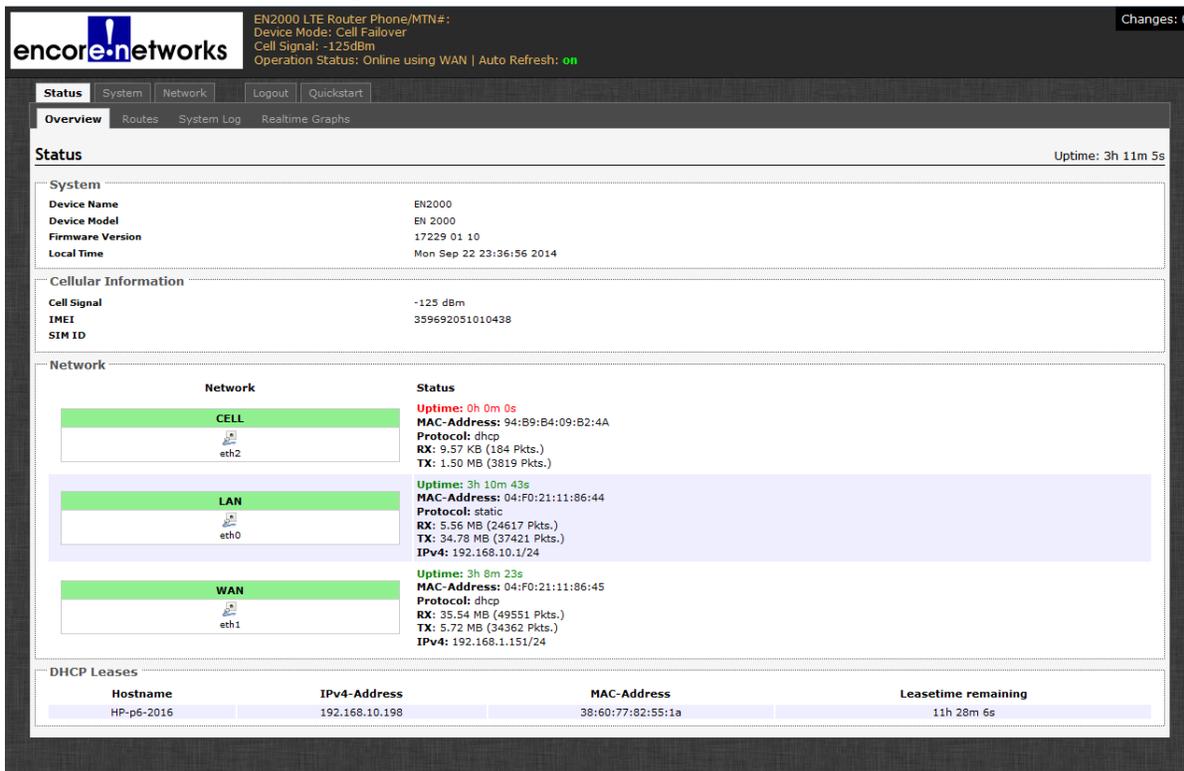


# Configuring Traffic Priority for the EN-2000

The EN-2000 provides wireless and cabled connections to a local area network (LAN), to a wide area network (WAN), and to peripheral devices and remote devices. This document discusses Quality of Service (QoS) settings for traffic priority on the EN-2000.

When you log onto the EN-2000 management system, the EN-2000 Status Overview Screen is displayed (Figure 4-1).

Figure 4-1. EN-2000 Status Overview Screen



The screenshot displays the EN-2000 Status Overview Screen. At the top, it shows the device name (EN2000), device mode (Cell Failover), cell signal (-125dBm), and operation status (Online using WAN). The screen is divided into several sections:

- System:** Device Name: EN2000, Device Model: EN 2000, Firmware Version: 17229 01 10, Local Time: Mon Sep 22 23:36:56 2014.
- Cellular Information:** Cell Signal: -125 dBm, IMEI: 359692051010438, SIM ID.
- Network:**
  - CELL:** Status: Uptime: 0h 0m 0s, MAC-Address: 94:B9:B4:09:B2:4A, Protocol: dhcp, RX: 9.57 KB (184 Pkts.), TX: 1.50 MB (3819 Pkts.).
  - LAN:** Status: Uptime: 2h 10m 43s, MAC-Address: 04:F0:21:11:86:44, Protocol: static, RX: 5.56 MB (24617 Pkts.), TX: 34.78 MB (37421 Pkts.), IPv4: 192.168.10.1/24.
  - WAN:** Status: Uptime: 3h 8m 23s, MAC-Address: 04:F0:21:11:86:45, Protocol: dhcp, RX: 35.54 MB (49551 Pkts.), TX: 5.72 MB (34362 Pkts.), IPv4: 192.168.1.151/24.
- DHCP Leases:**

Hostname	IPv4-Address	MAC-Address	Leasetime remaining
HP-p6-2016	192.168.10.198	38:60:77:82:55:1a	11h 28m 6s

On the screen, select the **Network** tab. Then select the **Advanced** tab, then the **QoS** tab. The Quality of Service Configuration Screen is displayed (Figure 4-2).

Figure 4-2. Quality of Service Configuration Screen

**encore-networks** EN 2000 Phone/MTN#: 12677334030 Device Mode: Cell Failover Changes: 0

Status System **Network** Logout Quickstart

Interfaces Failover Firewall Diagnostics OpenVPN DHCP and DNS VPN VRRP DDNS DMNR EnCloud **Advanced**

Static Routes Hostnames **QoS** V6-PD IPv6 Radvd

### Quality of Service

With QoS you can prioritize network traffic selected by addresses, ports or services.

**Onetalk**

*DEFAULTS*

Enable

**Interfaces**

**WAN**

Enable

Classification group

Calculate overhead

Half-duplex

Download speed (kbit/s)

Upload speed (kbit/s)

**LAN**

Enable

Classification group

Calculate overhead

Half-duplex

Download speed (kbit/s)

Upload speed (kbit/s)

**CELL**

Enable

Classification group

Calculate overhead

Half-duplex

Download speed (kbit/s)

Upload speed (kbit/s)

**Classification Rules**

Target	Source host	Destination host	Service	Protocol	Ports	Number of bytes	Sort
priority	all	all	all	UDP	all		<input type="button" value="↑"/> <input type="button" value="↓"/> <input type="button" value="Delete"/>
normal	all	all	all	all	all		<input type="button" value="↑"/> <input type="button" value="↓"/> <input type="button" value="Delete"/>
express	all	all	all	all	5060,5061		<input type="button" value="↑"/> <input type="button" value="↓"/> <input type="button" value="Delete"/>

Quality of Service is generally configured on the EN-2000's WAN port or on its cellular port. (If the EN-2000 is using connection failover, configure QoS on both those ports. QoS settings may differ for the ports.)

Use the following guidelines to configure Quality of Service for the EN-2000's network traffic.

**Note:** Consult your network administrator for specific values for the parameters.

**1** For each port that will use traffic shaping, do the following:

**a** If a section labeled **Onetalk** is displayed (near the top of the screen in [Figure 4-2](#)), check the box to **Enable** that feature. (The checkbox is displayed only if the EN-2000 holds a Verizon module.)

**Note:** Make sure the box is checked. This option is for Verizon's One Talk application. It gives priority to voice traffic.

**b** Select the checkbox to **Enable** the Quality of Service feature.

**c** Leave the setting for **Classification Group** at **default**.

**d** Select the checkbox to **Calculate Overhead**.

**e** Leave the checkbox for **Half-Duplex** unchecked.

**f** Set the rates for **Download Speed** and **Upload Speed** (in kbps). Consult your network administrator for the download and upload speeds that each connection uses.

**Note:** In the **Classification Rules** table (at the bottom of the screen), the rows listed for **Target** traffic shaping are **priority** traffic, **normal** traffic, and **express** traffic.

**2** Do the following:

**a** Select the **Add** button (below the left column of the table).

❖ The table displays another row (for **low** traffic).

**b** At the end of the row for **express** traffic, under the column for **Sort**, select  (the "up" arrow), so that the rows for **Target** traffic shaping are listed in the order shown below.

- **priority** traffic
- **express** traffic
- **normal** traffic
- **low** traffic

**3** In the table's row for **priority** traffic, do the following:

**a** Under the column **Number of Bytes** (near the end of the row), enter the packet size for the application (in bytes).

**b** If the default value for any other field in the row needs to be adjusted, select the arrow to the right of that field, and do one of the following:

**i** Select the field's new value,

or

**ii** Select **custom** and type the field's new value.

**4** In each row for another type of traffic (**express**, **normal**, and **low**), perform the actions in step 3a and step 3b.

- 5** After values for all the fields on the Quality of Service Configuration Screen have been addressed, do one of the following:
  - a** If you wish to save the configuration and use it immediately, select **Save and Apply**.
  - b** If you wish to save the configuration, for use after the EN-2000 is restarted (but not for immediate use), select **Save**.
  - c** If you wish to discard the configuration, select **Reset**.