

GVRP Configuration Commands

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Chapter 1 GVRP Configuration Commands

1.1 GVRP Configuration Commands

1.1.1 gvrp

Syntax

gvrp

no gvrp

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

Parameter

None

Default value

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

Instruction

- In the system of a switch, GVRP and VTP cannot be enabled simultaneously. If either of GVRP and VTP is enabled, the other cannot be enabled.
- 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_f0/1#gvrp
```

```
Switch_config_f0/1#
```

1.1.2 gvrp dynamic-vlan-pruning

Syntax

gvrp dynamic-vlan-pruning

no gvrp dynamic-vlan-pruning

To set the dynamic VLAN to be effective on a registered port, run **gvrp dynamic-vlan-pruning**; to resume the default value, run the “no” form of this command.

Parameter

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

Instruction

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

show gvrp statistics [interface *intf-id*]

This command is used to display the GVRP statistics information.

Parameter

Parameter	Description
<i>intf-id</i>	Stands for a specific physical interface.

Default value

None

Instruction

This command is used to display the GVRP statistics information.

Example

The following example shows how to display the GVRP statistics information about interface f0/1.

```
GVRP statistics on port fastEthernet0/1
GVRP Status: Enabled
GVRP Failed Registrations: 0
GVRP Last Pdu Origin: 0000.0000.0000
GVRP Registration Type: Normal
```

1.1.4 show gvrp status

Syntax

show gvrp status

This command is used to display the GVRP state information.

Parameter

None

Default value

None

Instruction

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.

GVRP is enabled

1.1.5 debug gvrp event

Syntax

debug gvrp event

no debug gvrp event

This command is used to enable or disable the information output of GVRP debugging.

Parameter

None

Default value

None

Instruction

This command is used to enable or disable the information output of GVRP debugging.

Example

```
Switch# debug gvrp event
```

```
Switch#
```

1.1.6 debug gvrp packet

Syntax

debug gvrp packet

no debug gvrp packet

This command is used to enable or disable GVRP displaying.

Parameter

None

Default value

None

Remarks

This command is used to enable or disable GVRP displaying.

Example

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

1.2 GARP Configuration Commands

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

1.2.1 garp leaveall

Syntax

garp timer leaveall *time_value*

no garp timer leaveall

To configure the garp leaveall timer, run **garp timer leaveall** *time_value*. To resume the corresponding default value, run **no garp timer leaveall**.

Parameter

Parameter	Description
<i>timer_value</i>	Stands for the global leaveall timer value. Value range: 10-32765 centiseconds

Default value

1000 centiseconds

Instruction

After the leaveall timer times out, the bridge cancels all registered VLAN information and transmits LeaveAll Message to the outside.

Example

The following example shows how to configure the leaveall timer on the switch.

```
Switch_config# garp timer leaveall 20000
Switch_config#
```

1.2.2 show garp timer

Syntax

show garp timers [interface *intf_id*]

To display the GARP-configured clock information, run the previous command.

Parameter

Parameter	Description
<i>intf-id</i>	Stands for a specific physical interface.

Default value

None

Instruction

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 Ethernet0/1.

```
Switch# show garp timers interface e0/1
GARP timers on port Ethernet0/1

Garp Join Time: 200 milliseconds
Garp Leave Time: 600 milliseconds
Garp LeaveAll Time: 10000 milliseconds
Garp Hold Time: 100 milliseconds
```

1.2.3 show garp status

Syntax

show garp status

To show the current GARP application instance, run the above-mentioned command.

Parameter

Parameter	Description
None	None

Default value

None

Instruction

The current GARP application instance is displayed by default.

Example

The following example shows how to display the GARP statistics information about interface Ethernet0/1.

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

1.2.4 debug garp event[timer]

Syntax

debug garp event[timer]

no debug garp event [timer]

To enable the debug information about the GARP event or timer, run **debug garp event [timer]**.

Parameter

None

Default value

None

Instruction

This command is used to enable or disable the debug information about the GARP event or timer.

Example

```
Switch# debug garp event[timer]  
Switch#
```