

## How to Create and Apply QoS Bands

<https://campus.barracuda.com/doc/79463014/>

To make traffic shaping settings connectible with the forwarding firewall ruleset, you must apply an existing or new QoS Band. To configure a new QoS Band, proceed as follows:

### Step 1. Create a QoS Band

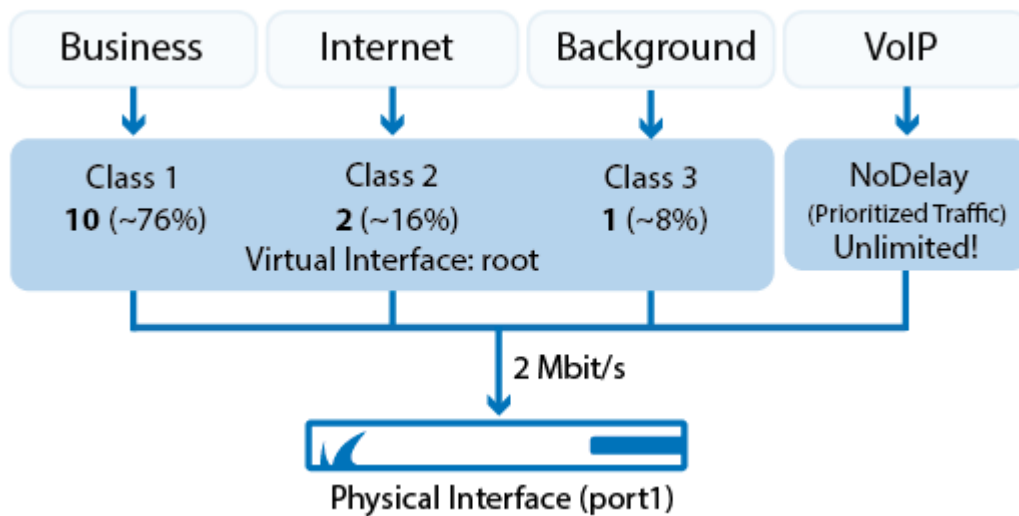
To create a new QoS band, complete the following steps:

1. Go to **CONFIGURATION > Configuration Tree > Box > Traffic Shaping**.
2. Click **Lock**.
3. Click the **QoS Band** tab.
4. Right-click the **QoS Band** table and select **Add new QoS Band**.
5. In the **Name** field, enter a descriptive name. (The **ID** field specifies the index number of the new QoS band.)
6. Click **OK**.
7. In the **QoS Band Rule** window, you can edit the following settings to specify the priority, interface, and conditions for traffic that is handled by the QoS band:

Setting	Description
<b>Priority</b>	From this list, select the priority class that is assigned to data packets that are handled by the QoS band.
<b>Virtual Device</b>	From this list, select the virtual interface into which the data packets will be fed, should this rule apply.
<b>TOS</b>	To specify a value that must be matched by the TOS in the IP header, select this check box.
<b>Traffic Limit</b>	To specify a data limit that must not be exceeded by network sessions, select this check box.
<b>Time Period</b>	To specify specific dates and times during which this rule can be applied, select this check box.
<b>Weekday/Hour</b>	To specify specific weekdays and times during which this rule can be applied, select this check box.

8. Click **OK**.
9. Click **Send Changes** and **Activate**.

### Example Scenario



## Step 2. Apply the QoS Band to a Firewall Rule

To apply traffic shaping to an access or application rule, complete the following steps:

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*.
  - 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**.

You can also apply traffic shaping settings to multiple rules. In the rule editor window for the rules, specify the following settings:

- In the **Rule Settings** section, configure the **Forward Band** and **Reverse Band** settings.
- In the **TCP Policy** section, configure the **Syn Flood Protection** setting.

For more information, see [How to Edit, Copy, Clone, Deactivate, or Delete Access Rules](#).

## **Applying Traffic Shaping to VPN Tunnels**

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You can implement traffic shaping with VPN. For more information, see [How to Apply Traffic Shaping to a VPN Tunnel](#).

## Figures

1. qos\_scheme.png

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