

知 S5130S-EI日志告警POE/1/PSE_PORT_ON_OFF_CHANG

POE 一颗小土豆 2022-03-04 发表

组网及说明

设备型号: S5130S_EI

设备版本: 6318P01

组网拓扑: 该设备下接大量话机

问题描述

某局点工程师反馈该设备出现日志告警，想确认如何处理。告警如下图：

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POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 3.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 2.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 38, Detection Status 3.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 3.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 38, Detection Status 2.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 38, Detection Status 3.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 2.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 3.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 2.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 38, Detection Status 2.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 3.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 2.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 3.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 38, Detection Status 3.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 38, Detection Status 2.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 38, Detection Status 3.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 2.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 3.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 17, Detection Status 2.
POE/1/PSE_PORT_ON_OFF_CHANGE: Trap <pethPsePortOnOffNotification>: PSE 4, IfIndex 38, Detection Status 2.
```

过程分析

从日志告警信息可看出告警信息为POE供电端口存在UP,DOWN。因此去查看POE端口信息 (display poe interface) , 如图:

GE1/0/16	Enabled	Low	2.0	On	2	Delivering Power
GE1/0/17	Enabled	Low	0.0	Power-deny	0	PD Disconnected
GE1/0/18	Enabled	Low	0.5	On	2	Delivering Power
GE1/0/19	Enabled	Low	0.0	Off	0	Searching
GE1/0/20	Enabled	Low	2.3	On	2	Delivering Power
GE1/0/21	Enabled	Low	0.0	Off	0	Searching
GE1/0/22	Enabled	Low	0.0	Off	0	Searching
GE1/0/23	Enabled	Low	0.0	Off	0	Searching
GE1/0/24	Enabled	Low	0.0	Off	0	Searching
GE1/0/25	Enabled	Low	0.0	Off	0	Searching
GE1/0/26	Enabled	Low	0.0	Off	0	Searching
GE1/0/27	Enabled	Low	0.0	Off	0	Searching
GE1/0/28	Enabled	Low	0.0	Off	0	Searching
GE1/0/29	Enabled	Low	0.0	Off	0	Searching
GE1/0/30	Enabled	Low	0.0	Off	0	Searching
GE1/0/31	Enabled	Low	2.4	On	2	Delivering Power
GE1/0/32	Enabled	Low	0.0	Off	0	Searching
GE1/0/33	Enabled	Low	0.0	Off	0	Searching
GE1/0/34	Enabled	Low	0.0	Off	0	Searching
GE1/0/35	Enabled	Low	0.0	Off	0	Searching
GE1/0/36	Enabled	Low	2.3	On	2	Delivering Power
GE1/0/37	Enabled	Low	0.0	Off	0	Searching
GE1/0/38	Enabled	Low	0.0	Power-deny	0	PD Disconnected
GE1/0/39	Enabled	Low	0.0	Off	0	Searching
GE1/0/40	Enabled	Low	0.0	Off	0	Searching

也对应告警信息的接口索引号

异常端口也对应告警信息的接口索引号。查看对应的参数含义, 发现是端口1/0/17和端口1/0/38拒绝供电, 因为PD (被供电设备) 要求功率大于配置功率。

CurPower	PoE接口功率
Oper	PoE接口工作状态: <ul style="list-style-type: none">Off: 供电功能处于关闭状态On: 正在正常供电Power-lack: 剩余保证功率不够, 导致无法给Critical接口供电Power-deny: 拒绝供电, PD要求功率大于配置功率Power-itself: 外接设备正在自己供电Power-limit: 正在受限供电, PD要求功率大于配置功率, PSE仍按配置功率供电
IEEE Class	PoE接口为PD供电的功率等级 显示为“-”表示PoE接口不支持为当前PD供电
Detection Status	PoE接口检测状态: <ul style="list-style-type: none">Disabled: PoE接口供电处于关闭状态Searching: 正在搜索PDDelivering Power: 正在向PD供电Fault: 错误Test: 测试状态Other Fault: 其他错误状态PD Disconnected: PD未连接

解决方法

由于现场反馈下联的PD设备都是同一批相同型号的话机，因此应该不存在该问题。建议工程师对话机进行替换到别的端口排查一下。

现场工程师再排查过程中发现是因为该话机被可以另外接了电源，去掉电源后无告警。

