Translation Pattern Configuration

The Cisco CallManager uses translation patterns to manipulate dialed digits before it routes a call. In some cases, the system does not use the dialed number. In other cases, the public switched telephone network (PSTN) does not recognize the dialed number.

Use the following topics to add, update, copy, or delete a translation pattern:

Finding a Translation Pattern

Because you might have several translation patterns in your network, Cisco CallManager lets you locate specific translation patterns by using specific criteria as the basis. Use the following procedure to locate translation patterns.

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

Procedure

Step 1 Choose **Route Plan > Translation Pattern**.

The Find and List Translation Patterns window displays.

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

- Pattern (to search by translation pattern names)
- Description (to search by translation pattern descriptions)
- Partition (to search by the partition name)

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

From the second 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 translation patterns that are registered in the database, click **Find** without entering any search text.

A list of discovered translation patterns displays by

- Translation pattern icon
- Translation pattern
- Partition
- Description
- Route filter

Note You can delete multiple translation patterns from the Find and List Translation Patterns window by checking the check boxes next to the appropriate translation patterns and clicking **Delete Selected**. You can delete all the translation patterns 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 translation pattern that matches your search criteria.

The Translation Pattern Configuration window displays the translation pattern that you choose.

Related Topics

- Adding a Translation Pattern, page 27-4
- Updating a Translation Pattern, page 27-5
- Copying a Translation Pattern, page 27-6
- Deleting a Translation Pattern, page 27-7
- Translation Pattern Configuration Settings, page 27-8
- Understanding Route Plans, *Cisco CallManager System Guide*

Adding a Translation Pattern

This section describes how to add a translation pattern.

Before You Begin

Configure the following Cisco CallManager items before adding a translation pattern:

- Partition
- Route filter
- Calling search space

Procedure

Step 1 Choose **Route Plan > Translation Pattern**.

Step 2 Click **Add a New Translation Pattern**.

Step 3 Enter the appropriate configuration settings as described in Table 27-1.

Step 4 Click **Insert**.

Related Topics

- Finding a Translation Pattern, page 27-1
- Updating a Translation Pattern, page 27-5
- Copying a Translation Pattern, page 27-6
- Deleting a Translation Pattern, page 27-7
- Translation Pattern Configuration Settings, page 27-8
- Understanding Route Plans, *Cisco CallManager System Guide*

Updating a Translation Pattern

This section describes how to update a translation pattern.

Procedure

Step 1 Choose **Route Plan** > **Translation Pattern**.

Step 2 Locate the translation pattern that you want to update. See the "Finding a Translation Pattern" section on page 27-1.

Step 3 Update the appropriate settings as described in the "Translation Pattern Configuration Settings" section on page 27-8.

Note Ensure that the translation pattern, that uses the selected partition, route filter, and numbering plan combination, is unique. Check the route pattern/hunt pilot, translation pattern, directory number, call park number, call pickup number, or meet-me number configuration windows if you receive an error that indicates duplicate entries.

Step 4 Click **Update**.

The window displays the updated translation pattern.

Related Topics

- Finding a Translation Pattern, page 27-1
- Adding a Translation Pattern, page 27-4
- Copying a Translation Pattern, page 27-6
- Deleting a Translation Pattern, page 27-7
- Translation Pattern Configuration Settings, page 27-8
- Understanding Route Plans, *Cisco CallManager System Guide*

Copying a Translation Pattern

This section describes how to copy a translation pattern.

Procedure

Step 1 Choose **Route Plan** > **Translation Pattern**.

Step 2 Locate the translation pattern that you want to copy. See the "Finding a Translation Pattern" section on page 27-1.

Step 3 Check the check box next to the translation pattern that you want to copy.

Step 4 Click the **Copy** icon of that translation pattern.

The window displays the copy of the translation pattern.

Step 5 Update the appropriate settings as described in Table 27-1.

Step 6 Click **Insert** to add the new translation pattern.

Related Topics

- Finding a Translation Pattern, page 27-1
- Adding a Translation Pattern, page 27-4
- Updating a Translation Pattern, page 27-5
- Deleting a Translation Pattern, page 27-7
- Translation Pattern Configuration Settings, page 27-8
- Understanding Route Plans, *Cisco CallManager System Guide*

Deleting a Translation Pattern

This section describes how to delete a translation pattern.

Procedure

Step 1 Choose **Route Plan** > **Translation Pattern**.

Step 2 Locate the translation pattern that you want to delete. See the "Finding a Translation Pattern" section on page 27-1.

Step 3 Check the check box of the translation pattern that you want to delete and click **Delete Selected**.

A message displays that states that you cannot undo this action.

Step 4 To delete the translation pattern, click **OK** or, to cancel the deletion, click **Cancel**.

Caution Check carefully to ensure that you are deleting the correct translation pattern before you initiate this action. You cannot retrieve deleted translation patterns. If a translation pattern is accidentally deleted, you must rebuild it.

Tip You can also delete a translation pattern by locating and displaying the translation pattern that you want to delete and clicking **Delete**.

Related Topics

- Finding a Translation Pattern, page 27-1
- Adding a Translation Pattern, page 27-4
- Updating a Translation Pattern, page 27-5
- Copying a Translation Pattern, page 27-6
- Translation Pattern Configuration Settings, page 27-8
- Understanding Route Plans, *Cisco CallManager System Guide*

Translation Pattern Configuration Settings

Table 27-1 describes the available fields in the Translation Pattern Configuration window.

Table 27-1 Translation Pattern Configuration Settings

Field	Description
Pattern Definition	
Translation Pattern	Enter the translation pattern, including numbers and wildcards (do not use spaces), in the Translation Pattern field. For example, for the NANP, enter 9.@ for typical local access or 8XXX for a typical private network numbering plan. Valid characters include the uppercase characters A, B, C, and D. If you leave this field blank, you must select a partition from the **Partition** drop-down list box. **Note** Ensure that the translation pattern, which uses the chosen partition, route filter, and numbering plan combination, is unique. Check the route pattern/hunt pilot, translation pattern, directory number, call park number, call pickup number, or meet-me number if you receive an error that indicates duplicate entries. Alternatively, check the route plan report if you receive an error that indicates duplicate entries.

Table 27-1 Translation Pattern Configuration Settings (continued)

Field	Description
Partition	Choose a partition. If you do not want to assign a partition, choose <*None*>. If you choose <*None*>, you must enter a value in the **Translation Pattern** field. You can configure the number of partitions that display in this drop-down list box by using the Max List Box Items enterprise parameter. If more partitions exist than the number that are configured in the Max List Box Items enterprise parameter, the ellipsis button (**...**) displays next to the drop-down list box. Click the **...** button to display the Select Partition window. Enter a partial partition name in the **List items where Name contains** field. Click the desired partition name in the list of partitions that display in the **Select item to use** box and click **OK**. **Note** To set the maximum list box items, choose **System > Enterprise Parameters** and choose **CCMAdmin Parameters**. **Note** Make sure that the combination of translation pattern, route filter, and partition is unique within the Cisco CallManager cluster.
Description	Enter a description for the translation pattern.
Numbering Plan	Choose a numbering plan.

Table 27-1 Translation Pattern Configuration Settings (continued)

Field	Description
Route Filter	Choosing an optional route filter restricts certain number patterns. See the "Wildcards and Special Characters in Route Patterns and Hunt Pilots" section in the *Cisco CallManager System Guide* and the "Route Filter Configuration" section on page 16-1 for more information. The route filters that display depend on the numbering plan that you choose from the Numbering Plan drop-down list box. If more than 250 route filters exist, the ellipsis button (**...**) displays next to the drop-down list box. Click the **...** button to display the Select Route Filters window. Enter a partial route filter name in the **List items where Name contains** field. Click the desired route filter name in the list of route filters that displays in the **Select item to use** box and click **OK**. **Note** To set the maximum list box items, choose **System > Enterprise Parameters** and choose **CCMAdmin Parameters**.

Table 27-1 Translation Pattern Configuration Settings (continued)

Field	Description
Calling Search Space	From the drop-down list box, choose the calling search space for which you are adding a translation pattern, if necessary. You can configure the number of calling search spaces that display in this drop-down list box by using the Max List Box Items enterprise parameter. If more calling search spaces exist than the number that are configured in the Max List Box Items enterprise parameter, the ellipsis button (**...**) displays next to the drop-down list box. Click the **...** button to display the Select Calling Search Space window. Enter a partial calling search space name in the **List items where Name contains** field. Click the desired calling search space name in the list of calling search spaces that display in the **Select item to use** box and click **OK**. **Note** To set the maximum list box items, choose **System > Enterprise Parameters** and choose **CCMAdmin Parameters**.

Table 27-1 Translation Pattern Configuration Settings (continued)

Field	Description
MLPP Precedence	Choose an MLPP precedence setting for this translation pattern from the drop-down list box: • Executive Override—Highest precedence setting for MLPP calls. • Flash Override—Second highest precedence setting for MLPP calls. • Flash—Third highest precedence setting for MLPP calls. • Immediate—Fourth highest precedence setting for MLPP calls. • Priority—Fifth highest precedence setting for MLPP calls. • Routine—Lowest precedence setting for MLPP calls. • Default—Does not override the incoming precedence level but rather lets it pass unchanged. **Note** Refer to the "Precedence" section in the "Multilevel Precedence and Preemption" chapter of the *Cisco CallManager Features and Services Guide* for more information.

Table 27-1 Translation Pattern Configuration Settings (continued)

Field	Description
Route Option	The Route Option designation indicates whether you want this translation pattern to be used for routing calls (such as 9.@ or 8[2-9]XX) or for blocking calls. Choose the Route this pattern or Block this pattern radio button. If you choose the Block this pattern radio button, you must choose the reason for which you want this translation pattern to block calls. Choose a value from the drop-down list box: • No Error • Unallocated Number • Call Rejected • Number Changed • Invalid Number Format • Precedence Level Exceeded
Provide Outside Dial Tone	Outside dial tone indicates that Cisco CallManager routes the calls off the local network. Check this check box for each route pattern that you consider to be off network.
Urgent Priority	Cisco CallManager sets all translation patterns with urgent priority, and you cannot change the priority of the translation patterns.
Calling Party Transformations	
Use Calling Party's External Phone Number Mask	Check the check box if you want the full, external phone number to be used for calling line identification (CLID) on outgoing calls.

Table 27-1 Translation Pattern Configuration Settings (continued)

Field	Description
Calling Party Transform Mask	Enter a transformation mask value. Valid entries for the NANP include the digits 0 through 9; the wildcard characters X, asterisk (*), and octothorpe (#); the uppercase characters A, B, C, and D; and blank. If this field is blank and the preceding field is not checked, no calling party transformation takes place. See the "Adding a Route List" section on page 22-4 for more detailed information.
Prefix Digits (Outgoing Calls)	Enter prefix digits. Valid entries for the NANP include the digits 0 through 9; the wildcard characters asterisk (*) and octothorpe (#); the uppercase characters A, B, C, and D; and blank. **Note** The appended prefix digit does not affect which directory numbers route to the assigned device.

Table 27-1 Translation Pattern Configuration Settings (continued)

Field	Description
Calling Line ID Presentation	Cisco CallManager uses calling line ID presentation (CLIP/CLIR) as a supplementary service to allow or restrict the originating caller's phone number on a call-by-call basis. Choose whether you want the Cisco CallManager to allow or restrict the display of the calling party's phone number on the called party's phone display for this translation pattern. Choose *Default* if you do not want to change calling line ID presentation. Choose *Allowed* if you want Cisco CallManager to allow the display of the calling number. Choose *Restricted* if you want Cisco CallManager to block the display of the calling number. For more information about this field, see Table 15-6 in the "Calling Party Number Transformations Settings" section in the *Cisco CallManager System Guide*. **Note** Use this parameter and the Connected Line ID Presentation parameter, in combination with the Ignore Presentation Indicators (internal calls only) device-level parameter, to configure call display restrictions. Together, these settings allow you to selectively present or restrict calling and/or connected line display information for each call. See the "Adding a New User Device Profile" section on page 58-4 and Table 62-1 in the "Phone Configuration Settings" section on page 62-13 for information about the Ignore Presentation Indicators (internal calls only) field. For more information about call display restrictions, refer to the Call Display Restrictions chapter in the *Cisco CallManager Features and Services Guide*.

Table 27-1 Translation Pattern Configuration Settings (continued)

Field	Description
Calling Name Presentation	Cisco CallManager uses calling name presentation (CNIP/CNIR) as a supplementary service to allow or restrict the originating caller's name on a call-by-call basis. Choose whether you want the Cisco CallManager to allow or restrict the display of the calling party's name on the called party's phone display for this translation pattern. Choose *Default* if you do not want to change calling name presentation. Choose *Allowed* if you want Cisco CallManager to display the calling name information. Choose *Restricted* if you want Cisco CallManager to block the display of the calling name information. For more information about this field, see Table 15-6 in the "Calling Party Number Transformations Settings" section in the *Cisco CallManager System Guide*.

Table 27-1 Translation Pattern Configuration Settings (continued)

Field	Description
Connected Party Transformations	
Connected Line ID Presentation	Cisco CallManager uses connected line ID presentation (COLP/COLR) as a supplementary service to allow or restrict the called party's phone number on a call-by-call basis. Choose whether you want Cisco CallManager to allow or restrict the display of the connected party's phone number on the calling party's phone display for this translation pattern. Choose *Default* if you do not want to change the connected line ID presentation. Choose *Allowed* if you want to display the connected party's phone number. Choose *Restricted* if you want Cisco CallManager to block the display of the connected party's phone number. For more information about this field, see Table 15-9 in the "Connected Party Presentation and Restriction Settings" section in the *Cisco CallManager System Guide*.
Connected Name Presentation	Cisco CallManager uses connected name presentation (CONP/CONR) as a supplementary service to allow or restrict the called party's name on a call-by-call basis. Choose whether you want Cisco CallManager to allow or restrict the display of the connected party's name on the calling party's phone display for this translation pattern. Choose *Default* if you do not want to change the connected name presentation. Choose *Allowed* if you want to display the connected party's name. Choose *Restricted* if you want Cisco CallManager to block the display of the connected party's name. For more information about this field, see Table 15-9 in the "Connected Party Presentation and Restriction Settings" section in the *Cisco CallManager System Guide*.

Table 27-1 Translation Pattern Configuration Settings (continued)

Field	Description
Called Party Transformations	
Discard Digits	Choose the discard digits instructions that you want to be associated with this translation pattern. See the "Discard Digits Instructions" section in the *Cisco CallManager System Guide* for more information. **Note** The discard digits that display depend on the numbering plan that you choose from the Numbering Plan drop-down list box.
Called Party Transform Mask	Enter a transformation mask value. Valid entries for the NANP include the digits 0 through 9; the wildcard characters X, asterisk (*), and octothorpe (#); the uppercase characters A, B, C, and D; and blank. If the field is blank, no transformation takes place. The dialed digits get sent exactly as dialed.
Prefix Digits (Outgoing Calls)	Enter prefix digits. Valid entries for the NANP include the digits 0 through 9; the wildcard characters asterisk (*) and octothorpe (#); the uppercase characters A, B, C, and D; and blank. **Note** The appended prefix digit does not affect which directory numbers route to the assigned device.

Related Topics

- Finding a Translation Pattern, page 27-1
- Adding a Translation Pattern, page 27-4
- Updating a Translation Pattern, page 27-5
- Copying a Translation Pattern, page 27-6
- Deleting a Translation Pattern, page 27-7
- Understanding Route Plans, *Cisco CallManager System Guide*