



## 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

<b>Privilege</b>	Security Administrator, Administrator
<b>Command Modes</b>	Exec > Global Configuration > Port Configuration > VLAN Configuration <b>configure &gt; port ethernet</b> <i>slot_number/port_number</i> > <b>vlan</b> <i>vlan_tag_id</i> Entering the above command sequence results in the following prompt: <pre>[local]host_name(config-port-slot_number/port_number-vlan-vlan-id) #</pre>
<b>Syntax Description</b>	<b>[ no ] bind interface</b> <i>interface_name context_name</i>  <b>no</b> Disassociates the VLAN interface from the context.  <b><i>interface_name context_name</i></b> Specifies the name of the virtual interface and the context to which it will be bound. <i>interface_name</i> must be an alphanumeric string of 1 through 79 characters. <i>context_name</i> must refer to a previously configured context expressed as an alphanumeric string of 1 through 79 characters.
<b>Usage Guidelines</b>	Bind a VLAN interface to a context to support VLAN service.
	<b>Example</b> <pre>bind interface sampleVirtual sampleContext no bind interface sampleVirtual sampleContext</pre>

## do show

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

<b>Product</b>	All
<b>Privilege</b>	Security Administrator, Administrator
<b>Syntax Description</b>	<b>do show</b>
<b>Usage Guidelines</b>	Use this command to run all Exec mode <b>show</b> commands while in Configuration mode. It is not necessary to exit the Config mode to run a <b>show</b> 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.

<b>Product</b>	All
<b>Privilege</b>	Security Administrator, Administrator
<b>Syntax Description</b>	<b>end</b>
<b>Usage Guidelines</b>	Use this command to return to the Exec mode.

## exit

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

<b>Product</b>	All
<b>Privilege</b>	Security Administrator, Administrator
<b>Syntax Description</b>	<b>exit</b>
<b>Usage Guidelines</b>	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.

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

## priority

Sets the 802.1p VLAN priority bit.

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

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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) #
```

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## 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
```