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 disablegvrp, 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
Intf-id	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. 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 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
timer_value	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
timer_value	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

timer_value	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
timer_value	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
Intf-id	Stands for a specific physical interface.

Default Value

None

Usage Guidelines

This command is used to display theGARP-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
event	event debug
timer	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#