

知 After S7500X was connected with Cisco, the Cisco interface was error-disabled

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组网及说明

NULL

问题描述

After replacing the S5560EI, the S7503X is connected to the Cisco MSTP, but the Cisco device port is blocked. The aggregation port 4 of our device is connected to the aggregation port 4 of Cisco.

When Cisco configures No Spanning-BPDUFilter to filter out the BPDU we sent, the solution will be solved.

The customer suspected that Cisco had a problem with our MSTP.

spanning-tree mst configuration

name py.dwgl.grcb

revision 1

stp region-configuration

region-name py.dwgl.grcb

revision-level 1

active region-configuration

过程分析

Here's why Cisco is blocking:

Cisco device received two BPDU's from the interface connected to our 7500X, one for the configuration BPDU and one for the TC BPDU:

```
PYDC_2FN06_DaiW_AS29(config-if)#
```

```
PYDC_2FN06_DaiW_AS29(config-if)#TP: MST0 rx BPDU: config protocol = mstp, packet from Port-channel1 , linktype SSTP , enctype 3, encsize 22
```

```
*Aug 6 17:31:18.173: STP: enc 01 00 0C CC CC CD 88 75 56 DC E4 B1 00 32 AA AA 03 00 00 0C 01 0B
```

```
*Aug 6 17:31:18.173: STP: Data  
000000000182C6887556DCE4800000000082C6887556DCE48080380000140002000F00
```

```
*Aug 6 17:31:18.173: STP: MST0 Po1:0000 00 00 01 82C6887556DCE480 00000000 82C6887556DCE480 8038 0000 1400 0200 0F00
```

```
*Aug 6 17:31:18.173: STP: MST0 rx BPDU: config protocol = mstp, packet from
```

```
PYDC_2FN06_DaiW_AS29(config-if)#om Port-channel1 , linktype SSTP , enctype 3, encsize 22
```

```
*Aug 6 17:31:18.173: STP: enc 01 00 0C CC CC CD 88 75 56 DC E4 B1 00 32 AA AA 03 00 00 0C 01 0B
```

```
*Aug 6 17:31:18.173: STP: Data  
000000000182C7887556DCE48000000000082C7887556DCE48080380000140002000F00
```

```
*Aug 6 17:31:18.173: STP: MST0 Po1:0000 00 00 01 82C7887556DCE480 00000000 82C7887556DCE480 8038 0000 1400 0200 0F00
```

```
*Aug 6 17:31:19.440: STP: MST0 rx BPDU: config protocol = mstp, packet from Port-channel1 , linktype IEEE_SPANNING , enctype
```

```
PYDC_2FN06_DaiW_AS29(config-if)#e 2, encsize 17
```

```
*Aug 6 17:31:19.440: STP: enc 01 80 C2 00 00 00 00 0F E2 07 F2 E0 00 69 42 42 03
```

```
*Aug 6 17:31:19.440: STP: Data  
000003023C0000101965CAAE00000000000000101965CAAE0088DD0000140002000F00
```

```
*Aug 6 17:31:19.448: STP: MST0 Po1:0000 03 02 3C 0000101965CAAE00 00000000 0000101965CAAE00 88DD 0000 1400 0200 0F00
```

```
*Aug 6 17:31:20.178: %PM-4-ERR_DISABLE: channel-misconfig error detected on Gi0/3, putting Gi0/3 in err-disable state
```

```
*Aug 6 17:31:20.178: %PM-4-ERR_DISABLE: channel-misconfig
```

```
PYDC_2FN06_DaiW_AS29(config-if)# error detected on Gi0/4, putting Gi0/4 in err-disable state
```

```
*Aug 6 17:31:20.186: %PM-4-ERR_DISABLE: channel-misconfig error detected on Po1, putting Gi0/3 in err-disable state
```

```
*Aug 6 17:31:20.186: %PM-4-ERR_DISABLE: channel-misconfig error detected on Po1, putting Gi0/4 in err-disable state
```

```
*Aug 6 17:31:20.186: %PM-4-ERR_DISABLE: channel-misconfig error detected on Po1, putting Po1
```

in err-disable state

*Aug 6 17:31:21.184: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/3, changed state to down
解决方法

We configure STP pvst-bpdu-protection command on our device, which will down the port receiving

*Aug 6 17:31:21.184: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/4, changed state to down
We also are recommended to find the 8875-56DC-E480 equipment.

*Aug 6 17:31:21.193: %LINEPROTO-5-UPDOWN: Line protocol on Interface Port-channel1, changed state to down

*Aug 6 17:31:22.191: %LINK-3-UPDOWN: Interface GigabitEthernet0/3, changed state to down

*Aug 6 17:31:22.191: %LINK-3-UPDOWN: Interface Port-channel1, changed state to down

*Aug 6 17:31:22.191: %LINK-3-UPDOWN: Interface GigabitEthernet0/4, changed state to down
no spanning-bpdu-filter

PYDC_2FN06_DaiW_AS29(config-if)#no spanning-bpdufilter

*Feb 7 09:49:20:042 2021 PYDC_2FN08_DWGL_DS7503_IRF STP/7/PKT: -MDC=1;

Port18653(Bridge-Aggregation4) sent MSTP-dot1s Packet(Length: 102)

ProtocolVersionID: 03

BPDUType : 02

CIST Root ID : 0.1019-65ca-ae00

External RPC : 0

Reg Root ID : 0.1019-65ca-ae00

Internal RPC : 0

CIST Bridge ID : 0.1019-65ca-ae00

CIST Port ID : 128.2269

(Instance)Flags : (00)Desif FL]

%Feb 7 09:49:20:939 2021 PYDC_2FN08_DWGL_DS7503_IRF STP/6/STP_DETECTED_TC: -MDC=1; Instance 0's port Bridge-Aggregation4 detected a topology change.

*Feb 7 09:49:20:940 2021 PYDC_2FN08_DWGL_DS7503_IRF STP/7/PKT: -MDC=1;

Port18653(Bridge-Aggregation4) received STP Packet(Length: 35)

ProtocolVersionID: 00

BPDUType : 00

Root ID : 32768.f025-72fc-1a80

Path Cost : 0

Bridge ID : 32768.f025-72fc-1a80

Port ID : 128.56

Flags : [Tc]

