

知 某局点S6520X-EI-G交换机聚合口异常震荡

二层链路聚合 董智敏 2021-12-14 发表

组网及说明

防火墙----- (bagg3) 125X (bagg64) ---- (bagg63, 8465-69cc-ae00) S6520X-EI-G
S125X通过动态聚合分别和S6520X-EI-G以及防火墙互联

问题描述

现场logbuffer一直报聚合口震荡，具体日志如下：

```
%Apr 15 21:23:29:841 2021 CQ1-F1_2F-A07-BB-MCE-S12508-2 LAGG/6/LAGG_INACTIVE_PART  
NER: Member port FGE3/0/13 of aggregation group BAGG64 changed to the inactive state, because  
the aggregation configuration of its peer port is incorrect.
```

```
%Apr 15 21:23:29:865 2021 CQ1-F1_2F-A07-BB-MCE-S12508-2 LAGG/6/LAGG_ACTIVE: Member  
port FGE3/0/13 of aggregation group BAGG64 changed to the active state.
```

```
%Apr 15 21:23:39:816 2021 CQ1-F1_2F-A07-BB-MCE-S12508-2 LAGG/6/LAGG_INACTIVE_PART  
NER: Member port FGE3/0/13 of aggregation group BAGG64 changed to the inactive state, because  
the aggregation configuration of its peer port is incorrect.
```

```
%Apr 15 21:23:39:832 2021 CQ1-F1_2F-A07-BB-MCE-S12508-2 LAGG/6/LAGG_ACTIVE: Member  
port FGE3/0/13 of aggregation group BAGG64 changed to the active state.
```

```
%Apr 15 21:23:41:818 2021 CQ1-F1_2F-A07-BB-MCE-S12508-2 LAGG/6/LAGG_INACTIVE_PART  
NER: Member port FGE3/0/13 of aggregation group BAGG64 changed to the inactive state, because  
the aggregation configuration of its peer port is incorrect.
```

过程分析

debug link-agg lacp pack发现6520X上收到了其他聚合口的lacp报文

```
<CQ1-F1_2F-A07-TAP-6520X>debug link-agg lacp pack all int hge1/0/51
```

```
<CQ1-F1_2F-A07-TAP-6520X>t m
```

The current terminal is enabled to display logs.

```
<CQ1-F1_2F-A07-TAP-6520X>t d
```

The current terminal is enabled to display debugging logs.

```
*Jan 9 01:12:47:318 2011 CQ1-F1_2F-A07-TAP-6520X LAGG/7/Packet: PACKET.HundredGigE1/0/51.receive.
```

```
size=110, subtype=1, version=1
```

```
Actor: type=1, len=20, sys-pri=0x8000, sys-mac=7057-bff5-5800, key=0x1, pri=0x8000, port-index=0x3, state=0x3d
```

```
Partner: type=2, len=20, sys-pri=0x8000, sys-mac=5098-b8d6-6000, key=0xa, pri=0x8000, port-index=0xf, state=0x3d
```

```
Collector: type=3, len=16, col-max-delay=0x0
```

```
Terminator: type=0, len=0
```

进一步排查发现125X上配置了本地端口镜像，且镜像的源端口和目的端口都是动态聚合口。所以问题原因是125X本地镜像将其与防火墙之间的lacp报文镜像到了6520X上，对于聚合协议报文，设备匹配lacp协议报文目的MAC（0180-C200-0002）上送CPU的，因此只要收到正常的lacp协议报文就会上送CPU处理，并回应，从而导致6520X的lacp计算出现问题。

解决方法

镜像源端口和目的端口都是动态聚合的情况，建议镜像目的端口配置静态聚合对接

