

知 某局点 S5130S-28P-PWR-EI poe供电异常

以太网接口 刘文粟 2023-01-31 发表

问题描述

现场POE设备给一个定位设备供电，接口一直UP DOWN

接摄像头等其他受电设备没有异常

现场反馈之前正常的，机房断过一次电后异常

现场所有5130S-EI供电给这类设备都有问题

过程分析

找了一个设备 升级了版本测试，开起非标检测，故障依旧，该设备使用的都是长网线
15口到22口接的受电设备

```
#  
poe legacy enable pse 4  
#
```

找了另一个设备，21口能正常供电

使用的接口是 18, 19, 20, 21, 22口

其中21口网线是3米，其他口超过10米，现场表示21口供电是正常的，21口确实没有up down的情况，其他接口都在up down

看接口供电信息没有什么不同

```
%Jan 1 02:15:28:145 2013 6HaoGuiShiPingWang-4 IFNET/5/LINK_UPDOWN: Line protocol state on the interface GigabitEthernet1/0/18 changed to up.  
%Jan 1 02:15:30:716 2013 6HaoGuiShiPingWang-4 IFNET/3/PHY_UPDOWN: Physical state on the interface GigabitEthernet1/0/20 changed to down.  
%Jan 1 02:15:30:717 2013 6HaoGuiShiPingWang-4 IFNET/5/LINK_UPDOWN: Line protocol state on the interface GigabitEthernet1/0/20 changed to down.  
%Jan 1 02:15:31:914 2013 6HaoGuiShiPingWang-4 IFNET/3/PHY_UPDOWN: Physical state on the interface GigabitEthernet1/0/22 changed to down.  
%Jan 1 02:15:31:921 2013 6HaoGuiShiPingWang-4 IFNET/5/LINK_UPDOWN: Line protocol state on the interface GigabitEthernet1/0/22 changed to down.  
%Jan 1 02:15:33:274 2013 6HaoGuiShiPingWang-4 IFNET/3/PHY_UPDOWN: Physical state on the interface GigabitEthernet1/0/19 changed to down.  
%Jan 1 02:15:33:275 2013 6HaoGuiShiPingWang-4 IFNET/5/LINK_UPDOWN: Line protocol state on the interface GigabitEthernet1/0/19 changed to down.  
%Jan 1 02:15:33:326 2013 6HaoGuiShiPingWang-4 IFNET/3/PHY_UPDOWN: Physical state on the interface GigabitEthernet1/0/20 changed to up.  
%Jan 1 02:15:33:332 2013 6HaoGuiShiPingWang-4 IFNET/5/LINK_UPDOWN: Line protocol state on the interface GigabitEthernet1/0/20 changed to up.  
%Jan 1 02:15:34:542 2013 6HaoGuiShiPingWang-4 IFNET/3/PHY_UPDOWN: Physical state on the interface GigabitEthernet1/0/22 changed to up.  
%Jan 1 02:15:34:546 2013 6HaoGuiShiPingWang-4 IFNET/5/LINK_UPDOWN: Line protocol state on the interface GigabitEthernet1/0/22 changed to up.  
%Jan 1 02:15:35:204 2013 6HaoGuiShiPingWang-4 IFNET/3/PHY_UPDOWN: Physical state on the interface GigabitEthernet1/0/19 changed to up.  
%Jan 1 02:15:35:206 2013 6HaoGuiShiPingWang-4 IFNET/5/LINK_UPDOWN: Line protocol state on the interface GigabitEthernet1/0/19 changed to up.
```

21口正常供电，22口异常。

```
<6HaoGuiShiPingWang-4>dis poe int g 1/0/21
```

```
PoE Status          : Enabled  
Power Priority       : Low  
Oper                : On  
IEEE Class          : 0  
Detection Status    : Delivering Power  
Power Mode          : Signal  
Current Power       : 1300 mW  
Average Power       : 1300 mW  
Peak Power          : 1300 mW  
Max Power           : 30000 mW  
Electric Current    : 25 mA  
Voltage             : 53.5 V  
PD Description      :
```

```
Legacy PD Detection : Disabled
```

```
PoE force power Status : Disabled
```

```
<6HaoGuiShiPingWang-4>dis poe int g 1/0/22
```

```
PoE Status          : Enabled
```

Power Priority : Low
Oper : On
IEEE Class : 0
解决方法 Status : Delivering Power
更换网线 : Signal
Current Power : 1300 mW
Average Power : 1289 mW
Peak Power : 1400 mW
Max Power : 30000 mW
Electric Current : 26 mA
Voltage : 53.6 V
PD Description :
Legacy PD Detection : Disabled
PoE force power Status : Disabled

[6HaoGuiShiPingWang-4-probe]debug poe dimm-status 1

POE DIMM status information:

```
=====  
==  
[Master DIMM]: exist  
[Slave DIMM]: absent  
=====  
==
```

*****cmd 0x6 0x9*****

*****cmd 0xfe*****

*****cmd 0x20*****

从诊断看POE没有问题，应该就是普通的UP/DOWN。端口没有错包，不像交换机问题。而且所有终端down到UP都是3S，像是终端有问题，之前有遇到过笔记本重启的过程中会有反复UP/DOWN，每次down到up都是3S。

```
%Jan 1 03:14:57:643 2013 6HaoGuiShiPingWang-2 IFNET/5/LINK_UPDOWN: Line protocol state on the interface GigabitEthernet1/0/16 changed to down.  
%Jan 1 03:14:59:566 2013 6HaoGuiShiPingWang-2 IFNET/3/PHY_UPDOWN: Physical state on the interface GigabitEthernet1/0/20 changed to down.  
%Jan 1 03:14:59:573 2013 6HaoGuiShiPingWang-2 IFNET/5/LINK_UPDOWN: Line protocol state on the interface GigabitEthernet1/0/20 changed to down.  
%Jan 1 03:14:59:590 2013 6HaoGuiShiPingWang-2 IFNET/3/PHY_UPDOWN: Physical state on the interface GigabitEthernet1/0/19 changed :00:617 2013 6HaoGuiShiPingWang-2 IFNET/5/LINK_UPDOWN: Line protocol state on the interface GigabitEthernet1/0/16 ch
```

