

Troubleshooting

This chapter describes how to fix some common issues that you may encounter when using the security appliance. It includes the following sections:

- [Internet Connection, page 453](#)
- [Date and Time, page 456](#)
- [Pinging to Test LAN Connectivity, page 457](#)

Internet Connection

Symptom: You cannot access the Configuration Utility from a PC on your LAN.

Recommended Actions:

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- STEP 1** Check the Ethernet connection between the PC and the security appliance.
 - STEP 2** Ensure that the IP address of your PC is on the same subnet as the security appliance. If you are using the recommended addressing scheme, your PC's address should be in the range 192.168.75.100 to 192.168.75.200.
 - STEP 3** Check the IP address of your PC. If the PC cannot reach a DHCP server, some versions of Windows and MacOS generate and assign an IP address. These auto-generated addresses are in the range of 169.254.x.x. If your IP address is in this range, check the connection from the PC to the security appliance and reboot your PC.
 - STEP 4** If your IP address has changed and you don't know what it is, reset the security appliance to the factory default settings.

If you do not want to reset to factory-default settings and lose your configuration, reboot the security appliance and use a packet sniffer (such as Ethereal™) to capture packets sent during the reboot. Look at the ARP packets to locate the LAN interface address.

- STEP 5** Launch your web browser and ensure that Java, JavaScript, or ActiveX is enabled. If you are using Internet Explorer, click **Refresh** to ensure that the Java applet is loaded. Close the browser and launch it again.
- STEP 6** Ensure that you are using the correct login information. The factory default login name is cisco and the password is cisco. Ensure that CAPS LOCK is off when entering this information.

Symptom: The security appliance does not save my configuration changes.

Recommended Actions:

- STEP 1** When entering configuration settings, click **OK** or **Save** before moving to another page or tab; otherwise your changes are lost.
- STEP 2** Click **Refresh** or **Reload** in the browser, which will clear a cached copy of the old configuration.

Symptom: The security appliance cannot access the Internet.

Possible Cause: If you use dynamic IP addresses, your security appliance is not requesting an IP address from the ISP.

Recommended Actions:

- STEP 1** Launch your browser and determine if you can connect to an external site such as www.cisco.com.
- STEP 2** Launch the Configuration Utility and login.
- STEP 3** Click **Status > Dashboard**.
- STEP 4** In the **WAN Interface(s)** area, find the WAN1 Address. If 0.0.0.0 is shown, your security appliance has not obtained an IP address from your ISP. See the next symptom.

Symptom: The security appliance cannot obtain an IP address from the ISP.

Recommended Actions:

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- STEP 1** Turn off power to the cable or DSL modem.
- STEP 2** Power off the security appliance.
- STEP 3** Then reapply power to the cable or DSL modem.
- STEP 4** When the modem lights indicate that it has resynchronized with the ISP, reapply power to the security appliance. If the security appliance still cannot obtain an ISP address, see the next symptom.
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Symptom: The security appliance still cannot obtain an IP address from the ISP.

Recommended Actions:

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- STEP 1** Click **Networking > WAN > WAN Settings**.
- STEP 2** Click the **Edit** (pencil) icon to configure the primary WAN port.
- The WAN - Add/Edit window opens.
- STEP 3** Ask your ISP the following questions:
- What type of network addressing mode is required for your Internet connection? In the **IPv4** tab, choose the correct ISP connection type in the **IP Address Assignment** drop-down list, and then enter the account information as specified by the ISP.
 - Is your ISP expecting you to login from a particular Ethernet MAC address? If yes, in the **IPv4** tab, choose **Use the following MAC address** from the **MAC Address Source** drop-down list, and then enter the required MAC address in the **MAC Address** field.
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Symptom: The security appliance can obtain an IP address, but PC is unable to load Internet pages.

Recommended Actions:

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- STEP 1** Ask your ISP for the addresses of its designated DNS servers. Configure your PC to recognize those addresses. For details, see your operating system documentation.
 - STEP 2** On your PC, configure the security appliance to be its TCP/IP gateway.
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Date and Time

Symptom: Date shown is January 1, 2000.

Possible Cause: The security appliance has not yet successfully reached a Network Time Server (NTS).

Recommended Actions:

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- STEP 1** If you have just configured the security appliance, click **Device Management > Date and Time**.
 - STEP 2** Review the settings for the date and time.
 - STEP 3** Verify your Internet access settings.
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Symptom: The time is off by one hour.

Possible Cause: The security appliance does not automatically adjust for Daylight Savings Time.

Recommended Actions:

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- STEP 1** Click **Device Management > Date and Time**.
 - STEP 2** Enable the **Daylight Saving Time Adjustment** feature.
 - STEP 3** Click **Save** to apply your settings.
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Pinging to Test LAN Connectivity

The security appliance and most TCP/IP terminal devices contain a ping utility that sends an ICMP echo-request packet to the designated device. The device responds with an echo reply. Troubleshooting a TCP/IP network is made very easy by using the ping utility in your PC or workstation.

This section includes the following topics:

- [Testing the LAN Path from Your PC to Your Security Appliance, page 457](#)
- [Testing the LAN Path from Your PC to a Remote Device, page 458](#)

Testing the LAN Path from Your PC to Your Security Appliance

- STEP 1** On your PC, click the Windows **Start** button, and then click **Run**.
- STEP 2** Type ping <IP_address> where <IP_address> is the IP address of the security appliance. Example: ping 192.168.75.1.
- STEP 3** Click **OK**.
- STEP 4** Observe the display:
- If the path is working, you see this message sequence:
Pinging <IP address> with 32 bytes of data
Reply from <IP address>: bytes=32 time=NN ms TTL=xxx
 - If the path is not working, you see this message sequence:
Pinging <IP address> with 32 bytes of data
Request timed out
 - If the path is not working, check the physical connections between the PC and the security appliance. If the LAN port light is off, verify that the corresponding link lights are lit for your network interface card and for any hub ports that are connected to your workstation and security appliance.
 - If the path is still not up, test the network configuration.
 - Verify that the Ethernet card driver software and TCP/IP software are installed and configured on the PC.

- Verify that the IP addresses for the security appliance and PC are correct and on the same subnet.

Testing the LAN Path from Your PC to a Remote Device

- STEP 1** On your PC, click the Windows **Start** button, and then click **Run**.
- STEP 2** Type `ping -n 10 <IP_address>` where `-n 10` specifies a maximum of 10 tries and `<IP address>` is the IP address of a remote device such as your ISP's DNS server. Example: `ping -n 10 10.1.1.1`.
- STEP 3** Click **OK** and then observe the display (see the previous procedure).
- STEP 4** If the path is not working, perform the following tasks:
- Check that the PC has the IP address of your security appliance is listed as the default gateway. (If the IP configuration of your PC is assigned by DHCP, this information is not visible in your PC's Network Control Panel.)
 - Verify that the network (subnet) address of your PC is different from the network address of the remote device.
 - Verify that the cable or DSL modem is connected and functioning.
 - Call your ISP and go through the questions listed in **The security appliance cannot obtain an IP address from the ISP**.
 - Ask your ISP if it rejects the Ethernet MAC addresses of all but one of your PCs. Many broadband ISPs restrict access by allowing traffic from the MAC address of only your broadband modem. Some ISPs additionally restrict access to the MAC address of just a single PC connected to that modem. If this is the case, configure your security appliance to clone or spoof the MAC address from the authorized PC. See [Configuring WAN Settings for Your Internet Connection, page 122](#).