Configuration

Related products: S2928F, S3700 Series, S5612, S5800 Series, S8500 Series, S9500 Series

GVRP Configuration Commands

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Chapter 1 GVRP Configuration Commands

1.1 GVRP Configuration Commands

1.1.1 gvrp

Description

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

gvrp

no gvrp

Parameter

none

Default

GVRP is administratively diasbled.

GRVP is administratively enabled on each interface.

Instruction

- When GVRP is enabled in the system,VTP cannot be enabled, and vice versa.
- GVPRP 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-if-Ethernet0/1) # gvrp
Switch(config-if-Ethernet0/1) #
```

1.1.2 show gvrp statistics

Description

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

show gvrp statistics [interface *intf-id*]

Parameter

Parameter	Description
intf-id	Concrete physical interface

Default

none

Instruction

Show GVRP statistics.

Example

The following example show GVRP statistics on port Ethernet0/1:

GVRP statistics on port Ethernet0/1
GVRP Status: Enabled
GVRP Failed Registrations: 0
GVRP Last Pdu Origin: 0000.0000.0000
GVRP Registration Type: Normal

1.1.3 show gvrp status

Description

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

show gvrp status

Parameter

none

Default

none

Instruction

Show GVRP status information.

Example

The following command shows GVRP status information of the switch:

GVRP is enabled

1.1.4 debug gvrp event

Description

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

Instruction

Enable/disable debugging GVRP event information.

Example

Switch# debug gvrp event
Switch#

1.1.5 debug gvrp packet

Description

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

Instruction

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 service.

1.2.1 garp timer

Description

To set the GARP timer values, use the **garp timer** command. Use the no form of this command to restore the default value.

garp timer { **hold** | **join** | **leave** } *time_value*

no garp timer { **hold** | **join** | **leave** }

Parameter

Parameter	Description
timer_value	Timer value Value range: 10 – 32760 centiseconds

Default

hold timer: 10 centiseconds.

join timer: 20 centiseconds.

leave timer: 60 centiseconds.

Instruction

(1) It is used to send out VLAN registration information periodically.

(2) When the VLAN registration information is received on the port, the joinin message will not be sent out promptly to register this VLAN information. A hold timer is started up instead, and the joinin message will not be sent out before the timer expires. This could save bandwidth and accept more VLAN information.

(3) If the timer expires before the corresponding VLAN registration information is received on that port, the vlan information will be logged out.

(4) leave timer: It must twice lager than or euqal to the value of join time.

Example

The following example configures 30 centiseconds as the garp hold timer:

```
Switch(config-if-Ethernet0/1)# garp timer hold 30
Switch(config-if-Ethernet0/1)#
```

1.2.2 garp leaveall

Description

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
timer_value	Global leaveall timer value Value range: 10–32765 centseconds

Default

1000 centiseconds

Instruction

Bridge will clear all registed VLAN information and send out leaveall message after leaveall timer expires.

Example

The following example configures leaveall timer on the switch:

```
Switch(config)# garp timer leaveall 20000
Switch(config)#
```

1.2.3 show garp timer

Description

To show the timer information that GARP configures, use the **show garp timers** command.

show garp timers [interface *intf_id*]

Parameter

Parameter	Description
intf-id	Concrete physical interface

Default

none

Instruction

Use this command to show the timer information that GARP configures, including the value of global leaveall timer, hold timer, join timer and leave timer on the interface.

Example

The following example shows the timer configuration 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
```

1.2.4 show garp status

Description

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

show garp

Parameter

none

Default

none

Instruction

none

Example

The following example shows GARP statistics on interface Ethernet0/1:

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

1.2.5 debug garp event

Description

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

debug garp event

no debug garp event

Parameter

none

Default

none

Instruction

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

Example

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