

GVRP Commands

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clear gvrp statistics

To clear GVRP statistical information for all interfaces or for a specific interface, use the **clear gvrp statistics** Privileged EXEC mode command.

Syntax

clear gvrp statistics *[interface-id]*

Parameters

Interface-id—(Optional) Specifies an interface ID. The interface ID can be one of the following types: Ethernet port or Port-channel.

Default Configuration

All GVRP statistics are cleared.

Command Mode

Privileged EXEC mode

Example

The following example clears all GVRP statistical information on gi1/0/4.

```
switchxxxxxx#  clear gvrp statistics gi1/0/4
```

gvrp enable (Global)

To enable the Generic Attribute Registration Protocol (GARP) VLAN Registration Protocol (GVRP) globally, use the **gvrp enable** Global Configuration mode command. To disable GVRP on the device, use the **no** form of this command.

Syntax

gvrp enable

no gvrp enable

Parameters

This command has no arguments or keywords.

Default Configuration

GVRP is globally disabled.

Command Mode

Global Configuration mode

Example

The following example enables GVRP globally on the device.

```
switchxxxxxx(config)#  gvrp enable
```

gvrp enable (Interface)

To enable GVRP on an interface, use the **gvrp enable** Interface (Ethernet, Port Channel) Configuration mode command. To disable GVRP on an interface, use the **no** form of this command.

Syntax

gvrp enable

no gvrp enable

Parameters

This command has no arguments or keywords.

Default Configuration

GVRP is disabled on all interfaces.

Command Mode

Interface (Ethernet, Port Channel) Configuration mode

User Guidelines

An access port does not dynamically join a VLAN because it is always a member of a single VLAN only. Membership in an untagged VLAN is propagated in the same way as in a tagged VLAN. That is, the PVID must be manually defined as the untagged VLAN ID.

Example

The following example enables GVRP on gi1/0/4.

```
switchxxxxxx(config)#  interface gi1/0/4
switchxxxxxx(config-if)#  gvrp enable
```

gvrp registration-forbid

To deregister all dynamic VLANs on a port and prevent VLAN creation or registration on the port, use the **gvrp registration-forbid** Interface Configuration mode command. To allow dynamic registration of VLANs on a port, use the **no** form of this command.

Syntax

gvrp registration-forbid

no gvrp registration-forbid

Parameters

This command has no arguments or keywords.

Default Configuration

Dynamic registration of VLANs on the port is allowed.

Command Mode

Interface (Ethernet, Port Channel) Configuration mode

Example

The following example forbids dynamic registration of VLANs on gi1/0/2.

```
switchxxxxxx(config-if)#  interface gi1/0/2
switchxxxxxx(config-if)#  gvrp registration-forbid
```

gvrp vlan-creation-forbid

To disable dynamic VLAN creation or modification, use the **gvrp vlan-creation-forbid** Interface Configuration mode command. To enable dynamic VLAN creation or modification, use the **no** form of this command.

Syntax

gvrp vlan-creation-forbid

no gvrp vlan-creation-forbid

Parameters

This command has no arguments or keywords.

Default Configuration

Enabled.

Command Mode

Interface (Ethernet, Port Channel) Configuration mode

Example

The following example disables dynamic VLAN creation on gi1/0/3.

```
switchxxxxxx(config-if)#  interface gi1/0/3
switchxxxxxx(config-if)#  gvrp vlan-creation-forbid
```

show gvrp configuration

To display GVRP configuration information, including timer values, whether GVRP and dynamic VLAN creation are enabled, and which ports are running GVRP, use the **show gvrp configuration** EXEC mode command.

Syntax

show gvrp configuration *[interface-id* | **detailed**]

Parameters

- **interface-id**—(Optional) Specifies an interface ID. The interface ID can be one of the following types: Ethernet port or port-channel.
- **detailed**—(Optional) Displays information for non-present ports in addition to present ports.

Default Configuration

All GVRP statistics are displayed for all interfaces. If detailed is not used, only present ports are displayed.

Command Mode

User EXEC mode

Example

The following example displays GVRP configuration.

```
switchxxxxxx#  show gvrp configuration
GVRP Feature is currently Enabled on the device.
Maximum VLANs: 4094
Port(s) GVRP-Status  Regist-    Dynamic          Timers(ms)
                     ration     VLAN Creation    Join   Leave   Leave All
----    ----------- --------   -------------    ----    -----   ----------
gi1/0/1     Enabled     Forbidden   Disabled         600     200    10000
gi1/0/2     Enabled     Normal      Enabled          1200    400    20000
```

show gvrp error-statistics

Use the **show gvrp error-statistics** EXEC mode command to display GVRP error statistics for all interfaces or for a specific interface.

Syntax

show gvrp error-statistics *[interface-id]*

Parameters

interface-id—(Optional) Specifies an interface ID. The interface ID can be one of the following types: Ethernet port or Port-channel.

Default Configuration

All GVRP error statistics are displayed.

Command Mode

User EXEC mode

Example

The following example displays GVRP error statistics.

```
switchxxxxxx#  show gvrp error-statistics
GVRP Error Statistics:
----------------------
Legend:
  INVPROT  : Invalid Protocol Id
  INVATYP  : Invalid Attribute Type  INVALEN : Invalid Attribute Length
  INVAVAL  : Invalid Attribute Value INVEVENT: Invalid Event
  Port   INVPROT INVATYP INVAVAL INVALEN INVEVENT
-------- ------- ------- ------- ------- --------
 gi1/0/1      0       0       0       0       0
 gi1/0/2      0       0       0       0       0
 gi1/0/3      0       0       0       0       0
 gi1/0/4      0       0       0       0       0
```

show gvrp statistics

To display GVRP statistics for all interfaces or for a specific interface, use the **show gvrp statistics** EXEC mode command.

Syntax

show gvrp statistics *[interface-id]*

Parameters

interface-id—(Optional) Specifies an interface ID. The interface ID can be one of the following types: Ethernet port or Port-channel.

Default Configuration

All GVRP statistics are displayed.

Command Mode

User EXEC mode

Example

The following example displays GVRP statistical information.

```
switchxxxxxx#  show gvrp statistics
GVRP statistics:
----------------
Legend:
```

rJE :	Join Empty Received	rJIn: Join In Received
rEmp:	Empty Received	rLIn: Leave In Received
rLE :	Leave Empty Received	rLA : Leave All Received
sJE :	Join Empty Sent	sJIn: Join In Sent
sEmp:	Empty Sent	sLIn: Leave In Sent
sLE :	Leave Empty Sent	sLA : Leave All Sent

Port	rJE	rJIn	rEmp	rLIn	rLE	rLA	sJE	sJIn	sEmp	sLIn	sLE	sLA
-----	----	----	----	----	----	----	----	----	----	----	----	---
gi1/0/1	0	0	0	0	0	0	0	0	0	0	0	0
gi1/0/2	0	0	0	0	0	0	0	0	0	0	0	0
gi1/0/3	0	0	0	0	0	0	0	0	0	0	0	0
gi1/0/4	0	0	0	0	0	0	0	0	0	0	0	0