



Transcoder Configuration

The Media Resource Manager (MRM) has responsibility for resource registration and resource reservation of transcoders within a Cisco CallManager cluster. Cisco CallManager simultaneously supports registration of both the Media Termination Point (MTP) and Transcoder and concurrent MTP and transcoder functionality within a single call.

The maximum transcoding sessions per port is 24. The following list gives the supported transcoding capacity and sessions per port:

- G711–G711 MTP: 24 (no DSP is involved)
- G729–G729 MTP: 24 (no DSP is involved)
- G711–G723 transcoding: 24
- G711–G729 transcoding: 24
- G711–GSM Full Rate (FR) transcoding: 24
- G711–GSM Enhanced Full Rate (EFR) transcoding: 24

The Cisco CallManager invokes a transcoder on behalf of endpoint devices when the two devices are using different codecs and would normally not be able to communicate. When inserted into a call, the transcoder converts the data streams between the two disparate codecs to enable communications between them.

All Cisco CallManagers within a cluster can access transcoders through the Media Resource Manager (MRM), which manages the resources.

The MRM makes use of Cisco CallManager media resource groups and media resource group lists. The media resource group provides load balancing among resources. The media resource group list limits and orders access to media resources.

A transcoder control process gets created for each transcoder device that is defined in the database. Each transcoder registers with the MRM when it initializes. The MRM keeps track of the transcoder resources and advertises their availability throughout the cluster.

Use the following topics to configure transcoders:

- [Configuring a Transcoder, page 29-2](#)
- [Updating a Transcoder, page 29-3](#)
- [Copying a Transcoder, page 29-4](#)
- [Resetting a Transcoder, page 29-5](#)
- [Deleting a Transcoder, page 29-6](#)
- [Transcoder Configuration Settings, page 29-7](#)

Configuring a Transcoder

This section describes how to configure a transcoder.

Procedure

- Step 1** Choose **Service > Media Resource > Transcoder**.
- Step 2** Enter the appropriate settings as described in [Table 29-1](#).
- Step 3** Click **Insert**.

The window refreshes and shows specific information, including the status, for the transcoder you just configured. The transcoder should now appear in the list on the left side of the window.

Related Topics

- [Transcoder Configuration, page 29-1](#)
- [Media Termination Point Configuration, page 28-1](#)
- [Conference Bridge Configuration, page 27-1](#)
- [Updating a Transcoder, page 29-3](#)

- [Copying a Transcoder, page 29-4](#)
- [Resetting a Transcoder, page 29-5](#)
- [Deleting a Transcoder, page 29-6](#)
- [Transcoder Configuration Settings, page 29-7](#)

Updating a Transcoder

This section describes how to update a transcoder.

Procedure

- Step 1** Choose **Service > Media Resource > Transcoder**.
- Step 2** From the Transcoders list on the left side of the window, click the transcoder that you want to update.
- The window refreshes and displays the transcoder that you selected.
- Step 3** Update the appropriate settings as described in [Table 29-1](#).
- Step 4** Click **Update**.
- A message displays that states that the transcoder must be reset before the changes will take effect.
- Step 5** Click **OK**.
- Step 6** Click the **Reset** button and then click **OK** to continue.
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Related Topics

- [Transcoder Configuration, page 29-1](#)
- [Media Termination Point Configuration, page 28-1](#)
- [Conference Bridge Configuration, page 27-1](#)
- [Configuring a Transcoder, page 29-2](#)
- [Copying a Transcoder, page 29-4](#)
- [Resetting a Transcoder, page 29-5](#)

- [Deleting a Transcoder, page 29-6](#)
- [Transcoder Configuration Settings, page 29-7](#)

Copying a Transcoder

This section describes how to copy a transcoder.

Procedure

- Step 1** Choose **Service > Media Resource > Transcoder**.
- Step 2** From the Transcoders list, choose the transcoder that you want to copy.
The window refreshes and displays the transcoder that you selected.
- Step 3** Click **Copy**.
The window refreshes again and displays the transcoder with a Copy of... name in the Current Transcoder field.
- Step 4** Update the appropriate settings as described in [Table 29-1](#).
- Step 5** Click **Insert**.
The screen refreshes, and the new transcoder appears in the transcoder list on the left side of the window.
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Related Topics

- [Transcoder Configuration, page 29-1](#)
- [Media Termination Point Configuration, page 28-1](#)
- [Conference Bridge Configuration, page 27-1](#)
- [Configuring a Transcoder, page 29-2](#)
- [Updating a Transcoder, page 29-3](#)
- [Resetting a Transcoder, page 29-5](#)
- [Deleting a Transcoder, page 29-6](#)
- [Transcoder Configuration Settings, page 29-7](#)

Resetting a Transcoder

This section describes how to reset a Transcoder.

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- Step 1** Choose **Service > Media Resource > Transcoder**.
- Step 2** From the Transcoders list, choose the transcoder that you want to reset.
The window refreshes displaying the transcoder that you selected.
- Step 3** Click **Reset**.
The Reset dialog box displays.
- Step 4** Click **OK**.
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Related Topics

- [Transcoder Configuration, page 29-1](#)
- [Media Termination Point Configuration, page 28-1](#)
- [Conference Bridge Configuration, page 27-1](#)
- [Configuring a Transcoder, page 29-2](#)
- [Updating a Transcoder, page 29-3](#)
- [Copying a Transcoder, page 29-4](#)
- [Deleting a Transcoder, page 29-6](#)
- [Transcoder Configuration Settings, page 29-7](#)

Deleting a Transcoder

This section describes how to delete a transcoder.

**Note**

You cannot delete a transcoder that is assigned to a media resource group. To do so, you must first remove the transcoder from the media resource group(s) to which it is assigned.

Procedure

Step 1 Choose **Service > Media Resource > Transcoder**.

Step 2 From the Transcoders list, choose the transcoder that you want to delete.

The window refreshes and displays the transcoder that you selected.

Step 3 Click **Delete**.

A message displays that states that you are about to permanently delete this transcoder and that you cannot undo this action.

Step 4 If you want to continue, click **OK** or to cancel the deletion, click **Cancel**.

After the window refreshes, the transcoder that you deleted should no longer appear in the transcoder list.

Related Topics

- [Transcoder Configuration, page 29-1](#)
- [Media Termination Point Configuration, page 28-1](#)
- [Conference Bridge Configuration, page 27-1](#)
- [Configuring a Transcoder, page 29-2](#)
- [Updating a Transcoder, page 29-3](#)
- [Copying a Transcoder, page 29-4](#)
- [Transcoder Configuration Settings, page 29-7](#)
- [Transcoders, Cisco CallManager System Guide](#)

Transcoder Configuration Settings

Table 29-1 describes the transcoder configuration settings.

Table 29-1 Transcoder Configuration Settings

Field	Description
Transcoder Type	Choose the appropriate transcoder type: Cisco Media Termination Point Hardware or Cisco IOS Media Termination Point .
MAC Address	For Cisco media termination point hardware, enter a MAC address (must be 12 characters).
Device Name	For IOS transcoders, use the MAC address in the format xxxxxxxxxxxxMTP, where xxxxxxxxxxxx represents the MAC address of the IOS gateway.
Description	Enter a description (up to 50 characters), or leave blank to generate automatically from the MAC address or device name that you provide.
Device Pool	Choose a device pool. For more detailed information on the chosen device pool, click View Details .
Special Load Information	Enter any special load information into the Special Load Information field or leave blank to use default.

Related Topics

- [Configuring a Transcoder, page 29-2](#)
- [Updating a Transcoder, page 29-3](#)
- [Copying a Transcoder, page 29-4](#)

