S10508V5版本堆叠后做跨版跨框动态链路聚合部分成员端口未选中
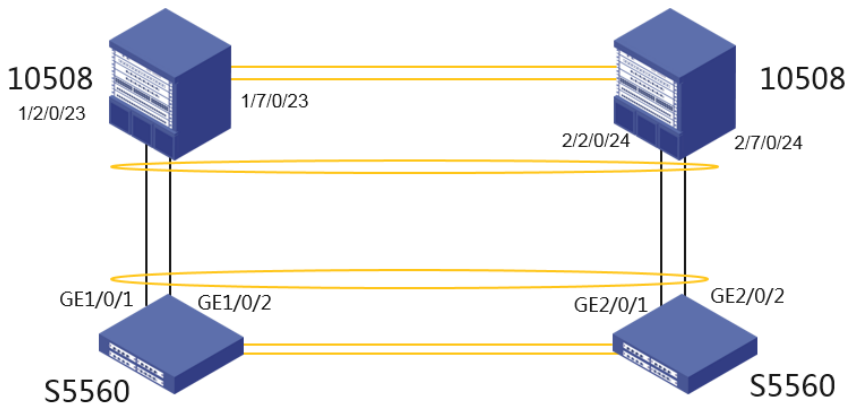
三层链路聚合　　**郭尧**　2020-03-24 发表

组网及说明

基于IRF两设备进行动态链路聚合对接

问题描述

现场动态链路聚合口有四个成员端口，只有一个成员端口被选中，其他成员端口均处于未选中状态

Aggregate Interface: Bridge-Aggregation1

Aggregation Mode: Dynamic

Loadsharing Type: Shar

Management VLANs: None

System ID: 0x8000, 9429-2f4c-80b5

Local:

Port	Status	Priority	Index	Oper-Key	Flag
GE1/0/1	S	32768	1	1	{ACDEF}
GE1/0/2	U	32768	2	1	{ACG}
GE2/0/1	U	32768	3	1	{ACG}
GE2/0/2	U	32768	4	1	{ACG}

Aggregation Interface: Bridge-Aggregation23

Aggregation Mode: Dynamic

Loadsharing Type: Shar

System ID: 0x8000, 70f9-6dea-7745

Local:

Port	Status	Priority	Oper-Key	Flag
GE2/7/0/24	U	32768	7	{AG}
GE2/2/0/24	U	32768	7	{A}
GE1/2/0/23	S	32768	7	{ACDEF}
GE1/7/0/23	U	32768	7	{ACG}

过程分析

S5560端配置如下：

interface GigabitEthernet1/0/1

 port link-mode bridge

 port link-type trunk

 undo port trunk permit vlan 1

 port trunk permit vlan 2000 2002 3005

 port link-aggregation group 1

interface GigabitEthernet1/0/2

 port link-mode bridge

 port link-type trunk

 undo port trunk permit vlan 1

```
  port trunk permit vlan 2000 2002 3005
  port link-aggregation group 1


interface GigabitEthernet2/0/1
 port link-mode bridge
 port link-type trunk
 undo port trunk permit vlan 1
 port trunk permit vlan 2000 2002 3005
 port link-aggregation group 1
interface GigabitEthernet2/0/2
 port link-mode bridge
 port link-type trunk
 undo port trunk permit vlan 1
 port trunk permit vlan 2000 2002 3005
 port link-aggregation group 1
```
接口属性类及协议类配置均一致，没有问题

查看接口情况：
GigabitEthernet1/0/1
Current state: UP
Line protocol state: UP
GigabitEthernet1/0/2
Current state: UP
Line protocol state: DOWN(LAGG)
GigabitEthernet2/0/1
Current state: DOWN
Line protocol state: DOWN(LAGG)
GigabitEthernet2/0/2
Current state: DOWN
Line protocol state: DOWN(LAGG)
未选中端口均被聚合协议down，怀疑对端聚合有问题

S10508支持跨框跨设备聚合
S10508端配置如下：
```
interface GigabitEthernet1/2/0/23
 port link-mode bridge
 port link-type trunk
 undo port trunk permit vlan 1
 port trunk permit vlan 2000 2002 3005
 mirroring-group 1 mirroring-port both
 port link-aggregation group 23


interface GigabitEthernet1/7/0/23
 port link-mode bridge
 port link-type trunk
 port trunk permit vlan 1 2000 2002
 mirroring-group 1 mirroring-port both
 port link-aggregation group 23


interface GigabitEthernet2/2/0/24
 port link-mode bridge
 port link-type trunk
 port trunk permit vlan 1 2000 2002 3005
 port link-aggregation group 23


interface GigabitEthernet2/7/0/24
 port link-mode bridge
 port link-type trunk
 port trunk permit vlan 1 2000 2002 3005
 port link-aggregation group 23
```

首先在S5560设备上看看聚合接口以及其成员端口下面的配置没有发现异常情况，查看接口状态时，
发现未选中的成员接口被聚合协议down，这种情况可能是对端对应的未选中的成员端口异常导致两端

接口协商异常从而导致本端接口被聚合协议down

查看S10508设备的配置，发现未选中成员端口配置和参考端口不一致，和参考端口属性类配置不一致的聚合成员端口无法成为选中端口

1. 10508设备为V5版本，建议聚合成员端口default后再重新加入聚合组，在聚合接口下进行属性类配置，保证各成员端口的属性类配置完全一致

2. 聚合接口下属性类配置会自动同步到成员端口下，成员端口撤离聚合组后端口配置将会保留

3. 建议不要把镜像反射端口加入聚合组

配置聚合接口时建议注意以下几点：

1. 某些设备不支持跨框跨设备聚合
2. 操作Key和属性类配置与参考端口不一致
3. 成员端口状态down
4. 对端端口操作Key和属性类配置与参考端口不一致
5. 候选端口数量超限
6. V5设备端口配置顺序