

# 知 S7510X内联口状态为discarding的经验处理案例

以太网接口 STP 单板 李熙 2022-04-21 发表

组网及说明

不涉及

告警信息

不涉及

#### 问题描述

S7510E-X上部署防火墙板卡LSQM1FWDSC0, 四个互联口均正常up, 其他三个口状态为forwarding, 仅2/0/1口端口状态为discarding

## 过程分析

1、down掉其他三个内联口，状态依旧是discarding

XGE2/0/1	UP	10G(a)	F(a)	A	1
XGE2/0/2	ADM	auto	A	A	1
XGE2/0/3	ADM	auto	A	A	1
XGE2/0/4	ADM	auto	A	A	1

```
<S7510E-X>dis stp brief
MST ID  Port                Role  STP State  Protection
0       Bridge-Aggregation1  DESI  FORWARDING NONE
0       Bridge-Aggregation3 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation4 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation5 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation6 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation7 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation8 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation9 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation12 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation13 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation14 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation15 (DR)  DESI  FORWARDING NONE
0       Bridge-Aggregation16 (DR)  DESI  FORWARDING NONE
0       Ten-GigabitEthernet2/0/1  DESI  DISCARDING NONE
```

2、查看端口锁定原因，是Loopback-Protected，表示发生了自环保护，即端口收到了自己发出的协议报文，通过debug看是2/0/1口是收到了自己发出的BPDU报文，所以被阻塞了；但由于FW板卡通过内联口互联，板上再无其他接口，所以不存在环路等说法

```
=====display stp abnormal-port=====
```

```
---[Ten-GigabitEthernet2/0/1]---
```

MST ID	BlockReason	Time
0	Loopback-Protected	04:13:39 04/13/2022
0	Loopback-Protected	04:13:37 04/13/2022
0	Loopback-Protected	04:13:35 04/13/2022

```
%Apr 13 03:35:44:685 2022 S7510E-X STP/4/STP_LOOPBACK_PROTECTION: -Slot=2; Instance 0's port Ten-GigabitEthernet2/0/1 received its own BPDU.
```

```
%Apr 13 03:36:45:397 2022 S7510E-X STP/4/STP_LOOPBACK_PROTECTION: -Slot=2; Instance 0's port Ten-GigabitEthernet2/0/1 received its own BPDU.
```

```
%Apr 13 03:57:40:768 2022 S7510E-X STP/4/STP_LOOPBACK_PROTECTION: -Slot=2; Instance 0's port Ten-GigabitEthernet2/0/1 received its own BPDU.
```

3、继续排查发现，内联口2/0/1在FW上做了反射模式，该模式下就是一个接口完成收发包，会把交换机的BPDU在发回来，导致检测异常形成阻塞

## 解决方法

内联口对接FW板卡，这种方式下交换机侧端口不能开启stp，且需要关闭接口的源MAC检查，即undo mac-address static source-check enable.

