

# 知 某局点配置组播ssm-mapping无法形成组播表项问题

组播VLAN IGMP PIM 刘雨 2020-09-14 发表

## 组网及说明

S6520X-E和服务器直连，三层组播。

## 问题描述

现场反馈S6520X-E上配置pim-sm，上行路由聚合1，下行为vlan100；由于现场部分组播接收者只支持IGMPV2，不支持V3，因此在交换机上配置了SSM-mapping，现场反馈配置后没有正常形成组播表项，业务不通：

[XINMEIZI]dis igmp ssm-mapping 232.58.1.34

Group: 232.58.1.34

Source list:

172.30.151.2

172.30.151.4

[XINMEIZI]

[XINMEIZI]dis igmp-snooping group 232.58.1.34

Total 1 entries.

VLAN 100: Total 1 entries.

(0.0.0.0, 232.58.1.34)

Host ports (1 in total):

BAGG1 (00:04:16)

[XINMEIZI]dis igmp grou

[XINMEIZI]dis igmp group 232.58.1.34

[XINMEIZI]

## 过程分析

(1) 检查设备上的配置，没有什么问题：

```
#  
pim  
static-rp 10.138.0.30  
ssm-policy 2001  
#  
igmp  
ssm-mapping 172.30.150.2 2008  
ssm-mapping 172.30.150.3 2009  
ssm-mapping 172.30.151.2 2011  
ssm-mapping 172.30.151.3 2012  
ssm-mapping 172.30.151.4 2011  
ssm-mapping 172.30.151.5 2012  
#  
acl basic 2001  
description pim-ssm  
rule 10 permit source 232.0.0.0 0.255.255.255  
#  
interface Route-Aggregation1  
description TO-C2-HeXin105  
ip address 172.31.249.166 255.255.255.252  
pim sm  
#  
vlan 100  
igmp-snooping enable  
igmp-snooping version 3  
#
```

(2) 查看mapping表项正常：

[XINMEIZI]dis igmp ssm-mapping 232.58.1.34

Group: 232.58.1.34

Source list:

172.30.151.2

172.30.151.4

(3) 在设备上开debugging igmp all，有如下回显：

\*Jan 4 20:31:19:487 2013 XINMEIZI IGMP/7/REPORT: Received IGMPv3 report on interface Vlan-interface100(172.30.233.1) from 172.30.233.3 (G161360)  
\*Jan 4 20:31:19:487 2013 XINMEIZI IGMP/7/REPORT: Ignore group record(TO\_EX) in IGMPv3 report for group 232.10.0.98 on interface Vlan-interface100(172.30.233.1), group address is in SSM range (G161307)  
\*Jan 4 20:31:19:487 2013 XINMEIZI IGMP/7/REPORT: Ignore group record(TO\_EX) in IGMPv3 report for group 232.10.0.103 on interface Vlan-interface100(172.30.233.1), group address is in SSM range (G161307)  
\*Jan 4 20:31:19:622 2013 XINMEIZI IGMP/7/REPORT: Received IGMPv3 report on interface Vlan-interface100(172.30.233.1) from 172.30.233.2 (G161360)  
\*Jan 4 20:31:19:622 2013 XINMEIZI IGMP/7/REPORT: Ignore group record(TO\_EX) in IGMPv3 report for group 232.58.2.116 on interface Vlan-interface100(172.30.233.1), group address is in SSM range (G161307)  
\*Jan 4 20:31:19:622 2013 XINMEIZI IGMP/7/REPORT: Ignore group record(TO\_EX) in IGMPv3 report for group 232.58.2.100 on interface Vlan-interface100(172.30.233.1), group address is in SSM range (G161307)

(4) 根据debug的信息，设备收到的是IGMPV3的report，收到就把它ignore了，忽略的原因是组播地址在ssm-mapping的范围内；经确认，IGMPV3的report报文是会指定组播源加入的，如果设备收到IGMPV3的report，而报文中没有指定组播源，就会出现这样的信息。

#### 解决方法

在服务器侧设置发送正常的指定组播源IGMPV3 report后恢复正常。