



## VPN Gateway Setup

This chapter provides information about VPN gateway setup. To configure a VPN gateway, you must first upload the VPN concentrator certificates and then configure the VPN gateway.



**Note** The VPN menu and its options are not available in the U.S. export unrestricted version of Cisco Unified Communications Manager.

- [Upload VPN Concentrator Certificates, on page 1](#)
- [VPN Gateway Setup, on page 2](#)

## Upload VPN Concentrator Certificates

Generate a certificate on the ASA when you set it up to support the VPN feature. Download the generated certificate to your PC or workstation and then upload it to Unified Communications Manager using the procedure in this section. Unified Communications Manager saves the certificate in the Phone-VPN-trust list.

The ASA sends this certificate during the SSL handshake, and the Cisco Unified IP Phone compares it against the values stored in the Phone-VPN-trust list.

The Cisco Unified IP Phone sends its Manufacturer Installed Certificate (MIC) by default. If you configure the CAPF service, the Cisco Unified IP Phone sends its Locally Significant Certificate (LSC).

To use device level certificate authentication, install the root MIC or CAPF certificate in the ASA, so that the Cisco Unified IP Phones are trusted.

To upload certificates to Unified Communications Manager, use the Cisco Unified OS Administration..

### Procedure

- Step 1** From Cisco Unified OS Administration, choose **Security > Certificate Management**.  
The **Certificate List** window appears.
- Step 2** Click **Upload Certificate**.  
The **Upload Certificate** dialog box appears.

**Step 3** From the **Certificate Purpose** drop-down list, choose **Phone-VPN-trust**.

**Step 4** Click **Browse** to choose the file that you want to upload.

**Step 5** Click **Upload File**.

**Step 6** Choose another file to upload or click **Close**.

For more information about certificate management, see Chapter 6, “Security,” in the *Cisco Unified Communications Operating System Administration Guide*.

---

#### What to do next

[Configure VPN Gateway, on page 3](#)

## VPN Gateway Setup

### Find VPN Gateway

#### Procedure

---

**Step 1** In Cisco Unified CM Administration, choose **Advanced Features > VPN > VPN Gateway**.

The **Find and List VPN Gateways** window appears. Records from an active (prior) query may also display in the window.

**Step 2** To find all records in the database, do not enter any search criteria.

To filter or search records:

- a) From the first drop-down list, choose a search parameter.
- b) From the second drop-down list, choose a search pattern.
- c) Specify the appropriate search text, if applicable.

**Note** To add search criteria, click +. When you add criteria, the system searches for a record that matches all criteria that you specify. To remove criteria, click – to remove the last added criterion or click **Clear Filter** to remove all added search criteria.

**Step 3** Click **Find**.

All matching records appear. You can change the number of items that appear on each page by choosing a different value from the **Rows per Page** drop-down list.

**Step 4** From the list of records that appears, click the link for the record that you want to view.

**Note** To reverse the sort order, click the up or down arrow, if available, in the list header.

The window displays the item that you choose.

---

## Configure VPN Gateway

To add, update, or copy a VPN gateway, perform the following procedure:

### Before you begin

Ensure that you have configured VPN concentrators for each VPN gateway. After configuring the VPN concentrators, upload the VPN concentrator certificates. For more information, see [Upload VPN Concentrator Certificates, on page 1](#).

### Procedure

- 
- Step 1** In Cisco Unified CM Administration, choose **Advanced Features > VPN > VPN Gateway**.
- Step 2** Perform one of the following tasks:
- To add a new profile, click **Add New**.
  - To copy an existing VPN gateway, locate the appropriate profile, click the **Copy** button next to the VPN gateway that you want to copy.
  - To update an existing profile, locate the appropriate VPN gateway and modify the settings.  
When you click **Add New**, the configuration window appears with the default settings for each field.  
When you click **Copy**, the configuration window appears with the copied settings.
- Step 3** Configure the fields in the **VPN Gateway Configuration** window. See the Related Topics section for more information about the fields and their configuration options.
- Step 4** Click **Save**.
- 

### What to do next

[Configure VPN Group](#)

### Related Topics

[Find VPN Gateway, on page 2](#)

[VPN Gateway Fields for VPN Client, on page 3](#)

## VPN Gateway Fields for VPN Client

Field	Description
VPN Gateway Name	Enter the name of the VPN gateway.
VPN Gateway Description	Enter a description of the VPN gateway.

Field	Description
VPN Gateway URL	<p>Enter the URL for the main VPN concentrator in the gateway.</p> <p><b>Note</b> You must configure the VPN concentrator with a group URL and use this URL as the gateway URL.</p> <p>For configuration information, refer to the documentation for the VPN concentrator, such as the following:</p> <ul style="list-style-type: none"><li>• <i>SSL VPN Client (SVC) on ASA with ASDM Configuration Example</i></li></ul>
VPN Certificates in this Gateway	<p>Use the up and down arrow keys to assign certificates to the gateway. If you do not assign a certificate for the gateway, the VPN client will fail to connect to that concentrator.</p> <p><b>Note</b> You can assign up to 10 certificates to a VPN gateway, and you must assign at least one certificate to each gateway. Only certificates that are associated with the Phone-VPN-trust role appear in the available VPN certificates list.</p>