



SIP route pattern setup

This chapter provides information about SIP Route Pattern configuration.

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About SIP route pattern setup

In Cisco Unified Communications Manager Administration, use the **Call Routing > SIP Route Pattern** menu path to configure SIP route patterns.

Cisco Unified Communications Manager uses SIP route patterns to route or block both internal and external calls.

The domain name or IP address provides the basis for routing. The administrator can add domains, IP addresses, and IP network (subnet) addresses and associate them to SIP trunks (only). This method allows requests that are destined for these domains to be routed through particular SIP trunk interfaces.



Note

Because no default SIP route patterns exist in Cisco Unified Communications Manager, the administrator must set them up.



Note

Domain name examples: cisco.com, my-pc.cisco.com, *.com, rtp-ccm[1-5].cisco.com



Note

Valid characters for domain names: [, - , . , 0-9, A-Z, a-z, *, and].



Note

IPv4 address examples: 172.18.201.119 or 172.18.201.119/32 (explicit IP host address); 172.18.0.0/16 (IP subnet); 172.18.201.18/21 (IP subnet).

**Note**

Valid characters for IP addresses: 0-9, ., and /

SIP route patterns configuration tips

Before you begin, ensure at least one SIP Profile and SIP trunk are configured before you can configure a SIP route pattern.

Related Topics

[Set up trunk](#)

SIP route pattern deletion

If the SIP route pattern is not in use, Cisco Unified Communications Manager deletes it. If it is in use, a message displays.

SIP route pattern settings

The following table describes the SIP route pattern settings.

Table 1: SIP route pattern settings

| Field | Description |
|---------------------------|---|
| Pattern Definition | |
| Pattern Usage | (Required) From the drop-down list, choose either Domain Routing or IP Address Routing. |
| IPv4 Pattern | (Required) Enter the domain, sub-domain, IPv4 address, or IP subnetwork address. Note For the IP subnetwork address, in Classless Inter-Domain Routing (CIDR) notation, X.X.X.X/Y; where Y is the network prefix that denotes the number of bits in the address that will be the network address. |
| IPv6 Pattern | Cisco Business Edition 5000 does not support IPv6, so this setting does not apply to Cisco Business Edition 5000. |
| Description | For this optional entry, enter a description of the SIP Route Pattern. The description can include up to 50 characters in any language, but it cannot include double-quotes ("), percentage sign (%), ampersand (&), or angle brackets (<>). |

| Field | Description |
|---|--|
| Route Partition | <p>If you want to use a partition to restrict access to the SIP route pattern, choose the desired partition from the drop-down list box. If you do not want to restrict access to the SIP route pattern, choose <None> for the partition.</p> <p>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 than 250 partitions are specified by using the Max List Box Items enterprise parameter, the Find button displays next to the drop-down list box. Click the Find 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 displays in the Select item to use box and click Add Selected.</p> <p>Note To set the maximum list box items, choose System > Enterprise Parameters and choose CCMAAdmin Parameters.</p> <p>Note Make sure that the combination of SIP route pattern, route filter, and partition is unique within the Cisco Unified Communications Manager system.</p> |
| SIP Trunk / Route List | <p>(Required) Use the drop-down list to choose the SIP trunk or route list to which the SIP route pattern should be associated.</p> <p>Click Edit to open the trunk or route list in the Trunk or Route List Configuration window.</p> <p>Note URI dialing is available over SIP trunks only. If you are using URI dialing, and you select a route list from this drop-down list box, the route list must contain route groups with SIP trunks only.</p> |
| Block Pattern | <p>If you do not want this pattern to be used for routing calls, click the Block Pattern check box.</p> |
| Calling Party Transformations | |
| Use Calling Party's External Phone Mask | <p>Check the check box if you want the full, external phone number to be used for calling line identification (CLID) on outgoing calls. You may also configure an External Phone Number Mask on all phone devices.</p> |
| Calling Party Transformation Mask | <p>Enter a transformation mask value. Valid entries include the digits 0 through 9 and the wildcard characters X, asterisk (*), and octothorpe (#). If this field is blank and the preceding field is not checked, no calling party transformation takes place. See topics related to calling party number transformations settings in the <i>Cisco Unified Communications Manager System Guide</i> for more information.</p> |
| Prefix Digits (Outgoing Calls) | <p>Enter prefix digits in the Prefix Digits (Outgoing Calls) field. Valid entries include the digits 0 through 9 and the wildcard characters asterisk (*) and octothorpe (#).</p> <p>Note The appended prefix digit does not affect which directory numbers route to the assigned device.</p> |

| Field | Description |
|--|--|
| Calling Line ID Presentation | <p>Cisco Unified Communications Manager uses calling line ID presentation (CLIP/CLIR) as a supplementary service to allow or restrict the originating caller phone number on a call-by-call basis.</p> <p>Choose whether you want the Cisco Unified Communications Manager to allow or restrict the display of the calling party phone number on the called party phone display for this SIP route pattern.</p> <p>Choose Default if you do not want to change calling line ID presentation. Choose Allowed if you want Cisco Unified Communications Manager to allow the display of the calling number. Choose Restricted if you want Cisco Unified Communications Manager to block the display of the calling number.</p> <p>For more information about this field, see topics related to calling party number transformations settings in the <i>Cisco Unified Communications Manager System Guide</i>.</p> |
| Calling Line Name Presentation | <p>Cisco Unified Communications Manager uses calling name presentation (CNIP/CNIR) as a supplementary service to allow or restrict the originating caller name on a call-by-call basis.</p> <p>Choose whether you want the Cisco Unified Communications Manager to allow or restrict the display of the calling party name on the called party phone display for this SIP route pattern.</p> <p>Choose Default if you do not want to change calling name presentation. Choose Allowed if you want Cisco Unified Communications Manager to display the calling name information. Choose Restricted if you want Cisco Unified Communications Manager to block the display of the calling name information.</p> <p>For more information about this field, see topics related to calling party number transformations settings in the <i>Cisco Unified Communications Manager System Guide</i>.</p> |
| Connected Party Transformations | |
| Connected Line ID Presentation | <p>Cisco Unified Communications Manager uses connected line ID presentation (COLP/COLR) as a supplementary service to allow or restrict the called party phone number on a call-by-call basis.</p> <p>Choose whether you want Cisco Unified Communications Manager to allow or restrict the display of the connected party phone number on the calling party phone display for this SIP route pattern.</p> <p>Choose Default if you do not want to change the connected line ID presentation. Choose Allowed if you want to display the connected party phone number. Choose Restricted if you want Cisco Unified Communications Manager to block the display of the connected party phone number.</p> <p>For more information about this field, see topics related to connected party presentation and restriction settings in the <i>Cisco Unified Communications Manager System Guide</i>.</p> |

| Field | Description |
|----------------------------------|---|
| Connected Line Name Presentation | <p>Cisco Unified Communications Manager uses connected name presentation (CONP/CONR) as a supplementary service to allow or restrict the called party name on a call-by-call basis.</p> <p>Choose whether you want Cisco Unified Communications Manager to allow or restrict the display of the connected party name on the calling party phone display for this SIP route pattern.</p> <p>Choose Default if you do not want to change the connected name presentation. Choose Allowed if you want to display the connected party name. Choose Restricted if you want Cisco Unified Communications Manager to block the display of the connected party name.</p> <p>For more information about this field, see topics related to connected party presentation and restriction settings in the <i>Cisco Unified Communications Manager System Guide</i>.</p> |

Related Topics

- [SIP route pattern setup, on page 1](#)
- [Partition setup](#)

