



## VLAN Configuration Mode Commands

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

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### 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) #
```



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### 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.

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## Product

HA  
HSGW  
PDSN  
P-GW  
SAEGW  
SGSN

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## Privilege

Security Administrator, Administrator

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## 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.

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## 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.

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**Product**

All

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**Privilege**

Security Administrator, Administrator

---

**Syntax Description**

**do show**

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**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.



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**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.

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**Product** All

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**Privilege** Security Administrator, Administrator

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**Syntax Description** `end`

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**Usage Guidelines** Use this command to return to the Exec mode.

# exit

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

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**Product**

All

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**Privilege**

Security Administrator, Administrator

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**Syntax Description**

**exit**

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**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.

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## 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.

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## 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.

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**Product**

All

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**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.

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## 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.

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**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
```

