



Translation Pattern Configuration

Cisco Unified 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, page 45-1](#)
- [Configuring a Translation Pattern, page 45-3](#)
- [Deleting a Translation Pattern, page 45-9](#)
- [Translation Pattern Configuration Settings, page 45-4](#)

Finding a Translation Pattern

Because you might have several translation patterns in your network, Cisco Unified 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 Unified CallManager Administration retains your translation pattern search preferences. If you navigate to other menu items and return to this menu item, Cisco Unified CallManager Administration retains your translation pattern search preferences until you modify your search or close the browser.

Procedure

- Step 1** Choose **Call Routing > 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
- is exactly
- ends with
- is empty
- is not empty

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
- 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 clicking **Select All** and then 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.

Additional Information

See the [“Related Topics”](#) section on page 45-9.

Configuring a Translation Pattern

This section describes how to configure a translation pattern.

Before You Begin

Configure the following Cisco Unified CallManager items before configuring a translation pattern:

- Partition
- Route filter
- Calling search space

Procedure

Step 1 Choose **Call Routing > Translation Pattern**.

The Find and List Translation Patterns window displays.

Step 2 Perform one of the followings tasks:

- To copy an existing translation pattern, locate the appropriate translation pattern as described in the [“Finding a Translation Pattern” section on page 45-1](#), click the **Copy** button next to the translation pattern that you want to copy, and continue with [Step 3](#).
- To add a new translation pattern, click the **Add New** button, and continue with [Step 3](#).
- To update an existing translation pattern, locate the appropriate translation pattern as described in the [“Finding a Phone” section on page 70-29](#), and continue with [Step 3](#).

Step 3 In the Translation Pattern Configuration window that displays, enter the appropriate configuration settings as described in [Table 45-1](#).

Step 4 Click **Save**.



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.

The Translation Pattern Configuration window displays the newly configured translation pattern.

Additional Information

See the [“Related Topics” section on page 45-9](#).

Translation Pattern Configuration Settings

Table 45-1 describes the available fields in the Translation Pattern Configuration window.

Table 45-1 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 a message that indicates duplicate entries. Alternatively, check the route plan report if you receive a message that indicates duplicate entries.
Partition	Choose a partition. If you do not want to assign a partition, choose <i><None></i>. If you choose <i><None></i>, 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 Unified CallManager cluster.
Description	Enter a description for the translation pattern.
Numbering Plan	Choose a numbering plan. If your translation pattern includes the @ wildcard, you may choose a numbering plan. The optional act of choosing a numbering plan restricts certain number patterns.

Table 45-1 Translation Pattern Configuration Settings (continued)

Field	Description
Route Filter	Choosing an optional route filter restricts certain number patterns. Refer to the “Wildcards and Special Characters in Route Patterns and Hunt Pilots” section in the <i>Cisco Unified CallManager System Guide</i> and the “Route Filter Configuration Settings” section on page 31-4 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.
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 <i>Cisco Unified CallManager Features and Services Guide</i> for more information.
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 45-1 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 Unified CallManager routes the calls off the local network. Check this check box for each translation pattern that you consider to be off network.
Urgent Priority	Cisco Unified 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.
Calling Party Transform Mask	Enter a transformation mask value. Valid entries for the NANP include the digits 0 through 9, and the wildcard characters 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. Refer to the “Adding a Route List” section on page 33-3 for more detailed information.
Prefix Digits (Outgoing Calls)	Enter prefix digits. Valid entries for the NANP include the digits 0 through 9, and the wildcard characters asterisk (*) and octothorpe (#); the uppercase characters A, B, C, and D. Note The appended prefix digit does not affect which directory numbers route to the assigned device.

Table 45-1 Translation Pattern Configuration Settings (continued)

Field	Description
Calling Line ID Presentation	Cisco Unified 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 Unified 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 <i>Default</i> if you do not want to change calling line ID presentation. Choose <i>Allowed</i> if you want Cisco Unified CallManager to allow the display of the calling number. Choose <i>Restricted</i> if you want Cisco Unified CallManager to block the display of the calling number. For more information about this field, see Table 17-6 in the “Calling Party Number Transformations Settings” section in the <i>Cisco Unified CallManager System Guide</i>. 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 “Configuring a New User Device Profile” section on page 75-2 and Table 70-1 in the “Phone Configuration Settings” section on page 70-6 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 <i>Cisco Unified CallManager Features and Services Guide</i>.
Calling Name Presentation	Cisco Unified 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 Unified 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 <i>Default</i> if you do not want to change calling name presentation. Choose <i>Allowed</i> if you want Cisco Unified CallManager to display the calling name information. Choose <i>Restricted</i> if you want Cisco Unified CallManager to block the display of the calling name information. For more information about this field, see Table 17-6 in the “Calling Party Number Transformations Settings” section in the <i>Cisco Unified CallManager System Guide</i>.

Table 45-1 Translation Pattern Configuration Settings (continued)

Field	Description
Connected Party Transformations	
Connected Line ID Presentation	Cisco Unified 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 Unified 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 <i>Default</i> if you do not want to change the connected line ID presentation. Choose <i>Allowed</i> if you want to display the connected party's phone number. Choose <i>Restricted</i> if you want Cisco Unified CallManager to block the display of the connected party's phone number. For more information about this field, see Table 17-9 in the “Connected Party Presentation and Restriction Settings” section in the <i>Cisco Unified CallManager System Guide</i>.
Connected Name Presentation	Cisco Unified 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 Unified 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 <i>Default</i> if you do not want to change the connected name presentation. Choose <i>Allowed</i> if you want to display the connected party's name. Choose <i>Restricted</i> if you want Cisco Unified CallManager to block the display of the connected party's name. For more information about this field, see Table 17-9 in the “Connected Party Presentation and Restriction Settings” section in the <i>Cisco Unified CallManager System Guide</i>.
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 <i>Cisco Unified CallManager System Guide</i> 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, and the wildcard characters 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, and 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.

Additional Information

See the [“Related Topics”](#) section on page 45-9.

Deleting a Translation Pattern

This section describes how to delete a translation pattern.

Procedure

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- Step 1** Choose **Call Routing > Translation Pattern**.
- Step 2** Locate the translation pattern that you want to delete. See the [“Finding a Translation Pattern”](#) section on page 45-1.
- 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 you accidentally delete a translation pattern, 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**.

Additional Information

See the [“Related Topics”](#) section on page 45-9.

Related Topics

- [Finding a Translation Pattern, page 45-1](#)
- [Configuring a Translation Pattern, page 45-3](#)
- [Translation Pattern Configuration Settings, page 45-4](#)
- [Deleting a Translation Pattern, page 45-9](#)
- [Understanding Route Plans, Cisco Unified CallManager System Guide](#)

