



Location Configuration

Use locations to implement call admission control in a centralized call-processing system. Call admission control enables you to regulate voice quality by limiting the amount of bandwidth that is available for calls over links between the locations. For more information, refer to the [“Call Admission Control”](#) section in the *Cisco CallManager System Guide*.



Note

If you do not use call admission control to limit the voice bandwidth on an IP WAN link, an unlimited number of calls can be active on that link at the same time. This situation can cause the voice quality of each call to degrade as the link becomes oversubscribed.

In a centralized call-processing system, a single Cisco CallManager cluster provides call processing for all locations on the IP telephony network. The Cisco CallManager cluster usually resides at the main (or central) location, along with other devices such as phones and gateways. The remote locations contain additional devices, but no Cisco CallManager. IP WAN links connect the remote locations to the main location.

The following topics explain locations in more detail:

- [Finding a Location, page 11-2](#)
- [Adding a Location, page 11-4](#)
- [Updating a Location, page 11-5](#)
- [Deleting a Location, page 11-5](#)

- [Resynchronizing a Location Bandwidth, page 11-7](#)
- [Location Configuration Settings, page 11-8](#)

Finding a Location

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



Note

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

Procedure

Step 1 Choose **System > Location**.

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

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

- Location
- Bandwidth



Note

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

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

- begins with
- contains

- ends with
- is exactly

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 locations that are registered in the database, click **Find** without entering any search text.

A list of discovered locations displays by

- Location icon
- Location Name
- Bandwidth

**Note**

You can delete multiple locations from the Find and List Locations window by checking the check boxes next to the appropriate locations and clicking **Delete Selected**. You can delete all locations 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 Location icon or name or the Bandwidth that matches your search criteria.

The window displays the location that you choose.

Related Topics

- [Adding a Location, page 11-4](#)
- [Updating a Location, page 11-5](#)
- [Deleting a Location, page 11-5](#)
- [Location Configuration Settings, page 11-8](#)
- [Resynchronizing a Location Bandwidth, page 11-7](#)

Adding a Location

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

Before You Begin

Before configuring a location, you must configure the Cisco CallManagers that form the cluster. For details, see the “[Adding a Cisco CallManager](#)” section on [page 3-4](#)

Procedure

- Step 1** Choose **System > Location**.
- Step 2** Use one of the following methods to add a location:
- If a location already exists with settings that are similar to the one that you want to add, choose the existing location to display its settings, click **Copy**, and modify the settings as needed.
 - To add a location without copying an existing one, continue with [Step 3](#).
- Step 3** In the upper, right corner of the window, click the **Add a New Location** link. The Location Configuration window displays.
- Step 4** Enter the appropriate settings as described in [Table 11-1](#).
- Step 5** Click **Insert** to save the location information in the database.
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Next Steps

After adding a new location to the database, you can assign devices to that location; for example, see:

- [Gateway Configuration, page 44-1](#)
- [Cisco IP Phone Configuration, page 45-1](#)
- [CTI Route Point Configuration, page 41-1](#)

Related Topics

- [Finding a Location, page 11-2](#)
- [Updating a Location, page 11-5](#)
- [Deleting a Location, page 11-5](#)
- [Resynchronizing a Location Bandwidth, page 11-7](#)
- [Location Configuration Settings, page 11-8](#)

Updating a Location

This section describes how to modify the configuration of a location.

Procedure

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- Step 1** Find the location by using the procedure in the [“Finding a Location” section on page 11-2](#).
 - Step 2** From the list of matching records, choose the location that you want to update.
 - Step 3** Update the appropriate settings as described in [Table 11-1](#).
 - Step 4** Click **Update** to save the changes in the database.
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Related Topics

- [Finding a Location, page 11-2](#)
- [Adding a Location, page 11-4](#)
- [Deleting a Location, page 11-5](#)
- [Resynchronizing a Location Bandwidth, page 11-7](#)
- [Location Configuration Settings, page 11-8](#)

Deleting a Location

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

Before You Begin

You cannot delete a location that has any devices assigned to it. To find out which devices are using the location, click the **Dependency Records** link from the Location Configuration window. For more information about dependency records, see the [“Accessing Dependency Records” section on page A-1](#). If you try to delete a location that is in use, Cisco CallManager displays an error message. Before deleting a location that is currently in use, you must perform either or both of the following tasks:

- Update the devices to assign them to a different location.
- Delete the devices that are assigned to the location that you want to delete.



Note

Deleting a location allocates infinite bandwidth for the links that are connected to that location and allows an unlimited number of calls on those links. Deleting a location can cause voice quality on the links to degrade.

Procedure

- Step 1** Find the location by using the procedure in the [“Finding a Location” section on page 11-2](#).
- Step 2** From the list of matching records, choose the location that you want to delete.
- Step 3** Click **Delete**.
- Step 4** When prompted to confirm the delete operation, click either **OK** to confirm deletion or **Cancel** to cancel the delete operation.
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Related Topics

- [Finding a Location, page 11-2](#)
- [Adding a Location, page 11-4](#)
- [Updating a Location, page 11-5](#)
- [Resynchronizing a Location Bandwidth, page 11-7](#)
- [Location Configuration Settings, page 11-8](#)

Resynchronizing a Location Bandwidth

This section describes how to resynchronize the bandwidth for a location. When calls are blocked from using the link for a location, bandwidth leakage that may reduce the allotted bandwidth for the location. You can resynchronize the location bandwidth to the maximum amount that is assigned to this location without resetting the Cisco CallManager server. For more information, refer to the [“Bandwidth Calculations”](#) section in the Call Admission Control chapter of the *Cisco CallManager System Guide*.

Procedure

- Step 1** Find the location by using the procedure in the [“Finding a Location”](#) section on page 11-2.
- Step 2** From the list of matching records, choose the location that you want to resynchronize.
- Step 3** Click **ReSync Bandwidth** to resynchronize the bandwidth for the chosen location.

This warning message appears: “If calls are using the bandwidth for this location when the bandwidth is resynchronized, the bandwidth might be oversubscribed until all calls that are using the bandwidth for this location disconnect.”

- Step 4** Click **OK** to continue or click **Cancel**.
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Related Topics

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- [Location Configuration Settings, page 11-8](#)

Location Configuration Settings

Table 11-1 describes the location configuration settings.

Table 11-1 Location Configuration Settings

Field	Description
Location Name	Enter the name of the new location that you are creating.
Bandwidth	<p>Enter the maximum amount of voice bandwidth (in kbps) that is available for all calls on the link between this location and other locations.</p> <p>For purposes of location bandwidth calculations only, assume that each call stream consumes the following amount of bandwidth:</p> <ul style="list-style-type: none"> • G.711 call uses 80 kbps • G.723 call uses 24 kbps • G.729 call uses 24 kbps • GSM call uses 29 kbps • Wideband call uses 272 kbps <p>Note Each call comprises two call streams. To improve voice quality, lower the bandwidth setting, so fewer active calls are allowed on the link to this location. Entering a value of zero allocates infinite bandwidth and allows an unlimited number of calls on the link.</p>

Related Topics

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