Configuring Network Settings on the Cisco IP Phone

Because the Cisco IP Phone is a network device, it includes many configurable network settings, which you might need to modify before the phone is accessible and functional for your users.

The following sections provide details about configuring and verifying these network settings:

Configuring Methods

On the Cisco IP Phone 7902G, you can configure network settings using the phone's web page or using its Interactive Voice Response (IVR) system. On the Cisco IP Phone models 7905G/7912G, you can configure network settings through the phone's web page or using the Network Configuration screen on the phone.

This chapter describes various methods you can use to configure most network settings for the Cisco IP Phone. For more information about web page configuration, and for information about IVR system configuration, see Appendix A, "Additional Configuration Methods, Parameters, and Procedures."

Related Topics

- Accessing Network Configuration Settings from a Cisco IP Phone, page 4-2
- Accessing Network Configuration Settings through a Phone's Web Page, page 4-3

Accessing Network Configuration Settings from a Cisco IP Phone

On the Cisco IP Phone models 7905G/7912G, network configuration options in the Network Configuration Screen are locked by default to prevent users from making changes that could affect network connectivity for a phone.

When settings are inaccessible for modification, a *locked* padlock icon appears on the Network Configuration screen. An *unlocked* padlock icon appears on this screen when settings are unlocked and accessible for modification.

You must unlock the network configuration options from the Network Configuration screen before you can configure them. If a password has been specified for the phone, you must enter the password when unlocking network configuration options. (For more information about passwords, see Appendix A, "Additional Configuration Methods, Parameters, and Procedures.")

Network configuration options are locked again automatically when you exit the Network Configuration Screen.

The unlocked padlock icon, shown below, appears in the margins of this chapter to indicate procedures that require you to unlock settings before modifying them.

Note On the Cisco IP Phone 7902G, network settings are not locked on the phone itself because these settings are accessed through the Phone Configuration web page or the Interactive Voice Response (IVR) system. See the specific instructions for the Cisco IP Phone 7902G in the sections that follow for more information.

To unlock network settings on the Cisco IP Phone models 7905G/7912G, follow these steps.

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 Use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

Step 5 If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Step 6 Look at the upper-right portion of your LCD.

- Locked—The icon appears as a locked padlock.
- Unlocked—The icon appears as an unlocked padlock.

Accessing Network Configuration Settings through a Phone's Web Page

The following sections include instructions for setting configuration options using a phone's web page. To set configuration options in this way, you must first use the UIPassword parameter in the phone's profile file to set up a password. If you do not set up a password, you will not be able to change network settings, and **Apply** will not be available.

For more information about the UIPassword parameter, see Table A-4 on page A-21.

Verifying Network Settings

On Cisco IP Phone models 7905G/7912G, you can view detailed information about the current network settings of the phone. Use this information to troubleshoot or to make modifications.

For the Cisco IP Phone 7902G, you can obtain detailed information about current network settings from the Phone Configuration web page or through the IVR system.

To display current network settings for the Cisco IP Phone, follow these steps:

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone

   http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left:

a. Select **Network Configuration** to review network configuration information.

b. Select **Network Statistics** to view network statistics.

On the Cisco IP Phone 7902G, you can also review phone settings using the IVR system. See the "Using the Interactive Voice Response (IVR) System on the Cisco IP Phone 7902G" section on page A-22.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the Navigation button to select **Settings**, and then press the **Select** softkey.

Step 3 Use the Navigation button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 Scroll through the options to display the settings described in Table 4-1.

Table 4-1 Network Settings

Network Setting	Description	Usage Notes
DHCP Server	Displays IP address of the Dynamic Host Configuration Protocol (DHCP) server that the phone uses to obtain IP address.	See the "Modifying DHCP Settings" section on page 4-9.
BootP Server	Indicates whether the phone obtains its configuration from a Bootstrap Protocol (BootP) server rather than a DHCP server.	Always displays **No**. Cannot be configured.
MAC Address	Identifies the unique Media Access Control (MAC) address of the phone.	Cannot configure.
Host Name	Identifies the unique host name assigned to the phone.	Obtained from the DHCP server.
Domain Name	Identifies the name of the Domain Name System (DNS) domain in which the phone resides.	See the "Assigning a Domain Name" section on page 4-20.
IP Address	Indicates the Internet Protocol (IP) address of the phone.	See the "Assigning an IP Address" section on page 4-15.
Subnet Mask	Indicates the subnet mask used by the phone.	See the "Assigning a Subnet Mask" section on page 4-19.

Table 4-1 Network Settings (continued)

Network Setting	Description	Usage Notes
TFTP Server 1-2	TFTP Server 1 indicates the primary Trivial File Transfer Protocol (TFTP) server used by the phone to obtain configuration files. TFTP Server 2 displays the IP address of the backup TFTP server, which is used to obtain configuration files and software upgrades if the primary TFTP server is unavailable.	See the "Assigning a TFTP Sever" section on page 4-28.
Default Router 1	Identifies the default gateway used by the phone.	See the "Assigning a Default Router" section on page 4-17.
DNS Servers 1-2	Indicates the Domain Name System (DNS) server used by the phone to resolve the host name of the TFTP server, Cisco CallManager system and web server host names.	See the "Assigning DNS Servers" section on page 4-22.
Operational VLAN Id	Indicates the auxiliary Virtual Local Area Network (VLAN) configured on a Cisco Catalyst switch in which the phone is a member. If the phone has not received an auxiliary VLAN, then the operational VLAN reflects the Administrative VLAN. If neither the auxiliary VLAN nor the Administrative VLAN are configured, then the Operational VLAN field is blank.	Obtained via Cisco Discovery Protocol (CDP) from the switch to which the phone is attached.
Admin. VLAN Id	Indicates the auxiliary VLAN in which the phone is a member. Used only if the phone does not receive an auxiliary VLAN from the switch. The Administrative VLAN is ignored if an auxiliary VLAN is obtained from the switch.	See the "Configuring VLAN Settings" section on page 4-25.

Table 4-1 Network Settings (continued)

Network Setting	Description	Usage Notes
VLAN Enabled	Indicates whether VLAN is enabled for the phone.	Displays **Yes** or **No**. See the "Disabling VLAN" section on page 4-26
CDP Enabled	Indicates whether Cisco Discovery Protocol (CDP) is enabled for the phone. CDP allows the phone to be discovered by the CiscoWorks2000 network management system.	Displays **Yes** or **No**. For more information about CiscoWorks2000, refer to the documentation available at this URL: http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/cw2000/index.htm See the "Configuring CDP" section on page 4-32

Table 4-1 Network Settings (continued)

Network Setting	Description	Usage Notes
CallManager 1-4	Displays a prioritized list of the Cisco CallManager systems that are available for processing calls from this phone. Possible states include: • Active—the Cisco CallManager server from which the phone is currently receiving call-processing services. • Standby—the Cisco CallManager server to which the phone switches if the current server goes down. • Blank—no TCP connection to this Cisco CallManager server. This field might also include the Survivable Remote Site Telephony (SRST) designation, which indicates an SRST router capable of providing Cisco CallManager functionality with a limited feature set. If all other Cisco CallManager servers are unreachable, this router assumes control of call processing. You configure the SRST router address using the Device Pool section in Cisco CallManager. The SRST Cisco CallManager always appears last in the list of servers, even if it is currently active.	Cannot configure locally. Use Cisco CallManager to modify.
DHCP Enabled	Indicates whether DHCP is being used by the phone.	See the "Modifying DHCP Settings" section on page 4-9.
DHCP Address Released	Allows the IP-address assigned by DHCP to be released.	See the "Releasing a DHCP Address" section on page 4-13.

Table 4-1 Network Settings (continued)

Network Setting	Description	Usage Notes
Alternate TFTP	Indicates whether the phone is using an alternative TFTP server.	See the "Enabling an Alternate TFTP Server" section on page 4-30.
Alternate DNS	Indicates whether the phone is using an alternative DNS.	See the "Assigning DNS Servers" section on page 4-22.
Alternate Domain	Indicates whether the phone is using an alternative domain name.	See the "Assigning a Domain Name" section on page 4-20
Erase Configuration	On the Cisco IP Phone models 7905G/7912G, sets all configuration values except ringer sound to their factory defaults.	See the "Erasing the Local Configuration" section on page 6-8.

Related Topics

- Verifying Network Settings, page 4-4
- Modifying DHCP Settings, page 4-9
- Configuring IP Settings, page 4-15
- Modifying VLAN Settings, page 4-24
- Configuring TFTP Options, page 4-28

Modifying DHCP Settings

Dynamic Host Configuration Protocol (DHCP) automatically assigns IP addresses to devices when you connect them to the network. This section provides information about enabling DHCP and releasing a DHCP-assigned IP address in the following topics:

- Enabling DHCP, page 4-10
- Disabling DHCP, page 4-11
- Releasing a DHCP Address, page 4-13

Enabling DHCP

Cisco IP Phones enable DHCP by default, but you can reset the protocol if it becomes disabled.

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone

http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 To enable DHCP, enter 1 in the DHCP field and click **Apply**.

On the Cisco IP Phone 7902G, you can also review phone settings using the IVR system. See the "Using the Interactive Voice Response (IVR) System on the Cisco IP Phone 7902G" section on page A-22.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select Network Configuration, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **DHCP Enabled**.

If DHCP is disabled, the option appears as

```
DHCP Enabled NO
```

Step 6 Press the **Yes** softkey to enable DHCP.

Step 7 Press **Save**.

Related Topics

- Disabling DHCP, page 4-11
- Releasing a DHCP Address, page 4-13
- Configuring IP Settings, page 4-15

Disabling DHCP

If you do not use DHCP in your network, use this procedure to disable DHCP before manually assigning IP addresses to Cisco IP phones.

Note Procedures involved in configuring IP settings or TFTP options cannot be completed when DHCP is enabled in your network.

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone:

http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 To disable DHCP, enter 0 in the DHCP field and click **Apply**.

On the Cisco IP Phone 7902G, you can also review phone settings using the IVR system. See the "Using the Interactive Voice Response (IVR) System on the Cisco IP Phone 7902G" section on page A-22.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password", enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **DHCP Enabled**.

If DHCP is enabled, the option appears as

```
DHCP Enabled YES
```

Step 6 Press the **No** softkey to disable DHCP.

Step 7 Press **Save**.

Related Topics

- Enabling DHCP, page 4-10
- Releasing a DHCP Address, page 4-13
- Configuring IP Settings, page 4-15

Releasing a DHCP Address

When moving the phone to a new network segment, you should first release the DHCP address. You cannot perform this procedure from the Phone Configuration web page. Instead, you must use the IVR system (for the Cisco IP Phone 7902G) or the phone's Network Configuration Screen (for the Cisco IP Phone models 7902G/7912G).

Using the IVR System (Cisco IP Phone 7902G)

Step 1 Lift the handset, then press and hold the **Menu** button for about 3 seconds.

Step 2 Press **4444** to release the DHCP address.

Step 3 Hang up the phone. The phone resets.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **DHCP Address Released**.

If the DHCP address is currently assigned, the option appears as

```
DHCP Address Released NO
```

Step 6 Press the **Yes** softkey to release the DHCP-assigned IP address.

Step 7 Press **Save**.

The phone remains in an idle state, without an IP address assigned, until you do one of the following actions:

- Manually assign an IP address.
- Set DHCP Address Released back to **No**.
- Power cycle the phone, which enables all default settings, including enabling DHCP.

Related Topics

- Enabling DHCP, page 4-10
- Disabling DHCP, page 4-11
- Configuring IP Settings, page 4-15

Configuring IP Settings

Use these guidelines when manually configuring the IP settings:

- You can use 0.0.0.0 for the subnet mask only if the default gateway is also 0.0.0.0.
- Ensure the TFTP server has an IP address.
- Ensure the default gateway IP address is on the same subnet as the host IP address.

Note Procedures involved in configuring IP settings or TFTP options cannot be completed when DHCP is enabled in your network.

This section covers the following topics:

Assigning an IP Address

The IP address is the unique logical address identifying each host computer, or node, on a TCP/IP network. An IP address is a 32-bit number expressed as four decimal numbers from 0 to 255 separated by periods.

Before you can assign an IP address, you must disable DHCP. For instructions, see the "Disabling DHCP" section on page 4-11.

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone:

http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 To set the IP address, enter an address in the StaticIP field and click **Apply**.

On the Cisco IP Phone 7902G, you can also review phone settings using the IVR system. See the "Using the Interactive Voice Response (IVR) System on the Cisco IP Phone 7902G" section on page A-22.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select Network Configuration, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **IP Address**.

Step 6 Press the **Edit** softkey.

Step 7 Use the buttons on the keypad to enter the new IP address, using the * key on the keypad to enter periods.

Use the **<<** softkey to correct any mistakes.

Step 8 Press **Validat**.

Step 9 Press **Save**.

Assigning a Default Router

If you manually assign an IP address to the Cisco IP Phone, you must indicate the default router to be used. The default router provides connectivity to the IP network beyond the subnet to which the phone belongs.

Before you can assign a default router, you must disable DHCP. For instructions, see the "Disabling DHCP" section on page 4-11.

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone

http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 To set the route address, enter an address in the StaticRoute field and click **Apply**.

On the Cisco IP Phone 7902G, you can also review phone settings using the IVR system. See the "Using the Interactive Voice Response (IVR) System on the Cisco IP Phone 7902G" section on page A-22.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select Network Configuration, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **Default Router**.

Step 6 Press the **Edit** softkey.

Step 7 Use the buttons on the keypad to enter the new IP address, using the * key on the keypad to enter periods.

Use the **<<** softkey to correct any mistakes.

Step 8 Press **Validat**.

Step 9 Press **Save**.

Assigning a Subnet Mask

The subnet mask is used to partition the IP address into a network and a host identifier. The subnet mask is used to mask a portion of the IP address so that TCP/IP can distinguish the network ID from the host ID.

Before you can assign a subnet mask, you must disable DHCP. For instructions, see the "Disabling DHCP" section on page 4-11.

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone

   http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 To set the subnet mask, enter an address in the StaticNetMask field and click **Apply**.

On the Cisco IP Phone 7902G, you can also review phone settings using the IVR system. See the "Using the Interactive Voice Response (IVR) System on the Cisco IP Phone 7902G" section on page A-22.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **Subnet Mask**.

Step 6 Press the **Edit** softkey.

Step 7 Use the buttons on the keypad to enter the new IP address, using the * key on the keypad to enter periods.

Use the **<<** softkey to correct any mistakes.

Step 8 Press **Validat**.

Step 9 Press **Save**.

Assigning a Domain Name

The domain name is the name of the Domain Name System (DNS) domain in which the phone is located. DNS is a hierarchical name for TCP/IP host computers that provides standard naming conventions.

Before assigning a domain name, verify that you have a DNS in your network.

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone

http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 To set the domain name, enter a domain name in the Domain field and click **Apply**.

On the Cisco IP Phone 7902G, you can also review phone settings using the IVR system. See the "Using the Interactive Voice Response (IVR) System on the Cisco IP Phone 7902G" section on page A-22.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **Alternate Domain**.

Step 6 If the option appears as

```
Alternate Domain NO
```

Press the **Yes** softkey.

Step 7 Scroll to **Domain Name**.

Step 8 Press the **Edit** softkey.

Step 9 Use the buttons on the keypad to enter the new domain name, using the * key on the keypad to enter periods.

To enter letters, use the numbers associated with a particular letter. For example, the **2** key has the letters ABC. For a lower case "a," press **2** once. Press the **2** key repeatedly to scroll through the available letters and numbers. Pause after the selected letter appears on the screen.

Use the **<<** softkey to correct any mistakes.

Step 10 Press **Validat**.

Step 11 Press **Save**.

Assigning DNS Servers

The DNS setting on the Cisco IP Phone allows users to specify remote computers by host names, which are character strings with some mnemonic value, rather than by using IP addresses, which are simply strings of numbers.

The phones use DNS to resolve the host name of TFTP servers, Cisco CallManager systems, and web server host names when the system is configured to use names rather than IP addresses.

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone

http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 To set the DNS servers:

a. To set DNS Server1, in the DNSServer1 field enter an address and click **Apply**.

b. To set DNS Server2, in the DNSServer2 field enter an address and click **Apply**.

On the Cisco IP Phone 7902G, you can also review phone settings using the IVR system. See the "Using the Interactive Voice Response (IVR) System on the Cisco IP Phone 7902G" section on page A-22.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **Alternate DNS**.

Step 6 If the option appears as

```
Alternate DNS NO
```

Press the **Yes** softkey.

Step 7 Scroll to **DNS Server 1**.

Step 8 Press the **Edit** softkey.

Step 9 Use the buttons on the keypad to enter the new domain name, using the * key on the keypad to enter periods.

Use the **<<** softkey to correct any mistakes.

Step 10 Scroll to **DNS Server 2** to add a backup DNS server.

Step 11 Press **Validat**.

Step 12 Press **Save**.

Modifying VLAN Settings

You can change the administrative VLAN used by the Cisco IP Phone and, on the Cisco IP Phone models 7905G/7912, you can disable or enable VLAN manually.

This section covers the following topics:

Configuring VLAN Settings

If you have an auxiliary VLAN assigned on the Cisco Catalyst switch, that setting overrides any changes made on the phone.

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone

http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 In the VLANSetting field, enter a VLAN ID into bits 18–29 and click **Apply**.

For more information about this field, see the VLANSetting parameter in Table A-1 on page A-12.

On the Cisco IP Phone 7902G, you can also review phone settings using the IVR system. See the "Using the Interactive Voice Response (IVR) System on the Cisco IP Phone 7902G" section on page A-22.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **Admin. VLAN Id**.

Step 6 Press the **Edit** softkey.

Step 7 Use the buttons on the keypad to enter the new Admin VLAN setting.

Use the **<<** softkey to correct any mistakes.

Step 8 Press **Validat**.

Step 9 Press **Save**.

Disabling VLAN

You can disable or enable VLAN manually.

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone

http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 To enable VLAN, in the OpFlags field, change bit 5 to 0 (zero).

To disable VLAN, in the OpFlags field, change bit 5 to 1.

For more information about this field, see OpFlags parameter in Table A-1 on page A-12.

Step 4 Click **Apply**.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **VLAN Enabled**.

If VLAN is enabled, the option appears as

```
VLAN Enabled YES
```

Step 6 Press the **No** softkey to disable VLAN.

Step 7 Press **Save**.

Configuring TFTP Options

If you do not use DHCP to direct the Cisco IP Phone to a TFTP server, you must manually assign one. You can also assign an alternative TFTP server to use instead of the one assigned by DHCP. On the Cisco IP Phone 7902G, you can manually enable or disable TFTP.

This section covers these topics:

Assigning a TFTP Sever

If you are not using DHCP in your network, and you want to change this setting, you must manually assign the TFTP server to the phone.

Before you can manually assign a TFTP server, you must enable an alternate TFTP server. For instructions, see the "Enabling an Alternate TFTP Server" section on page 4-30.

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone

   http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 To set the TFTP servers:

a. To set TFTP Server1, in the TFTPServer1 field enter an address and click **Apply**.

b. To set TFTP Server2, in the TFTPServer2 field enter an address and click **Apply**.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **TFTP Server 1**.

Step 6 Press the **Edit** softkey.

Step 7 Use the buttons on the keypad to enter a new TFTP server address, using the * key on the keypad to enter periods.

Use the **<<** softkey to correct any mistakes.

Step 8 Press **Validat**.

Step 9 Scroll to **TFTP Server 2** to add a backup TFTP server.

Step 10 Press **Save**.

Enabling an Alternate TFTP Server

If you are using DHCP, but you want to override the TFTP address that the phone received through DHCP, enable an alternate TFTP Server.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **Alternate TFTP**.

If the phone is not using an alternative TFTP server, the option appears as

```
Alternate TFTP NO
```

Step 6 Press the **Yes** softkey.

Step 7 Scroll to **TFTP Server 1**.

Step 8 Press the **Edit** softkey.

Step 9 Use the buttons on the keypad to enter the new Alternative TFTP Server address, using the * key on the keypad to enter periods.

Step 10 Press **Validat**.

Step 11 Scroll to **TFTP Server 2** to add a backup TFTP server.

Step 12 Press **Save**.

Assigning a Backup TFTP Server

TFTP Server 2 displays the IP address of the backup TFTP server. This server is used to obtain configuration files and software upgrades if the primary TFTP server is unavailable.

Before you can assign a backup TFTP server, the **Alternate TFTP** setting must be set to **Yes**.

This procedure does not apply to the Cisco IP Phone 7902G.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **TFTP Server 2**.

Step 6 Press the **Edit** softkey.

Step 7 Use the buttons on the keypad to enter the new Alternative TFTP Server address, using the ***** key on the keypad to enter periods.

Use the **<<** softkey to correct any mistakes.

Step 8 Press the **Validat** softkey.

Step 9 Press **Save**.

Configuring CDP

You can disable or enable Cisco Discovery Protocol (CDP). CDP allows the phone to be discovered by the CiscoWorks2000 network management system.

For more information about CiscoWorks2000, refer to the documentation available at this URL:

http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/cw2000/index.htm

Using the Phone Configuration Web Page (Cisco IP Phone Models 7902G/7905G/7912G)

Procedure

Step 1 Open the Phone Configuration web page.

a. Open your web browser and enter the following URL, where *IPaddress* is the IP address of your phone

   http://*IPaddress*

b. Press **Enter**.

The Phone Configuration web page appears.

Step 2 In the pane on the left under Change Configuration, click **Network Parameters**.

You may be prompted to enter a password.

The Network Parameters web page appears.

Step 3 In the OpFlags field,

a. To enable CDP, change bit 6 to a zero (0).

b. To disable CDP, change bit 6 to a 1.

Using the Phone's Network Configuration Screen (Cisco IP Phone Models 7905G/7912G)

Procedure

Step 1 Press the **Menu** button.

Step 2 Use the **Navigation** button to select **Settings**, and then press the **Select** softkey.

Step 3 From the Settings menu, use the **Navigation** button to select **Network Configuration**, and then press the **Select** softkey.

Step 4 From the Network Configuration menu, press ****#**.

If your phone displays "Enter Admin Password," enter your password and then press the **Enter** softkey.

Make sure that an unlocked padlock icon appears in the upper-right corner of your LCD.

Step 5 Scroll to **CDP Enabled**.

If CDP is enabled, the option appears as

```
CDP Enabled Yes
```

Step 6 Press the **No** softkey to disable CDP.

Step 7 Press **Save**.