Route Group Configuration

A route group allows you to designate the order in which gateways are selected. It allows you to prioritize a list of gateways and ports for outgoing trunk selection.

For example, if you use two long-distance carriers, you could add a route group, so long-distance calls to the less expensive carrier are given priority. Calls only route to the more expensive carrier if the first trunk is unavailable.

Use the following topics to add or delete a route group or to add devices to or to remove devices from a route group:

Finding a Route Group

Because you might have several route groups in your network, Cisco CallManager lets you locate specific route groups based on specific criteria. Use the following procedure to locate route groups.

Procedure

Step 1 Choose **Route Plan > Route Group**.

The Find and List Route Groups window displays.

Step 2 From the 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.

Note To find all route groups registered in the database, click **Find** without entering any search text.

A list of discovered route groups displays by route group name.

Note You can delete multiple route groups from the Find and List Route Groups window by checking the check boxes next to the appropriate route groups and clicking **Delete Selected**. You can delete all of the route groups 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 route group that matches your search criteria.

The window displays the route group that you choose.

Related Topics

- Adding a Route Group, page 17-3
- Adding Devices to a Route Group, page 17-4
- Removing Devices from a Route Group, page 17-5
- Updating a Route Group, page 17-6
- Deleting a Route Group, page 17-7

Adding a Route Group

The following procedure describes how to add a route group.

Procedure

Step 1 Choose **Route Plan > Route Group**.

Step 2 Click **Add a New Route Group**.

Step 3 Enter a name in the Route Group Name field. The name can contain up to 50 alphanumeric characters and can contain any combination of spaces, periods (.), hyphens (-), and underscore characters (_). Ensure that each route group name is unique to the route plan.

Timesaver Use concise and descriptive names for your route groups. The CompanynameLocationGroup format usually provides a sufficient level of detail and is short enough to enable you to quickly and easily identify a route group. For example, CiscoDallasAA1 identifies a Cisco Access Analog route group for the Cisco office in Dallas.

Step 4 Click **Continue**.

Step 5 Choose the appropriate settings as described in Table 17-1.

Step 6 To add this route group with one device, click **Insert**.

Related Topics

- Finding a Route Group, page 17-2
- Adding Devices to a Route Group, page 17-4
- Removing Devices from a Route Group, page 17-5
- Deleting a Route Group, page 17-7
- Route Group Configuration Settings, page 17-9
- Adding a Route List, page 18-3
- Adding Route Groups to a Route List, page 18-4
- Understanding Route Plans, *Cisco CallManager System Guide*

Adding Devices to a Route Group

You can add devices to a new route group or to an existing route group. The following procedure describes adding a device to an existing route group.

Note Cisco CallManager Administration does not allow you to add gateways that are configured with a QSIG protocol type and gateways that are configured with a non-QSIG protocol type to the same route group.

Before You Begin

You must define one or more gateway devices before performing this procedure. A device can reside in only one route group.

Procedure

Step 1 Choose **Route Plan > Route Group**.

Step 2 Locate the route group to which you want to add a device. See the "Finding a Route Group" section on page 17-2.

Step 3 Click **Add Device**.

Step 4 Choose the appropriate settings as described in Table 17-1.

Step 5 To add this gateway and selected ports to the route group, click **Insert**.

Step 6 In the Order drop-down list box, choose the order in which the new device is to be accessed in this route group.

Step 7 Click **Update** to update the device order for this route group.

Related Topics

- Finding a Route Group, page 17-2
- Adding a Route Group, page 17-3
- Removing Devices from a Route Group, page 17-5
- Updating a Route Group, page 17-6
- Deleting a Route Group, page 17-7
- Route Group Configuration Settings, page 17-9
- Adding a Route List, page 18-3
- Understanding Route Plans, *Cisco CallManager System Guide*

Removing Devices from a Route Group

You can remove devices from a new route group or from an existing route group. The following procedure describes removing a device from an existing route group.

Procedure

Step 1 Choose **Route Plan > Route Group**.

Step 2 Locate the route group from which you want to remove a device. See the "Finding a Route Group" section on page 17-2.

Step 3 Under the Route Group Members subheading, check the check boxes to the left of the devices that are to be deleted.

Step 4 Click **Remove Device**.

A dialog box displays to warn you that you cannot undo removal of devices from a route group.

Step 5 To remove the devices, click **OK** or to cancel the action, click **Cancel**. If you click **OK**, Cisco CallManager removes the devices from the route group.

Step 6 To update the route group, click **Update**.

Related Topics

- Finding a Route Group, page 17-2
- Adding a Route Group, page 17-3
- Adding Devices to a Route Group, page 17-4
- Updating a Route Group, page 17-6
- Deleting a Route Group, page 17-7
- Route Group Configuration Settings, page 17-9
- Adding a Route List, page 18-3
- Understanding Route Plans, *Cisco CallManager System Guide*

Updating a Route Group

The following procedure describes how to update a route group.

Before You Begin

Before performing this procedure, ensure the route group to be updated is already configured.

Procedure

Step 1 Choose **Route Plan > Route Group**.

Step 2 Locate the route group that you want to update. See the "Finding a Route Group" section on page 17-2.

Step 3 Update the appropriate fields as described in Table 17-1.

Step 4 Click **Update**.

Related Topics

- Finding a Route Group, page 17-2
- Adding a Route Group, page 17-3
- Adding Devices to a Route Group, page 17-4
- Deleting a Route Group, page 17-7
- Route Group Configuration Settings, page 17-9
- Adding a Route List, page 18-3
- Understanding Route Plans, *Cisco CallManager System Guide*

Deleting a Route Group

The following procedure describes how to delete a route group.

Note You cannot delete a route group that is referenced by one or more route lists. You must remove the route group from all route lists to which it belongs before deleting the route group.

Tip To delete route groups and route patterns, first delete the route pattern; second, delete the route list, and finally, delete the route group.

Procedure

Step 1 Choose **Route Plan > Route Group**.

Step 2 Locate the route group that you want to delete. See the "Finding a Route Group" section on page 17-2.

Step 3 Check the check box next to the route group that you want to delete and click **Delete Selected**.

A dialog box displays to warn you that you cannot undo deletion of route groups.

Step 4 To delete the group, click **OK** or to cancel the action, click **Cancel**. If you click **OK**, the Cisco CallManager removes the route group from the route group list. Other route groups or route patterns can now select the gateways that belonged to the deleted route group, provided that all ports were available with the gateways.

Note You can delete multiple route groups from the Find and List Route Groups window by checking the check boxes next to the appropriate route groups and clicking **Delete Selected**. You can delete all the route groups in the window by checking the check box in the matching records title bar and clicking **Delete Selected**.

Related Topics

- Finding a Route Group, page 17-2
- Adding a Route Group, page 17-3
- Adding Devices to a Route Group, page 17-4
- Updating a Route Group, page 17-6
- Adding a Route List, page 18-3
- Understanding Route Plans, *Cisco CallManager System Guide*

Route Group Configuration Settings

Table 17-1 describes the route group configuration settings.

Table 17-1 Route Group Configuration Settings

Field	Description
Device Name	From the Device Name drop-down list box, choose the device that you want to add to the group. You cannot add devices that are configured with QSIG and non-QSIG protocol types to the same route group. If the route group contains a gateway that is configured with a QSIG protocol type, only gateways that are configured with a QSIG protocol type display in the drop-down list box. If the route group contains a gateway that is configured with a non-QSIG protocol type, only gateways that are configured with a non-QSIG protocol type display in the drop-down list box.
Port	If this device supports individually configurable ports, choose the port. (Devices that allow you to choose individual ports include Cisco Access Analog and Cisco MGCP Analog gateways and T1 CAS.) Otherwise, choose All (default value).
Order	Choose the order in which you want to access this port or device (1 having the highest priority). For more information about the order of devices in a route group, see Route Plan Overview, page 13-1, in the *Cisco CallManager System Guide*.

Related Topics

- Finding a Route Group, page 17-2
- Adding a Route Group, page 17-3
- Adding Devices to a Route Group, page 17-4
- Removing Devices from a Route Group, page 17-5
- Updating a Route Group, page 17-6

- Deleting a Route Group, page 17-7
- Understanding Route Plans, *Cisco CallManager Administration Guide*