



## Configuring Networks

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## Viewing a List of Networks

A SIP network is a logical collection of local interfaces that can be treated the same for general routing purposes.

### Procedure

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Choose **Configure > Networks**.

The system displays the Networks page, listing all of the current networks.

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## Adding a Network



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**Restriction** After a SIP network is created, you cannot remove it.

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### Procedure

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**Step 1** Choose **Configure > Networks**.  
The system displays the Networks page.

**Step 2** Click **Add**.

The system displays the Network page.

**Step 3** Enter the information for the network as shown in the section [Network Information, on page 2](#).

**Step 4** Click **Add**.

The system displays the Networks page with all the networks listed, including the network that you just added.

**Step 5** To add a SIP Listen Point, do the following:

a) Under the SIP Listen Points heading, click **click here** on the line for your network.

b) Click **Add**.

c) Enter the following required values:

- IP address for the SIP Listen Point
- Port for the SIP Listen Point
- Transport type (UDP, TCP, or TLS) for the SIP Listen Point

d) Click **Add**.

**Step 6** In the Cisco Unified SIP Proxy header, click **Commit Candidate Configuration** to commit this change.

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#### Related Topics

[Network Information, on page 2](#)

## Network Information

Network Information

Parameter	Description
Name	<p>Contains a name for this network. Network names can contain alphanumeric characters, period, dash, and underscore.</p> <p><b>Tip</b> You cannot rename networks, so choose the network name carefully.</p>

Parameter	Description
Type	<p>Can be one of the following:</p> <ul style="list-style-type: none"> <li>• standard—Configures the network interface to use standard SIP. The network has full UDP support. The network interface supports ICMP and different sockets can be used for each endpoint.</li> <li>• icmp—Configures the network interface to use Internet Control Message Protocol (ICMP).</li> <li>• noicmp—Specifies that the network interface does not use a separate socket for each endpoint. With this configuration, no ICMP errors are supported.</li> <li>• nat—Configures the network interface to use Network Address Translation (NAT).</li> </ul>
Allow Outbound Connections	<p>Determines if you will allow this network to enable or disable outbound TCP/TLS client connections.</p> <p>Can be either enable or disable. Default value is enable.</p>
SIP Header Hiding: Hide VIA	<p>Check this check box to have the system strip the VIA header, so that downstream elements will not know the message path.</p>
UDP Settings: Maximum Packet Size	<p>Configures the maximum size of a UDP datagram for this network. The value must be between 1500 and 16,000.</p>
TCP Settings: TCP Connection Setup Timeout (ms)	<p>Configures the time (ms) up to which the TCP connection request waits before dropping the TCP connection request.</p>
TLS Certificate verification Setting	
Verify Client Certificate	<p>Enables client authentication verification for TLS connections.</p>
Verify Server Certificate	<p>Enables server authentication verification for TLS connections.</p>

## Editing the General Settings for a Network

### Before you begin

You cannot edit the name of a network.

### Procedure

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- Step 1** Choose **Configure > Networks**.  
The system displays the Networks page.
- Step 2** Click the underlined name of the network.  
The system displays the Network '<name of the network>' page, with the information for the network. There are four tabs at the top of the page: General Settings, SIP Retransmissions, SIP Listen Points, and SIP Record-Route.
- Step 3** Click the **General Settings** tab.
- Step 4** Update the values.
- Step 5** Click **Update**.
- Step 6** In the Cisco Unified SIP Proxy header, click **Commit Candidate Configuration** to commit this change.
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## Editing the SIP Retransmission Settings for a Network

### Procedure

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- Step 1** Choose **Configure > Networks**.  
The system displays the Networks page.
- Step 2** Click the underlined name of the network.  
The system displays the Network '<name of the network>' page, with the information for the network.
- Step 3** Click the **SIP Retransmissions** tab. For more information, see [SIP Retransmissions, on page 4](#).  
The system automatically populates many of the SIP retransmissions and timer fields.
- Step 4** Update the values.
- Step 5** Click **Update**.
- Step 6** In the Cisco Unified SIP Proxy header, click **Commit Candidate Configuration** to commit this change.
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### Related Topics

[SIP Retransmissions](#), on page 4

## SIP Retransmissions

*Table 1: SIP Retransmissions*

Field	Description
T1	Sets the initial request retransmission interval.

Field	Description
T2	Sets the maximum request retransmission value.
T4	Sets the amount of time a NONINVITE client transaction or INVITE server transaction remains active after completion to handle request or response retransmissions.
TU1	Sets the amount of time an INVITE transaction remains active after completion with a 2xx response to handle response retransmissions.
TU2	Sets the amount of time the server waits for a provisional or final response for an INVITE client transaction or NONINVITE server transaction after which the transaction is considered timed out.
clientTn	Sets the maximum lifetime of a client transaction.
serverTn	Sets the maximum lifetime of a server transaction.
Provisional (TU3)	(Optional) Configures SIP networks with TU3 transmission type only.
INVITE Client Transaction	Specifies the retransmit count for the INVITE request.
INVITE Server Transaction	Specifies the retransmit counts for final responses of INVITE requests.
Client Transaction	Specifies the retransmit count for requests other than INVITE.

## Viewing and Deleting SIP Listen Points

A SIP listen point, or listener, listens for SIP traffic on a specific SIP network, host, and port. You can configure multiple SIP listen points for a single network; however, you must create at least one before the server can accept SIP traffic.

- You do not have to disable listeners on the network when you make configuration changes to the network.
- You cannot run TCP and TLS listeners on the same port.

### Procedure

**Step 1** Choose **Configure > Networks**.

The system displays the Networks page, listing all of the current networks.

**Step 2** To see the SIP listen points associated with a network, under the SIP Listen Points header, click **click here**.

The system displays the Network '<name of the network>' page with the SIP Listen Points tab highlighted.

**Note** To see a different number of SIP listen points on each page, on the top right, choose another number from the drop-down box and click **Go**. You can choose to see 10, 25, 50, 100, or all SIP listen points. To move to another page, use the left and right arrow buttons on the bottom right, or enter another page number and press **Enter**.

- Step 3** To delete a SIP listen point, do the following:
- Check the check box next to the name of the SIP listen point.
  - Click **Remove**.
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## Adding a SIP Listen Point

### Procedure

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- Step 1** Choose **Configure > Networks**.
- The system displays the Networks page, listing all of the current networks.
- Step 2** To see the SIP listen points associated with a network, under the SIP Listen Points header, click **click here**.
- The system displays the Network '<name of the network>' page with the SIP Listen Points tab highlighted.
- Step 3** To add a SIP listen point, do the following:
- Click **Add**.
  - Enter the IP address, port, and transport type for the SIP listen point.
  - Click **Add**.
- Step 4** In the Cisco Unified SIP Proxy header, click **Commit Candidate Configuration** to commit this change.
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## Editing the SIP Record-Route for a Network

### Before you begin

If your system is enabled for Lite Mode, then the system deletes the record route configurations and you cannot access the SIP Record-Route tab. To enable or disable Lite Mode, see [Configuring Performance Control](#).

### Procedure

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- Step 1** Choose **Configure > Networks**.
- The system displays the Networks page.
- Step 2** Click the underlined name of the network.

The system displays the Network ‘<name of the network>’ page with the information for the network.

**Step 3** Click the **SIP Record-Route** tab.

**Step 4** Choose either enable or disable.

**Step 5** If you chose enable, enter the following information:

- Host for the SIP Record-Route
- Port for the SIP Record-Route
- Transport type (udp, tcp, or tls) for the SIP Record-Route

**Step 6** Click **Update**.

**Step 7** In the Cisco Unified SIP Proxy header, click **Commit Candidate Configuration** to commit this change.

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### Related Topics

[Managing the System Configuration](#)

