

Limiting Broadcast, Multicast, and Unknown Unicast Traffic (BUM)

Brocade devices can forward all flooded traffic at wire speed within a VLAN. However, some third-party networking devices cannot handle high rates of broadcast, multicast, or unknown-unicast traffic. If high rates of traffic are being received by the Brocade device on a given port of that VLAN, you can limit the number of broadcast, multicast, or unknown-unicast packets or bytes received each second on that port. This can help to control the number of such packets or bytes that are flooded on the VLAN to other devices.

To enable broadcast limiting on a group of ports by counting the number of bytes received, enter commands such as the following:

```
Device(config)# interface ethernet 1/1/1 to 1/1/8
Device(config-mif-e1000-1/1/1-1/1/8)# broadcast limit 8192
```

To include unknown-unicast limiting, enter the unknown-unicast limit command after enabling broadcast limiting.

```
Device(config-mif-e1000-1/1/1-1/1/8)# unknown-unicast limit
```

To include multicast limiting, enter the multicast limit command after enabling broadcast limiting.

```
Device(config-mif-e1000-1-8)# multicast limit
```

Syntax: [no] broadcast limit *num*

Syntax: [no] multicast limit

Syntax: [no] unknown-unicast limit

The *num* value specifies the maximum number of Kilobytes per second. It can be any number that is a multiple of 8192, up to a maximum value of 2147418112. If you enter the **multicast limit** or **unknown-unicast limit** command, multicast or unknown-unicast packets are included in the corresponding limit. If you specify 0, limiting is disabled. If you specify a number that is not a multiple of 8192, the software rounds the number to the next multiple of 8192. Limiting is disabled by default.

Use the **show run interface** command to display the broadcast, multicast, or unknown-unicast limits configured on the device.

Use the **show rate-limit broadcast** command to display the broadcast limit or broadcast and multicast limit for each port to which it applies.

```
Device# show rate-limit broadcast
Broadcast/Multicast/Unknown Unicast Limit Settings:
Port      Limit   Packets/Bytes  Packet Type(s)
1/1/1     65536   Packets        Broadcast + Multicast + Unknown Unicast
1/1/2     65536   Packets        Broadcast + Multicast + Unknown Unicast
1/1/3     65536   Packets        Broadcast + Multicast + Unknown Unicast
1/1/4     65536   Packets        Broadcast + Multicast + Unknown Unicast
```