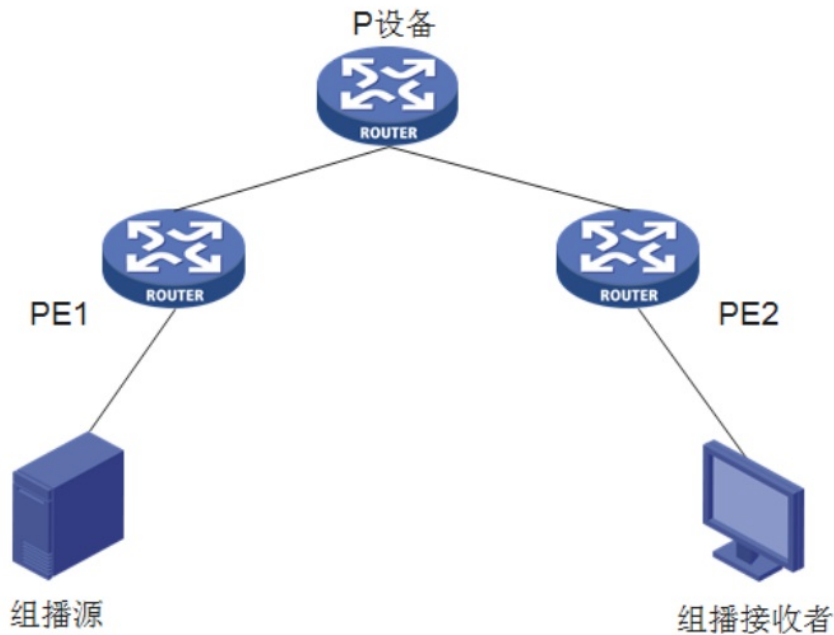


# 知 SR66组播视频无法播放

PIM IGMP 郭尧 2024-02-29 发表

## 组网及说明



组网如上:

## 问题描述

SR6616-X做PE设备, 思科设备做P设备跑组播VPN, 在接收端无法播放组播视频。现场服务器上组播源192.168.99.2, 组播组239.131.1.1; 组播源192.168.99.6, 组播组有239.131.1.3、239.131.1.5、239.131.1.8。

## 过程分析

### 一、查看配置

PE1配置:

```
#
ip vpn-instance SCCN-ZG-L3-HDDB_CORE
route-distinguisher 65502:103
vpn-target 103:1 export-extcommunity
vpn-target 103:2 import-extcommunity
multicast routing-enable
multicast-domain share-group 2XX.1.1.1 binding mtunnel 1
multicast-domain switch-group-pool 2XX.1.1.4 255.255.255.252
#
#
interface GigabitEthernet3/0/34
port link-mode route
description to_dcm21_iptv_zuboyuan
duplex full
speed 1000
ip binding vpn-instance SCCN-ZG-L3-AQD
ip address 192.168.99.1 255.255.255.252
pim sm
#
```

PE2配置:

```
#
ip vpn-instance SCCN-ZG-L3-AQD
route-distinguisher 65502:107
vpn-target 103:2 160:2 export-extcommunity
vpn-target 103:1 160:1 import-extcommunity
multicast routing-enable
multicast-domain share-group 2XX.1.1.1 binding mtunnel 1
```

```
multicast-domain switch-group-pool 2XX.1.1.4 255.255.255.252
#
#
interface Vlan-interface400
ip binding vpn-instance SCCN-ZG-L3-HDDB_HD
ip address 10.184.64.1 255.255.240.0
dhcp select relay
dhcp relay server-select 2
igmp enable
pim sm
#
```

查看配置没有问题

二、查看组播转发表信息

PE1侧:

```
display multicast vpn-instance SCCN-ZG-L3-AQD forwarding-table
00001. (192.168.99.2, 239.131.1.1)
  MID: 0, Flags: 0x100900:0
  Uptime: 01:31:20, Timeout in: 00:03:15
  Incoming interface: GigabitEthernet3/0/34
  List of 1 outgoing interfaces:
    1: MTunnel1
  Matched 20818323 packets(27979827456 bytes), Wrong If 0 packets
  Forwarded 20818322 packets(27979826112 bytes)
```

PE2侧:

```
display multicast vpn-instance SCCN-ZG-L3-AQD forwarding-table
00001. (192.168.99.2, 239.131.1.1)
  MID: 6, Flags: 0x100000:0
  Uptime: 00:34:36, Timeout in: 00:03:30
  Incoming interface: MTunnel1
  List of 1 outgoing interfaces:
    1: Vlan-interface400
  Matched 7482407 packets(10056355008 bytes), Wrong If 0 packets
  Forwarded 7482407 packets(10056355008 bytes)
```

查看组播转发表正常。

## 解决方法

SAP-48GBP, SAP-4EXP, SAP-48GBE目前都不能在VLAN接口跑组播VPN。

方案一：将二层虚接口改成路由接口或者路由由子接口

方案二：如果有多个vlan有组播VPN的需求，可能会占用多个接口。方案二建议使用R3303P38版本。

- 1、增加一个三层口A，和二层口B。
- 2、二层口B加入组播接收 VLAN 400
- 3、把原来出口VLAN 400虚接口的配置都移动到三层口A上
- 4、然后A与 B环接。组播流量出三层口A，然后从B进入VLAN 400内。
- 5、所有VLAN400的二层口相当于一个交换机，二层线速转发给所有组播接收者

硬件限制，SAP-48GBP, SAP-4EXP, SAP-48GBE单板无法在vlan接口跑组播vpn，通过三层口方式解决。