

GMRP Configuration Commands



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Chapter 1 GMRP Configuration Commands

1.1 GMRP Configuration Commands

1.1.1 gmrp

description

gmrp

no gmrp

To enable the GMRP function, use the gmrp command. To disable the GMRP function, use the no form of this command.

parameter

none

default

The global mode is disabled, GMRP function is enabled on port.

instruction

GMRP command is enabled in two modes

The global configuration mode: disabled by default

Interface configuration mode: enabled by default

GMRP function is enabled on port, only on condition that GMRP function is open on the global mode and port

example

The following examples will open the GMRP function on the global mode and f0/2 port separately.

```
switch_config#gmrp
```

```
switch_config_f0/2#gmrp
```

1.1.2 show gmrp status

description

show gmrp status

parameter

none

default

none

instruction

Check the global GMRP start state

example

The following example is used to check whether the global GMRP function is open.

```
switch_config#show gmrp status
```

GMRP is enabled

1.1.3 show gmrp statistics

description

show gmrp statistics

To check GMRP statistics, use the show gmrp statistics command

parameter

parameter	description
<i>interface</i>	Interface name

default

none

instruction

It is used to display the GMRP statistics of specified port. If there is no parameter, display GMRP statistics of all ports.

example

The following command is used to check GMRP statistics of f0/6 port.

```
switch#show gmrp statistics interface FastEthernet0/6
```

```
GMRP statistics on port FastEthernet0/6
```

```
GMRP Status: Enabled
```

```
GMRP Frames Received: 54
```

```
GMRP Frames Transmitted: 27
```

```
GMRP Frames Discarded: 0
```

```
GMRP Last Pdu Origin: 1234.5678.9abc
```

1.1.4 debug gmrp event**description**

debug gmrp event

no debug gmrp event

parameter

none

default

none

instruction

Turn on/off the debug switch of GMRP event information. Use the no command to turn off the debug switch of GMRP

example

The following example will turn on the event debug switch of GMRP.

```
switch(config)# debug gmrp event
```

1.1.5 debug gmrp packet

description

debug gmrp packet

parameter

none

default

none

instruction

Turn on/off the sending and receiving packets debug switch of GMRP. Use the no form of this command to turn off the switch.

example

The following command will turn on the packet debug switch of GMRP.

```
switch(config)# debug gmrp packet
```

1.2 GARP Configuration Commands

GARP is the basic module of GVRP/GMRP, debugging GVRP/GMRP to provide service for it.

1.2.1 garp timer

description

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

no garp timer { hold | join | leave }

Configure the hold join and leave timer value of port GVRP function. To resume the default value, use the no form of this command

parameter

parameter	description
<i>timer_value</i>	The parameter value of timer . The value range is 10 to 32760 in milliseconds

default

hold timer is 10 milliseconds

join timer is 20 milliseconds

leave timer is 60 milliseconds

instruction

- (1) Join timer is used to send VLAN login information at certain time.
- (2) Hold timer is used to receive the VLAN register information without sending Join IN Message outside immediately to register the VLAN information, but start hold timer and send the VLAN information after hold timer overtimes. In this way, it can receive more VLAN information and send them one-time, which can save the bandwidth.
- (3) When switch receives the Leave Message, it starts Leave timer. If the leave timer does not receive any VLAN register information until leave timer overtimes, then write off the VLAN information.
- (4) Leave timer must be equivalent to or more than twice of the join timer value.

example

The following example will configure the garp hold timer as 30 milliseconds

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

```
Switch(config-if-Ethernet0/1)#
```

1.2.2 garp leaveall**description**

garp timer leaveall *time_value*

no garp timer leaveall

To configure the garp leaveall timer, use the garp tyicmet leaveall command. To resume the default value, use the no form of this command

parameter

parameter	description
<i>time_value</i>	The global leaveall timer value. The range is 10 to 32765 milliseconds

default

1000 milliseconds

instruction

If the leaveall timer exceeds Bridge will empty all the login VLAN information, and send LeaveAll Message outside

example

The following command will configure the leaveall timer on switch

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

```
Switch(config)#
```

1.2.3 show garp timer

description

show garp timers [interface *intf_id*]

To display the clock information configured by GARP, use the show garp timers command

parameter

parameter	description
<i>intf-id</i>	Specific physical interface

default

none

instruction

Display the clock information configured by GARP, including the value of global leaveall timer and hold timer、join timer and leave timer on interface

example

The following command is used to display the configuration information of timer on Ethernet0/1 interface

```
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 statistics

description

show garp statistics [interface *intf-id*]

To show GARP statistics, use the show garp statistics command

parameter

parameter	description
<i>intf-id</i>	◦ Specific physical interface

default

none

Instruction

display GARP statistics information

example

The following command will display the GARP statistics of Ethernet0/1 port
GARP statistics on port Ethernet0/1

Number Of GMRP Frames Received: 0
Number Of GVRP Frames Received: 0
Number Of GMRP Frames Transmitted: 0
Number Of GVRP Frames Transmitted: 0
Number Of Frames Discarded: 0

1.2.5 debug garp event

description

debug garp event

no debug garp event

Turn on/off the function of displaying GARP event debug information

parameter

none

default

none

instruction

Turn on/off the function of displaying GARP event debug information.

example

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