

# 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.

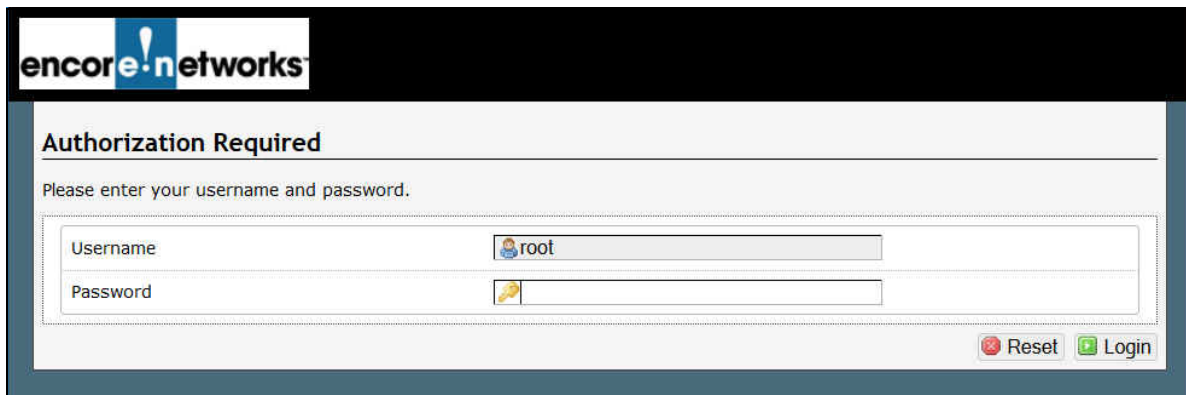
## H.1 Connecting the EN-4000

- 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 is the Encore Networks logo. Below it, the text "Authorization Required" is displayed. A message says "Please enter your username and password." There are two input fields: "Username" with the value "root" and "Password" with a masked password. At the bottom right, there are two buttons: "Reset" and "Login".

encore!networks

**Authorization Required**

Please enter your username and password.

Username

Password

#### 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

**encore! networks** | Auto Refresh: **on** Changes: 0

**Status** | System | Network | Statistics | Quickstart | Logout

**Overview** | Firewall | Routes | System Log | Processes | Realtime Graphs | EnCloud

### Status

#### System

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

Network	Status
<b>CELL1</b> eth6	<b>Uptime:</b> 0h 0m 0s <b>Protocol:</b> dhcp <b>RX:</b> 7.60 KB (72 Pkts.) <b>TX:</b> 12.85 KB (129 Pkts.) <b>IMEI/MEID:</b> 351884070713401 <b>SIM ID:</b> N/A <b>Sig Strength:</b> -125dBm <b>Phone#:</b> Not Available <b>APN:</b> ne01.VZWStatic <b>Cell Type:</b> Not Applicable <b>Name:</b> VZ22M <b>Carrier:</b> Not Applicable
<b>LAN</b> br-lan	<b>Uptime:</b> 0h 1m 54s <b>MAC-Address:</b> 00:A0:EB:02:4D:A3 <b>Protocol:</b> static <b>RX:</b> 55.19 KB (648 Pkts.) <b>TX:</b> 98.69 KB (583 Pkts.) <b>IPv4:</b> 192.168.10.1/24
<b>WAN</b> eth0	<b>Uptime:</b> 0h 0m 0s <b>MAC-Address:</b> 00:A0:EB:02:4D:A2 <b>Protocol:</b> dhcp <b>RX:</b> 0.00 B (0 Pkts.) <b>TX:</b> 0.00 B (0 Pkts.)

#### Connections

IPv4 WAN Status Not connected

#### DHCP Leases

Hostname	IPv4-Address	MAC-Address	Leasetime remaining
There are no active leases.			


#### MWAN Interface Live Status

**wan (eth0)**  
Offline
**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**

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

### Device Password

Changes the administrator password for accessing the device

Password	•••••
Confirmation	•••••

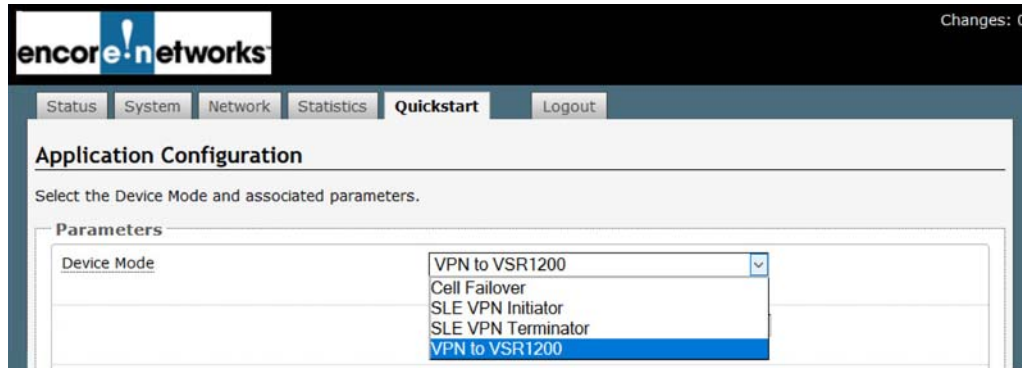
[Reset](#)
[Save](#)
[Save & Apply](#)

**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.)
 

<ul style="list-style-type: none"> <li>• <b>Device Name</b></li> <li>• <b>LAN IP</b></li> <li>• <b>LAN Netmask</b></li> <li>• <b>LAN DHCP Server</b></li> <li>• <b>WAN Protocol</b></li> <li>• <b>DNS Server</b></li> <li>• <b>Local Subnet</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Remote Subnet</b></li> <li>• <b>Remote VPN Gateway</b></li> <li>• <b>User ID</b></li> <li>• <b>Pre-Shared Key</b></li> <li>• <b>Serial Protocol</b></li> <li>• <b>Option Name</b></li> <li>• <b>Serial Remote Address</b></li> </ul>
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  - 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.