B Commands

This chapter describes the Cisco NX-OS Ethernet and virtual Ethernet commands that begin with B.

bandwidth (interface)

To set the inherited and received bandwidth values for an interface, use the **bandwidth** command. To restore the default values, use the **no** form of this command.

bandwidth {*kbps* | **inherit** [*kbps*]}

no bandwidth {*kbps* | **inherit** [*kbps*]}

Syntax Description

kbps	Informational bandwidth in kilobits per second. Valid values are from 1 to 10000000.
inherit	(Optional) Specifies that the bandwidth be inherited from the parent interface.

Command Default

1000000 kbps

Command Modes

Interface configuration mode
Subinterface configuration mode

Command History

Release	Modification
6.0(2)N1(1)	This command we introduced.

Usage Guidelines

The **bandwidth** command sets an informational parameter to communicate only the current bandwidth to the higher-level protocols; you cannot adjust the actual bandwidth of an interface using this command.

The **bandwidth inherit** command controls how a subinterface inherits the bandwidth of its main interface.

The **no bandwidth inherit** command enables all subinterfaces to inherit the default bandwidth of the main interface, regardless of the configured bandwidth. If a bandwidth is not configured on a subinterface, and you use the **bandwidth inherit** command, all subinterfaces will inherit the current bandwidth of the main interface. If you configure a new bandwidth on the main interface, all subinterfaces will use this new value.

If you do not configure a bandwidth on the subinterface and you configure the bandwidth inherit command on the main interface, the subinterfaces will inherit the specified bandwidth.

In all cases, if an interface has an explicit bandwidth setting configured, then that interface will use that setting, regardless of whether the bandwidth inheritance setting is in effect.

Examples

This example shows how to configure the badwidth for a Layer 2 interface:

```
switch(config)# interface ethernet 1/5
switch(config-if)# bandwidth 1000
switch(config-if)#
```

This example shows how to configure subinterfaces to inherit the bandwidth from the parent routed interface:

```
switch(config)# interface ethernet 1/5
switch(config-if)# no switchport
switch(config-if)# bandwidth inherit 30000
switch(config-if)# interface ethernet 1/1.1
switch(config-subif)#
```

Related Commands

Command	Description
show interface	Displays the interface configuration information.

beacon (interface)

To turn on the beacon LED for a port of an interface, use the **beacon** command. To turn off the beacon LED for the interface, use the **no** form of this command.

beacon

no beacon

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Interface configuration mode

Command History

Release	Modification
6.0(2)N1(1)	This command we introduced.

Usage Guidelines

Use the **beacon** command to toggle the port LED of an interface to easily identify each time a beacon is sent to check for pending packets on the interface.

Examples

This example shows how to turn on the locator beacon LED for a specific interface:

```
switch(config)# interface ethernet 2/1
switch(config-if)# beacon
```

This example shows how to turn off the locator beacon LED for a specific interface:

```
switch(config)# interface ethernet 2/1
switch(config-if)# no beacon
```

Related Commands

Command	Description
show interface	Displays configuration information for an interface.

bind (virtual Ethernet interface)

To bind an interface to a virtual Ethernet interface, use the **bind** command. To remove the binding of an interface, use the **no** form of this command.

bind interface ethernet *slot*/[*QSFP-module*/]*port* **channel** *number*

no bind interface ethernet *slot*/[*QSFP-module*/]*port* **channel** *number*

Syntax Description

interface ethernet	Specifies that the virtual Ethernet interface be bound to a specified Ethernet interface.
slot/[*QSFP-module*/]*port*	Ethernet interface slot number and port number. The *slot* number is from 1 to 255. The *QSFP-module* number is from 1 to 199. The *port* number is from 1 to 128.
channel	Specifies that the virtual Ethernet interface be bound to a specified EtherChannel interface.
number	EtherChannel number. The range is from 1 to 65535.

Command Default

Disabled

Command Modes

Virtual Ethernet interface configuration mode

Command History

Release	Modification
6.0(2)N1(1)	This command we introduced.

Examples

This example shows how to bind a virtual Ethernet interface 10 to an Ethernet interface:

```
switch(config)# interface vethernet 10
switch(config-if)# bind interface ethernet 1/1 channel 101
switch(config-if)#
```

Related Commands

Command	Description
interface vethernet	Configures a virtual Ethernet interface.
show interface ethernet	Displays information about Ethernet interfaces.
show interface vethernet	Displays the specified virtual Ethernet interface, attributes, and status.
show running-config interface	Displays the running configuration of an interface.