

知 某局点6520X-EI设备端口up down但无TC

STP 张猛 2021-12-22 发表

问题描述

设备：6520X-EI

版本：R6510

设备万兆口1/0/41口下连服务器，端口有震荡日志：

%Oct 21 17:50:16:506 2021 yewuSW-1 IFNET/3/PHY_UPDOWN: Physical state on the interface Ten-GigabitEthernet1/0/41 changed to up.

%Oct 21 17:50:16:511 2021 yewuSW-1 IFNET/5/LINK_UPDOWN: Line protocol state on the interface Ten-GigabitEthernet1/0/41 changed to up.

%Oct 21 17:50:18:202 2021 yewuSW-1 LLDP/6/LLDP_CREATE_NEIGHBOR: Nearest bridge agent neighbor created on port Ten-GigabitEthernet1/0/41 (IfIndex 41), neighbor's chassis ID is f8f2-1eb4-48b1, port ID is f8f2-1eb4-48b1.

%Oct 21 17:50:31:155 2021 yewuSW-1 IFNET/3/PHY_UPDOWN: Physical state on the interface Ten-GigabitEthernet1/0/41 changed to down.

但是设备上并无相应TC报文产生，查看端口stp是使能的，且没有配置边缘端口：

#

```
interface Ten-GigabitEthernet1/0/41
```

```
port link-mode bridge
```

```
description pT-OFF-N-41
```

```
port link-type trunk
```

```
undo port trunk permit vlan 1
```

```
port trunk permit vlan 1000 to 1254 2000 to 2069
```

#

后查看端口stp状态发现，边缘端口有两种状态，一种是config即用户配置的，另一种是active，即设备自动检测的，设备自动将端口设为了边缘端口，因此在端口震荡时不会产生TC报文。

---[Port41(Ten-GigabitEthernet1/0/41)][FORWARDING]---

Port protocol : Enabled

Port role : Designated Port

Port ID : 128.41

Port cost(Legacy) : COnfig=auto, Active=2

Desg.bridge/port : 32768.00be-d5ed-49c0, 128.41

Port edged : COnfig=disabled, Active=enable//自动变成边缘端口

Point-to-Point : COnfig=auto, Active=true

Transmit limit : 10 packets/hello-time

TC-Restriction : Disabled

Role-Restriction : Disabled

Protection type : COnfig=none, Active=none

MST BPDU format : COnfig=auto, Active=802.1s

Port Config-

Digest-Snooping : Disabled

Rapid transition : True

Num of VLANs mapped : 325

Port times : Hello 2s MaxAge 20s FwdDelay 15s MsgAge 1s RemHops 20

BPDU sent : 1767753

TCN: 0, Config: 0, RST: 0, MST: 1767753

BPDU received : 0

TCN: 0, Config: 0, RST: 0, MST: 0

解决方法

当端口开启生成树功能后，设备将自动对端口进行一次边缘端口监测。即如果端口在 $(2 \times \text{Hello Time} + 1)$ 秒内没有收到BPDU报文，则会自动将端口设置为边缘端口。

