DHCP Subnet Configuration

This chapter describes the procedures for adding subnets to DHCP servers.

Use the following procedures to find and add subnets to DHCP servers.

Finding a DHCP Subnet

Use the following procedure to locate DHCP subnets.

Note During your work in a browser session, the cookies on the client machine store your find/list search preferences. If you navigate to other menu items and return to this menu item, or if you close the browser and then reopen a new browser window, the system retains your Cisco Unified CallManager search preferences retained until you modify your search.

Procedure

Step 1 Choose **System > DHCP > DHCP Subnet**.

The Find and List DHCP Subnets window displays. Use the two drop-down list boxes to search for a server.

Step 2 From the first Find DHCP Subnets where window drop-down list box, choose one of the following criteria:

- DHCP Server
- Subnet IP Address
- Primary Start IP Address
- Primary End IP Address
- Secondary Start IP Address
- Secondary End IP Address

From the second Find DHCP Subnet where 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**.

Tip To find all DHCP subnets that are registered in the database, click **Find** without entering any search text.

A list of discovered subnets displays by

- DHCP Server
- Subnet IP Address
- Primary Start IP Address
- Primary End IP Address
- Secondary Start IP Address
- Secondary End IP Address

Step 4 From the list of records, click the DHCP subnet name that matches your search criteria.

The window displays the subnet that you choose.

Additional Information

See the "Related Topics" section on page 11-5.

Configuring a DHCP Subnet

This section describes how to add, update, or copy a DHCP subnet address to the Cisco Unified CallManager database.

Procedure

Step 1 Choose **System > DHCP > DHCP Subnet**

Step 2 Perform one of the following tasks:

- To add a DHCP subnet, click **Add New**.
- To update a subnet, find the subnet by using the procedure in the "Finding a DHCP Subnet" section on page 11-1.

- To copy a subnet, find the subnet by using the procedure in the "Finding a DHCP Subnet" section on page 11-1; select the DHCP server that you want by checking the check box next to the server name and click **Copy**.

The DHCP Subnet Configuration window displays.

Step 3 Enter the appropriate settings as described in Table 11-1.

Step 4 Click the **Save** icon that displays in the tool bar in the upper, left corner of the window (or click the **Save** button that displays at the bottom of the window) to save the data and to add the subnet to the database.

Changes to the server configuration do not take effect until you restart Cisco Unified CallManager. For information about restarting the Cisco CallManager service, refer to the *Cisco Unified CallManager Serviceability Administration Guide*.

Additional Information

See the "Related Topics" section on page 11-5.

DHCP Subnet Configuration Settings

Table 11-1 describes the server configuration settings. For related procedures, see the "Related Topics" section on page 11-5.

Table 11-1 DHCP Subnet Configuration Settings

Server Information Field	Description
DHCP Server	Choose the DHCP server name from the drop-down list box.
Subnet IP Address	Enter the Subnet IP address.
Primary Start IP Address	Enter the start IP address of the first range of IP addresses to be assigned.
Primary End IP Address	Enter the end IP address of the first range of IP addresses to be assigned.
Secondary Start IP Address	Enter the start IP address of the second range of IP addresses to be assigned.
Secondary End IP Address	Enter the end IP address of the second range of IP addresses to be assigned.
Primary Router IP Address	Enter the IP address of the primary router on your subnet.
Secondary Router IP Address	Enter the IP address of the secondary router on your subnet.
Subnet Mask	Enter the subnet mask.
Domain Name	This field specifies the name that you should use when resolving hostname via the Domain Name System.
Primary DNS IP Address	This field specifies primary DNS IP server name.
Secondary DNS IP Address	This field specifies secondary DNS IP server name.
TFTP Server Name (Option 66)	Use this field to identify a TFTP server. You can configure only one DNS name or a dotted decimal IP address in this parameter.

Table 11-1 DHCP Subnet Configuration Settings (continued)

Server Information Field	Description
Primary TFTP Server IP Address (Option 150)	This field specifies the IP addresses for primary Trivial File Transfer Protocol (TFTP) server.
Secondary TFTP Server IP Address (Option 150)	This field specifies the IP addresses for secondary TFTP server.
Bootstrap Server IP Address	This field specifies the address of the server that is used in the next step of the bootstrap process. You can use this as the IP address of the TFTP server or as the default value to DHCP server address if the server is to supply the next bootstrap service.
ARP Cache Timeout (sec)	This field specifies the timeout in seconds for ARP cache entries. Specify the time as a 32-bit unsigned integer.
IP Address Lease Time (sec)	The DHCP server uses the information in this field to specify the lease time that it is willing to offer. Specify the time in units of seconds and as a 32-bit unsigned integer.
Renewal (T1) Time (sec)	This field specifies the time interval from address assignment until the client transitions to the RENEWING state.
Rebinding (T2)Time (sec)	This field specifies the time interval from address assignment until the client transitions to the REBINDING state. Specify the value in units of seconds and as a 32-bit unsigned integer.

Deleting a DHCP Subnet

This section describes how to delete a DHCP server from the Cisco Unified CallManager database.

Procedure

Step 1 Find the DHCP subnet by using the procedure in the "Finding a DHCP Subnet" section on page 11-1.

Step 2 From list of matching records, choose the DHCP subnet that you want to delete.

Step 3 Click the **Delete Selected Item** icon that displays in the tool bar in the upper, left corner of the window (or click the **Delete Selected** button that displays at the bottom of the window) to delete the subnet.

If the subnet is not in use, Cisco Unified CallManager deletes it. If it is in use, a message displays.

Note You can delete multiple DHCP servers from the Find and List Servers window by checking the check boxes next to the appropriate servers and clicking **Delete Selected**. You can delete all servers in the window by clicking **Select All** and then clicking **Delete Selected**.

Additional Information

See the "Related Topics" section on page 11-5.

Related Topics

- Finding a DHCP Subnet, page 11-1
- Configuring a DHCP Subnet, page 11-2
- Deleting a DHCP Subnet, page 11-4
- DHCP Subnet Configuration Settings, page 11-3
- DHCP Server Configuration, page 10-1
- Dynamic Host Configuration Protocol, *Cisco Unified CallManager System Guide*