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Chapter 1 PoE Configuration Commands

1.1 PoE Configuration Commands

1.1.1 display poe interface

Syntax

display poe interface [*interface-name* | *interface-type interface-num*]

View

Any view

Parameter

interface-name | *interface-type interface-num*: Port on the switch. Refer to *Command Manual – Port* for details.

Description

Using the **display poe interface** command, you can view the PoE status of a specific or all ports on the switch.

Example

Display the PoE status of the Ethernet port GigabitEthernet1/0/10.

```
[Quidway] display poe interface gigabitethernet1/0/10
Port power enabled           :enable
Port power ON/OFF           :on
Port power status            :Standard PD
Port power mode              :signal
Port PD class                :0
port power priority          :low
Port max power               :15400 mW
Port current power           :460 mW
Port peak power              :552 mW
Port average power           :547 mW
Port current                 :10 mA
Port voltage                 :51 V
```

Display the PoE status of all ports.

```
[Quidway] display poe interface
      PORT INDEX      POWER  ENABLE   MODE  PRIORITY   STATUS
GigabitEthernet1/0/1  off   enable   signal low      Detection
```

GigabitEthernet1/0/2	off	enable	signal	low	Detection
GigabitEthernet1/0/3	off	enable	signal	low	Detection
GigabitEthernet1/0/4	off	enable	signal	low	Detection
GigabitEthernet1/0/5	off	enable	signal	low	Detection
GigabitEthernet1/0/6	off	enable	signal	low	Detection
GigabitEthernet1/0/7	off	enable	signal	low	Detection
GigabitEthernet1/0/8	off	enable	signal	low	Detection
GigabitEthernet1/0/9	off	enable	signal	low	Detection
GigabitEthernet1/0/10	off	enable	signal	low	Detection
GigabitEthernet1/0/11	off	enable	signal	low	Detection
GigabitEthernet1/0/12	off	enable	signal	low	Detection
GigabitEthernet1/0/13	off	enable	signal	low	Detection
GigabitEthernet1/0/14	off	enable	signal	low	Detection
GigabitEthernet1/0/15	off	enable	signal	low	Detection
GigabitEthernet1/0/16	off	enable	signal	low	Detection
GigabitEthernet1/0/17	off	enable	signal	low	Detection
GigabitEthernet1/0/18	off	enable	signal	low	Detection
GigabitEthernet1/0/19	off	enable	signal	low	Detection
GigabitEthernet1/0/20	off	enable	signal	low	Detection
GigabitEthernet1/0/21	off	enable	signal	low	Detection
GigabitEthernet1/0/22	off	enable	signal	low	Detection
GigabitEthernet1/0/23	off	enable	signal	low	Detection
GigabitEthernet1/0/24	off	enable	signal	low	Detection
GigabitEthernet1/0/25	off	disable	signal	low	User set off
GigabitEthernet1/0/26	off	disable	signal	low	User set off
GigabitEthernet1/0/27	off	disable	signal	low	User set off
GigabitEthernet1/0/28	off	disable	signal	low	User set off
GigabitEthernet1/0/29	off	disable	signal	low	User set off
GigabitEthernet1/0/30	off	disable	signal	low	User set off
GigabitEthernet1/0/31	off	disable	signal	low	User set off
GigabitEthernet1/0/32	off	disable	signal	low	User set off
GigabitEthernet1/0/33	off	disable	signal	low	User set off
GigabitEthernet1/0/34	off	disable	signal	low	User set off
GigabitEthernet1/0/35	off	disable	signal	low	User set off
GigabitEthernet1/0/36	off	disable	signal	low	User set off
GigabitEthernet1/0/37	off	disable	signal	low	User set off
GigabitEthernet1/0/38	off	disable	signal	low	User set off
GigabitEthernet1/0/39	off	disable	signal	low	User set off
GigabitEthernet1/0/40	off	disable	signal	low	User set off
GigabitEthernet1/0/41	off	disable	signal	low	User set off
GigabitEthernet1/0/42	off	disable	signal	low	User set off
GigabitEthernet1/0/43	off	disable	signal	low	User set off
GigabitEthernet1/0/44	off	disable	signal	low	User set off

```
GigabitEthernet1/0/45  off  disable signal  low      User set off
GigabitEthernet1/0/46  off  disable signal  low      User set off
GigabitEthernet1/0/47  off  disable signal  low      User set off
GigabitEthernet1/0/48  off  disable signal  low      User set off
```

1.1.2 display poe interface power

Syntax

display poe interface power [*interface-name* | *interface-type interface-num*]

View

Any view

Parameter

interface-name | *interface-type interface-num*: Port on the switch. Refer to *Command Manual – Port* for details.

Description

Using the **display poe interface power** command, you can view the power information of a specific or all ports on the switch.

Example

Display the power information of port GigabitEthernet1/0/10.

```
[Quidway] display poe interface power gigabitethernet1/0/10
Port power                :12400 mW
```

Display the power information of all ports.

```
[Quidway] display poe power
```

PORT INDEX	POWER (mW)	PORT INDEX	POWER (mW)
GigabitEthernet1/0/1	0	GigabitEthernet1/0/2	100
GigabitEthernet1/0/3	200	GigabitEthernet1/0/4	300
GigabitEthernet1/0/5	400	GigabitEthernet1/0/6	500
GigabitEthernet1/0/7	600	GigabitEthernet1/0/8	700
GigabitEthernet1/0/9	800	GigabitEthernet1/0/10	900
GigabitEthernet1/0/11	1000	GigabitEthernet1/0/12	1100
GigabitEthernet1/0/13	1200	GigabitEthernet1/0/14	1300
GigabitEthernet1/0/15	1400	GigabitEthernet1/0/16	1500
GigabitEthernet1/0/17	1600	GigabitEthernet1/0/18	1700
GigabitEthernet1/0/19	1800	GigabitEthernet1/0/20	1900
GigabitEthernet1/0/21	2000	GigabitEthernet1/0/22	2100
GigabitEthernet1/0/23	2200	GigabitEthernet1/0/24	2300
GigabitEthernet1/0/25	2400	GigabitEthernet1/0/26	2500
GigabitEthernet1/0/27	2600	GigabitEthernet1/0/28	2700

GigabitEthernet1/0/29	0	GigabitEthernet1/0/30	0
GigabitEthernet1/0/31	0	GigabitEthernet1/0/32	0
GigabitEthernet1/0/33	3200	GigabitEthernet1/0/34	3300
GigabitEthernet1/0/35	3400	GigabitEthernet1/0/36	3500
GigabitEthernet1/0/37	3600	GigabitEthernet1/0/38	3700
GigabitEthernet1/0/39	3800	GigabitEthernet1/0/40	3900
GigabitEthernet1/0/41	4000	GigabitEthernet1/0/42	4100
GigabitEthernet1/0/43	4200	GigabitEthernet1/0/44	4300
GigabitEthernet1/0/45	4400	GigabitEthernet1/0/46	4500
GigabitEthernet1/0/47	4600	GigabitEthernet1/0/48	4700

1.1.3 display poe powersupply

Syntax

display poe powersupply

View

Any view

Parameter

None

Description

Using the **display poe powersupply** command, you can view the parameters of the power sourcing equipment (PSE).

Example

Display the PSE parameters.

```
[Quidway] display poe powersupply
PSE ID                               :1
PSE Legacy Detection                  :disable
PSE Total Power Consumption           :12000 mW
PSE Available Power                   :268000 mW
PSE Peak Value                        :12000 mW
PSE Average Value                     :12000 mW
PSE Software Version                  :290
PSE Hardware Version                  :000
PSE CPLD Version                      :021
PSE Power-Management mode            :auto
```

1.1.4 poe enable

Syntax

poe enable
undo poe enable

View

Ethernet port view

Parameter

None

Description

Using the **poe enable** command, you can enable the PoE feature on a port.
Using the **undo poe enable** command, you can disable the PoE feature on a port.
By default, the PoE feature on each port is enabled.

Example

```
# Enable the PoE feature on the current port.  
[Quidway-GigabitEthernet1/0/3] poe enable  
Port power supply is enabled  
  
# Disable the PoE feature on the current port.  
[Quidway-GigabitEthernet1/0/3] undo poe enable  
Port power supply is disabled
```

1.1.5 poe legacy enable

Syntax

poe legacy enable
undo poe legacy enable

View

System view

Parameter

None

Description

Using the **poe legacy enable** command, you can enable the nonstandard-PD detect function.

Using the **undo poe legacy enable** command, you can disable the nonstandard-PD detect function.

PDs compliant with 802.3af standards are called standard PDs.

By default, the nonstandard-PD detect function is disabled.

Example

Enable the nonstandard-PD detect function.

```
[Quidway] poe legacy enable  
Legacy detection is enabled
```

Disable the nonstandard-PD detect function.

```
[Quidway] undo poe legacy enable  
Legacy detection is disabled
```

1.1.6 poe max-power

Syntax

poe max-power *max-power*

undo poe max-power

View

Ethernet port view

Parameter

max-power: Maximum power distributed to the port, ranging from 1000 to 15400 mW.

Description

Using the **poe max-power** command, you can configure the maximum power that can be supplied by current port.

Using the **undo poe max-power** command, you can restore the maximum power supplied by current port to the default value.

By default, the maximum power that a port can supply is 15400 mW.

Note that the unit of the power is mW and you can set the power in the granularity of 100 mW. The actual maximum power will be 5% larger than what you have set allowing for the effect of transient peak power.

Example

Set the maximum power supplied by current port.

```
[Quidway-GigabitEthernet1/0/3] poe max-power 15000  
Set Port max power successfully
```

Restore the default maximum power on the current port.

```
[Quidway-GigabitEthernet1/0/3] undo poe max-power  
Set Port max power successfully
```

1.1.7 poe mode

Syntax

poe mode { signal | spare }

undo poe mode

View

Ethernet port view

Parameter

signal: Supply power through signal line.

spare: Supply power through spare line. Currently, S5600 series switches do not support **spare** mode.

Description

Using the **poe mode** command, you can configure the PoE mode on the current port.

Using the **undo poe mode** command, you can restore the PoE mode on the current port to the default mode.

By default, the port is powered through signal cable.

Example

Set the PoE mode on current port to **signal**.

```
[Quidway-GigabitEthernet1/0/3] poe mode signal  
Set PoE mode successfully
```

1.1.8 poe power-management

Syntax

poe power-management { auto| manual }

undo poe power-management

View

System view

Parameter

auto: Adopt the **auto** mode, a PoE management mode based on port priority.

manual: Adopt the **manual** mode.

Description

Using the **poe power-management** command, you can configure the PoE management mode of port used in the case of power overloading.

Using the **undo poe power-management** command, you can restore the default mode.

By default, the PoE management mode on port is **auto**.

Example

Configure the PoE management mode on port to **auto**.

```
[Quidway] poe power-management auto
Auto Power Management is enabled
```

Restore the default management mode.

```
[Quidway] undo poe power-management
Auto Power Management is enabled
```

1.1.9 poe priority

Syntax

poe priority { critical | high | low }

undo poe priority

View

Ethernet port view

Parameter

critical: Set the port priority to **critical**.

high: Set the port priority to **high**.

low: Set the port priority to **low**.

Description

Using the **poe priority** command, you can configure the power supply priority on a port.

Using the **undo poe priority** command, you can restore the default priority.

By default, the port priority is **low**.

Note that if there are too many ports with critical priority, the total power these ports need might exceed the maximum power supplied by the equipment, i.e., 300W. In this case, no new PD can be added to the switch.

When the remaining power of the whole equipment is below 18.8 W, no new PD can be added to the switch.

Example

Set the port priority to **critical**.

```
[Quidway-GigabitEthernet1/0/3] poe priority critical
Set Port PSE priority successfully
```

Restore the default priority.

```
[Quidway-GigabitEthernet1/0/3] undo poe priority
Set Port PSE priority successfully
```

1.1.10 poe update

Syntax

poe update { **refresh** | **full** } *filename*

View

System view

Parameter

refresh: The refresh update mode is used when the PSE processing software is valid.

full: The full update mode is used when the PSE has no valid processing software.

filename: Update file name, with a length of 1 to 64 characters.

Description

Using the **poe update** command, you can update the PSE processing software online

Note that:

- The full mode is used only when you cannot use the **refresh** mode.
- When the update procedure in **refresh** mode is interrupted for some unexpected reason (e.g. power-off) or some errors occur, you can use the **full** mode to re-update.
- When the PSE processing software is damaged (that is, all the PoE commands cannot be successfully executed), you can use the full mode to update and restore the software.

Example

Update the PSE processing software online.

```
[Quidway] poe update refresh 0290_021.s19
```

```
.....
.....
```

```
.....  
.....  
.....  
.....  
.....  
.....  
.....  
Update PoE board successfully
```