

Monitoring the EN-1000

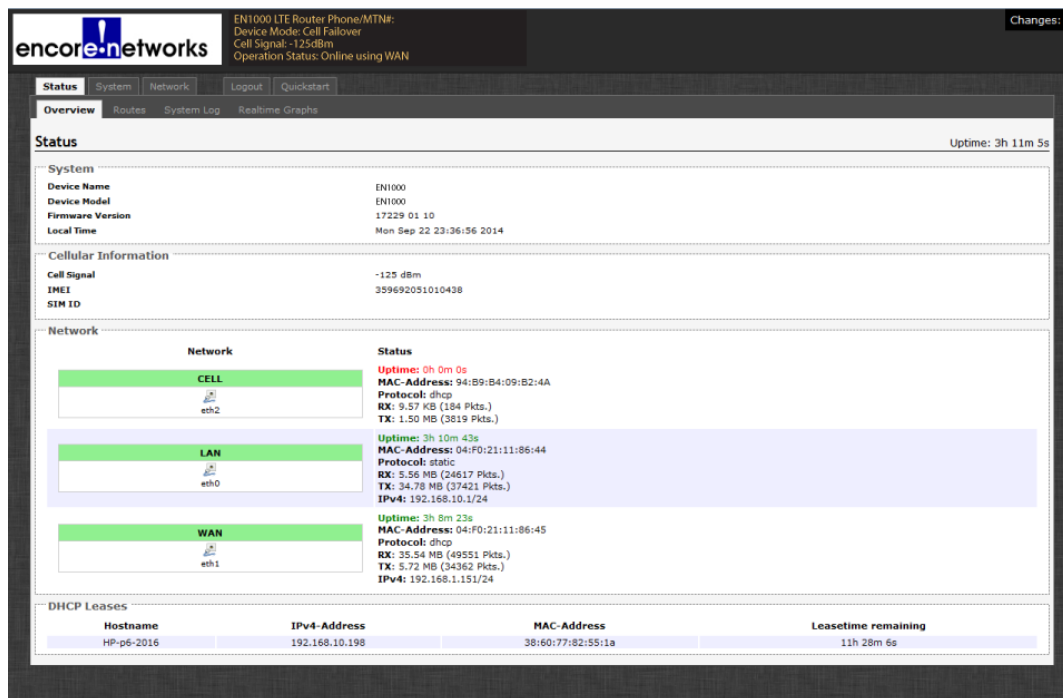
This document provides information for monitoring the EN-1000 router's configuration and performance. Screens specifically for monitoring the EN-1000 are discussed in this document.

Note: You can also monitor information and performance by viewing configuration screens. On those screens, you can make changes in the configuration if they are needed. See [Configuring the EN-1000 for its Network Functions](#).

! Caution: Always consult your network administrator before changing settings in the EN-1000. If you have any problems when monitoring the EN-1000, contact the vendor or distributor.

After log-in, the Status Overview Screen displays information on the EN-1000's connections ([Figure 8-1](#)). (For log-in details, see [Logging In](#), on page 2 of [Using the EN-1000's Management System](#).)

Figure 8-1. Status Overview Screen



On screens for the EN-1000 management system, the top row of tabs indicates the management area, and the second row indicates configuration areas—items to configure or monitor within the selected management area.

Note: The EN-1000 senses its hardware configuration and displays tabs to represent that configuration.

In each management area, you can select items you wish to manage on the EN-1000.

- 1 To monitor the EN-1000, do the following:
 - a Select a management area tab.
 - b Then select a configuration area tab.
 - c Occasionally there will be a third row of tabs, for details. If so, select a detail tab.
- ❖ The selected screen is displayed.

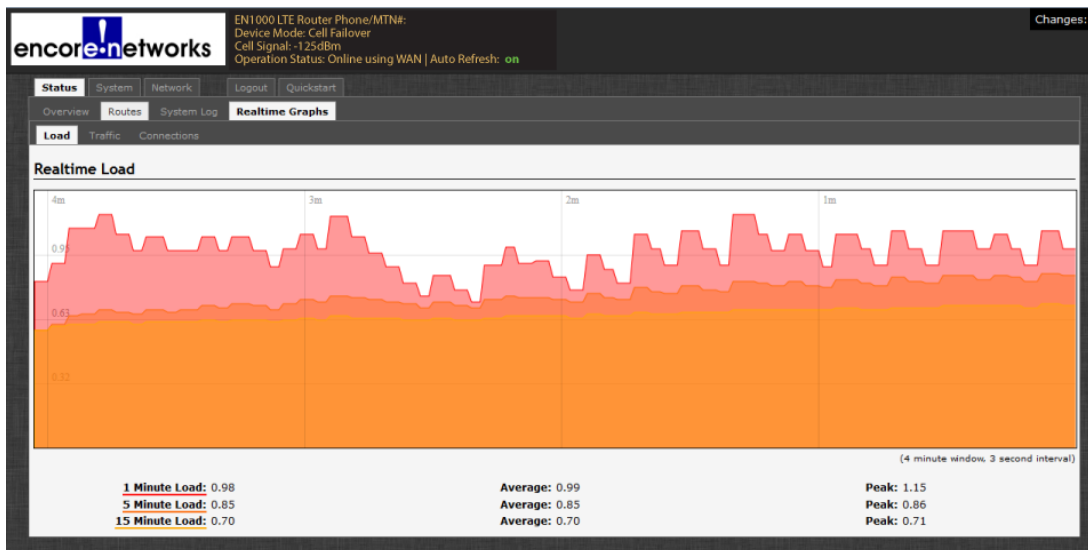
8.1 Graphs

The EN-1000 management system includes graphs that provide visual depictions of trends. The EN-1000 displays graphs that start at the current time (that is, at the time display of the graph is selected).

To view graphs of EN-1000 traffic statistics beginning at the current second and updating through three-second intervals (in real time), do the following on the EN-1000 management screens.

- 1 Select the **Status** management area.
 - 2 Select the **Realtime Graphs** configuration area.
 - 3 If necessary, select the **Load** detail tab.
- ❖ The Realtime Load Performance Graph is displayed ([Figure 8-2](#)).

Figure 8-2. Realtime Load Performance Graph



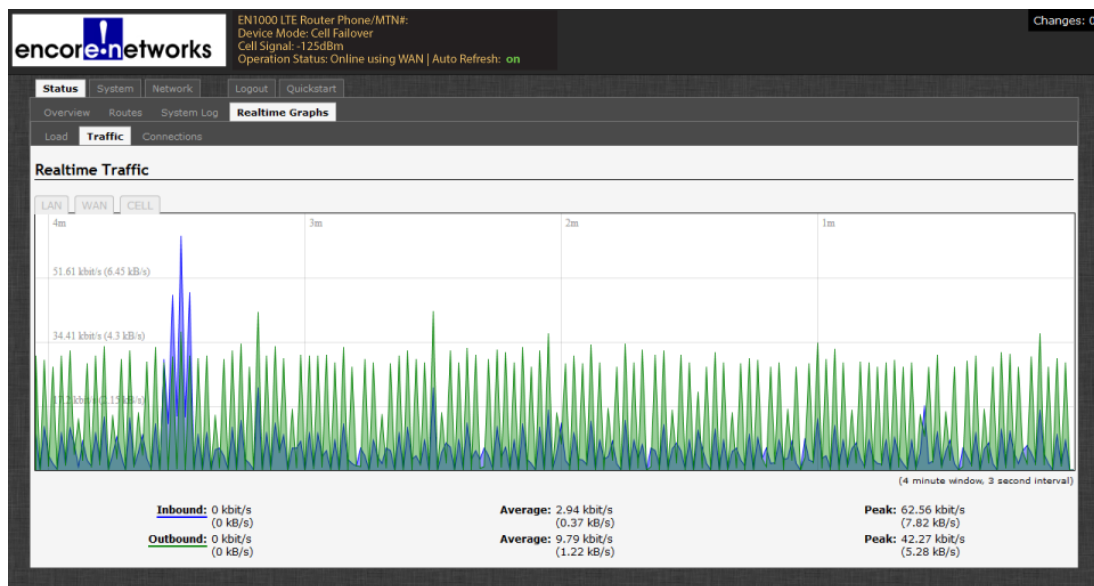
This screen depicts all traffic through the EN-1000 in real time (that is, as that traffic occurs). Below the graph, labels (underscored with colors corresponding to areas in the graph) provide quick information for the current **Load**, the mean **Average**, and the **Peak** traffic for:

- The past **one minute** (sometimes displayed as pink; sometimes displayed as dark orange)
- The past **five minutes** (usually displayed as medium orange)
- The past **fifteen minutes** (usually displayed as light orange, almost yellow)

4 Select the **Traffic** detail tab.

- ❖ The Realtime Performance Graph of All EN-1000 Traffic is displayed ([Figure 8-3](#)).

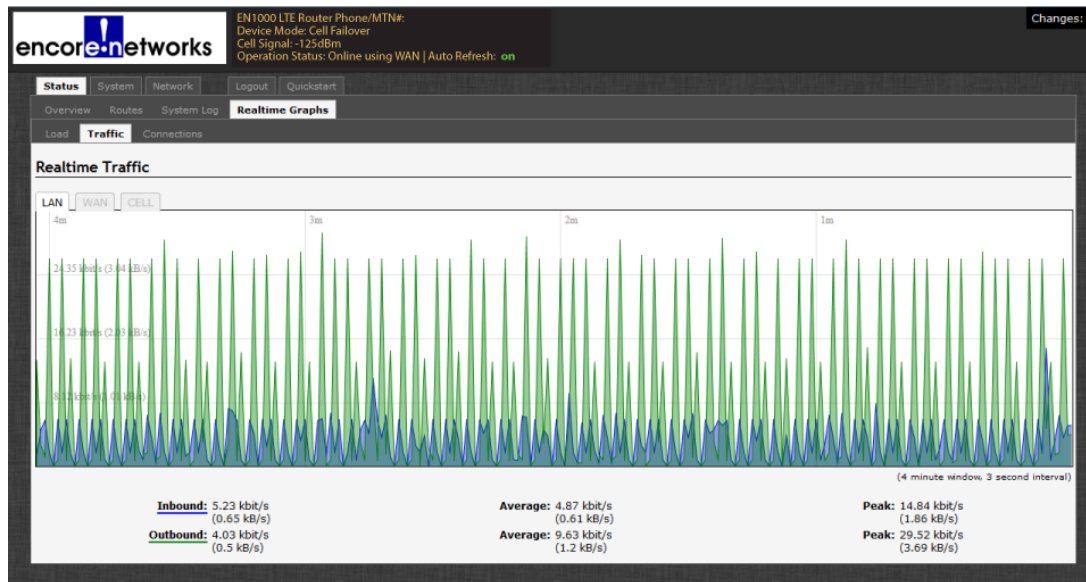
Figure 8-3. Realtime Performance Graph of All EN-1000 Traffic



a On this same screen, select the **LAN** detail area.

- ❖ The Realtime Performance Graph of the EN-1000's LAN Port Traffic is displayed ([Figure 8-4](#)).

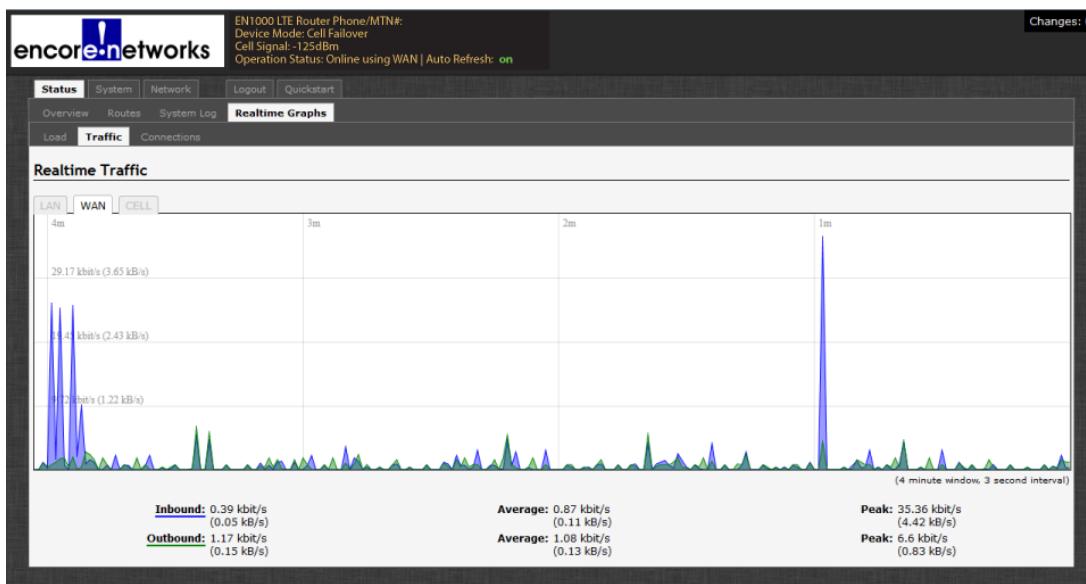
Figure 8-4. Realtime Performance Graph of the EN-1000's LAN Port Traffic



b On this same screen, select the **WAN** detail area.

- ❖ The Realtime Performance Graph of the EN-1000's WAN Port Traffic is displayed (Figure 8-5).

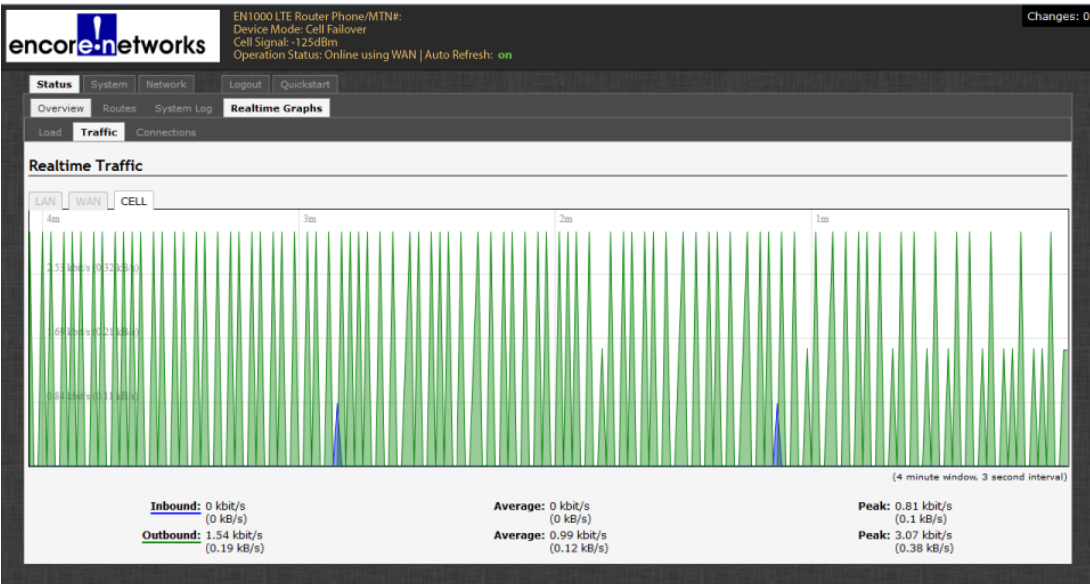
Figure 8-5. Realtime Performance Graph of the EN-1000's WAN Port Traffic



c On this same screen, select the **CELL** detail area.

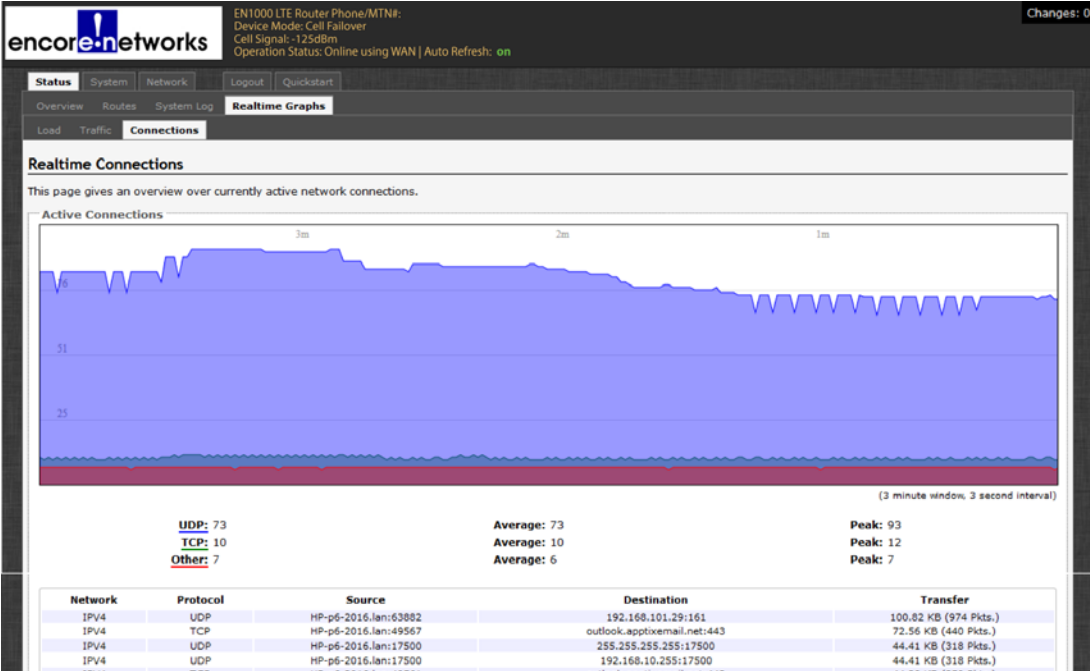
- ❖ The Realtime Performance Graph of the EN-1000's Cellular Wireless Traffic is displayed (Figure 8-6).

Figure 8-6. Realtime Performance Graph of the EN-1000's Cellular Wireless Traffic



- 5 Select the **Connections** detail tab.
- ❖ The Realtime Performance Graph of Network Connections is displayed (Figure 8-7).

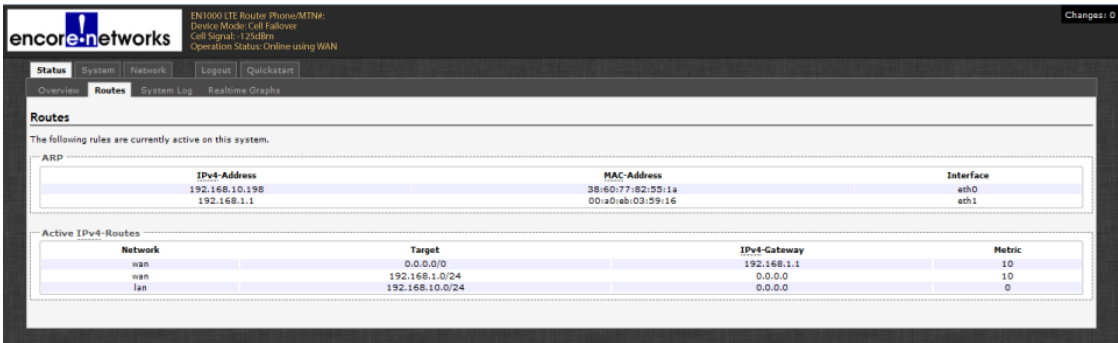
Figure 8-7. Realtime Performance Graph of Network Connections
(Partial Display of Screen)



8.2 Routing Information

Figure 8-8 (Status, Routes) displays the Address Resolution Protocol (ARP) Table and the IP routes for ports on the EN-1000.

Figure 8-8. Status Routes Screen



8.3 Pings and Other Network Diagnostics

The EN-1000 can use a ping, route tracing, or nslookup to test or resolve connections. Do the following to test a connection:

- 1 On the EN-1000 management system, select the **Network** tab.
- 2 Under **Networks**, select the **Diagnostics** tab.
 - ❖ The Diagnostics Screen is displayed (Figure 8-9).

Figure 8-9. Diagnostics Screen



- 3 Look at the ping set-up area on the left of the screen, under the heading **Network Utilities** (Figure 8-10).

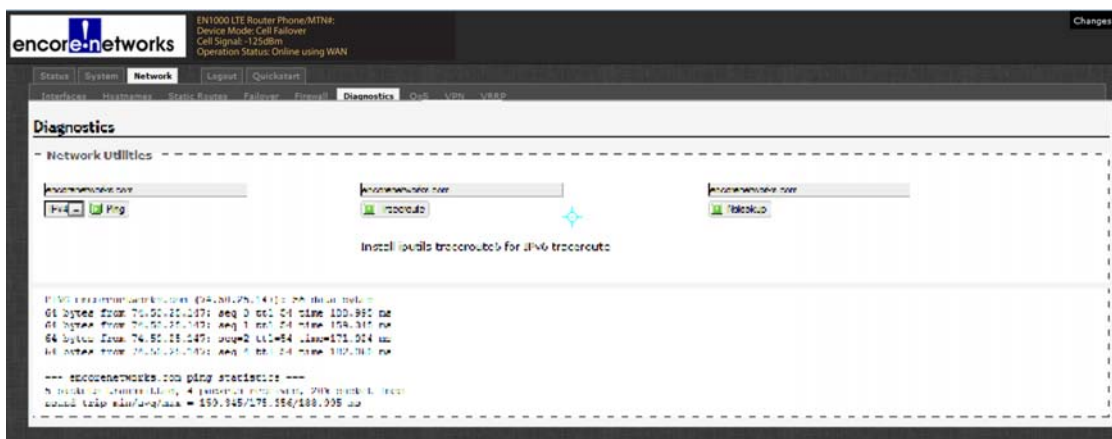
Figure 8-10. Ping Set-Up Area (Detail of Diagnostics Screen)



- 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). If you type an IP address, use IP version 4 (IPv4). In Figure 8-10, the destination is **encorenetworks.com**.

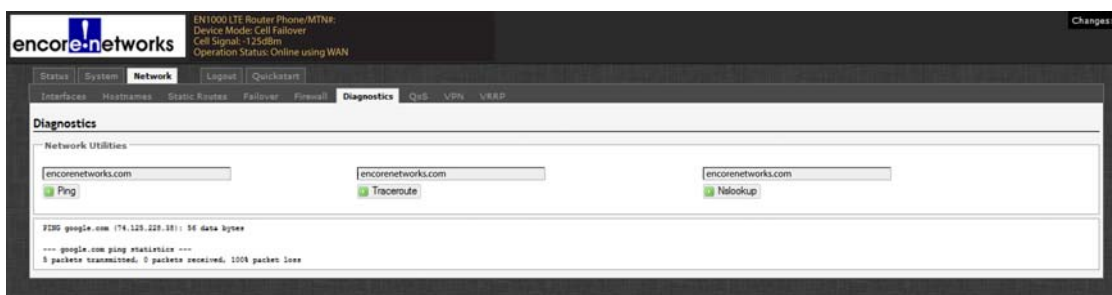
- 5 In the action box below the field, select the **Ping** button.
 - ❖ If the ping is successful, the screen displays ping statistics, indicating that the VPN tunnel is active ([Figure 8-11](#)).

Figure 8-11. 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 8-12](#)).

Message Showing Unsuccessful Ping



- 6 If the ping is unsuccessful, check the connections and IP address, and repeat [Step 4](#) through [Step 5](#).

8.4 Logs

You can review information logged by the system. See [Figure 8-12](#), System Log.

Figure 8-12. System Log
(Sample; Partial Listing)

