



Route List

Route lists are made up of route groups and are associated with route patterns. A route list associates a set of route groups with a route pattern and determines the order in which those route groups are accessed. The order controls the progress of the search for available trunk devices for outgoing calls.

Use the following procedures to add or remove route lists or to add, remove or change the order of route groups in a route list:

- Adding a Route List, page 22-5
- Adding Route Groups to a Route List, page 22-7
- Removing Route Groups from a Route List, page 22-8
- Changing the Order of Route Groups in a Route List, page 22-9
- Deleting a Route List, page 22-10

Understanding Calling Party Transformation Settings

Calling party transformation settings allow you to manipulate the appearance of the calling party's number for outgoing calls. The calling party's number is used for Calling Line Identification (CLID). During an outgoing call, the CLID is passed to each private branch exchange (PBX), central office (CO), and inter-exchange carrier (IXC) as the call progresses. The CLID is also delivered to the calling party when the call completes.

The calling party transformation settings used in route lists are assigned to the individual route groups comprising the list, rather than the route list as a whole. The calling party transformation settings assigned to the route groups in a route list override any calling party transformation settings assigned to a route pattern associated with that route list.

Table 22-1 describes the fields, options, and values used to specify calling party transformations for a route group.

Table 22-1 Calling Party Transformation Settings

Field Name	Description
Use Calling Party's External Phone Number Mask	<p>This field determines whether or not the full, external phone number is used for CLID on outgoing calls. The options for this field are Default, Off, and On.</p> <ul style="list-style-type: none"> • Default: This setting indicates that the calling party external phone number and calling party transformation masks are not governed by the route group. If a calling party external phone number mask or transformation mask is selected for the route pattern, calls that are routed through this route group will use those masks. • Off: This setting indicates that the calling party's external phone number is not used for CLID. If no transformation mask is entered for this route group, calls that are routed through this group are not associated with a CLID. • On: This setting indicates that the calling party's full, external number is used for CLID.
Calling Party Transformation Mask	<p>This field specifies the calling party transformation mask for all calls routed through this route group. Valid values for this field are the numbers 0 through 9, and the wildcard character X. This field can also be left blank. If it is blank and the preceding field is set to Off, no calling party number is available for CLID.</p> <p>The calling party transformation mask can contain up to 50 digits.</p>

Additional Information

- Understanding Route Plans, page 5-1
- Understanding Route Pattern Wildcards and Special Characters, page 5-7

Understanding Called Party Transformation Settings

Called party transformation settings allow you to manipulate the dialed digits, or called party's number, for outgoing calls. Examples of manipulating called numbers include appending or removing prefix digits, appending area codes to calls dialed as seven-digit numbers, appending area codes and office codes to interoffice calls dialed as four- or five-digit extensions, and suppressing carrier access codes for equal access calls.

The called party transformation settings used in route lists are assigned to the individual route groups comprising the list, rather than the route list as a whole. The called party transformation settings assigned to the route groups in a route list override any called party transformation settings assigned to a route pattern associated with that route list.

Table 22-2 describes the fields, options, and values used to specify called party transformations for a route group.

Table 22-2 Called Party Transformation Settings

Field Name	Description
Select Dial Plan	This field determines which dialing plan is used. If it is not already selected, change this field to North American Numbering Plan.
Discard Digits	This field contains a list of discard patterns that control the discard digit instructions. For example, in a system where users must dial 9 to make a call to the Public Switched Telephone Network (PSTN), the PreDot discard pattern causes the 9 to be stripped from the dialed digit string.

Table 22-2 Called Party Transformation Settings (continued)

Field Name	Description
Called Party Transformation Mask	<p>This field specifies the called party transformation mask for all calls routed through this route group. Valid values for this field are the numbers 0 through 9, and the wildcard character X. This field can also be left blank. If this field is blank, no transformation takes place—the dialed digits are sent exactly as dialed.</p> <p>The calling party transformation mask can contain up to 50 digits.</p>
Prefix Digits	<p>This field contains a prefix digit or a set of prefix digits that are appended to the called party number on all calls routed through this route group. Valid values for this field are the numbers 0 through 9 and blank. Prefix Digits can contain up to 50 digits.</p>

Additional Information

- Understanding Route Plans, page 5-1
- Understanding Route Pattern Wildcards and Special Characters, page 5-7
- Understanding Discard Digits Instructions, page 5-12

Adding a Route List

The following procedure describes how to add a route list.

Procedure

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- Step 1** Open Cisco CallManager Administration.
 - Step 2** Select **Route Plan > Route List** in the menu bar.

- Step 3** Enter a name in the Route List Name field. The name can consist of up to 50 alphanumeric characters, and can contain any combination of spaces, periods (.), hyphens (-), and underscore characters (_). Each route list name must be unique to the route plan.

**Timesaver**

Use concise and descriptive names for your route lists. The CompanynameLocationCalltype format usually provides a sufficient level of detail and is short enough to enable you to quickly and easily identify a route list. For example, CiscoDallasMetro identifies a route list for toll free inter-LATA (Local Access and Transport Area) calls from the Cisco office in Dallas.

- Step 4** Click **Insert** to add this route list.
- Step 5** Type a description for the route list in the Description field and click **Update**.
- Step 6** Click **New** and repeat Steps 3 through 5 to add another route list. Click **Add Route Group** and perform Steps 5 through 9 of the “Adding Route Groups to a Route List” section on page 22-7 to add a route group to this list.
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Additional Information

- Understanding Route Plans, page 5-1
- Understanding Route Groups, page 21-1

Related Procedures

- Adding Route Groups to a Route List, page 22-7
- Changing the Order of Route Groups in a Route List, page 22-9
- Removing Route Groups from a Route List, page 22-8
- Deleting a Route List, page 22-10
- Adding a Route Group, page 21-2

Adding Route Groups to a Route List

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

Before You Begin

You must build one or more route groups and add a route list before performing this procedure.

Procedure

- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **Route Plan > Route List** in the menu bar.
- Step 3** Select a name from the route lists on the left side of the page.
- Step 4** Click **Add Route Group**.
- Step 5** Select a route group to add to the list from the Select Route Group drop-down list box.
- Step 6** Click **Add**.
- Step 7** If you need to manipulate the calling party's number on calls routed through this route group, set up the calling party transformations in the appropriate fields.



Note For more information on calling party transformations, see Understanding Calling Party Transformation Settings, page 22-1.

- Step 8** If you need to manipulate the dialed digits on calls routed through this route group, set up the called party transformations in the appropriate fields.



Note For more information on called party transformations, see Understanding Called Party Transformation Settings, page 22-4.

- Step 9** Click **Insert** to add the route group. The new route group name is added to the route list on the left side of the page and the message “Status: Insert completed” is displayed.
- Step 10** Click **Add Route Group to the current Route List** and repeat Steps 5 through 9 to add more route groups to this list. Click **Add new Route List** and perform Steps 3 through 5 of the “Adding a Route List” section on page 22-5 to add another route list.
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Additional Information

- Understanding Route Plans, page 5-1
- Understanding Calling Party Transformation Settings, page 22-1
- Understanding Called Party Transformation Settings, page 22-4

Related Procedures

- Adding a Route List, page 22-5
- Changing the Order of Route Groups in a Route List, page 22-9
- Removing Route Groups from a Route List, page 22-8
- Deleting a Route List, page 22-10
- Adding a Route Group, page 21-2

Removing Route Groups from a Route List

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

Procedure

- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **Route Plan > Route List** in the menu bar.
- Step 3** Select a name from the route lists on the left side of the page.
- Step 4** Select one or more route group names from the Route Groups selected... field.

- Step 5** Click **Remove Route Group(s)**.
- Step 6** A dialog box appears warning you that removing route groups from a route list cannot be undone.
- Step 7** Click **OK** to remove the route group, or click **Cancel** to cancel the action. If you click **OK**, when the page refreshes, the route group is removed from the route list and the message “Status: Ready” is displayed.
- Step 8** Select a route group name from the Route Groups selected... field and repeat Steps 5 through 7 to remove another route group from this route list.
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Additional Information

- Understanding Route Plans, page 5-1

Related Procedures

- Adding a Route List, page 22-5
- Adding Route Groups to a Route List, page 22-7
- Changing the Order of Route Groups in a Route List, page 22-9
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- Adding a Route Group, page 21-2

Changing the Order of Route Groups in a Route List

Route groups are accessed in the order in which they appear in the route list. The following procedure allows you to change the access order of route groups.

Procedure

- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **Route Plan > Route List** in the menu bar.
- Step 3** Select a name from the route lists on the left side of the page.
- Step 4** Select a route group name from the Route Groups selected... field.

- Step 5** Click the up or down arrows on the right side of the list box to move the route group up or down in the list.
- Step 6** Select a route group name from the Route Groups selected... field and repeat Steps 4 and 5 to move another route group in the route list.
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Additional Information

- Understanding Route Plans, page 5-1

Related Procedures

- Adding a Route List, page 22-5
- Adding Route Groups to a Route List, page 22-7
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- Adding a Route Group, page 21-2

Deleting a Route List

Route lists are associated with both route groups and route patterns, however neither route groups nor route patterns are deleted when the route list is deleted.

The following procedure describes how to delete a route list.

Procedure

- Step 1** Open Cisco CallManager Administration.
- Step 2** Select **Route Plan > Route List** in the menu bar.
- Step 3** Select a name from the route lists on the left side of the page.
- Step 4** Click **Delete**.
- Step 5** A dialog box appears warning you that removing a route list cannot be undone.
- Step 6** Click **OK** to remove the route list, or click **Cancel** to cancel the action. If you click **OK**, when the page refreshes, the route list is removed and the message “Status: Ready” is displayed.

Step 7 Repeat Steps 3 through 6 to remove another route list.

Additional Information

- Understanding Route Plans, page 5-1

Related Procedures

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