



# 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.

```
switchxxxxx# show gvrp configuration
GVRP Feature is currently Enabled on the device.
Maximum VLANs: 4094
Port(s)  GVRP-Status  Regist-   Dynamic   Timers(ms)
          Status      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.

```
switchxxxxx# 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
-----
gil/0/1   0       0       0       0       0
gil/0/2   0       0       0       0       0
gil/0/3   0       0       0       0       0
gil/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   |

■ show gvrp statistics