

# **GVRP Configuration Commands**

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# 1 GVRP Configuration Commands

## 1.1 Introduction

GVRP (GARP VLAN Registration Protocol GARP VLAN) is a specific GARP (GARP VLAN Registration Protocol GARP VLAN) application. It uses the working mechanism of the GARP protocol to maintain the VLAN information in the switch. All the switches that support the GVRP feature can receive the VLAN registration information from other switches and dynamically update the local VLAN registration information, including the current VLAN members as well as which VLAN members can reach through which port and other information. At the same time, all the switches that support the GVRP feature can communicate the local VLAN registration information (including dynamic VLAN information and statically configured VLAN information) to other switches to match that the VLAN information of all the devices which support GVRP is the same in the same switching network.

## 1.2 Configuring Task List

### 1.2.1 GVRP Configuration Task List

- Enabling/Disabling GVRP Globally
- Enabling/Disabling GVRP on the Interface
- Monitoring and Maintenance of GVRP

## 1.3 GVRP Configuration Task

### 1.3.1 Enabling/Disabling GVRP Globally

Perform the following configuration in global configuration mode.

command	description
<b>[no] gvrp</b>	Enables/disables GVRP globally.

It is disabled by default.

### 1.3.2 Enabling/Disabling GVRP on the Interface

Perform the following configuration in interface configuration mode:

command	description
<b>[no] gvrp</b>	Enables/disables interface GVRP.

Before enabling port GVRP, please enable global GVRP first. Otherwise, GVRP on the interface does not work. And only the GVRP function can be configured on the trunk port. Otherwise, the port GVRP function will not work.

It is enabled by default.

### 1.3.3 Monitoring and Maintenance of GVRP

Perform the following operations in the management mode:

command	description
<b>show gvrp statistics [interface port_list]</b>	Displays GVRP statistics.
<b>show gvrp status</b>	Displays GVRP global state information.
<b>[ no ] debug gvrp [ packet   event ]</b>	Enables/disables GVRP data packet and event debug switches. All debug switches will be enabled/disabled if not specified the concrete switch.

Display GVRP statistics:

```
switch#show gvrp statistics interface Tthernet0/1
```

GVRP statistics on port Ethernet0/1

GVRP Status: Enabled

GVRP Failed Registrations: 0

GVRP Last Pdu Origin: 0000.0000.0000

GVRP Registration Type: Normal

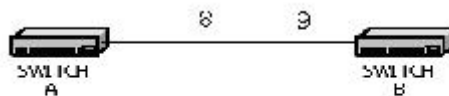
Display GVRP global state information:

```
switch#show gvrp status
```

gvrp is enabled!

## 1.4 Configuration Example

The network connection is as follows. In order to make the VLAN configuration information of Switch A and Switch B identical, you can enable GVRP on Switch A and Switch B. The configuration is as follows:



- (1) Configure the interface 8 that Switch A connects to Switch B to trunk:

```
Switch_config_g0/8# switchport mode trunk
```

- (2) Enable global GVRP of switch A:

```
Switch_config#gvrp
```

- (3) Enable GVRP of interface 8 of Switch A:

```
Switch_config_g0/8#gvrp
```

- (4) Configure VLAN 10, Vlan 20 and Vlan30 on Switch A

```
Switch_config#vlan 10
```

```
Switch_config#vlan 20
```

```
Switch_config#vlan 30
```

- (5) Configure the interface 9 that Switch A connects to Switch B to trunk:

```
Switch_config_g0/9# switchport mode trunk
```

- (6) Enable global GVRP of switch B:

```
Switch_config#gvrp
```

(7) Enable GVRP of interface 9 of Switch B

```
Switch_config_g0/9#gvrp
```

(8) Configure VLAN 40, Vlan 50 and Vlan60 on Switch B

```
Switch_config#vlan 40
```

```
Switch_config#vlan 50
```

```
Switch_config#vlan 60
```

After completing the configuration, the VLAN configuration information will be displayed respectively on Switch A and Switch B, that is, VLAN10, VLAN20,VLAN30, VLAN40, VLAN50 and VLAN60 on both switches.