DMP Remote Control and Its Emulation

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We prepared this material with specific expectations of you.

You want to emulate the DMP remote control on mobile phones or Cisco IP phones.



This material pertains to multiple releases of Cisco DMS.

| 5.2.0 5.2.1 5.2.2 | 5.2.3 |
|-------------------|-------|
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Concepts

- Overview, page 16-1
- Workflow to Provision Emulator Service for IP Phones, page 16-2

Overview

Topics in this section describe a software-based emulator that you can use in place of, or in addition to, the remote control unit for a DMP.



- Although Cisco sells a physical remote control device for use with DMPs that deliver Cisco Cast programming to their attached displays, the remote control unit is an optional accessory for a DMP.
- To learn about the remote control unit, see its documentation on Cisco.com.
- The emulated remote control supports changing channels for Cisco Cast, navigating in the Cisco Cast menu system, and adjusting audio volume settings for a DMP.

Workflow to Provision Emulator Service for IP Phones

You can provision a service from Cisco Unified Communications Manager that emulates the handheld DMP remote control unit on Cisco IP phones. This workflow assumes that you are experienced as an administrator in Cisco Unified Communications Manager and that you use it already to manage a network of IP phones.



Skip this workflow if you will not use any IP phones to emulate the remote control.

- 1. Complete these tasks in CUCM.
 - a. Activate Services, page 16-3
 - **b.** Start Services, page 16-4
 - c. Configure URL Parameters, page 16-4
 - **d.** Enable IP Phone Autoregistration, page 16-5
 - e. Define IP Phone Service Attributes, page 16-5
 - f. Expose the Service to IP Phones, page 16-6



Note

Emulator-related configuration changes that you make on your Cisco Unified Communications Manager server do not become useful until after you also configure Cisco Cast to serve the emulator, and configure at least one IP phone to run the emulator.

- 2. Complete these tasks in Cisco Cast.
 - Configure Emulator Settings in Cast, page 16-7
- 3. Complete these tasks on phones, as needed.
 - a. Configure an IP Phone to Emulate the Remote Control, page 16-8
 - **b.** Start the Emulator on an IP Phone, page 16-9
 - **c.** Start the Emulator on a Mobile Phone, page 16-10
 - **d.** Use the Emulator on an IP Phone or a Mobile Phone, page 16-10



This workflow is based on Cisco Unified Communications Manager release 6.1. When you use any other release, the workflow might differ slightly in your network. We recommend that you read on Cisco.com the particular revisions of these guides that apply to your network.

- Cisco Unified Communications Manager Administration Guide
- Cisco Unified Serviceability Administration Guide

Procedures

In Cisco Unified Communications Manager

- Activate Services, page 16-3
- Start Services, page 16-4
- Configure URL Parameters, page 16-4
- Enable IP Phone Autoregistration, page 16-5
- Define IP Phone Service Attributes, page 16-5
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In Cisco Cast

• Configure Emulator Settings in Cast, page 16-7

On Phones

- Configure an IP Phone to Emulate the Remote Control, page 16-8
- Start the Emulator on an IP Phone, page 16-9
- Start the Emulator on a Mobile Phone, page 16-10
- Use the Emulator on an IP Phone or a Mobile Phone, page 16-10

Activate Services

Procedure

- **Step 1** Log in to Cisco Unified Communications Manager Administration.
- Step 2 Choose Cisco Unified Serviceability from the Navigation list, and then click Go.
- **Step 3** Choose **Tools > Service Activation**.
- **Step 4** Examine the Server list.
- **Step 5** Choose from it a server that should support remote control emulation.
- Step 6 Click Go.
- Step 7 Check the Check All Services check box.
- Step 8 Click Save, and then click OK.
- **Step 9** Stop. You have completed this procedure.

What to Do Next

• Proceed to the "Start Services" section on page 16-4.

Start Services

Before You Begin

• Activate services.

Procedure

- **Step 1** Choose **Tools > Control Center Feature Services**.
- **Step 2** Click the Server list and choose from among its options the server where the remote control emulation service should be started for *Cisco Cast*.
- Step 3 Click Go.
- Step 4 Repeat as many times as necessary until every service is running:

 Click the radio button for any service that is not yet running, and then click Start.
- **Step 5** Stop. You have completed this procedure.

What to Do Next

• Proceed to the "Configure URL Parameters" section on page 16-4.

Related Topics

• Activate Services, page 16-3

Configure URL Parameters

Before You Begin

• Start services.

Procedure

- Step 1 Choose Cisco Unified CM Administration from the Navigation list, and then click Go.
- **Step 2** Choose **System > Enterprise Parameters**., and then scroll to the Phone URL Parameters area.
- **Step 3** Verify that you have not changed the factory-default values for these parameters.
 - URL Authentication
 - URL Directories
 - URL Information
 - URL Services
- Step 4 Click Save.
- **Step 5** Stop. You have completed this procedure.

What to Do Next

• Proceed to the "Enable IP Phone Autoregistration" section on page 16-5.

Related Topics

• Start Services, page 16-4

Enable IP Phone Autoregistration

Before You Begin

• Configure URL parameters.

Procedure

- Step 1 Choose System > Cisco Unified CM, and then click Find.
- Step 2 Click the name of the server whose managed IP phones should be autoregistered.
- **Step 3** Uncheck the Auto-registration disabled on this Cisco Unified Communications Manager check box.
- **Step 4** Edit the range of values that starts in the Starting Directory Number field and ends in the Ending Directory Number field.
- Step 5 Click Save.
- **Step 6** Stop. You have completed this procedure.

What to Do Next

• Proceed to the "Define IP Phone Service Attributes" section on page 16-5.

Related Topics

• Configure URL Parameters, page 16-4

Define IP Phone Service Attributes

Before You Begin

• Enable IP phone autoregistration.

Procedure

- Step 1 Choose Cisco Unified CM Administration from the Navigation list, and then click Go.
- Step 2 Choose Device > Device Settings > Phone Services.
- Step 3 Click Add New.
- Step 4 Enter Cast in these fields.
 - Service Name
 - ASCII Service Name

- **Step 5** Enter this URL in the Service URL field:
 - http://<DMM_hostname>:8080/etv-remotecontrol-webapp/app/getpin
- Step 6 Click Save.
- **Step 7** Stop. You have completed this procedure.

What to Do Next

• Proceed to the "Expose the Service to IP Phones" section on page 16-6.

Related Topics

• Enable IP Phone Autoregistration, page 16-5

Expose the Service to IP Phones

Before You Begin

• Define IP phone service attributes.

Procedure

- Step 1 Choose Cisco Unified CM Administration from the Navigation list, and then click Go.
- Step 2 Choose Device > Phone.
- Step 3 Click Find.
- **Step 4** Repeat this sequence of actions for each phone that should subscribe to the emulator:
 - **a.** Click the name—in the Device Name (Line) column—of the managed IP phone that you will configure.
 - By default, this name is just **SEP** prefixed to the MAC address of the phone. However, your server might be configured to use some other naming format.
 - **b.** When the page refreshes, choose **Subscribe/Unsubscribe Services** from the Related Links list.
 - A popup window opens.
 - c. Choose Cast from the Select a Service List, and then click Next.
 - d. Choose Cast from the ASCII Service Name list, and then click Subscribe.
 - e. Verify that the message in the Status area says, "Add successful," and that the Subscribed Services area includes "Cast."
 - f. Close the popup window.
- Step 5 Click Go
- **Step 6** Stop. You have completed this procedure.

What to Do Next

• Proceed to the "Configure Emulator Settings in Cast" section on page 16-7.

Related Topics

• Enable IP Phone Autoregistration, page 16-5

Configure Emulator Settings in Cast



Options on the Remote Control page might sometimes be dimmed and not available to you.

- Click Save to activate dimmed options if this occurs during Step 1.
- This occurs during Step 2 only when your choice is None. Choose either All DMPs or Selected DMPs to reactivate options
 that your choice dimmed.

Before You Begin

Complete the workflow in Cisco Unified Communications Manager to provision the emulator to your IP phones.

Procedure

- **Step 1** Choose Cast > Remote Control.
- **Step 2** Choose an option from the Display Security PIN on screen list, to set how many of your DMPs should support the emulator.
 - All DMPs
 - Selected DMPs
 - None
- **Step 3** (As Needed) Did you choose Selected DMPs in Step 2?

If so, click **Display DMP Selections** to refine your list of which DMPs should support the emulator.

- a. Use check boxes to select and deselect DMPs.
- b. Click Save Selection Changes to save your work.
- **c**. Click **Close** to dismiss the dialog box.
- **Step 4** Choose an option from the Security PIN behavior list.

Although Cisco Cast randomly generates all of its emulator PINs, the fixed and dynamic types differ in their persistence.

- **Fixed**—These PINs persist until the PIN management type is changed.
- Dynamic—These PINs expire and are then regenerated after an update interval that you define.

No two DMPs in your network will use the same PIN at any one time.

Step 5 (As Needed) Did you choose the dynamic PIN type in Step 4?

If so, enter at least one digit in the Security PIN update interval (minutes) field.

The interval cannot be any less than 2 min. When you do not enter any value, *Cisco Cast* uses its factory-default interval of 5 min.

Step 6 Enter a shortened URL in the Access URL field for a page that will redirect ultimately to http://<DMM_hostname>:8080/etv-remotecontrol-webapp/app/index.htm.



The shortened URL must not be more than 24 characters long.

Step 7 Click Save.

OR

Click Cancel to discard your selections and start over again.

- **Step 8** Deploy the new emulator settings to your DMPs.
 - a. Choose Digital Media Players > DMP Manager.
 - **b.** Choose the DMP or DMP group that should use these settings.
 - c. Choose Cast from the Actions list, and then click Go.
- **Step 9** Stop. You have completed this procedure.

Related Topics

- Workflow to Provision Emulator Service for IP Phones, page 16-2
- Configure an IP Phone to Emulate the Remote Control, page 16-8
- Start the Emulator on an IP Phone, page 16-9
- Start the Emulator on a Mobile Phone, page 16-10
- Use the Emulator on an IP Phone or a Mobile Phone, page 16-10

Configure an IP Phone to Emulate the Remote Control

You can configure a Cisco IP Phone from the 7960 series or the 7970 series to emulate the remote control for *Cisco Cast*, and then use keys drawn on its touchscreen to choose options from the electronic program guide, change channels, and adjust audio volume levels.

Before You Begin

Complete the workflow in Cisco Unified Communications Manager to provision the emulator to your IP phones.

Procedure

- **Step 1** Press **Settings** on your Cisco IP phone.
- Step 2 Press **#.

A confirmation message at the bottom of the touchscreen says, "Settings Unlocked!"

- Step 3 Go to Network Configuration, and then press Select.
- **Step 4** Go to **Alternate TFTP**, and then press **Yes**.



Tip

If Alternate TFTP is not an option in the Network Configuration menu, contact the administrator for Cisco Unified Communications Manager.

Step 5 Click Save.

The IP phone is restarted automatically, so that its configuration changes can take effect.

Step 6 Stop. You have completed this procedure.

Related Topics

- Workflow to Provision Emulator Service for IP Phones, page 16-2
- Use the Emulator on an IP Phone or a Mobile Phone, page 16-10

Start the Emulator on an IP Phone

Before You Begin

- Provision the emulator for use on Cisco IP phones.
- Configure emulator settings in Cisco Cast.
- Configure your IP phone to emulate the remote control.
- Make note of the generated PIN code in the top-right corner of a DMP display that is showing *Cisco Cast*. The emulator cannot control the corresponding DMP without this PIN.

Procedure

- **Step 1** Press **Services** on your Cisco IP phone.
- Step 2 Highlight the remote control option in the services list, and then press Select.
- **Step 3** Tap the **PIN** field on your touchscreen.
- **Step 4** Use the keypad to enter the PIN code.
- **Step 5** Tap **Submit** on the touchscreen.

The touchscreen is refreshed and the emulator starts.

Step 6 Stop. You have completed this procedure.

Related Topics

- Workflow to Provision Emulator Service for IP Phones, page 16-2
- Configure Emulator Settings in Cast, page 16-7
- Use the Emulator on an IP Phone or a Mobile Phone, page 16-10

Start the Emulator on a Mobile Phone

Before You Begin

- Configure emulator settings in Cisco Cast.
- Make note of the generated PIN code in the top-right corner of a DMP display that is showing *Cisco Cast*. The emulator cannot control the corresponding DMP without this PIN.
- This procedure assumes that you are using a supported platform. To learn which mobile phone
 platforms we support in this release, see our release notes on Cisco.com. An unsupported platform
 might not be capable of running the emulator.

Procedure

- **Step 1** Start the Internet browser on your mobile phone.
- **Step 2** Go to the URL that you see on the DMP display that is showing *Cisco Cast*.

You are prompted to enter the PIN.

Step 3 Enter the PIN, and then click Go.

The emulator starts.

Step 4 Stop. You have completed this procedure.

Related Topics

- Configure Emulator Settings in Cast, page 16-7
- Use the Emulator on an IP Phone or a Mobile Phone, page 16-10

Use the Emulator on an IP Phone or a Mobile Phone

Before You Begin

- (If you will use the emulator on an IP phone) Complete the workflow in Cisco Unified Communications Manager to provision the emulator to your IP phones.
- Configure emulator settings in Cisco Cast.
- Start the emulator on your phone.

Procedure

Step 1 Consult DMP remote control documentation on Cisco.com and pay particular attention to sections that describe button behaviors. These descriptions apply equally to the physical unit and its emulator.



Note

The emulator has fewer buttons than the physical remote control has. You cannot invoke behaviors from the emulator which correspond to any buttons that it does not have.

Step 2 Stop. You have completed this procedure.

Related Topics

- Workflow to Provision Emulator Service for IP Phones, page 16-2
- Configure Emulator Settings in Cast, page 16-7
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Procedures