

## GVRP Configuration Commands

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# Chapter 1 GVRP Configuration Commands

## 1.1 GVRP Configuration Commands

### 1.1.1 gvrp

#### Syntax

To enable or disable GVRP, run `gvrp`. To resume the default value, run `no gvrp`.

**gvrp**

**no gvrp**

#### Parameters

None

#### Default Value

The global GVRP is shut down, while GVRP on ports is enabled.

#### Usage Guidelines

GVRP can be enabled globally or on a port. Hence, GVRP can be really enabled only after GVRP is enabled both globally and on ports.

#### Example

The following example shows how to enable GVRP globally.

```
Switch_config#gvrp
```

```
Switch_config#
```

The following example shows how to enable GVRP on port 1.

```
Switch_config_g0/1#gvrp
```

```
Switch_config_g0/1#
```

### 1.1.2 gvrp dynamic-vlan-pruning

#### Syntax

To set the dynamic vlan to be effective on a registered port, run `gvrp dynamic-vlan-pruning`; to return to the default setting, use the “no” form of this command.

**gvrp dynamic-vlan-pruning**

**no gvrp dynamic-vlan-pruning**

#### Parameters

None

#### Default Value

dynamic-vlan-pruning is disabled by default, that is, dynamic VLAN can take effect on all ports.

#### 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 display the GVRP statistics information, run this command.

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

### Parameters

Parameters	Description
<i>Intf-id</i>	Stands for a specific physical interface.

### Default Value

None

### Usage Guidelines

This command is used to display the GVRP statistics information.

### Example

The following example shows how to display the GVRP statistics information about interface 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 display the GVRP state information, run this command.

## show gvrp status

### Parameters

None

### Default Value

None

## Usage Guidelines

This command is used to display the GVRP state information.

## Example

The following example shows how to display the GVRP state information about a switch.

```
Switch_config#show gvrp status  
GVRP is enabled
```

### 1.1.5 debug gvrp event

## Syntax

To enable the information output of GVRP debugging, run **debug gvrp event**. To shut down the information output of GVRP debugging, run **no debug GVRP event**.

**debug gvrp event**

**no debug gvrp event**

## Parameters

None

## Default Value

None

## Usage Guidelines

To enable the information output of GVRP debugging, run **debug gvrp event**. To shut down the information output of GVRP debugging, run **no debug GVRP event**.

## Example

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

### 1.1.6 debug gvrp packet

## Syntax

To enable or disable GVRP displaying, run this command.

**debug gvrp packet**

**no debug gvrp packet**

#### Parameters

None

#### Default Value

None

#### Usage Guidelines

To enable or disable GVRP displaying, run this command.

#### Example

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

## 1.2 GARPC onfiguration Commands

GARP is the basic module of GVRP/GMRP. It schedules GVRP/GMRP running and provides services to GVRP/GMRP.

### 1.2.1 garp timer leaveall

#### Syntax

To configure the garp leaveall timer, run **garp timer leaveall time\_value**. To resume the corresponding default value, run **no garp timer leaveall**.

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

**no garp timer leaveall**

#### Parameters

Parameters	Description
<i>time_value</i>	Stands for the global leave all timer value. Value range: 10~32765 centiseconds.

## Default Value

1000 centiseconds

## Usage Guidelines

After the leave all timer times out, the bridge cancels all registered VLAN information and transmits Leave All Message to the outside.

## 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

To configure the garp hold timer, run `garp timer hold time_value`. To return to the default setting, run `no garp timer hold`.

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

**no garp timer hold**

## Parameters

Parameters	Description
<i>timer_value</i>	hold timer value of the port Value range: 10~ 32765 centiseconds.

## Default Value

10 centiseconds

## Command Mode

Port configuration mode

## Usage Guidelines

None



## Example

The following example shows how to configure garp hold timer on the switch to 15 centiseconds.

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

### 1.2.3 garp timer join

## Syntax

To configure the garp join timer, run `garp timer join time_value`. To return to the default setting, run `no garp timer join`.

**garp timer join** *time\_value*

**no garp timer join**

## Parameters

Parameters	Description
<i>time_value</i>	join timer value of the port Value range: 10~ 32765 centiseconds.

## Default Value

20 centiseconds

## Command Mode

Port configuration mode

## Usage Guidelines

None

## Example

The following example shows how to configure garp join timer of the port g0/1 on the switch to 25 centiseconds.

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

## 1.2.4 garp timer leave

### Syntax

To configure the garp leave timer, run `garp timer leave time_value`. To return to the default setting, run `no garp timer leave`.

**garp timer leave** *time\_value*

**no garp timer leave**

### Parameters

Parameters	Description
<i>time_value</i>	leave timer value of the port Value range: 10~ 32765 centiseconds.

### Default Value

60 centiseconds

### Command Mode

Port configuration mode

### Usage Guidelines

None

### Example

The following example shows how to configure garp leave timer of the port g0/1 on the switch to 80 centiseconds.

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

```
Switch_config_g0/1#
```

## 1.2.5 show garp timers

### Syntax

To display theGARP-configured clock information, run the following command.

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

## Parameters

Parameters	Description
<i>Intf-id</i>	Stands for a specific physical interface.

## Default Value

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 display the timer 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 display the current GARP application instance by default, run the following command.

**show garp status**

### Parameters

None

### Default Value

None

### Usage Guidelines

To display the current GARP application instance by default, run the following command.

## Example

The following example shows the running GARP application instances.

```
Switch_config#show garp status
```

```
No GARP application is running.
```

## 1.2.7 debug garp

### Syntax

To enable or disable the debug information about the GARP event or timer, run this command.

**debug garp { event | timer }**

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

### Parameters

Parameters	Description
<b>event</b>	event debug
<b>timer</b>	timer debug

### Default Value

None

### Usage Guidelines

To enable or disable the debug information about the GARP event or timer, run this command.

## Example

The following example shows how to enable GARP event debug information.

```
Switch# debug garp event
```

```
Switch#
```