



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.

A maximum of 24 transcoding sessions per port can exist. 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:

- [Finding a Transcoder, page 27-2](#)
- [Configuring a Transcoder, page 27-4](#)
- [Updating a Transcoder, page 27-5](#)
- [Copying a Transcoder, page 27-6](#)
- [Resetting a Transcoder, page 27-7](#)
- [Deleting a Transcoder, page 27-8](#)
- [Transcoder Configuration Settings, page 27-9](#)

Finding a Transcoder

Because you might have several transcoders in your network, Cisco CallManager lets you locate specific transcoders on the basis of specific criteria. Use the following procedure to locate transcoders.



Note

During your work in a browser session, Cisco CallManager Administration retains your transcoder search preferences. If you navigate to other menu items and return to this menu item, Cisco CallManager Administration retains your transcoder search preferences until you modify your search or close the browser.

Procedure

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

The Find and List Transcoders window displays. Use the two drop-down list boxes to search for a transcoder.

Step 2 From the first Find Transcoders where drop-down list box, choose one of the following criteria:

- Name
- Description
- Device Pool



Note The criterion that you choose in this drop-down list box specifies how the list of transcoders that your search generates will be sorted. For example, if you choose Device Pool, the Device Pool column will display as the left column of the results list.

From the second Find Transcoders where drop-down list box, choose one of the following criteria:

- begins with
- contains
- ends with
- is exactly
- is empty
- is not empty

Step 3 Specify the appropriate search text, if applicable, and click **Find**. You can also specify how many items per page to display.



Tip To find all transcoders that are registered in the database, click **Find** without entering any search text.

A list of discovered transcoders displays by

- Transcoder icon
- Transcoder name
- Description
- Device Pool

- Status
- IP Address



Note You can delete multiple transcoders from the Find and List Transcoders window by checking the check boxes next to the appropriate transcoders and clicking **Delete Selected**. You can delete all transcoders in the window by checking the check box in the Matching records title bar and clicking **Delete Selected**.

Step 4 From the list of records, click the Transcoder icon or name, the Description, or the associated Device Pool that matches your search criteria.

The window displays the transcoder that you choose.

Related Topics

- [Configuring a Transcoder, page 27-4](#)
- [Updating a Transcoder, page 27-5](#)
- [Copying a Transcoder, page 27-6](#)
- [Resetting a Transcoder, page 27-7](#)
- [Deleting a Transcoder, page 27-8](#)
- [Transcoder Configuration Settings, page 27-9](#)

Configuring a Transcoder

This section describes how to configure a transcoder.

Procedure

- Step 1** Choose **Service > Media Resource > Transcoder**.
- Step 2** In the upper, right corner of the window, click the **Add a New Transcoder** link.
- Step 3** Enter the appropriate settings as described in [Table 27-1](#).

Step 4 Click **Insert**.

The window refreshes and shows specific information, including the status, for the transcoder that you just configured.

Related Topics

- [Transcoder Configuration, page 27-1](#)
- [Media Termination Point Configuration, page 26-1](#)
- [Conference Bridge Configuration, page 25-1](#)
- [Finding a Transcoder, page 27-2](#)
- [Updating a Transcoder, page 27-5](#)
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Updating a Transcoder

This section describes how to update a transcoder.

Procedure

- Step 1** Locate the transcoder by using the procedure in the [“Finding a Transcoder” section on page 27-2](#).
- Step 2** Choose the transcoder that you want to update.
- Step 3** Update the appropriate settings as described in [Table 27-1](#).

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.

Related Topics

- [Transcoder Configuration, page 27-1](#)
- [Media Termination Point Configuration, page 26-1](#)
- [Conference Bridge Configuration, page 25-1](#)
- [Configuring a Transcoder, page 27-4](#)
- [Finding a Transcoder, page 27-2](#)
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Copying a Transcoder

This section describes how to copy a transcoder.

Procedure

Step 1 Locate the transcoder by using the procedure in the [“Finding a Transcoder” section on page 27-2](#).

Step 2 From the Matching records list, click the **Copy** icon that corresponds to the transcoder that you want to copy.

Step 3 Click **Insert**.

The screen refreshes, and the new transcoder is added to the database.

Related Topics

- [Transcoder Configuration, page 27-1](#)
- [Media Termination Point Configuration, page 26-1](#)
- [Conference Bridge Configuration, page 25-1](#)
- [Finding a Transcoder, page 27-2](#)
- [Configuring a Transcoder, page 27-4](#)
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Resetting a Transcoder

This section describes how to reset a Transcoder.

Procedure

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

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

The window refreshes and displays the transcoder that you chose.

Step 3 Click **Reset**.

The Reset dialog box displays.

Step 4 Click **OK**.

Related Topics

- [Transcoder Configuration, page 27-1](#)
- [Media Termination Point Configuration, page 26-1](#)
- [Conference Bridge Configuration, page 25-1](#)
- [Configuring a Transcoder, page 27-4](#)
- [Finding a Transcoder, page 27-2](#)
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Deleting a Transcoder

This section describes how to delete a transcoder.

Before You Begin

You cannot delete a transcoder that is assigned to a Media Resource Group. To find out which media resource groups are using the transcoder, click the **Dependency Records** link from the Transcoder Configuration window. For more information about dependency records, see the [“Accessing Dependency Records” section on page A-1](#). If you try to delete a transcoder that is in use, Cisco CallManager displays an error message. Before deleting a transcoder that is currently in use, you must remove the transcoder from the media resource group(s) to which it is assigned.

Procedure

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- Step 1** Locate the transcoder by using the procedure in the [“Finding a Transcoder” section on page 27-2](#).
- Step 2** From the list of matching records, choose the transcoder that you want to delete. The window refreshes and displays the transcoder that you chose.

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 no longer appears in the transcoder list.

Related Topics

- [Transcoder Configuration, page 27-1](#)
- [Media Termination Point Configuration, page 26-1](#)
- [Conference Bridge Configuration, page 25-1](#)
- [Configuring a Transcoder, page 27-4](#)
- [Finding a Transcoder, page 27-2](#)
- [Updating a Transcoder, page 27-5](#)
- [Copying a Transcoder, page 27-6](#)
- [Transcoder Configuration Settings, page 27-9](#)
- [Transcoders, Cisco CallManager System Guide](#)

Transcoder Configuration Settings

[Table 27-1](#) describes the transcoder configuration settings.

Table 27-1 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). |

Table 27-1 Transcoder Configuration Settings (continued)

| Field | Description |
|--------------------------|---|
| Device Name | For IOS transcoders, use the MAC address in the format MTPxxxxxxxxxxxx, 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. Valid characters include letters, numbers, dashes, dots (periods), and underscores. |

Related Topics

- [Configuring a Transcoder, page 27-4](#)
- [Finding a Transcoder, page 27-2](#)
- [Updating a Transcoder, page 27-5](#)
- [Copying a Transcoder, page 27-6](#)