



VLAN Configuration Mode Commands

The VLAN Configuration Mode is used to create and manage Virtual LANs and their bindings with contexts.

Command Modes

Exec > Global Configuration > Port Configuration > VLAN Configuration

configure > port ethernet slot_number/port_number > vlan vlan_tag_id

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-port-slot_number/port_number-vlan-vlan-id) #
```



Important

Available commands or keywords/variables vary based on platform type, product version, and installed license(s).

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bind interface

Associates a VLAN interface with a context.

Product

HA
HSGW
PDSN
P-GW
SAEGW
SGSN

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Port Configuration > VLAN Configuration

configure > port ethernet *slot_number/port_number* > **vlan** *vlan_tag_id*

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-port-slot_number/port_number-vlan-vlan-id) #
```

Syntax Description**[no] bind interface** *interface_name context_name***no**

Disassociates the VLAN interface from the context.

interface_name context_name

Specifies the name of the virtual interface and the context to which it will be bound.

interface_name must be an alphanumeric string of 1 through 79 characters.*context_name* must refer to a previously configured context expressed as an alphanumeric string of 1 through 79 characters.**Usage Guidelines**

Bind a VLAN interface to a context to support VLAN service.

Example

```
bind interface sampleVirtual sampleContext
no bind interface sampleVirtual sampleContext
```

do show

Executes all **show** commands while in Configuration mode.**Product**

All

Privilege

Security Administrator, Administrator

Syntax Description**do show****Usage Guidelines**Use this command to run all Exec mode **show** commands while in Configuration mode. It is not necessary to exit the Config mode to run a **show** command.

The pipe character | is only available if the command is valid in the Exec mode.

**Caution**

There are some Exec mode **show** commands which are too resource intensive to run from Config mode. These include: **do show support collection**, **do show support details**, **do show support record** and **do show support summary**. If there is a restriction on a specific **show** command, the following error message is displayed:

```
Failure: Cannot execute 'do show support' command from Config mode.
```

end

Exits the current configuration mode and returns to the Exec mode.

Product

All

Privilege

Security Administrator, Administrator

Syntax Description**end****Usage Guidelines**

Use this command to return to the Exec mode.

exit

Exits the current mode and returns to the parent configuration mode.

Product

All

Privilege

Security Administrator, Administrator

Syntax Description**exit****Usage Guidelines**

Use this command to return to the parent configuration mode.

ingress-mode

Enables or disables port ingress (incoming) mode for this VLAN ID on this port.

Product

HA
HSGW
PDSN
P-GW
SAEGW
SGSN

Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Port Configuration > VLAN Configuration configure > port ethernet slot_number/port_number > vlan vlan_tag_id Entering the above command sequence results in the following prompt: <pre>[local]host_name(config-port-slot_number/port_number-vlan-vlan-id) #</pre>
Syntax Description	[no] ingress-mode no Disables the port ingress mode.
Usage Guidelines	Use this command to enable or disable the VLAN ingress mode for this port. Example ingress-mode

priority

Sets the 802.1p VLAN priority bit.

Product	All
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Port Configuration > VLAN Configuration configure > port ethernet slot_number/port_number > vlan vlan_tag_id Entering the above command sequence results in the following prompt: <pre>[local]host_name(config-port-slot_number/port_number-vlan-vlan-id) #</pre>
Syntax Description	priority value no priority no Disables the setting of the 802.1p priority bit. value Sets the value of the 802.1p priority bit as an integer from 0 through 7, with 7 being the highest priority.
Usage Guidelines	Set a value for the VLAN priority bit.

Example

To set a VLAN priority bit value, use the following command:

```
priority 3
```

To disable the use of a VLAN priority bit, use the following command:

```
no priority
```

shutdown

Disables or enables traffic over this VLAN.

Product

HA
HSGW
PDSN
P-GW
SAEGW
SGSN

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Port Configuration > VLAN Configuration

```
configure > port ethernet slot_number/port_number > vlan vlan_tag_id
```

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-port-slot_number/port_number-vlan-vlan-id)#
```

Syntax Description

```
[ no ] shutdown
```

no

Enables the VLAN. When omitted the VLAN is shutdown.

Usage Guidelines

Shut down a VLAN.

To bring a VLAN into service, execute this command using the **no** keyword.

Example

To disable a VLAN from sending or receiving network traffic use the following command:

```
shutdown
```

To enable a VLAN use the following command:

```
no shutdown
```

vlan-map

Associates an IP interface having a VLAN ID with a context.

Product

HA
HSGW
PDSN
P-GW
SAEGW
SGSN

Privilege

Security Administrator, Administrator

Command Modes

Exec > Global Configuration > Port Configuration > VLAN Configuration

configure > port ethernet slot_number/port_number > vlan vlan_tag_id

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-port-slot_number/port_number-vlan-vlan-id)#
```

Syntax Description

vlan-map interface *if_name context_name*

interface *if_name context_name*

Associates the specified VLAN interface with a context.

if_name is an existing interface name specified as an alphanumeric string of 1 through 79 characters.

context_name is an existing context name specified as an alphanumeric string of 1 through 79 characters.

Usage Guidelines

Use **vlan-map** to associate multiple VLAN interfaces with a single context. This feature is used in conjunction with nexthop forwarding and overlapping IP pools.

Example

```
vlan-map interface vlan234 ingress
```