Example - Traffic Shaping for WAN Connections

https://campus.barracuda.com/doc/17529/

This article provides information on how to apply the default traffic shaping scheme to a new interface and how to add the basic QoS profile to a static and a dynamic ISP link.

The steps in this article use the following example settings:

ISP 1		ISP 2 (dynamic)		Firewall Rule	
Port	eth1	**Port**	dhcp	**Name**	LAN-2-INTERNET
Traffic Outbound Rate	10 Mbit/Sec	**Traffic Outbound Rate**	2 Mbit/Sec	**Service**	HTTPS
Traffic Inbound Rate	10 Mbit/Sec	**Traffic Inbound Rate**	2 Mbit/Sec		

Step 1. Create a New Interface

To create a new interface and assign it to the default Basic profile, complete the following steps.

1. Go to **CONFIGURATION > Configuration Tree > Box > Traffic Shaping**.
2. Click **Lock**.
3. In the **Interface** section, right-click and select **Add new Interface**.
4. In the **Interface Tree Mapping** window, set the following settings:

Setting	Description
Interface	The name of the interface. For example, enter *eth1* for ISP 1 and *dhcp* for ISP 2. To apply traffic shaping, select or enter your specific port name as it is listed on the **CONTROL** > **Network** page. For dial-up connections like xDSL, ISDN, or Wireless WAN, you must enter the correct port name in order to apply traffic shaping that uses dynamic IP addresses. For example, if your xDSL port is listed as **xDSL(ppp1),** enter *ppp1* in the **Interface** field.
Assigned Profile	The QoS profile to assign to this interface. For example, *Default*.
Rate	In this section, select *Enable Shaping* and specify limits for the **Outbound** and **Inbound** bandwidth settings. For example, enter *10 Mbit/Sec* as the bandwidth limits for ISP 1 and *2 Mbit/Sec* as the bandwidth limits for ISP 2.

5. Click **OK**.
6. Click **Send Changes** and **Activate**.

For advanced options, see How to Create a QoS Profile.

Step 2. Apply the QoS Band to a Firewall Rule

Select the QoS Band in the **Policy** settings of an access or application rule.

1. Go to **CONFIGURATION > Configuration Tree > Box > Assigned Services > Firewall > Forwarding Rules**.
2. Click **Lock**.
3. Create or double-click the access or application rule to which you are applying the QoS Band. For example, *LAN-2-INTERNET-https*.
   - To apply the QoS Band to an access rule:
     - Select the QoS Band from the **QoS Band (Fwd)** and **QoS Band (Reply)** list in the **Policy** section. For example, *Background*.
       > The outbound and inbound rate of a virtual interface is ignored when the **QoS Band** policy in the corresponding access rule is set to **No-Shaping**.
   - To apply the QoS Band to an application rule:
     - Select the **Change QoS Band (Fwd)** check box in the **Policy** section and select the QoS Band from the list .
4. Click **OK**.
5. Click **Send Changes** and **Activate**.

On the **FIREWALL > Live** page, verify that the correct QoS Band was applied to your session.