



Configuring Regions

Use regions to specify the type of compression and amount of bandwidth used per call. You can select the compression and bandwidth used for calls within a region and between two regions.

Use the following procedures to add, update, or delete regions:

- Adding a Region, page 16-3
- Updating a Region, page 16-4
- Deleting a Region, page 16-5

Understanding Regions

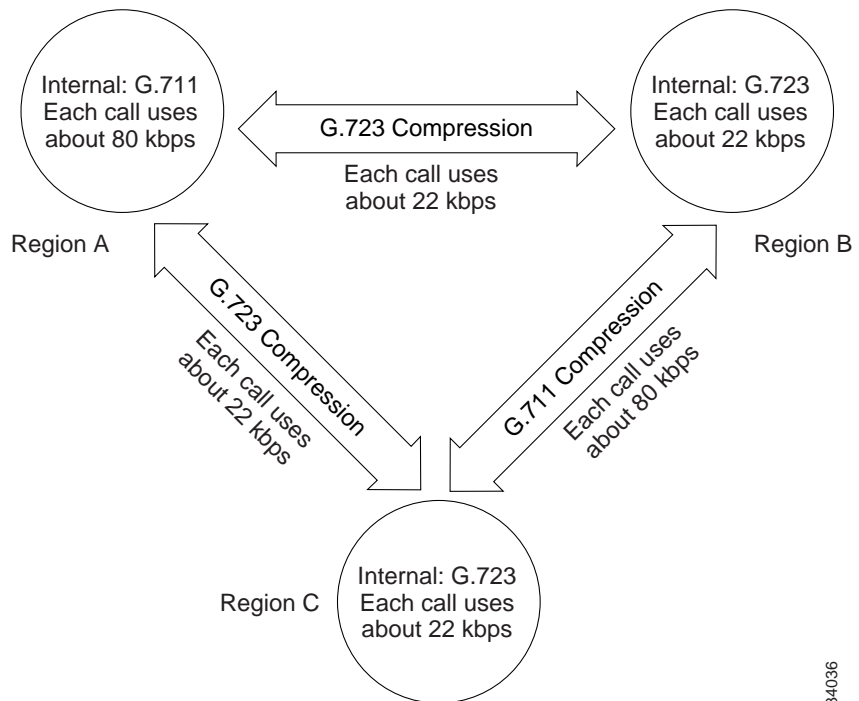
The compression types available in Cisco CallManager are G.711, G.723, and G.729. The default compression type for all calls through Cisco CallManager is G.711. To specify a different compression type, you must use regions.

The bandwidth used per call depends on the compression type as well as factors such as data packet size and overhead (packet header size), as indicated in Table 16-1.

Table 16-1 Bandwidth Used Per Call by Each Type of Compression

Type of Compression	Bandwidth Used for Data Packets Only (Fixed Regardless of Packet Size)	Bandwidth Used Per Call (Including IP Headers) with 30 ms Data Packets	Bandwidth Used Per Call (Including IP Headers) with 20 ms Data Packets
G.711	64 kbps	80 kbps	88 kbps
G.723	6 kbps	22 kbps	Not applicable
G.729	8 kbps	24 kbps	32 kbps

Figure 16-1 illustrates the use of regions to specify compression type and bandwidth.

Figure 16-1 Example of Regions

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The following matrix shows the compression type that will be used for calls within and between Regions A, B, and C for the example configuration shown in Figure 16-1.

	Region A	Region B	Region C
Region A	G.711	G.723	G.723
Region B	G.723	G.723	G.711
Region C	G.723	G.711	G.723

Adding a Region

This section describes how to add a new region to the Cisco CallManager database.

Procedure

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- Step 1** Open Cisco CallManager Administration.
 - Step 2** Select **System > Region**.
 - Step 3** In the Region Name box, enter the name you want to assign to the new region and click **Insert**.
 - Step 4** Using the drop-down list boxes, select the type of compression to use for calls within the new region and between the new region and existing regions. By selecting the compression type, you are also specifying the amount of bandwidth used per call. See Table 16-1 for details.

Before saving the changes, you can click **Cancel** to reset all fields to their original value.

- Step 5** Click **Update** to save the new region in the database.

After adding a new region to the database, you can use it to configure device pools.

Related Topics

- Adding a Device Pool, page 17-1
- Understanding Regions, page 16-1

Updating a Region

This section describes how to update the configuration for a region.

Procedure

- Step 1** Open Cisco CallManager Administration.
 - Step 2** Select **System > Region**.
 - Step 3** From the region list, select the region you want to update.
 - Step 4** Make the desired changes in the fields you want to update. Before saving the changes, you can click **Cancel** to reset all fields to their original value.
 - Step 5** Click **Update** to save the changes in the database.
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Related Topics

- Understanding Regions, page 16-1
- Adding a Region, page 16-3
- Deleting a Region, page 16-5

Deleting a Region

This section describes how to delete a region from the Cisco CallManager database.

Before You Begin

You cannot delete a region that is being used by any device pools. If you try to delete a region that is in use, Cisco CallManager displays an error message. Before deleting a region that is currently in use, you must perform either or both of the following tasks:

- Update the device pools to use a different region. See the “Updating a Device Pool” section on page 17-3.
- Delete the device pools that are using the region you want to delete. See the “Deleting a Device Pool” section on page 17-4.

Procedure

- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **System > Region**.
- Step 3** From the region list, select the region you want to delete.
- Step 4** Click **Delete**.
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Related Topics

- Understanding Regions, page 16-1
- Adding a Region, page 16-3
- Updating a Region, page 16-4

■ Deleting a Region