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# Using the EN-2000's Management System

The EN-2000 provides wireless and wired connections to a local area network (LAN), to a wide area network (WAN), and to peripheral devices and remote devices. This document describes use of the EN-2000's browser management system.

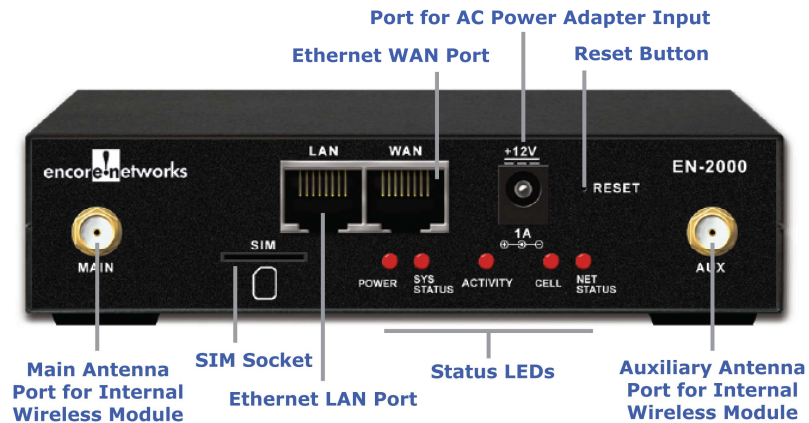
Any platform (PC, Mac, Linux, etc.) that supports a browser (Internet Explorer, Firefox, Chrome, Safari, etc.) can manage the EN-2000. The following sections discuss use of the EN-2000's management system:

- [Connecting to the EN-2000](#)
- [Activation of the Wireless Module](#)
- [Logging In](#)
- [Navigating the EN-2000's Management System](#)
- [Ending the Session](#)

## 2.1 Connecting to the EN-2000

The EN-2000's management system displays in a browser window. A management terminal (a computer) connects to the EN-2000. The management terminal can run on any platform (for example, a Windows, Mac, or Linux platform) that supports a web browser.

Figure 2-1. EN-2000 Front Panel



The LAN port on the EN-2000's front panel (Figure 2-1) is on a private network. The EN-2000 software includes a DHCP server that assigns an IP address to a device connected to its LAN port. A device connected to the LAN port sees the gateway address 192.168.10.1, representing the EN-2000.

The EN-2000's WAN port (also on the rear panel) is on a separate network from its LAN port. The EN-2000's WAN port is a DHCP client, by default.

## 2.2 Activation of the Wireless Module

When the EN-2000 is powered up, upon its initial attempt to connect to the Verizon LTE network, automatic over-the-air (OTA) activation does the following:

- registers the LTE cellular module's International Mobile Station Equipment Identity (IMEI) with the Verizon network
- registers the LTE cellular wireless module's subscriber identity module (SIM) ID with the Verizon network
- obtains the access point name (APN) from the Verizon LTE Authentication, Authorization, and Accounting (AAA) server

**Note:** This activity can take as long as 20 minutes.

No action is required by the end user.

## 2.3 Logging In

- 1 Make sure you have a terminal available to manage the EN-2000, and make sure the terminal's power is on.
- 2 Connect the EN-2000 to its AC power adaptor, and plug the adaptor into an AC outlet.

**Note:** The AC power adaptor must be rated for 12 volts DC.

- ❖ The EN-2000 powers on.

- 3 Use an Ethernet cable to connect your management terminal to the Ethernet LAN port on the EN-2000's rear panel.
  - ❖ The LAN port assigns an IP address to your management terminal.
- 4 On the management terminal, open a web browser.
- 5 In the browser's address field, type the EN-2000's gateway IP address **192.168.10.1** (or, if you prefer, type **http://192.168.10.1**), and press the console's **Enter** key (Figure 2-2).

Figure 2-2. Browser Address Field



**Note:** If the browser asks whether the EN-2000 router (**192.168.10.1**) may set cookies, answer **Yes**, or **Yes for the Session**, or something similar.

! **Caution:** Do not block cookies for the EN-2000. Otherwise, you might not be able to manage the EN-2000.

❖ The browser navigates to the specified IP address and displays the EN-2000 Log-In Screen (Figure 2-3).

**Note:** The **Username** field might display the user name.

Figure 2-3. EN-2000 Log-In Screen

A screenshot of a web browser displaying an "Authorization Required" dialog box. The dialog has a title bar and a main area with the text "Please enter your username and password." Below this text are two input fields: "Username" and "Password". At the bottom of the dialog are two buttons: "Login" and "Reset".

! **Caution:** The EN-2000 management system uses JavaScript in its browser-based display. A message to enable JavaScript (similar to the message in Figure 2-4) might display in your browser.

Figure 2-4. Message to Enable JavaScript

**JavaScript required!**

You must enable JavaScript in your browser or the management system will not work properly.

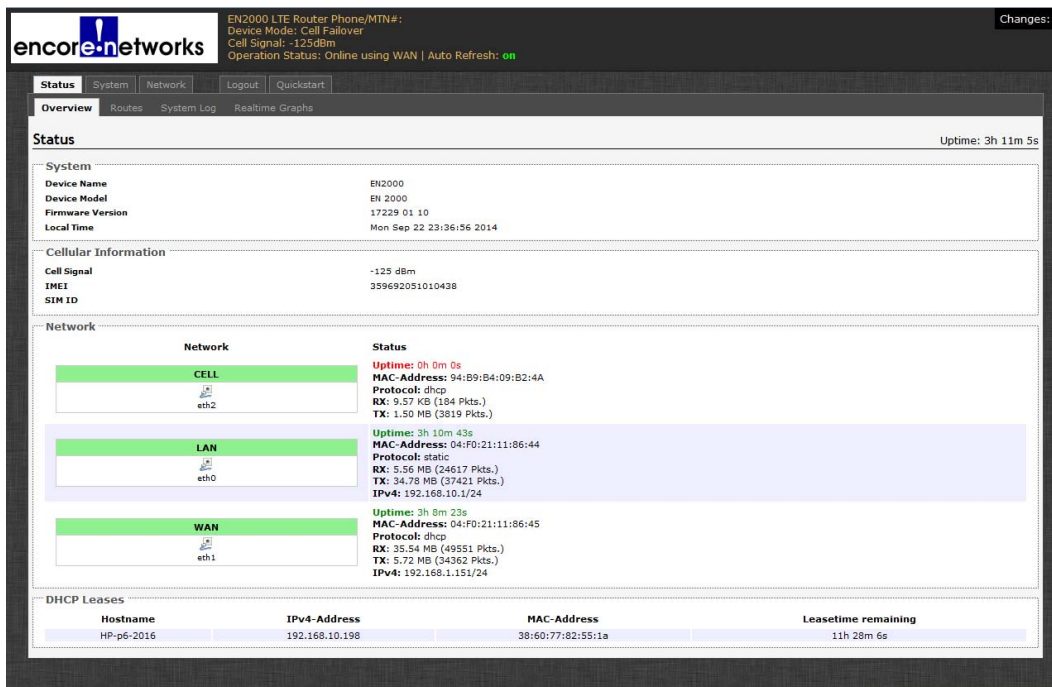
If you see the message in Figure 2-4, do the following:

- On the browser menu, open **Tools** or **Options** (or an equivalent menu item in your browser).
- In the browser's menu system, **Enable** JavaScript, and **Save** that setting.
- Right-click on the browser screen, and select **Refresh**, **Rewrite**, or **Reload** (or the equivalent for your browser).

- ❖ The EN-2000 Log-In Screen is redisplayed, without a message to enable JavaScript.
- 6 Type your user name and password in the appropriate fields of the EN-2000 Log-In Screen. Use the default log-in values:
    - The default user name is **admin**.
    - Its associated default password is **encore!1**.

**Note:** You may wish to change the password in the future. Check with your network administrator for all names and passwords.
  - 7 Then press the console's **Enter** key or select the screen's **Login** button (below the Log-In fields).
    - ❖ The system accepts your log-in. Then the EN-2000 Status Overview Screen is displayed (Figure 2-5). This screen provides an overview of the EN-2000's status.

Figure 2-5. EN-2000 Status Overview Screen



**Note:** If the EN-2000's WAN port is connected to a network, you might see the WAN port's assigned IP address. (The WAN port is a DHCP client by default.) In Figure 2-5, the IP address assigned to the WAN port is 192.168.1.151.

On the EN-2000 management screens, the top row of tabs indicates the management areas.

- ◆ Status
- ◆ System
- ◆ Network
- ◆ Logout
- ◆ Quickstart

There is a second row of tabs under each management area. The second row provides detail for the selected management area. (The EN-2000 senses its

hardware configuration and displays tabs to represent that configuration.) In [Figure 2-5](#), the **Status** management area shows the following detail tabs:

- ◆ Overview
- ◆ System Log
- ◆ Routes
- ◆ Realtime Graphs

An **Auto Refresh** indicator (to the right of the Encore Networks logo) is displayed on several screens. You can select this indicator to turn automatic screen refreshment **on** or **off**.

8 Do the following:

- a To use the EN-2000, see [Navigating the EN-2000's Management System](#).
- b To configure the EN-2000's parameters, see the document [Configuring the EN-2000 for its Network Functions](#).
- c To review the EN-2000's settings and performance, see the document [Monitoring the EN-2000](#).

## 2.4 Navigating the EN-2000's Management System

### 2.4.1 Saving or Discarding Changes

Buttons to **Reset**, **Save**, or **Save & Apply** are displayed in the lower righthand corner of EN-2000 configuration screens. You can use them as described below:

- Select the **Save & Apply** button to save changes that take effect immediately.
- Select the **Save** button to save changes that will take effect after the EN-2000 is rebooted.
- Select the **Reset** button to discard changes you have made but have not yet saved, and to see the screen with its values before you made those changes.

If you close the browser without saving changes in the configuration, the previous configuration is used when you reopen the EN-2000 management system in the browser.

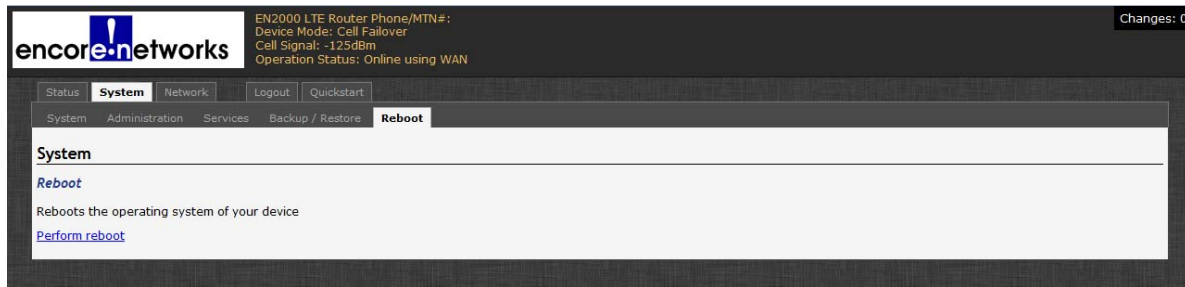
### 2.4.2 Restarting (Rebooting) the EN-2000

There may be times when the EN-2000 needs to be restarted. We recommend using the menu system to restart the EN-2000, because that provides a controlled approach to restarting. Any processes that are running will be shut down properly before the router restarts.

- ! **Caution:** In general, do not manually restart the EN-2000 by disconnecting it from its power source and then reconnecting it to power. That method of rebooting might interrupt processes running on the EN-2000.

- 1 To restart the EN-2000, select the **System** management area.
- 2 Then select the **Reboot** tab.
  - ❖ The System Reboot screen is displayed ([Figure 2-6](#)).

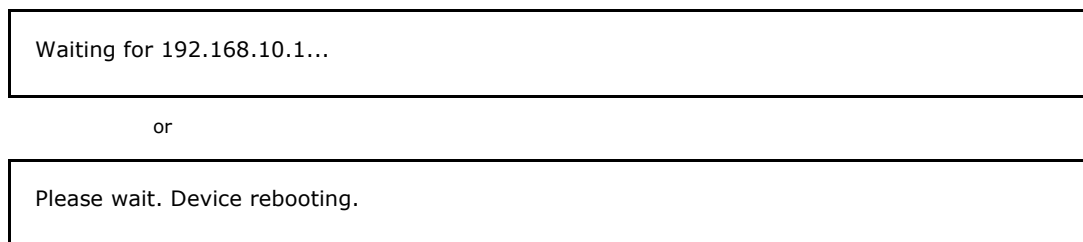
Figure 2-6. EN-2000 System Reboot



### 3 On this screen, select **Perform Reboot**.

- ❖ The menu system restarts the EN-2000. During the reboot, a message similar to one of the messages in [Figure 2-7](#) might be displayed.

Figure 2-7. Message while Rebooting



**Note:** Rebooting might take a minute or longer.

- ❖ When the EN-2000 has rebooted, the EN-2000 Log-In Screen is displayed ([Figure 2-8](#)).

Figure 2-8. EN-2000 Log-In Screen

## 2.5 Ending the Session

- 1 When you wish to log out, select the **Logout** tab.
  - ❖ The system logs out, and the EN-2000 Log-In Screen is redisplayed (recall [Figure 2-8](#)).