

知 某局点S7610设备接口up down震荡未记录案例

以太网接口 于欣欣 2020-11-08 发表

组网及说明

无

问题描述

10.29日上午9:18分设备端口down up 了一次。
%Oct 29 09:18:14:211 2020 S7610 LAGG/6/LAGG_INACTIVE_PARTNER: Member port XGE0/0/3 of aggregation group BAGG2 changed to the inactive state, because the aggregation configuration of its peer port is incorrect.
%Oct 29 09:18:14:229 2020 S7610 IFNET/5/LINK_UPDOWN: Line protocol state on the interface Ten-GigabitEthernet0/0/3 changed to down.
%Oct 29 09:18:14:236 2020 S7610 IFNET/3/PHY_UPDOWN: Physical state on the interface Bridge-Aggregation2 changed to down.
%Oct 29 09:18:14:236 2020 S7610 IFNET/5/LINK_UPDOWN: Line protocol state on the interface Bridge-Aggregation2 changed to down.
%Oct 29 09:18:15:110 2020 S7610 LAGG/6/LAGG_ACTIVE: Member port XGE0/0/3 of aggregation group BAGG2 changed to the active state.
%Oct 29 09:18:15:126 2020 S7610 IFNET/5/LINK_UPDOWN: Line protocol state on the interface Ten-GigabitEthernet0/0/3 changed to up.
%Oct 29 09:18:15:147 2020 S7610 IFNET/3/PHY_UPDOWN: Physical state on the interface Bridge-Aggregation2 changed to up.

而接口下接口下记录的最后一次down up的时间是10.28日下午的down up 记录：

```
Ten-GigabitEthernet0/0/3
Current state: UP
Line protocol state: UP
IP packet frame type: Ethernet II, hardware address: 84d9-3137-1e00
Description: to BC_BC_ME60-X8_10G_GE2/1/3
Bandwidth: 10000000 kbps
Loopback is not set
Media type is optical fiber, port hardware type is 10G_BASE_ER_SFP
10Gbps-speed mode, full-duplex mode
Link speed type is autonegotiation, link duplex type is autonegotiation
Flow-control is not enabled
Maximum frame length: 9216
Allow jumbo frames to pass
Broadcast max-ratio: 100%
Multicast max-ratio: 100%
Unicast max-ratio: 100%
PVID: 1
MDI type: Automdix
Link-down delay is 3s, link-up delay is 3s
Port link-type: Trunk
VLAN Passing: 1001-2000, 3602, 3845-3899, 4000-4045
VLAN permitted: 1001-2000, 3602, 3845-3899, 4000-4045
Trunk port encapsulation: IEEE 802.1q
Port priority: 0
Last link flapping: 17 hours 27 minutes 17 seconds
Last clearing of counters: Never
Current system time:2020-10-29 10:02:49 China+08:00:00
Last time when physical state changed to up:2020-10-28 16:35:31 China+08:00:00
Last time when physical state changed to down:2020-10-28 16:34:53 China+08:00:00
Peak input rate: 674173395 bytes/sec, at 2020-09-26 21:55:01
Peak output rate: 198728771 bytes/sec, at 2020-09-14 21:02:10
Last 300 seconds input: 151930 packets/sec 177729250 bytes/sec 14%
Last 300 seconds output: 103243 packets/sec 46300011 bytes/sec 4%
Input (total): 948030105098 packets, 1099317284012196 bytes
          948027729299 unicasts, 0 broadcasts, 145466 multicasts, 0 pauses
Input (normal): 948027874765 packets, - bytes
          948027729299 unicasts, 0 broadcasts, 145466 multicasts, 0 pauses
```

Input: 2227928 input errors, 7439 runts, 0 giants, 0 throttles
2220489 CRC, 0 frame, - overruns, 5446 aborts
- ignored, - parity errors
Output (total): 620434871236 packets, 289586298121410 bytes
620409619638 unicasts, 16446638 broadcasts, 8804960 multicasts, 0 pauses
Output (normal): 620434871236 packets, - bytes
620409619638 unicasts, 16446638 broadcasts, 8804960 multicasts, 0 pauses
Output: 0 output errors, - underruns, - buffer failures
0 aborts, 0 deferred, 0 collisions, 0 late collisions
0 lost carrier, - no carrier

经确认，

10.28日下午接口确实down up过的接口震荡信息：

```
%Oct 28 16:34:54:063 2020 S7610 IFNET/3/PHY_UPDOWN: Physical state on the interface Bridge-Aggregation2 changed to down.  
%Oct 28 16:34:54:067 2020 S7610 IFNET/5/LINK_UPDOWN: Line protocol state on the interface Bridge-Aggregation2 changed to down.  
%Oct 28 16:35:31:367 2020 S7610 IFNET/3/PHY_UPDOWN: Physical state on the interface Ten-GigabitEthernet0/0/3 changed to up.  
%Oct 28 16:35:31:395 2020 S7610 LAGG/6/LAGG_ACTIVE: Member port XGE0/0/3 of aggregation group BAGG2 changed to the active state.  
%Oct 28 16:35:31:413 2020 S7610 IFNET/5/LINK_UPDOWN: Line protocol state on the interface Ten-GigabitEthernet0/0/3 changed to up.  
%Oct 28 16:35:31:424 2020 S7610 IFNET/3/PHY_UPDOWN: Physical state on the interface Bridge-Aggregation2 changed to up.
```

为什么接口没有记录下10.29日上午的震荡信息呢？

过程分析

1. 两次log 打印不一样。

第1次，有端口 Physical state down 打印，且down 时间接近 30 秒，远远大于 3 秒的 link delay up 值

```
%Oct 28 16:34:53:990 2020 S7610 IFNET/3/PHY_UPDOWN: Physical state on the interface Ten-GigabitEthernet0/0/3 changed to down.  
%Oct 28 16:34:54:023 2020 S7610 IFNET/5/LINK_UPDOWN: Line protocol state on the interface Ten-GigabitEthernet0/0/3 changed to down.  
%Oct 28 16:35:31:367 2020 S7610 IFNET/3/PHY_UPDOWN: Physical state on the interface Ten-GigabitEthernet0/0/3 changed to up.  
%Oct 28 16:35:31:413 2020 S7610 IFNET/5/LINK_UPDOWN: Line protocol state on the interface Ten-GigabitEthernet0/0/3 changed to up.
```

第2次，没有 Physical state down 打印，且 down 时间只有持续了 1 秒，小于 3 秒的 link delay 3 值。产品没有向上报 端口 link down 事件。

```
%Oct 29 09:18:14:229 2020 S7610 IFNET/5/LINK_UPDOWN: Line protocol state on the interface Ten-GigabitEthernet0/0/3 changed to down.  
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```

接口下记录：Ten-GigabitEthernet0/0/3 显示的是 Physical state up / down 的时间

Last time when physical state changed to up:2020-10-28 16:35:31 China+08:00:00

Last time when physical state changed to down:2020-10-28 16:34:53 China+08:00:00

解决方法

【结论】 正常情况；

只记录物理的down up时间，不记录由于协议引起的down up。

