

某局点S5560X-30F-EI 配置未知组播源丢弃后用户打开视频慢

IGMP

许鹏鹏

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组网及说明

6520----5560----5130---终端

问题描述

5560和5130上面配置了igmp-snooping，开启未知组播源丢弃，现场会出现开机顶盒，电视机加载图像特别慢的情况。大概是1分钟左右才会加载出图像视频。故障出现图像之后，换台是正常的不需要等待很长时间。如果把机顶盒关机重新打开的话又会出现同类问题，需要等很长时间。

过程分析

收了5130s上的终端的抓包和6520和5130上的debug看，发现设备发了igmpv2的查询报文，过了很久收到终端发的 igmpv3的report报文。

6520X上debug：

```
<GZ-YJ-ASW-1.IPTV.S6520X>*Jun 17 17:02:50:361 2020 GZ-YJ-ASW-1.IPTV.S6520X MCS/7/PACKET: Received PIM packet from interface Vlan-interface1440.
```

```
*Jun 17 17:02:50:361 2020 GZ-YJ-ASW-1.IPTV.S6520X MCS/7/PACKET: Succeed in broadcasting the packet on VLAN 1440.
```

```
*Jun 17 17:02:51:323 2020 GZ-YJ-ASW-1.IPTV.S6520X MCS/7/PACKET: Received PIM packet from interface Vlan-interface86.
```

```
*Jun 17 17:02:51:324 2020 GZ-YJ-ASW-1.IPTV.S6520X MCS/7/PACKET: Succeed in broadcasting the packet on VLAN 86.
```

```
*Jun 17 17:02:55:361 2020 GZ-YJ-ASW-1.IPTV.S6520X MCS/7/PACKET: Received PIM packet from interface Vlan-interface1440.
```

```
*Jun 17 17:02:55:361 2020 GZ-YJ-ASW-1.IPTV.S6520X MCS/7/PACKET: Succeed in broadcasting the packet on VLAN 1440.
```

```
*Jun 17 17:02:56:157 2020 GZ-YJ-ASW-1.IPTV.S6520X MCS/7/PACKET: Succeed in delivering up packet to IP.
```

```
*Jun 17 17:02:56:158 2020 GZ-YJ-ASW-1.IPTV.S6520X IGMP/7/REPORT: Received IGMPv2 report for group 239.12.21.19 on interface Vlan-interface171(11.18.136.1) (G161026)
```

5130S上debug也在提示版本不一致：

```
<GZ-HQL-ASW-3F.S5130>*Jun 17 08:42:11:778 2020 GZ-HQL-ASW-3F.S5130 MCS/7/PACKET: The version of IGMP packet that receive from port GigabitEthernet1/0/25 on VLAN 171 is higher than the version on VLAN 171.
```

```
*Jun 17 08:42:11:778 2020 GZ-HQL-ASW-3F.S5130 MCS/7/PACKET: The version of IGMP packet is higher than the version on VLAN 171, the main slot broadcast it on VLAN 171.
```

```
*Jun 17 08:42:11:778 2020 GZ-HQL-ASW-3F.S5130 MCS/7/PACKET: Succeed in broadcasting the packet on VLAN 171.
```

```
*Jun 17 08:42:12:187 2020 GZ-HQL-ASW-3F.S5130 MCS/7/PACKET: The version of IGMP packet that receive from port GigabitEthernet1/0/25 on VLAN 171 is higher than the version on VLAN 171.
```

```
*Jun 17 08:42:12:187 2020 GZ-HQL-ASW-3F.S5130 MCS/7/PACKET: The version of IGMP packet is higher than the version on VLAN 171, the main slot broadcast it on VLAN 171.
```

```
*Jun 17 08:42:12:188 2020 GZ-HQL-ASW-3F.S5130 MCS/7/PACKET: Succeed in broadcasting the packet on VLAN 171.
```

抓包显示终端发的是igmpv3的报文：

726 2020-06-17 14:18:25.399400 11.18.136.250	224.0.0.22	IGMPv3	60 Membership Report / Join group 239.255.255.250 for any sources
729 2020-06-17 14:18:25.399926 11.18.136.250	224.0.0.22	IGMPv3	60 Membership Report / Join group 239.255.255.250 for any sources

我们设备缺省是igmpv2，而igmpv2是无法处理igmpv3的报文的，所以需要将igmp snooping配置成v3版本

配置IGMP Snooping的版本，实际上就是配置IGMP Snooping可以处理的IGMP报文的版本：

- 当IGMP Snooping的版本为2时，IGMP Snooping能够对IGMPv1和IGMPv2的报文以及IGMPv3的查询报文进行处理，对IGMPv3的成员关系报文则不进行处理，而是在VLAN/VSI内将其广播；
- 当IGMP Snooping的版本为3时，IGMP Snooping能够对IGMPv1、IGMPv2和IGMPv3的报文进行处理。

解决方法

将igmp snooping配置成v3版本

