



A case about S6520X-HI POE power failure

Switches

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Network Topology

NULL

Problem Description

When the device interface is enabled with POE Enable, ordinary terminal devices, such as AP and camera, cannot be powered. No error is reported when the interface enables POE.

Check the configuration and POE PSE information under the interface, and all are normal:

```
[H-JSF-SW-1-1-01]
[H-JSF-SW-1-1-01]
[H-JSF-SW-1-1-01]dis
[H-JSF-SW-1-1-01]display cur
[H-JSF-SW-1-1-01]display current-configuration in
[H-JSF-SW-1-1-01]display current-configuration interface g
[H-JSF-SW-1-1-01]display current-configuration interface GigabitEthernet 1/0/3
#
interface GigabitEthernet1/0/3
port access-vlan 240
stp edged-port
poe enable
loopback-detection enable vlan 1 to 4094
loopback-detection action no-learning
#
return
[H-JSF-SW-1-1-01]dis
[H-JSF-SW-1-1-01]display poe
[H-JSF-SW-1-1-01]display poe-profile
[H-JSF-SW-1-1-01]display poe ps
[H-JSF-SW-1-1-01]display poe pse
PSE ID : 4
Slot No. : 1
SSlot No. : 0
PSE Model : LSPPSE24B
PSE Status : Enabled
Power Priority : Low
Current Power : 0.0 W
Average Power : 0.0 W
Peak Power : 0.0 W
Max Power : 90.0 W
Remaining Guaranteed Power : 90.0 W
PSE CPLD Version : -
PSE Software Version : 110
PSE Hardware Version : 57855
PSE Legacy PD Detection : Disabled
Power Utilization Threshold : 80
PD Power Policy : Disabled
PD Disconnect-Detection Mode : DC
PD High Inrush : Disabled
[H-JSF-SW-1-1-01]█
```

Solution

Add a command under the interface: POE Standard at. After checking the command parameters, the instructions are as follows. If POE cannot be normally powered in the future, you can modify the parameters to try the power supply test.

poe standard

Use poe standard { at | bt } to specify a PoE standard for a PI.

Use undo poe standard to restore the default.

Syntax

poe standard { at | bt }

undo poe standard

Default

No PoE standard is specified for a PI.

Views

PI view

Predefined user roles

network-admin

Parameters

at: Specifies the IEEE 802.3at standard.

bt: Specifies the IEEE 802.3bt standard.

Usage guidelines

For your configuration to take effect, restore the PI maximum power to the default before you configure this command.

IEEE PoE standards are not forward compatible. For a PI to supply power to PDs, make sure the PoE standard version of the PDs is the same as or earlier than the PoE standard version of the PI.

If a PI operates in IEEE 802.3bt mode and supplies more than 30 W power, changing the PoE standard for the PI will cause the connected PDs to be power cycled. Be cautious when you modify the configuration of this command.

Examples

```
# Specify the PoE standard as IEEE 802.3at for PI SmartRate-Ethernet 1/0/1.
```

```
<Sysname> system-view
```

```
[Sysname] interface SmartRate-Ethernet 1/0/1
```

```
[Sysname-SmartRate-Ethernet1/0/1] poe standard at
```

Related commands

poe class-detect

poe max-power (interface view)

