selecting the BFCP Profile

SIP Information

Destination

Destination Address is an SRV

	Destination Address	Destination Address IPv6	Dest
1*	10.35.206.31		5061

MTP Preferred Originating Codec*

BLF Presence Group*

SIP Trunk Security Profile*

Rerouting Calling Search Space

Out-Of-Dialog Refer Calling Search Space

SUBSCRIBE Calling Search Space

SIP Profile* [View Details](#)

DTMF Signaling Method*

Normalization Script

- Step 4** (Optional) Configure security between the Unified CM and Cisco VCS for EX and C Series endpoints by choosing **vcs-interop-ix** in the Normalization Script window, as shown in [Figure 2-3](#).

Figure 2-3 Normalization Script Window - VCS Interop Security

Normalization Script	
Normalization Script	vcs-interop-ix
<input type="checkbox"/> Enable Trace	
Parameter Name	Parameter Value
1	

- Step 5** Click **Save** to save your settings.
- Step 6** During an appropriate time, click **Reset** to reset the trunk and apply the new BFCP settings.



Caution Clicking **Reset** disconnects any calls being made on this trunk. Perform this step during a time of low call activity.

Touch 10 Screen Dimming

To save power and extend the lifespan of the Cisco TelePresence Touch 10 device, the Touch 10 dims between the hours specified in the Product Specific Configuration Layout. The settings are configured in the Display on Time and Display on Duration fields. For more information, see the [“Product Specific Configuration Layout Area”](#) section on page 1-21.

When dimming is active, the screen is dimmed and the home button is glowing. If the Touch 10 or one of its hard buttons is touched, the device turns back on. The device stays on until the system has been idle for one hour. At that time, the screen dims again.

The screen will not dim during the specified hours when the system is in a call, recording, or troubleshooting. The screen automatically wakes up when an incoming call or popup notification appears, or when an upgrade begins.

