



## GVRP Configuration Commands

As our products undergo continuous development the specifications are subject to change without prior notice.

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## Chapter 1 GVRP Configuration Commands

### 1.1 GVRP Configuration Commands

#### 1.1.1 GVRP

##### Syntax

To enable GVRP globally on a device and on an interface, use the **gvrp** command.  
To disable GVRP, use the no form of this command.

**gvrp**  
**no gvrp**

##### Parameter

None

##### Default

GVRP is disabled globally.  
GVRP is enabled on each interface.

##### Usage Guidelines

GVRP can be enabled globally or on an interface in the system, and GVRP is not enabled until both of them are enabled.

##### Example

The following example configures global gvrp on the device and interfaces:

```
Switch_config#gvrp
```

```
Switch_config#
```

The following example enables gvrp on interface 1:

```
Switch_config_g0/1#gvrp
```

```
Switch_config_g0/1#
```

#### 1.1.2 gvrp dynamic-vlan-pruning

##### Syntax

**gvrp dynamic-vlan-pruning**

**no gvrp dynamic-vlan-pruning**

To set the dynamic VLAN only takes effect on the registered interface, run the first one of the above commands. To return to the default setting, use the no form of this command.

### Parameter

None

### Default

Dynamic-vlan-pruning is disabled. That is, dynamic VLAN can take effect in all interfaces.

### Command Mode

Global configuration mode

### Usage Guidelines

After this command is enabled and, if a port has not registered a dynamic VLAN, this port will not belong to the dynamic VLAN even though this port is a trunk port and it allows the dynamic VLAN to pass through.

### Example

The following example shows how to make dynamic VLAN validate on its registered port.

```
Switch_config#gvrp dynamic-vlan-pruning
```

```
Switch_config#
```

## 1.1.3 Show gvrp statistics

### Syntax

To show gvrp statistics, use the show gvrp statistics command.

**show gvrp statistics** [interface *intf-id*]

### Parameter

Parameter	Description
<i>intf-id</i>	The concrete physical interface

### Default

None

### Usage Guidelines

Show GVRP statistics.

### Example

The following example show GVRP statistics of port g0/1:

```
Switch_config#show gvrp statistics interface g0/1
```

```
GVRP statistics on port g0/1
```

```
    GVRP Status      : Enabled
```

```
    GVRP Frames Received : 0
```

```
    GVRP Frames Transmitted : 20
```

```
    GVRP Frames Discarded : 0
```

```
    GVRP Last Pdu Origin  : 0000.0000.0000
```

#### 1.1.4 Show gvrp status

### Syntax

To show GVRP status information, use **show gvrp status** command.

**show gvrp status**

### Parameter

None

### Default

None

### Usage Guidelines

Show GVRP status information.

### Example

The following command shows GVRP status information of the switch:

```
Switch_config#show gvrp status
```

```
GVRP is enabled
```

#### 1.1.5 Debug gvrp event

### Syntax

To enable debugging GVRP event information, use the **debug gvrp event** command. Use the no form of this command to disable debugging.

**debug gvrp event**

**no debug gvrp event**

### Parameter

None

### Default

None

### Usage Guidelines

Enable/disable debugging GVRP event information.

### Example

```
Switch# debug gvrp event
Switch#
```

## 1.1.6 Debug gvrp packet

### Syntax

To enable debugging GVRP packet information, use the **debug gvrp event** command. Use the no form of this command to disable debugging.

**debug gvrp packet**  
**no debug gvrp packet**

### Parameter

None

### Default

None

### Usage Guidelines

Enable/disable debugging GVRP packet information.

### Example

```
switch# debug gvrp packet
switch#
```

## 1.2 GARP Configuration Commands

GARP is the basic module of GVRP/GMRP. It is intended to scheduler GVRP/GMRP operation and provide services.

### 1.2.1 Garp timer leaveall

#### Syntax

To configure garp leaveall timer, use the **garp timer leaveall** command. Use the

no form of this command to restore the default value.

**garp timer leaveall** *time\_value*

**no garp timer leaveall**

#### Parameter

Parameter	Description
<i>timer_value</i>	Global leaveall timer value. Value range: 10–32765 centiseconds.

#### Default

1000 centiseconds

#### Usage Guidelines

Bridge will clear all registered VLAN information and send out LeaveAll Message after leaveall timer expires.

#### Example

The following example configures leaveall timer on the switch to 1200 centiseconds:

```
Switch_config# garp timer leaveall 1200
```

```
Switch_config#
```

### 1.2.2 garp timer hold

#### Syntax

**garp timer hold** *time\_value*

**no garp timer hold**

To set garp hold timer, run the first one of the above commands. To return to the default setting, use the no form of this command.

#### Parameter

Parameter	Description
<i>timer_value</i>	The hold timer value of the interface. The value ranges from 10 to 32765 centiseconds.

#### Default

10 centiseconds

#### Command Mode

Interface configuration mode

## Usage Guidelines

None

## Example

The following example shows how to set the garp hold timer on the interface g0/1 to 15 centiseconds.

```
Switch_config_g0/1#garp timer hold 15
```

```
Switch_config_g0/1#
```

### 1.2.3 garp timer join

## Syntax

```
garp timer join time_value
```

```
no garp timer join
```

To set garp join timer, run the first one of the above commands. To return to the default setting, use the no form of this command.

## Parameter

Parameter	Description
<i>timer_value</i>	The join timer value of the interface. The value ranges from 10 to 32765 centiseconds.

## Default

20 centiseconds

## Command Mode

Interface configuration mode

## Usage Guidelines

None

## Example

The following example shows how to set garp join timer on interface g0/1 to 25 centiseconds.

```
Switch_config_g0/1#garp timer join 25
```

```
Switch_config_g0/1#
```



### 1.2.4 garp timer leave

#### Syntax

garp timer leave time\_value

no garp timer leave

To set garp leaver timer, run the first one of the above commands. To return to the default setting, use the no form of this command.

#### Parameter

Parameter	Description
<i>timer_value</i>	The leave timer value of the interface. The value ranges from 10 to 32765 centiseconds.

#### Default

60 centiseconds

#### Command Mode

Interface Configuration Mode

#### Usage Guidelines

None

#### Example

The following example shows how to set the value of the garp leave timer on interface g0/1 to 80 centiseconds.

```
Switch_config_g0/1#garp timer leave 80
```

```
Switch_config_g0/1#
```

### 1.2.5 show garp timers

#### Syntax

**show garp timers** [ interface *intf\_id* ]

To show the GARP-configured clock information, run the above command.

### Parameter

Parameter	Description
<i>intf-id</i>	The concrete physical port.

### Default

None

### Usage Guidelines

This command is used to display the GARP-configured clock information, including the global leaveall timer value, the hold/join/leave timer value on the port.

### Example

The following example shows how to show the timer configuration information on interface G0/1.

```
Switch# show garp timers interface g0/1
GARP timers on port 1(G0/1)
  Garp Join Time      : 20 centiseconds
  Garp Leave Time     : 60 centiseconds
  Garp LeaveAll Time  : 1000 centiseconds
  Garp Hold Time      : 10 centiseconds
```

## 1.2.6 Show garp status

### Syntax

To show the currently-running garp application example, use the **show garp status** command.

**show garp status**

### Parameter

None

### Default

None

### Usage Guidelines

Display the currently running GARP statistics.

### Example

The following example shows the currently running GARP statistics:

```
Switch_config#show garp status  
No GARP application is running.
```

## 1.2.7 Debug garp

### Syntax

To enable the garp event or timer debugging information, use the **debug garp event** command. Use the no form of this command to disable debugging.

```
debug garp { event | timer }  
no debug garp { event | timer }
```

### Parameter

Parameter	Parameter description
<b>event</b>	Event debug
<b>timer</b>	Timer debug

### Default

None

### Usage Guidelines

Use this command to enable/disable debugging GARP event information.

### Example

The following example shows how to enable debugging GARP event information

```
Switch# debug garp event  
Switch#
```