



Configure Presentation Sharing using BFCP

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Binary Floor Control Protocol Overview

Unified Communications Manager supports presentation sharing using the Binary Floor Control Protocol (BFCP) for supported Cisco endpoints and third-party video endpoints. This feature lets users share a presentation within ongoing audio or video conversation.

The following example describes how presentation sharing works using BFCP:

- An ongoing video conversation exists between two video phones. User A decides to share content with User B during the conversation. User A has the option to share the entire screen or share the specific application.
- The BFCP stream allows User B to view User A's shared content.

An audio-video call with content share requires at least four channels: audio, main video, the second video, and BFCP control channel, to achieve video conferencing and sharing presentations in the second video channel. If the call parties are capable of Far-End Camera Control (FECC), a fifth channel must be established.

Presentation Sharing with BFCP

From release 12.5(1)SU3 onwards, for Unified Communications Manager registered SIP endpoints, the BFCP work when:

- Two video-capable endpoints that start the conversation in audio-only mode share content during the call using BFCP support.
- TRP is allocated during the call.

BFCP Architecture

Presentation sharing using BFCP is supported only on BFCP enabled SIP networks. The entire network, including the endpoint devices and trunks, must be SIP.

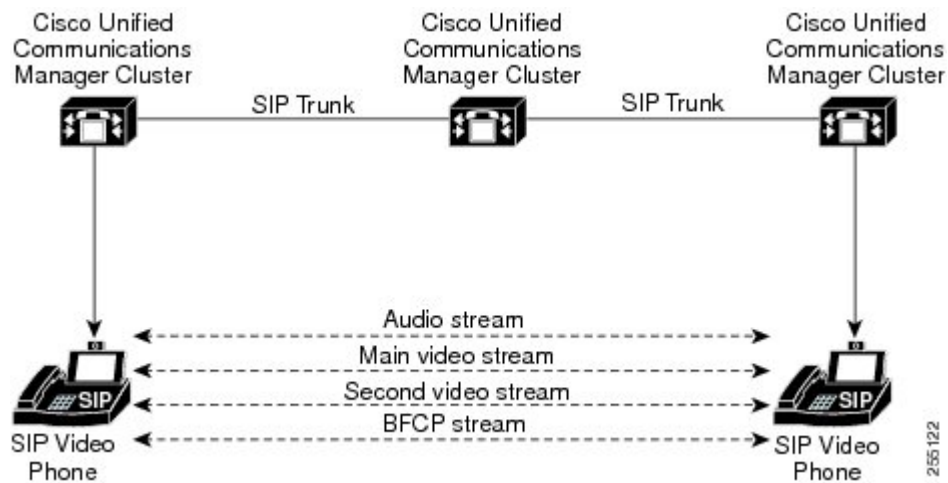
Unified Communications Manager aids in the negotiation of the BFCP stream by relaying SIP messages between two endpoints.

This negotiation involves establishing a floor, which is a temporary permission to access shared resources.

The BFCP stream is a point-to-point stream between the endpoints. Unified Communications Manager is never a target of the BFCP stream.

The following figure provides an example of a complex video network with multiple Unified Communications Manager clusters. BFCP must be enabled on all the trunks and lines connecting the devices. For this network, BFCP must be enabled on the four SIP trunks and two SIP lines that connect the endpoints.

Figure 1: Video Network with Multiple Cisco Unified Communications Manager Clusters



BFCP Limitations

Unified Communications Manager rejects the BFCP stream in the following scenarios:

- The **Allow Presentation Sharing using BFCP** check box on the SIP Profile page is unchecked for one of the SIP lines or trunks in the network.
- One endpoint offers BFCP, but the other does not.
- When the SIP line or SIP trunk uses MTP (non pass-through mode) or Transcoder.



Note BFCP control channel is always unencrypted. However, the presentation channel is encrypted if both phones are encrypted.

Presentation Sharing using BFCP Prerequisites

- Make sure all endpoints and trunks in the call flow are running SIP profile.
- Check Phone Support procedure and generate a report for the feature **BFCP Support** to obtain a list of Cisco endpoints that support Presentation Sharing using BFCP. For these endpoints, BFCP support is

enabled by default. You need not perform any additional configuration for the phone to support BFCP. For more information, see [Generate a Phone Feature List](#).

Presentation Sharing using BFCP Configuration Task Flow

Complete the following tasks to enable Presentation sharing using the Binary Floor Control Protocol (BFCP).

Procedure

	Command or Action	Purpose
Step 1	Enable BFCP Support for SIP Trunks, on page 3	Enables BFCP support on all SIP trunks in the call flow.
Step 2	Enable Presentation Sharing using BFCP for Third-Party Phones, on page 4	Enables BFCP support in the third-party phone configuration, if you are using third-party SIP endpoints.

Enable BFCP Support for SIP Trunks

If you are using Presentation sharing with BFCP, the feature must be enabled in the SIP Profile that is used by all trunks in the messaging or call flow. The BFCP stream will be rejected by any trunk that does not support presentation sharing.

Procedure

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- Step 1** Enable BFCP support within the SIP Profile that is used by the SIP trunk:
- From the Cisco Unified CM Administration, choose **Device > Device Settings > SIP Profile**.
 - Perform either of the following steps:
 - Click **Find** to select an existing SIP profile.
 - Click **Add New** to create a new SIP profile.
 - In the **SDP Information** section, check the **Allow Presentation Sharing using BFCP** check box to enable BFCP in the Unified Communications Manager.

By default, the check box is unchecked. For presentation sharing, BFCP must be enabled for all SIP trunks between the Unified CM clusters.
 - Complete any other fields in the **SIP Profile Configuration** window. For more information on the fields and their configuration options, see the system Online Help.
 - Click **Save**.
- Step 2** Associate the BFCP enabled SIP Profile to your SIP trunks:
- From the Cisco Unified CM Administration, choose **Device > Trunks**.
 - Click **Find** and select an existing SIP trunk.
 - In the **SIP Information** section, choose the SIP Profile for which you enabled BFCP to share the presentation in the intercluster call from the **SIP Profile** drop-down list.

- d) Click **Save**.
 - e) Repeat this step for all SIP trunks that will be in the call flow of a BFCP session.
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Enable Presentation Sharing using BFCP for Third-Party Phones

If you want to use Presentation sharing using BFCP with third-party SIP Phones, you must make sure that the feature is enabled for the endpoint. This feature is supported by the following third-party phone types:

- Third-party SIP Device (Advanced)
- Third-party AS-SIP Endpoint

Procedure

- Step 1** From Cisco Unified CM Administration, choose **Device > Phone**.
 - Step 2** Click **Find** and select an existing third-party SIP phone.
 - Step 3** Check the **Allow Presentation Sharing using BFCP** check box.
 - Step 4** Click **Save**.
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