How do I configure my Edgewater 200EW 250W AE1 AE2 4550 router for 8x8 service?

The purpose of this article is to provide a sample configuration. At the time of article creation, this device was in a known working state on the firmware used.

Keep in mind different firmware versions will interact with hosted VoIP services in different ways. While this device may be fully functional on the tested and/or current firmware version, it is possible newer revisions will cause disruptions in service or make a device fully compliant with the required settings for hosted VoIP services where it was previously not.

Edgewater 200EW/250W/AE1/AE2/4550 Routers

Note: Wireless capability on 200EW, 250W. Images below are of 250W.

Administrative Information

1. Make sure your router is powered on and connected to your network.
2. In a browser on a computer on the same network as the router, navigate to the following IP address: 192.168.1.1.
3. Log in (default credentials shown below).
   - Username: root
   - Password: default
Tested on firmware version 11.6.16.

Adding/editing 8x8 subnets is recommended when available. Please click here and review the Traffic Shaping and Specific Subnet/Port Configuration section. (Login required.)

Firewall Configuration

1. Go to Security > Firewall.
2. Check the box to Enable Firewall for WAN.
3. Set the HTTP Access Port to 80.
4. Click Submit.

![Firewall Configuration](https://example.com/firewall_config.png)

QoS Configuration

1. Go to Traffic Shaper.
2. Check the box to Enable Traffic Shaping.
3. Enter the approximate upload speed in the PRIMARY WAN Upstream Bandwidth box.
   - For DSL, use 80% of the maximum throughput.
   - For Cable or a dedicated line (T1), use 90% of the maximum throughput.
4. Set the values below for Differentiated Service Code Point (DSCP). Check the box to Enable TOS based Routing.
5. Check the box to Enable SIP Activity Monitor.
6. Set SIP Activity Timeout to 90.
7. Click Submit.
Configure Traffic Shaping for Edgewater Routers

1. In the browser address bar, enter the default IP address: 192.168.1.1
2. Log in with username and password (default: root / default).
3. Select Network to the left in the blue Configuration Menu.
4. Make a selection from one of the WAN Interface IPv4 Settings options:
   - ADSL
   - Ethernet-PPPoE
   - Ethernet-DHCP
   - Ethernet-Static IP
   - Ethernet-VLAN
   - EVDO
5. Enter the DNS servers:
   - Primary DNS Server: 8.8.8.8
   - Secondary DNS Server: 8.8.4.4
6. Submit changes.
7. Select Traffic Shaper to the left in the blue Configuration Menu.
9. Submit changes.
10. Have the customer open an additional tab or window and go to www.speedtest.net.
11. Perform three tests to get an average up/down scores (speed).
12. Multiply average speed by 1000 (up or down, respectively).*
13. Multiply above results by
   - 0.9 for CABLE/T1 (90% of total bandwidth).
   - 0.8 for DSL (80% of total bandwidth; helps conserve some of DSL’s limited bandwidth for other IP
14. After you get your final results, go back to Traffic Shaping and enable the **Traffic Shaper**.

15. Place the final results in the **PRIMARY WAN Upstream Bandwidth** and the **PRIMARY WAN Downstream Bandwidth** boxes, respectively.

16. **Submit changes.**

*(Edgewater routers ask for Kbps, while speedtest.net gives Mbps. 1 Mbps = 1000 Kbps.)*

**Advanced Traffic Shaping**

1. Go to **Traffic Shaper > Advanced.**
2. Click **Classes of Service.**
3. Create the classes of service below. Set the values below for **Priority Class** and **Bandwidth Percentage**.
4. Click **Add** when you are done with each set of traffic configurations.

5. In the **Advanced Traffic Shaping** screen, click **Classification Rules.**
6. Configure port settings. These may be found in the **Traffic Shaping and Specific Subnet/Port Configuration** section of this article.
7. Click **Commit** when you are finished creating each rule.
Confirm that the changes went through

Click Traffic Shaper > Advanced > Classification Rules. If you do not see any ports, then the router needs to be set up with our ports.

Follow this guide to upload the config file, which will automatically place all these ports in for you.