

Starting and Tracking VPNs in the **EN-2000**

ne of the principal features of routers is their support of virtual private networks (VPNs). This document discusses verification of VPN tunnel status and tracking of VPN tunnel activity.

Make sure you have performed the procedures in the following documents:

- Configuring IPsec VPNs in the EN-2000™
- Configuring the EN-2000's VPN Firewall

Then see the following sections:

- Starting VPN Tunnels
- · Testing and Tracking VPN Connections

For information about VPNs, review the document Virtual Private Networks.

12.1 Starting VPN Tunnels

Do the following on the VPN tunnel initiator.

- When you have configured all VPN tunnels for the EN-2000, on the EN-2000 that is the VPN tunnel initiator, select the **Network** tab. Then select the **VPN** tab.
 - ❖ The IPsec VPN Tunnel Table for a VPN Tunnel Initiator is displayed (Figure 12-1).

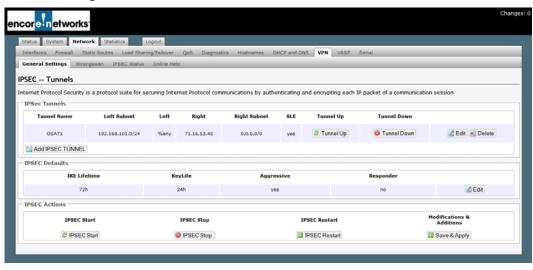


Figure 12-1. IPsec VPN Tunnel Table for a VPN Tunnel Initiator

- 2 On that screen, do one of the following:
- **a** If this is the first IPsec VPN activity since system start-up, select the IPSEC Start button (at the lower left of the management window).
- **b** If IPsec VPN tunnels are already running, select the IPSEC Restart button.
 - In either case, IPsec VPN tunnels are started.

Note: After the **I Psec Start** button has been selected, you can select any VPN tunnel's **Tunnel Down** button to bring that tunnel down. Then you can select its **Tunnel Up** button to restart the VPN tunnel.

You can use the I Psec Stop button to stop all VPN tunnels. (The VPN packet transmissions will be dropped.) When you are ready to resume use of the tunnels, select the I Psec Restart button to re-initiate all IPsec VPN tunnels.

12.2 Testing and Tracking VPN Connections

See the following:

- Testing VPN Connections
- Tracking VPN Connections

12.2.1 Testing VPN Connections

Do the following to test a VPN connection:

- 1 On the EN-2000 management system, select the **Network** tab.
- 2 Under Networks, select the Diagnostics tab.
 - ❖ The Diagnostics Screen is displayed (Figure 12-2).

Figure 12-2. Diagnostics Screen



Look at the ping set-up area on the left of the screen (Figure 12-3), under the heading **Network Utilities**.

Figure 12-3. Ping Set-Up Area (Detail of Diagnostics Screen)



4 In the top field, enter the ping destination.

Note: The destination can be entered as an IP address or as a URL (a website path and name).

In the IP selection box below the field, pull down a menu to select IPv4 or IPv6.

Note: If you typed an IP address in step 4, the IP version you select here must match that IP address's format.

- 6 In the action box below the field, select the Ping button.
 - ♦ If the ping is successful, the screen displays ping statistics, indicating that the VPN tunnel is active (Figure 12-4).

Figure 12-4. Messages Showing Successful Ping



♦ If the ping is unsuccessful, the screen indicates that no acknowledgments were returned. That means that there is no communication (Figure 12-5).

Figure 12-5. Message Showing Unsuccessful Ping

```
PING encorenetworks.com (74.50.25.147): 56 data bytes
--- encorenetworks.com ping statistics ---
5 packets transmitted, 0 packets received, 100% packet loss
```

Note: If the ping is unsuccessful, check the IP address (or URL) and the physical connections, and repeat step 4.

12.2.2 Tracking VPN Connections

See the following sections:

- Tracking Specific Information
- Tracking General VPN Activity

12.2.2.1 Tracking Specific Information

1 Select the **Network** tab; then select the **VPN** tab and the **IPsec Status** tab to see which IPsec VPN tunnels are up and active (Figure 12-6).

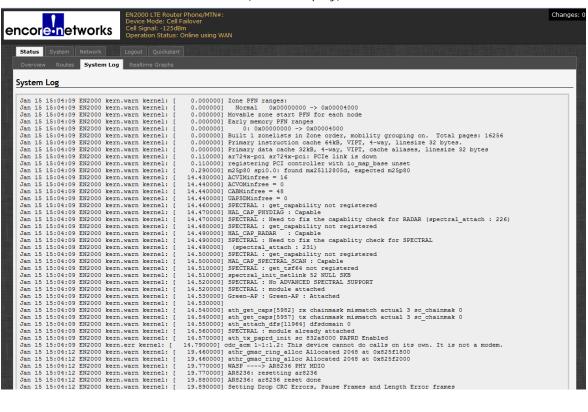
Figure 12-6. Status of IPsec VPN Tunnels



12.2.2.2 Tracking General VPN Activity

- 1 On the EN-2000 management system, select the **Status** tab.
- 2 Under Status, select the System Log tab.
 - The System Log is displayed (Figure 12-7), showing a line-by-line log of the EN-2000 activities. You can review the IPsec VPN activities listed in this file.

Figure 12-7. System Log (Partial Display)



Note: The System Log is live; it shows activity up to the second that you open it. Although the file continues recording information while it is open, it will not show new information until you refresh the browser window.

The file is not permanent; it refreshes when the EN-2000 reboots.