

EN-4000™ Quick Configuration Guide

The EN-4000™ provides wireless and cabled connections to a local area network (LAN) and to peripheral devices and remote devices.

This document provides information to configure the EN-4000 router quickly. Confer with your network administrator for specific values to use in your network.

Note: For details of configuration, see the EN-4000 customer documentation. If there are any problems when configuring the EN-4000, contact your EN-4000 distributor.

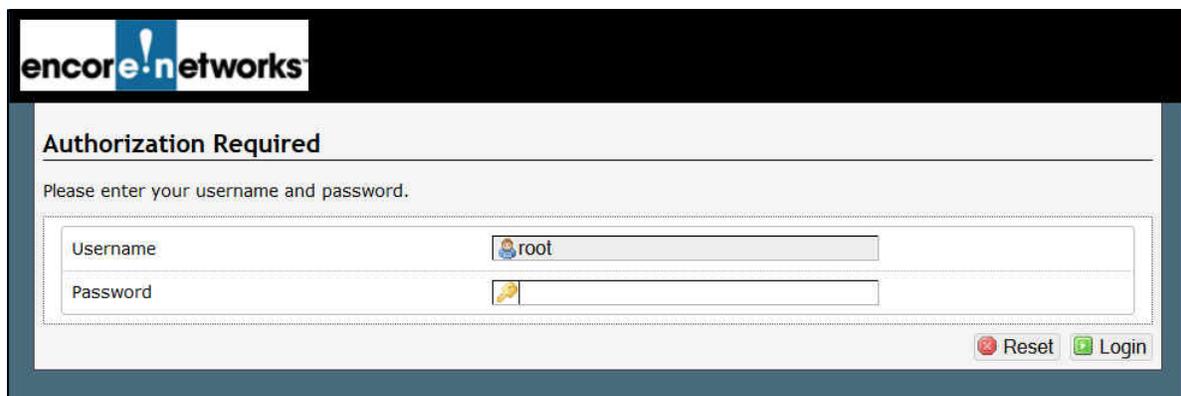
H.1 Connecting the EN-4000

- 1 Use an Ethernet cable to connect a management PC to a LAN port on the EN-4000.

Note: For details of hardware connection, see the [EN-4000™ Quick Connection to DC Power](#). To interpret the EN-4000's LEDs, see [the document EN-4000 LEDs](#).

- 2 Power up the EN-4000.
- 3 On the management PC, open a browser and type the IP address **192.168.10.1** in the browser's address field.
 - » The EN-4000 Log-In Screen is displayed ([Figure H-1](#)).

Figure H-1. EN-4000 Log-In Screen

The screenshot shows the EN-4000 Log-In Screen. At the top left is the Encore Networks logo. Below it, the text "Authorization Required" is displayed. Underneath, a message says "Please enter your username and password." There are two input fields: "Username" with the text "root" and a user icon, and "Password" with a password icon. At the bottom right, there are two buttons: "Reset" with a red 'x' icon and "Login" with a green checkmark icon.

4 Log in with the user name and password.

Note: For EN-4000™ routers, the default user name is **root**. For all other EN™ routers, the default user name is **admin**. In addition:

- Devices shipped before July 09, 2018, use the default password **encore!1**.
- Devices shipped from the factory on or after July 09, 2018, use a randomly generated default password. That password is contained in information on a sticker on the bottom of the router's chassis. Retain that sticker; you will need that default password if the router must be reset. (For details, see the document *Password Policy for EN™ Routers*.)

Note: Encore Networks, Inc., advises users to change a router's password upon first configuration of the router. Check with your network administrator for all names and passwords.

- » The EN-4000 Status Overview Screen opens ([Figure H-2](#)). This screen provides quick information about the connections in the EN-4000.

Figure H-2. EN-4000 Status Overview Screen

The screenshot displays the EN-4000 Status Overview screen. At the top, the Encore Networks logo is visible on the left, and 'Changes: 0' is on the right. Below the logo, there is an 'Auto Refresh: on' indicator. The main navigation bar includes tabs for Status, System, Network, Statistics, Quickstart, and Logout. Under the 'Status' tab, there are sub-tabs for Overview, Firewall, Routes, System Log, Processes, Realtime Graphs, and EnCloud. The 'Overview' sub-tab is selected.

The 'Status' section is divided into three main areas:

- System:** Displays router information:
 - Router Name: Enter Device Name
 - Router Model: EN 4000
 - Firmware Version: 17322 05 00
 - Build: 450Ys
 - Local Time: Tue Jan 23 17:01:28 2018
 - Uptime: 0h 1m 36s
- Network:** Shows the status of three network interfaces:
 - CELL1 (eth6):** Uptime: 0h 0m 0s, Protocol: dhcp, RX: 7.60 KB (72 Pkts.), TX: 12.85 KB (129 Pkts.), IMEI/MEID: 351884070713401, SIM ID: N/A, Sig Strength: -125dBm, Phone#: Not Available, APN: ne01.VZWStatic, Cell Type: Not Applicable, Name: VZ22M, Carrier: Not Applicable.
 - LAN (br-lan):** Uptime: 0h 1m 54s, MAC-Address: 00:A0:EB:02:4D:A3, Protocol: static, RX: 55.19 KB (648 Pkts.), TX: 98.69 KB (583 Pkts.), IPv4: 192.168.10.1/24.
 - WAN (eth0):** Uptime: 0h 0m 0s, MAC-Address: 00:A0:EB:02:4D:A2, Protocol: dhcp, RX: 0.00 B (0 Pkts.), TX: 0.00 B (0 Pkts.).
- Connections:** Shows IPv4 WAN Status as 'Not connected'.
- DHCP Leases:** A table with columns for Hostname, IPv4-Address, MAC-Address, and Leasetime remaining. The message 'There are no active leases.' is displayed below the table.
- MWAN Interface Live Status:** Shows two buttons: 'wan (eth0) Offline' and 'cell1 (eth6) Offline'.

- 5 On the Status Overview screen, select the **Quickstart** tab.
 - » The Application Configuration screen opens.

Figure H-3. EN-4000 Application Configuration Screen


Changes: 0

Status
System
Network
Statistics
Quickstart
Logout

Application Configuration

Select the Device Mode and associated parameters.

Parameters

<u>Device Mode</u>	<input type="text" value="VPN to VSR1200"/> <small>Select Specific Device Mode</small>
<u>Device Name</u>	<input type="text" value="Enter Device Name"/> <small>Custom name assigned to this device</small>
<u>LAN IP</u>	<input type="text" value="192.168.10.1"/> <small>IP Address assigned to the ethernet LAN port</small>
<u>LAN Netmask</u>	<input type="text" value="255.255.255.0"/> <small>Subnet mask of the LAN network</small>
<u>LAN DHCP Server</u>	<input type="text" value="Enabled"/> <small>Range varies based on mask</small>
<u>WAN Protocol</u>	<input type="text" value="DHCP Client"/> <small>Select Ethernet WAN Protocol</small>
<u>DNS Server</u>	<input type="text" value="8.8.8.8"/> <small>Domain Name Server</small>
<small>Quickstart allows the creation of one tunnel only. To add additional VPN tunnels use the VPN tab under Network</small>	
<u>Local Subnet</u>	<input type="text" value="192.168.10.0/24"/> <small>Local Private Subnet(s) Quickstart only allows 1 subnet.</small>
<u>Remote Subnet</u>	<input type="text" value="192.168.1.0/24"/> <small>Remote Private Subnet(s) Quickstart only allows 1 subnet.</small>
<u>Remote VPN Gateway</u>	<input type="text" value="Enter IP Address of VSR WAN port"/> <small>Remote IP of the Remote Appliance</small>
<u>User ID</u>	<input type="text" value="Same as Remote VPN Gateway IP Address"/> <small>Local User ID</small>
<u>Pre-Shared Key</u>	<input type="password" value="•••••"/>
<u>Serial Protocol</u>	<input type="text" value="AsyncEncap"/> <small>Serial Protocol for the serial port</small>
<u>Option Name</u>	<input type="text" value="Option Name"/>
<u>Serial Remote Address</u>	<input type="text" value="192.168.1.1"/> <small>Remote Address for asynchronous encapsulation</small>

Device Password

Changes the administrator password for accessing the device

<u>Password</u>	<input type="password"/>
<u>Confirmation</u>	<input type="password"/>

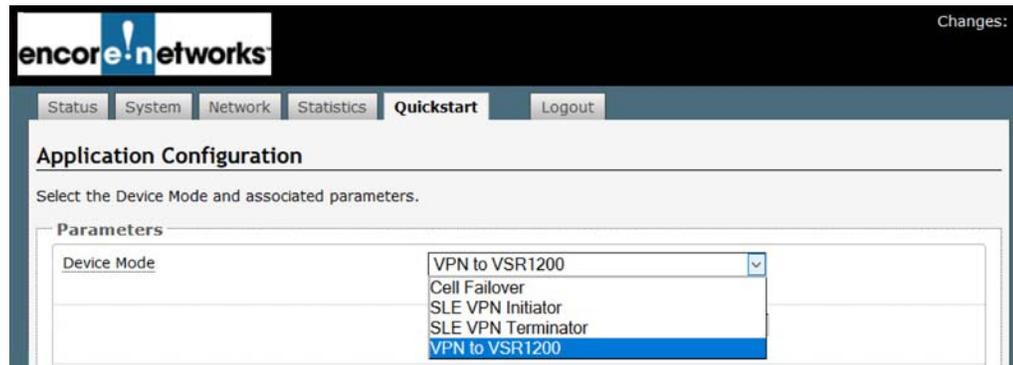
Reset
Save
Save & Apply

Note: The lower part of the Application Configuration screen might provide a **Device Password** configuration area. Change the password only if your network administrator provides a new password. (If the password is not changed, it remains at its default value.)

H.2 Selecting the EN-4000's Device Mode

- 1 Select the **Device Mode** field, and select **VPN to VSR1200** (Figure H-4).

Figure H-4. Dropdown Menu for EN-4000 Device Mode



- » Default parameters are displayed for configuring a VPN tunnel from the EN-4000 to a VSR-1200 (recall Figure H-3).
- 2 Modify settings (as required) for the device mode's parameters. (Consult your network administrator for settings to use in your network.)
 - **Device Name**
 - **LAN IP**
 - **LAN Netmask**
 - **LAN DHCP Server**
 - **WAN Protocol**
 - **DNS Server**
 - **Local Subnet**
 - **Remote Subnet**
 - **Remote VPN Gateway**
 - **User ID**
 - **Pre-Shared Key**
 - **Serial Protocol**
 - **Option Name**
 - **Serial Remote Address**
 - 3 When you have finished configuring the EN-4000 for a VPN connection to a VSR-1200, select the screen's **Save & Apply** button (in the lower right corner of the screen).

» The EN-4000 saves its configuration.

Then it reboots, and displays the EN-4000 log-in screen (recall the EN-4000 Log-In Screen, shown on page 1).

Note: The EN-4000 reboots only after the initial configuration (when the **Save & Apply** button is selected). Later configurations also use the **Save & Apply** button, but they do not require reboot.

H.3 Using the EN-4000's Configuration

Make sure you have selected the **Save & Apply** button (in the lower right corner of the screen). That saves the configuration. If this is the first time the EN-4000

has been configured and the **Save & Apply** button has been selected, the EN-4000 reboots and displays its log-in screen (recall [Figure H-1](#), on page 1).

- 1 If the log-in screen is displayed, log in again. (If you changed the password, use the new password.)
 - » The Status Overview screen is displayed (recall [Figure H-2](#), on page 3).
- 2 If you need to reconfigure the device mode (for example, to change the DHCP Server setting), select the **Quickstart** tab (as described in [step 5](#), on page 3).
 - » The Application Configuration screen is displayed (recall [Figure H-3](#), on page 4). The screen shows the current configuration.
- 3 If you need to change the configuration, follow the procedure described in [Selecting the EN-4000's Device Mode](#), on page 5.

H.4 Returning to the Default Configuration

- ! Caution:** If your EN-4000's configuration is not correct, try to reconfigure the EN-4000 before returning to the default configuration. Do not perform the action described here unless there is no other way to resolve problems with the EN-4000 configuration.

To set the EN-4000 back to its factory default configuration, insert the end of a paper clip into the EN-4000's **Reset** button (a small hole on the front of the chassis). Wait about 5 seconds for the EN-4000's LEDs to blink in sync. Then remove the paper clip from the **Reset** button. When the LEDs stop blinking, the **Status** LED will go out. When the **Status** LED is on again, the EN-4000 uses the default configuration.

Restart the EN-4000 management system to see the default configuration. Return to the beginning of this document to reconfigure the EN-4000 for its use in the network.