

知 某局点S6812-48X6C 部署DRNI组网随机一台成员设备不通, ARP学习异常

二层转发 甄锡坤 2022-08-30 发表

组网及说明

不涉及

告警信息

不涉及

## 问题描述

两台6812使用H1/0/49、H1/0/50聚合做IPP。Ten1/0/48做Keepalive。使用Ten1/0/45、Ten1/0/46聚合上联，在6812上创建vlan1000，从核心交换机上ping 6812-1的IP 11.4.254.201能通，但是ping 6812-2的IP 11.4.254.202不通。在两台6812交换机之间ping对端设备的vlan1000地址也不通。

```
<XG-S097_096-S6812-BS-AS1:2>ping 11.4.254.201
Ping 11.4.254.201 (11.4.254.201): 56 data bytes, press CTRL+C to break
Request time out
Request time out
Request time out
Request time out
Request time out
Request time out
--- Ping statistics for 11.4.254.201 ---
5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss
```

```
<XG-S097_096-S6812-BS-AS1:2>ping 11.4.254.203
Ping 11.4.254.203 (11.4.254.203): 56 data bytes, press CTRL+C to break
Request time out
--- Ping statistics for 11.4.254.203 ---
2 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss
```

```
<XG-S097_096-S6812-BS-AS1:2>ping 11.4.254.254
Ping 11.4.254.254 (11.4.254.254): 56 data bytes, press CTRL+C to break
Request time out
--- Ping statistics for 11.4.254.254 ---
1 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss
```

```
<XG-S097_096-S6812-BS-AS1:1>dis drni summary
Flags: A -- Aggregate interface down, B -- No peer DR interface configured
       C -- Configuration consistency check failed
```

```
IPP: BAGG1024
IPP state (cause): UP
Keepalive link state (cause): UP
```

```
DR interface information
DR interface DR group Local state (cause) Peer state Remaining down time(s)
BAGG1        1        UP          UP          -
BAGG101     101       UP          UP          -
BAGG102     102       UP          UP          -
BAGG103     103       UP          UP          -
BAGG104     104       UP          UP          -
BAGG105     105       UP          UP          -
BAGG106     106       UP          UP          -
BAGG107     107       UP          UP          -
BAGG108     108       UP          UP          -
BAGG109     109       UP          UP          -
BAGG110     110       UP          UP          -
BAGG111     111       UP          UP          -
```

```
<XG-S097_096-S6812-BS-AS1:2>dis drni summary
Flags: A -- Aggregate interface down, B -- No peer DR interface configured
       C -- Configuration consistency check failed
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BAGG103     103       UP          UP          -
BAGG104     104       UP          UP          -
BAGG105     105       UP          UP          -
BAGG106     106       UP          UP          -
BAGG107     107       UP          UP          -
BAGG108     108       UP          UP          -
BAGG109     109       UP          UP          -
BAGG110     110       UP          UP          -
BAGG111     111       UP          UP          -
```

```
drni mad exclude interface M-GigabitEthernet0/0/0
drni mad exclude interface Ten-GigabitEthernet1/0/48
drni mad exclude interface Vlan-interface1000
drni role priority 100
drni system-mac a8c9-8ac1-ca8d
drni system-number 1
drni system-priority 110
drni keepalive ip destination 11.1.255.2 source 11.1.255.1
```

```
drni mad exclude interface M-GigabitEthernet0/0/0
drni mad exclude interface Ten-GigabitEthernet1/0/48
drni mad exclude interface Vlan-interface1000
drni role priority 200
drni system-mac a8c9-8ac1-ca8d
```

## 解决方法m-number 2

drnl-system-priority 110  
配置mac-address static source-check enable解决  
drnl keepalive ip destination 11.1.255.1 source 11.1.255.2

1.1.18 mac-address static source-check enable

没有问题，查看arp表项68-2可以学到68-1的vlan 1000地址，是通过ip的聚合口学到的，但是68-1  
mac-address static source-check enable命令用来开启报文大接口与静态MAC地址表项匹配检查功能  
学不到68-2 vlan1000地址的arp，检查无mac地址漂移

但看设备上有收到对端vlan-int1000的报文

undo mac-address static source-check enable命令用来关闭报文大接口与静态MAC地址表项匹配检查  
68-1:  
功能。

```
#
interface Vlan-interface1000
【命令】
ip address 11.4.254.201 255.255.255.0
#
mac-address static source-check enable
VLAN ID: 1000
VLAN type: Static
undo mac-address static source-check enable
Route interface: Configured
```

```
IPv4 address: 11.4.254.201
【查看情况】
IPv4 subnet mask: 255.255.255.0
```

```
Description: dainei
报文大接口与静态MAC地址表项匹配检查功能处于开启状态。
Name: VLAN 1000
```

```
Tagged ports:
【视图】
  Bridge-Aggregation1(U)      Bridge-Aggregation1024(U)
  HundredGigE1/0/49(U)      HundredGigE1/0/50(U)
系统视图
  Ten-GigabitEthernet1/0/45(U)
  Ten-GigabitEthernet1/0/46(U)
二层以太网接口视图
Untagged ports:
```

```
None
一层聚合接口视图
```

```
=====display arp all=====
Type: S-Static  D-Dynamic  O-Openflow  R-Rule  M-Multiport  I-Invalid
三层以太网接口视图
IP address  MAC address  VLAN/VSI name Interface  Aging Type
11.1.255.2  642f-c75f-c6bb --    XGE1/0/48    401  D
三层以太网子接口视图
11.24.1.202  642f-c75f-c696 --    MGE0/0/0     752  D
11.24.1.254  7057-bfdc-7aa7 --    MGE0/0/0     845  D
三层聚合接口视图
11.4.254.203  a8c9-8ac1-c7cf 1000    BAGG1       873  D
11.4.254.204  a8c9-8ac1-cfc7 1000    BAGG1       1197 D
三层聚合子接口视图
11.4.254.205  a8c9-8ac1-d657 1000    BAGG1       148  D
11.4.254.206  a8c9-8ac1-d567 1000    BAGG1       1181 D
IRF物理端口视图
11.4.254.254  7057-bf15-9201 1000    BAGG1       1176 D
```

配置为IPP口的二层聚合接口需要配置undo mac-address static source-check enable命令关闭报文  
通过drnl同步过来

```
*Jan 1 08:43:43:855 2021 XG-S097_096-S6812-BS-AS1:1 ETHDRNI/7/ALARM: Rlink batset mac [
vlan 1000] [MAC 642f-c75f-c6a4] [ulRet 0x40010006].
```

68-2

```
#
interface Vlan-interface1000
ip address 11.4.254.202 255.255.255.0
#
=====display arp all=====
Type: S-Static  D-Dynamic  O-Openflow  R-Rule  M-Multiport  I-Invalid
IP address  MAC address  VLAN/VSI name Interface  Aging Type
11.1.255.1  a8c9-8ac1-cab6 --    XGE1/0/48    389  D
11.24.1.201  a8c9-8ac1-ca91 --    MGE0/0/0     739  D
11.24.1.203  a8c9-8ac1-c7c1 --    MGE0/0/0     735  D
11.24.1.254  7057-bfdc-7aa7 --    MGE0/0/0     832  D
11.4.254.203  a8c9-8ac1-c7cf 1000    BAGG1       860  D
11.4.254.204  a8c9-8ac1-cfc7 1000    BAGG1       1184 D
11.4.254.205  a8c9-8ac1-d657 1000    BAGG1       135  D
11.4.254.206  a8c9-8ac1-d567 1000    BAGG1       1168 D
11.4.254.254  7057-bf15-9201 1000    BAGG1       1163 D
11.4.254.201  a8c9-8ac1-ca9f 1000    BAGG1024    523  D
```

Vlan-interface1000

Current state: IIP