P Commands

This chapter describes the system management commands that begin with P.

poweroff module

To power off a module, use the **poweroff module** command. To return power to the module, use the **no** form of this command.

poweroff module *module*

no poweroff module *module*

Syntax Description

module	Module number. The range is from 1 to 18.

Defaults

None

Command Default

Global configuration (config)

SupportedUserRoles

network-admin

vdc-admin

Command History

Release	Modification
5.2(1)N1(1)	The command was introduced.

Usage Guidelines

This command does not require a license.

Examples

This example shows how to power off module 2:

```
switch# poweroff module 2
```

Related Commands

Command	Description
show module	Displays information about modules.

ptp announce

To configure the interval between PTP announcement messages on an interface or the number of PTP intervals before a timeout occurs on an interface, use the **ptp announce** command. To disable this feature, use the **no** form of this command.

ptp announce {**interval** *log-seconds* | **timeout** *count*}

no ptp announce

Syntax Description

interval *log-seconds*	The number of log seconds between PTP announcement messages. The range is from 0 to 4 seconds.
timeout *count*	The number of PTP intervals before a timeout occurs on the interface. The range is from 2 to 10.

Command Default

The default interval is 1 log second.

The default timeout is 3 announce intervals.

Command Modes

Interfaces configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Examples

This example shows how to set the announcement interval on interface 5/1 to 1:

```
switch# configure terminal
switch(config) # interface ethernet 5/1
switch(config-if)# ptp announce interval 1
switch(config-if)
```

Related Commands

Command	Description
feature ptp	Enables or disables PTP on the device.
ptp delay request minimum interval	Configures the minimum interval allowed between PTP delay-request messages when the port is in the master state.
ptp sync interval	Configures the interval between PTP synchronization messages on an interface.
ptp vlan	Configures the VLAN for the interface where PTP is being enabled.
show ptp brief	Displays the PTP status.
show ptp port interface ethernet	Displays the status of the PTP port on the switch.

ptp delay request minimum interval

To configure the minimum interval allowed between PTP delay request messages when the port is in the master state, use the **ptp delay request minimum interval** command. To disable this feature, use the **no** form of this command.

ptp delay request minimum interval *log-seconds*

no ptp delay request minimum interval

Syntax Description

log-seconds	The number of log seconds between PTP delay request messages. The range is from -1 to 6 seconds.

Command Default

0 log seconds

Command Modes

Interface configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Examples

This example shows how to set the minimum delay request interval to 3:

```
switch# configure terminal
switch(config) # interface ethernet 5/1
switch(config-if) # ptp delay request minimum interval 3
```

Related Commands

Command	Description
feature ptp	Enables or disables PTP on the device.
ptp announce	Configures the interval between PTP announce messages on an interface or the number of PTP intervals before a timeout occurs on an interface.
ptp sync interval	Configures the interval between PTP synchronization messages on an interface.
ptp vlan	Configures the VLAN for the interface where PTP is being enabled.
show ptp brief	Displays the PTP status.
show ptp port interface ethernet	Displays the status of the PTP port on the switch.

ptp domain

To configure the domain number to use for this clock, use the **ptp domain** command. PTP domains allow you touse multiple independent PTP clocking subdomains on a single network.

ptp domain *number*

no ptp domain *number*

Syntax Description

number	Configures the domain number to use for this clock. The range is from 0 to 128.

Command Default

0

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Examples

This example shows how to configure the domain number for use with a clock:

```
switch(config)# ptp domain 1
```

Related Commands

Command	Description
feature ptp	Enables or disables PTP on the device.
ptp source	Configures the source IP address for all PTP packets.
ptp priority1	Configures the priority 1 value to use when advertising this clock.
ptp priority2	Configures the priority 1 value to use when advertising this clock.
show ptp brief	Displays the PTP status.
show ptp clock	Displays the properties of the local clock.

ptp priority1

To configure the priority1 value to use when advertising this clock, use the **ptp priority1** command.

ptp priority1 *value*

no ptp priority1 *value*

Syntax Description

value	The configured value overrides the default criteria (clock quality, clock class, etc.) for best master clock selection. Lower values take precedence. The range is from 0 to 255.

Command Default

255 when advertising the clock

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Examples

This example shows how to set the priority1 value used to advertise this clock:

```
switch(config)# ptp priority1 10
```

Related Commands

Command	Description
feature ptp	Enables or disables PTP on the device.
ptp source	Configures the source IP address for all PTP packets.
ptp domain	Configures the domain number to use for this clock.
ptp priority2	Configures the priority2 value to use when advertising this clock.
show ptp brief	Displays the PTP status.
show ptp clock	Displays the properties of the local clock.

ptp priority2

To configure the priority2 value to use when advertising this clock, use the **ptp priority2** command.

ptp priority2 *value*

no ptp priority2 *value*

Syntax Description

value	The configured value is used to decide between two devices that are otherwise equally matched in the default criteria. For example, you can use the priority2 value to give a specific switch priority over other identical switches. The range is from 0 to 255.

Command Default

255 when advertising the clock

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Examples

This example shows how to set the priority2 value used to advertise this clock:

```
switch(config)# ptp priority2 20
```

Related Commands

Command	Description
feature ptp	Enables or disables PTP on the device.
ptp source	Configures the source IP address for all PTP packets.
ptp domain	Configures the domain number to use for this clock.
ptp priority1	Configures the priority1 value to use when advertising this clock.
show ptp brief	Displays the PTP status.
show ptp clock	Displays the properties of the local clock.

ptp source

To configure the source IP address for all PTP packets, use the **ptp source** command. To unconfigure the source IP address for all PTP packets, use the **no** form of this command.

ptp source *ip-address* [**vrf** *vrf*]

no ptp source *ip-address* [**vrf** *vrf*]

Syntax Description

ip-address	Specifies the source IP address for all PTP packets. The IP address can be in IPv4 or IPv6 format.
vrf *vrf*	Specifies the VRF.

Command Default

None

Command Modes

Global configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Examples

This example shows how to configure the source IP address for all PTP packets:

```
switch(config)# ptp source 192.0.2.1
```

Related Commands

Command	Description
feature ptp	Enables or disables PTP on the device.
ptp domain	Configures the domain number to use for this clock.
ptp priority1	Configures the priority 1 value to use when advertising this clock.
ptp priority2	Configures the priority 1 value to use when advertising this clock.
show ptp brief	Displays the PTP status.
show ptp clock	Displays the properties of the local clock.

ptp sync interval

To configure the interval between PTP synchronization messages, use the **ptp sync interval** command. To disable this feature, use the **no** form of this command.

ptp sync interval *log-seconds*

no ptp sync interval

Syntax Description

log-seconds	The number of log seconds between PTP synchronization messages on an interface. The range is from -3 seconds to 1 second.

Command Default

None

Command Modes

Interface configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Examples

This example shows how to set the PTP synchronization interval to -3:

```
switch# configure terminal
switch(config) # interface ethernet 5/1
switch(config-if) # ptp sync interval -3
```

Related Commands

Command	Description
feature ptp	Enables or disables PTP on the device.
ptp announce	Configures the interval between PTP announce messages on an interface or the number of PTP intervals before a timeout occurs on an interface.
ptp delay request minimum interval	Configures the minimum interval allowed between PTP delay-request messages when the port is in the master state.
ptp vlan	Configures the VLAN for the interface where PTP is being enabled.
show ptp brief	Displays the PTP status.
show ptp port interface ethernet	Displays the status of the PTP port on the switch.

ptp vlan

To specify the VLAN for the interface where PTP is being enabled, use the **ptp vlan** command. To disable this feature, use the **no** form of this command.

ptp vlan *vlan-id*

no ptp vlan

Syntax Description

vlan-id	The VLAN ID for the interface where PTP is being enabled. The range is from 1 to 4094.

Command Default

1

Command Modes

Interface configuration mode

Command History

Release	Modification
5.2(1)N1(1)	This command was introduced.

Usage Guidelines

PTP can only be enabled on one VLAN on an interface.

Examples

This example shows how to specify VLAN 10 as the interface where PTP is being enabled:

```
switch# configure terminal
switch(config) # interface ethernet 5/1
switch(config-if) # ptp vlan 10
```

Related Commands

Command	Description
feature ptp	Enables or disables PTP on the device.
ptp announce	Configures the interval between PTP announce messages on an interface or the number of PTP intervals before a timeout occurs on an interface.
ptp delay request minimum interval	Configures the minimum interval allowed between PTP delay-request messages when the port is in the master state.
ptp sync interval	Configures the interval between PTP synchronization messages on an interface.
show ptp brief	Displays the PTP status.
show ptp port interface ethernet	Displays the status of the PTP port on the switch.