

组网及说明

Pim-sm 环境

当前组播报文沿从RP到接收者的RPT进行传输

组播源----核心 (rp) ----vlan42- bagg1-汇聚-vlanif359--bagg9-- - pim-sm----- -vlanif359 - Bagg1 -接入网关--- Vlanif 86---bagg2-----组播接受者

告警信息

无

问题描述

通过组播流流发现组播丢在汇聚上，汇聚连核心的接口收到了组播流量，没往接入网关转发
组播流通举例

- 统计特定源组报文：源地址是1.1.1.1，组播组地址是225.1.1.1

```
[H3C]acl number 3000
[H3C-acl-ipv4-adv-3000]rule 0 permit ip source 1.1.1.1 destination 225.1.1.1
[H3C]traffic classifier lt
[H3C-classifier-lt]if-match acl 3000
[H3C]traffic behavior lt
[H3C-behavior-lt]accounting packet
[H3C]qos policy lt
[H3C-qospolicy-lt]classifier lt behavior lt
[H3C-Ten-GigabitEthernet1/2/0/1]qos apply policy lt inbound
[H3C-Ten-GigabitEthernet1/2/0/1]qos apply policy lt outbound
```

流量统计的时候，增加红色配置，避免其他vlan过来的组播流量被错误统计出来

```
#
traffic classifier 1 operator and
if-match acl 3000
if-match service-vlan-id 337
```

过程分析

<H3C-xia>display pim routing-table 组播组地址
 <H3C-xia>display multicast routing-table 组播组地址
 H3C >display multicast forwarding-table 组播组地址
 发现汇聚的组播sg表项没有发往接入网关的下行口，所以没往接入发

```
RP: 1
Protocol: pim-sm, Flag: ACT
UpTime: 11w:5d
Upstream interface:
  Upstream neighbor: 1
  RPF prime neighbor:
Downstream interface information:
Total number of downstream interfaces: 1
1: Vlan-interface8
  Protocol: pim-sm, UpTime: 11w:5d, Expires: -
```

排查为什么sg表项异常

pim-sm中涉及rpt切成spt

接入网关要发加入报文

接入上路由又残留，没有指向汇聚，导入如下sg表项 upstream neighbor不是汇聚，没把加入报文发给汇聚

```
RP: 172.18.241.139
Protocol: pim-sm, Flag: RPT SPT NONBR ACT 2M/PN
UpTime: 00:00:56
Upstream interface: Vlan-interface359
  Upstream neighbor: 172.18.241.139
  RPF prime neighbor: NDR
Downstream interface information:
Total number of downstream interfaces: 1
1:
  Protocol: pim-sm, UpTime: 00:00:56, Expires: -
```

解决方法

重启接入网关后正常

