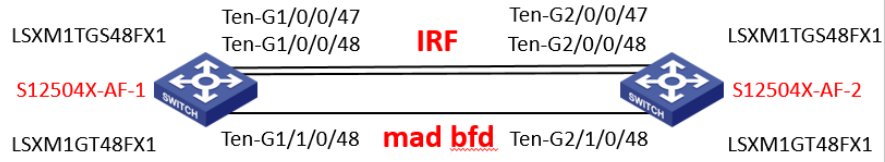


某局点S12504X-AF堆叠将bfd vlan放通至其它端口造成bfd状态异常的典型案例

BFD 堆叠 王姑娘 2022-02-28 发表

组网及说明

两S12504X-AF框上的业务板LSXM1TGS48FX1跨框做的堆叠，LSXM1GT48FX1业务板上做的mad bfd，如下：



问题描述

手动重启主设备上面的主用主控板之后，bfd状态一直异常，具体如下：

```

action time expired
bfd 18 11:04:11:771 2022 83-RSBAK-OLMGZ-DSW-0102 BFD/5/BFD_CHANGE_FSM: Sess[10.120.0.2/10.120.0.1, LO/RD:8001/129, Interface:Vlan395, SessType:ctrl, LinkType:INET], Ver:1, Sta: DOWN->INIT, Dtag: 0 (No Diagnost
IC)
Mon 18 11:04:14:616 2022 83-RSBAK-OLMGZ-DSW-0102 BFD/5/BFD_CHANGE_FSM: Sess[10.120.0.2/10.120.0.1, LO/RD:8001/129, Interface:Vlan395, SessType:ctrl, LinkType:INET], Ver:1, Sta: INIT->DOWN, Dtag: 1 (Control Det
action time expired
bfd 18 11:04:14:683 2022 83-RSBAK-OLMGZ-DSW-0102 BFD/5/BFD_CHANGE_FSM: Sess[10.120.0.2/10.120.0.1, LO/RD:8001/129, Interface:Vlan395, SessType:ctrl, LinkType:INET], Ver:1, Sta: DOWN->INIT, Dtag: 0 (No Diagnost
IC)
Mon 18 11:04:15:916 2022 83-RSBAK-OLMGZ-DSW-0102 BFD/5/BFD_CHANGE_FSM: Sess[10.120.0.2/10.120.0.1, LO/RD:8001/129, Interface:Vlan395, SessType:ctrl, LinkType:INET], Ver:1, Sta: INIT->DOWN, Dtag: 1 (Control Det
action time expired
bfd 18 11:04:15:931 2022 83-RSBAK-OLMGZ-DSW-0102 BFD/5/BFD_CHANGE_FSM: Sess[10.120.0.2/10.120.0.1, LO/RD:8001/129, Interface:Vlan395, SessType:ctrl, LinkType:INET], Ver:1, Sta: DOWN->INIT, Dtag: 0 (No Diagnost
IC)
Mon 18 11:04:17:016 2022 83-RSBAK-OLMGZ-DSW-0102 BFD/5/BFD_CHANGE_FSM: Sess[10.120.0.2/10.120.0.1, LO/RD:8001/129, Interface:Vlan395, SessType:ctrl, LinkType:INET], Ver:1, Sta: INIT->DOWN, Dtag: 1 (Control Det
action time expired

```

过程分析

1, 查看本端具体配置并无问题:

```
#
vlan 295
#
interface GigabitEthernet1/1/0/48
port link-mode bridge
port access vlan 295
undo stp enable
#
interface GigabitEthernet2/1/0/48
port link-mode bridge
port access vlan 295
undo stp enable
#
interface Vlan-interface295
description BFD MAD Interface
mad bfd enable
mad ip address 10.120.0.1 255.255.255.252 member 1
mad ip address 10.120.0.2 255.255.255.252 member 2
```

2, 日志中有如下报错:

```
%@15630%Feb 18 13:42:03:003 2021 BJ-RSBAK-INTDMZ-DSW-0102 ARP/6/DUFIIP: -Chassis=1
-Slot=1; Duplicate address 10.120.0.1 on interface Vlan-interface295, sourced from 4873-978a-1361
, 后查找4873-978a-0961为6520X上的 BFD接口, 该设备与12504有二层聚合口, 当时互联trunk放行
了vlan395。
```

3, 确认是ip和vlan配置导致125收到了6520X发过来的bfd报文, 使得bfd状态异常, 正常堆叠的bfd报
文LD与RD值是相同的: 都应该是8001

```
%Feb 18 10:46:55:790 2022 BJ-RSBAK-DLDMZ-DSW-0102 BFD/5/BFD_CHANGE_FSM: Sess[10.1
20.0.2/10.120.0.1, LD/RD:8001/129, Interface:Vlan395, SessType:Ctrl, LinkType:INET], Ver:1, Sta: U
P->DOWN, Diag: 3 (Neighbor Signaled Session Down)
```

```
%Feb 18 10:46:55:933 2022 BJ-RSBAK-DLDMZ-DSW-0102 BFD/5/BFD_CHANGE_FSM: Sess[10.1
20.0.2/10.120.0.1, LD/RD:8001/129, Interface:Vlan395, SessType:Ctrl, LinkType:INET], Ver:1, Sta: D
OWN->INIT, Diag: 0 (No Diagnostic)
```

4, Bfd检测vlan要求严格隔离的, 不可以有其它端口放通该vlan, 且不建议设备上有trunk permit vlan a
ll的配置, 建议精细划分vlan。此外, 不同堆叠组的mad vlan以及mad ip也建议配置成不一样的地址,
防止再次出现类似问题。

解决方法

修改6520X端口相关配置，不可将bfd检测端口外的其它端口加入该vlan。

