

How to Enable Rate Limiting on 4700A/AZ

Summary

BEC 4700A/AZ has an ability to control the amount of incoming and outgoing traffic to or from a network. In the QoS setting, you can control the upload and download traffic of each application from LAN to WAN or WAN to LAN. This is useful when the certain types of data you want to give higher priority to, such as voice data has higher priority than the web data. In the note, you will learn how to enable the rate limiting on 4700A/AZ.

Configuration

Step 1: Log into router's Web GUI page

Step 2: Click on the **Configuration / Advanced Setup / QoS**

Configuration

Quality of Service

SW QoS *1 Activated Deactivated

Bandwidth Limitation

LAN to WAN Bandwidth 100 Mbps

WAN to LAN EWAN(LAN1) Bandwidth 100 Mbps
4G/LTE Bandwidth 100 Mbps

Specify Bandwidth Limitation
Specify LAN Host Bandwidth

SW QoS Rule

Rule Index 1

Application

Direction LAN to WAN WAN Interface ALL

QoS Type Limited(Maximum) Priority High

Bandwidth Type Share Bandwidth Bandwidth per Host

Bandwidth Mbps DSCP Marking Disable

Protocol Any

Internal IP Address 0.0.0.0 ~ 0.0.0.0 *2 Internal Port 0 ~ 0 *3

External IP Address 0.0.0.0 ~ 0.0.0.0 *2 External Port 0 ~ 0 *3

Quality of Service

SW QoS *1 Activated Deactivated

Bandwidth Limitation

LAN to WAN Bandwidth 100 Mbps

WAN to LAN EWAN Bandwidth 100 Mbps

[Specify Bandwidth Limitation](#)

[Specify LAN Host Bandwidth](#)

SW QoS: Select **Activate** to enable the feature.

Bandwidth Limitation

LAN to WAN: Display maximum upstream bandwidth. Default is 100Mbps.

WAN to LAN: Display maximum downstream bandwidth. Default is 100Mbps.

Specify Bandwidth Limitation

- **LAN to WAN:** Enter the maximum upstream bandwidth you wish to.
- **WAN to LAN:** Enter the maximum downstream bandwidth you wish to.

Click **Save** to save the setting.

Bandwidth Limitation

LAN to WAN Bandwidth 50 Mbps

WAN to LAN EWAN(LAN1) Bandwidth 50 Mbps

4G/LTE Bandwidth 50 Mbps

[Save](#) [Back](#)

Specify LAN Host Bandwidth: Allow specific LAN device(S) to have specific bandwidth.

- **Index:** The rule indicator for identifying each host device. The rule is up to 32.
- **MAC Address:** Enter the host's MAC address in **ab:cd:ef:12:34:56** format.
- **Upload / Download:** Enter maximum available upload and download bandwidth for device.

Click **Save** to apply settings.

LAN Host Bandwidth

Rule Index 1

MAC Address ab:cd:ef:12:34:56

Upload 25 Mbps Download 25 Mbps

[Save](#) [Delete](#) [Back](#)

LAN Host Bandwidth Listing

Index	MAC Address	Upload Bandwidth	Download Bandwidth
1	ab:cd:ef:12:34:56	25.0	25.0

QoS Rule

SW QoS Rule

Rule Index: 1

Application: []

Direction: LAN to WAN | WAN Interface: ALL

QoS Type: Limited(Maximum) | Priority: High

Bandwidth Type: Share Bandwidth Bandwidth per Host

Bandwidth: [] Mbps | DSCP Marking: Disable

Protocol: Any

Internal IP Address: 0.0.0.0 ~ 0.0.0.0 *2 | Internal Port: 0 ~ 0 *3

External IP Address: 0.0.0.0 ~ 0.0.0.0 *2 | External Port: 0 ~ 0 *3

Note *1 : The hardware acceleration of packet processing will be disable if active SW QoS.

Note *2 : 0.0.0.0 ~ 0.0.0.0 means all IPs

Note *3 : 0 ~ 0 means all Ports

[Save] [Delete]

QoS Control Listing

Index	Application	Direction	QoS Type	Bandwidth	WAN Interface
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Rule Index: Index marking for each rule up to 16 rules

Application: Assign a name for the application rule.

Direction: Shows the direction mode of the application. LAN to WAN or WAN to LAN.

QoS Type: Choose Limited or Guaranteed to specify the data rate is allowed.

- **Priority:** Set the priority for application. The default is set to high. You may adjust to fit your application.

Bandwidth Type:

- **Share Bandwidth:** Select to share the available bandwidth with other devices in the network.
- **Bandwidth per Host:** Select to have same bandwidth for each host in the network.

Bandwidth: Specify the rate in Mbps.

- **DSCP Marking:** Differentiated Services Code Point (DSCP), it is the first 6 bits in the ToS byte. It allows users to classify the traffic of the application to be executed according to the DSCP value. Disable is a default setting.

Protocol: Select a protocol from the drop-down list.

Internal IP Address: The IP address values for local LAN devices you want to give control.

- **Internal Port:** The port number on the LAN side, it is used to identify an application.

External IP Address: The IP address on remote / WAN side.

- **External Port:** The port number on the remote / WAN side.

Click **Save** to apply settings.

To Remove a Policy: Simply select the index then hit the **Delete** button to remove from the list.