

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 Availabe 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

Disasscoiates 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 suport 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:

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

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:

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

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

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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 exisitng interface name specified as an alphanumeric string of 1 through 79 characters.

context_name is an exisitng 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
```