

# Configuring Chassis Ports in the EN-4000

The EN-4000 is the newest member of Encore Networks' family of routers. It provides wireless and cabled connections to a local area network (LAN) and to peripheral devices and remote devices.

Follow the procedures in this discussion to configure the EN-4000.

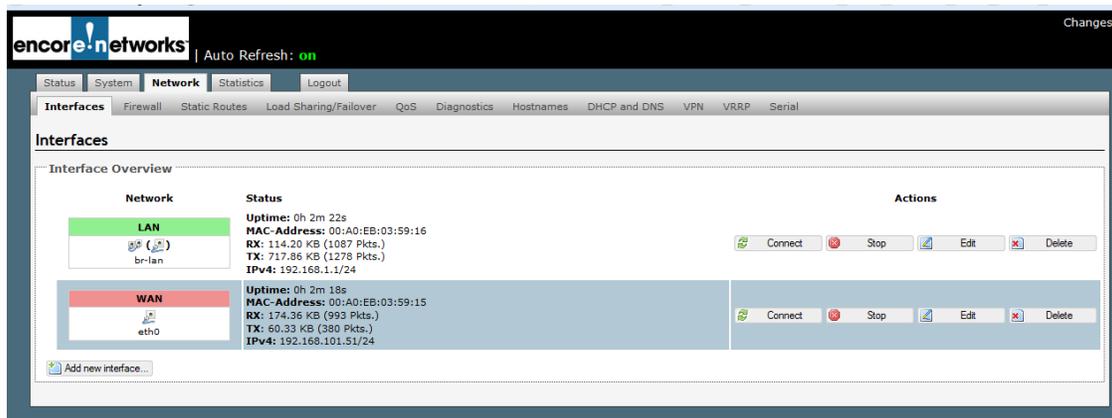
Also see [Configuring the EN-4000's Serial Ports](#).

## 5.1 Port Interfaces

Confer with your network administrator to get values for this configuration.

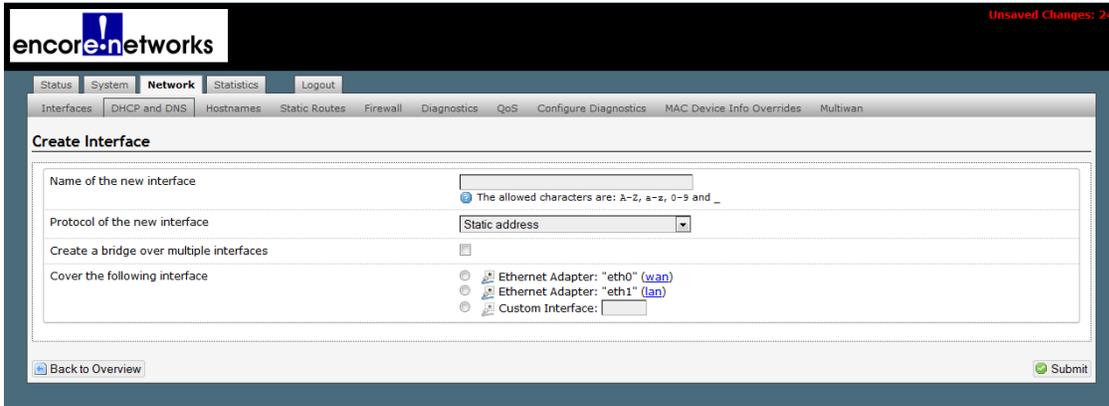
- 1 Select the **Network** management area.
- 2 Select the **Interfaces** configuration area.
  - ❖ The EN-4000 Interface Overview Screen is displayed ([Figure 5-1](#)).

Figure 5-1. EN-4000 Interface Overview Screen



- 3 To define a new interface, select **Add New Interface**.
  - ❖ The Screen to Create an Interface is displayed ([Figure 5-2](#)).

Figure 5-2. Screen to Create an Interface



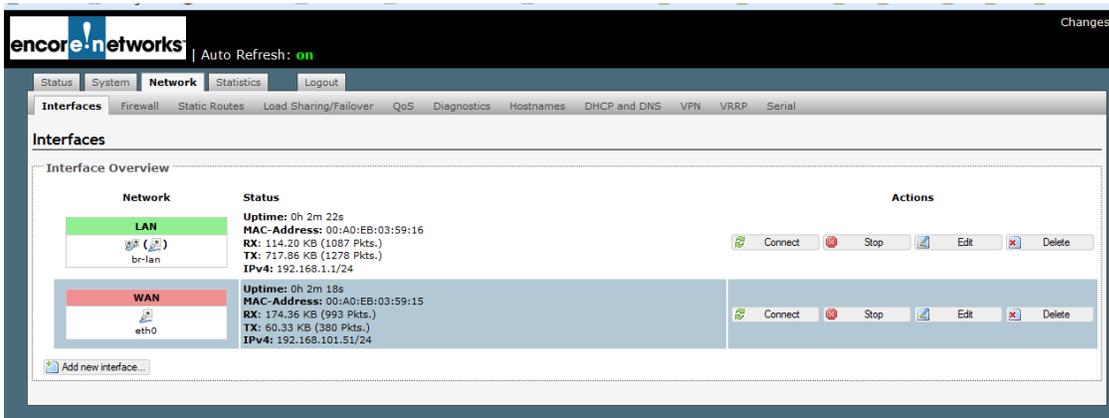
- 4 Fill out the fields on the Screen to Create an Interface.
- 5 Select the **Submit** button (in the lower right corner of the screen) to add the interface.
- 6 Select the **Back to Overview** button (in the lower left corner of the screen) to return to the general network interfaces screen.
  - ❖ The EN-4000 Interface Overview Screen is redisplayed, showing the new interface.

## 5.2 Configuring a LAN Port

Confer with your network administrator to get values for this configuration.

- 1 Select the **Network** management area.
- 2 Select the **Interfaces** configuration area.
  - ❖ The EN-4000 Interface Overview Screen is displayed ([Figure 5-3](#)).

Figure 5-3. EN-4000 Interface Overview Screen



- 3 Select the **Edit** button in the **LAN** interface row.
- 4 If necessary, select the **General Setup** tab.
  - ❖ The LAN Interface General Setup Screen is displayed ([Figure 5-4](#)).

Figure 5-4. LAN Interface General Setup Screen

The screenshot displays the 'LAN Interface General Setup Screen' in the Encore Networks management interface. The interface is divided into several sections:

- Header:** 'encore-networks' logo, 'Auto Refresh: on', and 'Unsaved Changes: 4'.
- Navigation:** 'Status', 'System', 'Network', 'Statistics', 'Logout' tabs. Below these are 'Interfaces', 'DHCP and DNS', 'Hostnames', 'Static Routes', 'Firewall', 'Diagnostics', 'QoS', 'Configure Diagnostics', 'MAC Device Info Overrides', and 'Multiwan'.
- Sub-navigation:** 'WAN' and 'LAN' tabs.
- Section: Interfaces - LAN**
  - Instruction: 'On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANID (e.g.: eth0.1).'
    - Common Configuration:**
      - General Setup | Advanced Settings | Physical Settings | Firewall Settings
      - Status:
        - Uptime: 4d 3h 41m 43s
        - MAC-Address: 00:A0:EB:01:F1:30
        - RX: 27.16 MB (162377 Pkts.)
        - TX: 198.76 MB (202929 Pkts.)
        - IPv4: 192.168.1.1/24
      - Protocol: Static address
      - IPv4 address: 192.168.1.1
      - IPv4 netmask: 255.255.255.0
      - IPv4 gateway: [Empty field]
      - IPv4 broadcast: [Empty field]
      - Use custom DNS servers: [Empty field]
      - Accept router advertisements:
      - Send router solicitations:
      - IPv6 address: [Empty field]
      - IPv6 gateway: [Empty field]
    - DHCP Server:**
      - General Setup | Advanced Settings
      - Ignore interface:  Disable DHCP for this interface.
      - Start: 100 (Lowest leased address as offset from the network address.)
      - Limit: 150 (Maximum number of leased addresses.)
      - Leasetime: 12h (Expiry time of leased addresses, minimum is 2 Minutes (2m).)
  - Footer:** 'Reset', 'Save', and 'Save & Apply' buttons.

- 5 After configuring the fields on the screen (including the **General Setup** items under the **DHCP Server** heading in the lower portion of the screen), select the **Save & Apply** button. Then select the **Advanced Settings** tab under the **DHCP Server** heading.
  - ❖ The LAN Interface DHCP Server Advanced Settings Screen is displayed (Figure 5-5).

Figure 5-5. LAN Interface DHCP Server Advanced Settings Screen

The screenshot shows the 'LAN' interface configuration page for a DHCP server. The page is titled 'Interfaces - LAN' and includes a navigation menu with options like 'Status', 'System', 'Network', 'Statistics', and 'Logout'. The main content area is divided into two sections: 'Common Configuration' and 'DHCP Server'.

**Common Configuration:**

- General Setup:** Includes tabs for 'General Setup', 'Advanced Settings', 'Physical Settings', and 'Firewall Settings'. The 'Advanced Settings' tab is selected.
- Status:** Shows 'Uptime: 4d 3h 41m 43s', 'MAC-Address: 00:A0:EB:01:F1:30', 'RX: 27.16 MB (162377 Pkts.)', 'TX: 198.76 MB (202929 Pkts.)', and 'IPv4: 192.168.1.1/24'.
- Protocol:** Set to 'Static address'.
- IPv4 address:** 192.168.1.1
- IPv4 netmask:** 255.255.255.0
- IPv4 gateway:** (empty field)
- IPv4 broadcast:** (empty field)
- Use custom DNS servers:** (empty field with a plus icon)
- Accept router advertisements:**
- Send router solicitations:**
- IPv6 address:** (empty field)
- IPv6 gateway:** (empty field)

**DHCP Server:**

- General Setup:** Includes tabs for 'General Setup' and 'Advanced Settings'. The 'Advanced Settings' tab is selected.
- Dynamic DHCP:**  Dynamically allocate DHCP addresses for clients. If disabled, only clients having static leases will be served.
- Force:**  Force DHCP on this network even if another server is detected.
- IPv4-Netmask:** (empty field) Override the netmask sent to clients. Normally it is calculated from the subnet that is served.
- DHCP-Options:** (empty field) Define additional DHCP options, for example "6,192.168.2.1,192.168.2.2" which advertises different DNS servers to clients.

At the bottom right, there are three buttons: 'Reset', 'Save', and 'Save & Apply'.

- 6 After configuring the fields for the **Advanced Settings** tab under the **DHCP Server** heading, select the **Save & Apply** button. Then select the **Advanced Settings** tab under the **Common Configuration** heading (in the top portion of the screen).
  - ❖ The LAN Interface Common Configuration Advanced Settings Screen is displayed (Figure 5-6).

Figure 5-6. LAN Interface Common Configuration Advanced Settings Screen

encore networks | Auto Refresh: on | Unsaved Changes: 3

Status System **Network** Statistics Logout

Interfaces Firewall Static Routes Load Sharing/Failover QoS Diagnostics Hostnames DHCP and DNS VPN VRRP Serial

### Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANID (e.g.: eth0.1).

**Common Configuration**

General Setup **Advanced Settings** Physical Settings Firewall Settings

Bring up on boot

Override MAC address

Override MTU

Use gateway metric

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**DHCP Server**

General Setup **Advanced Settings**

Dynamic DHCP  Dynamically allocate DHCP addresses for clients. If disabled, only clients having static leases will be served.

Force  Force DHCP on this network even if another server is detected.

IPv4-Netmask  Override the netmask sent to clients. Normally it is calculated from the subnet that is served.

DHCP-Options  Define additional DHCP options, for example "6,192.168.2.1,192.168.2.2" which advertises different DNS servers to clients.

- 7 After configuring the fields for **Advanced Settings** under the **Common Configuration** heading, select the **Save & Apply** button. Then select the **Physical Settings** tab.

❖ The LAN Interface Physical Settings Screen is displayed (Figure 5-7).

Figure 5-7. LAN Interface Physical Settings Screen

encore networks | Auto Refresh: on | Changes: 0

Status System **Network** Statistics Logout

Interfaces DHCP and DNS Hostnames Static Routes Firewall Diagnostics QoS Configure Diagnostics MAC Device Info Overrides Multiwan

WAN **LAN**

### Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANID (e.g.: eth0.1).

**Common Configuration**

General Setup **Advanced Settings** **Physical Settings** Firewall Settings

Bridge interfaces  creates a bridge over specified interface(s)

Enable STP  Enables the Spanning Tree Protocol on this bridge

Interface  Ethernet Adapter: "eth0" (wan)  
 Ethernet Adapter: "eth1" (lan)  
 Custom Interface:

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**DHCP Server**

General Setup **Advanced Settings**

Ignore interface  Disable DHCP for this interface.

Start  Lowest leased address as offset from the network address.

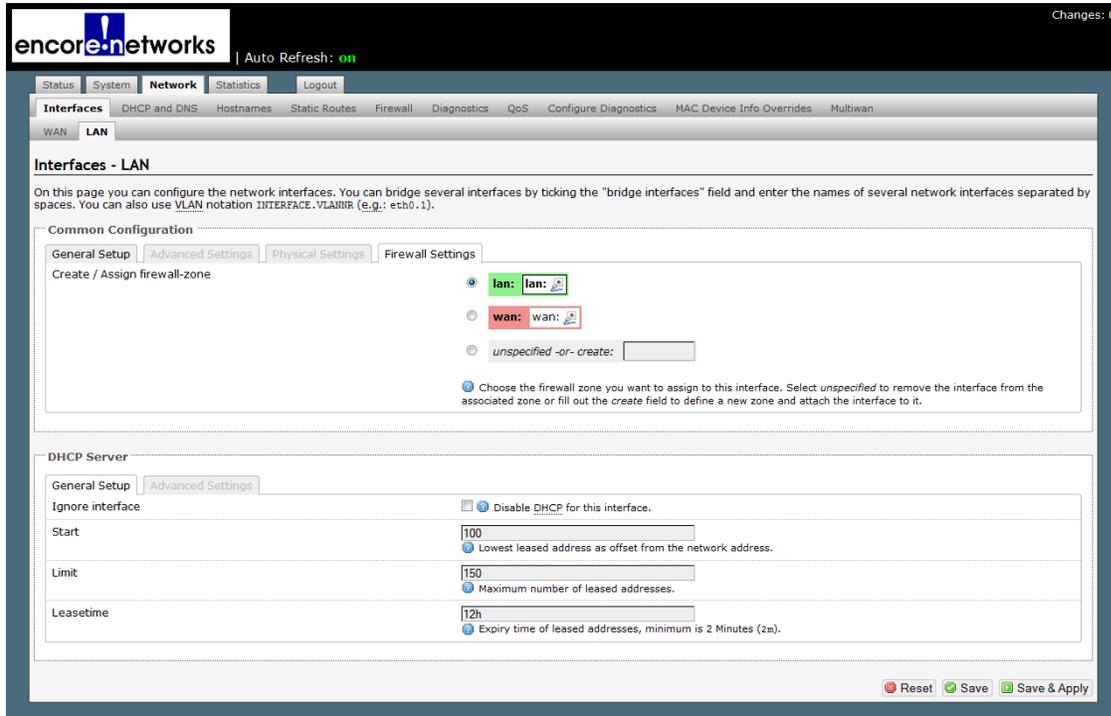
Limit  Maximum number of leased addresses.

Leasetime  Expiry time of leased addresses, minimum is 2 Minutes (2m).

- 8 After configuring the fields on the screen, select the **Save & Apply** button. Then select the **Firewall Settings** tab.

❖ The LAN Interface Firewall Settings Screen is displayed (Figure 5-8).

Figure 5-8. LAN Interface Firewall Settings Screen



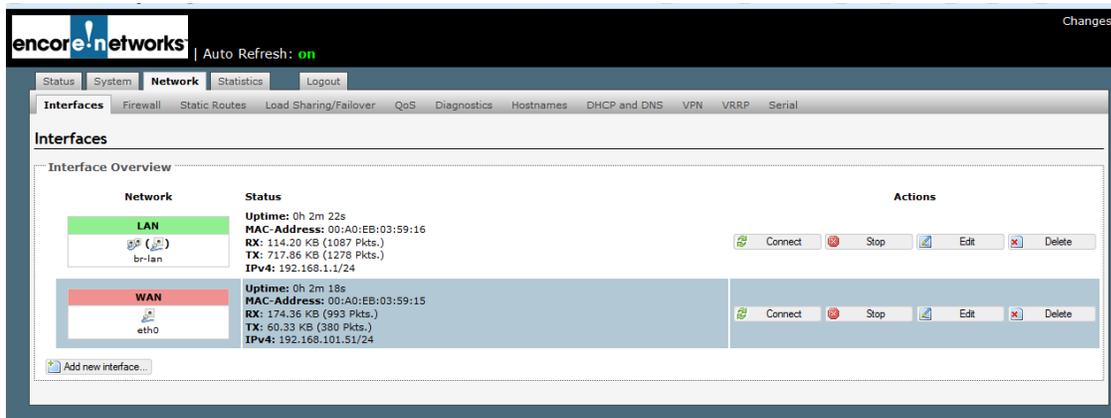
- 9 After configuring the fields on the screen, select the **Save & Apply** button.

## 5.3 Configuring the WAN Port

Confer with your network administrator to get values for this configuration.

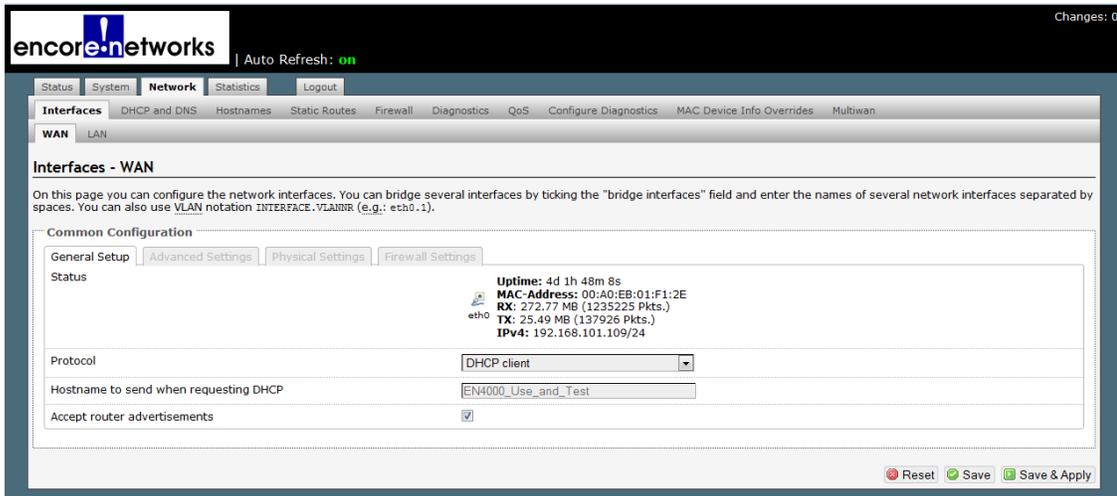
- 1 Select the **Network** management area.
- 2 Select the **Interfaces** configuration area.
  - ❖ The EN-4000 Interface Overview Screen is displayed (Figure 5-9).

Figure 5-9. EN-4000 Interface Overview Screen



- 3 Select the **Edit** button in the **WAN** interface row.
  - ❖ The WAN Interface General Setup Screen is displayed (Figure 5-10).

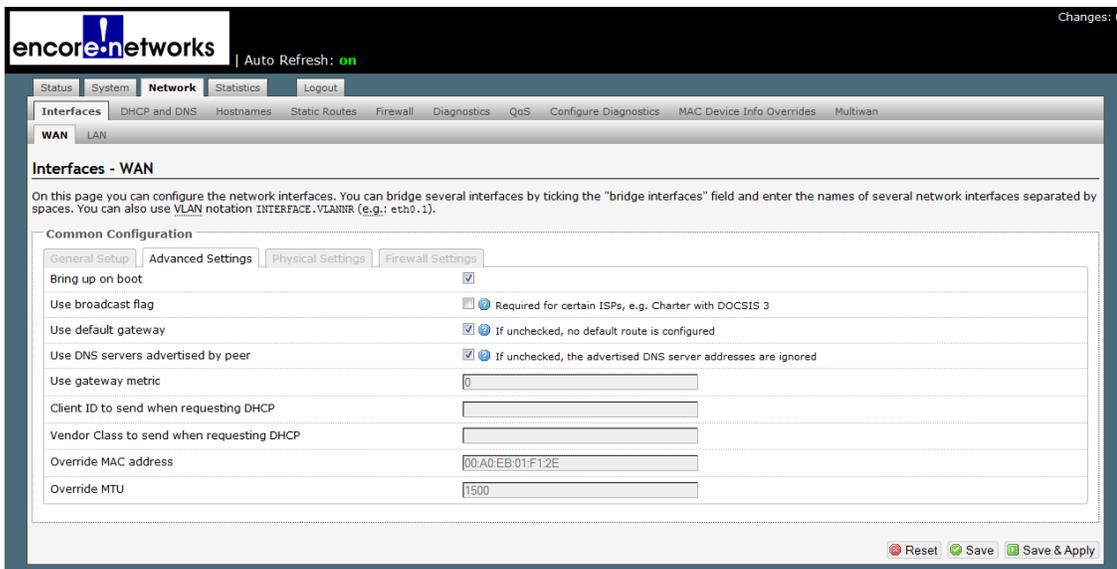
Figure 5-10. WAN Interface General Setup Screen



- 4 After configuring the fields on the screen, select the **Save & Apply** button. Then select the **Advanced Settings** tab.

❖ The WAN Interface Advanced Settings Screen is displayed (Figure 5-11).

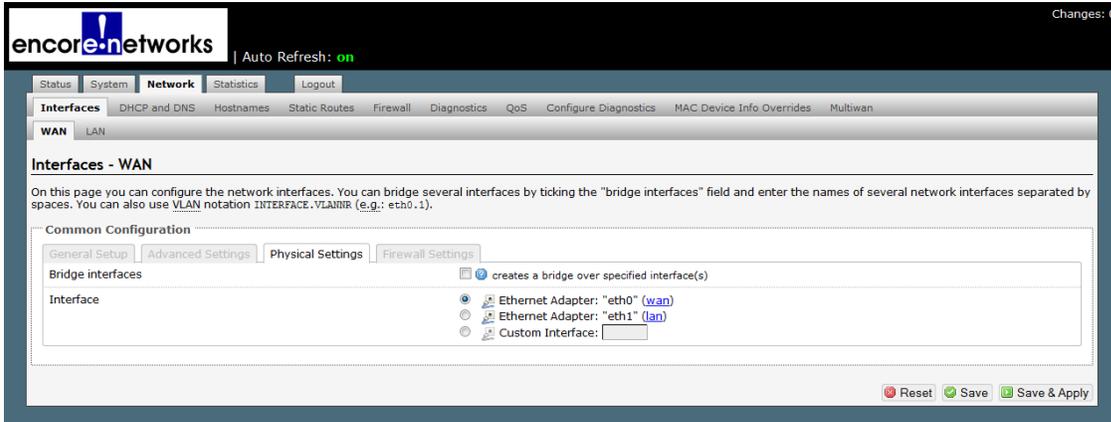
Figure 5-11. WAN Interface Advanced Settings Screen



- 5 After configuring the fields on the screen, select the **Save & Apply** button. Then select the **Physical Settings** tab.

❖ The WAN Interface Physical Settings Screen is displayed (Figure 5-12).

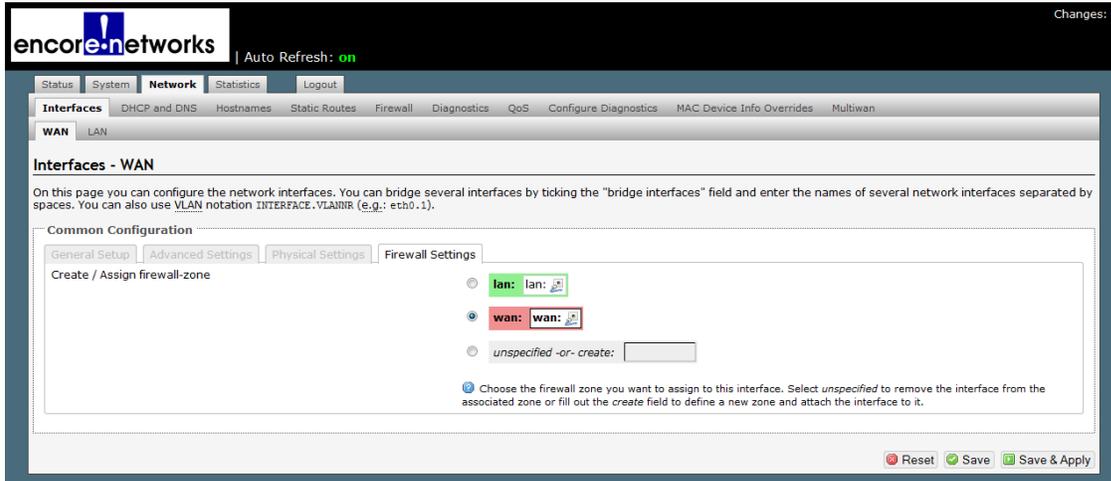
Figure 5-12. WAN Interface Physical Settings Screen



- 6 After configuring the fields on the screen, select the **Save & Apply** button. Then select the **Firewall Settings** tab.

❖ The WAN Interface Firewall Settings Screen is displayed (Figure 5-13).

Figure 5-13. WAN Interface Firewall Settings Screen



- 7 After configuring the fields on the screen, select the **Save & Apply** button.