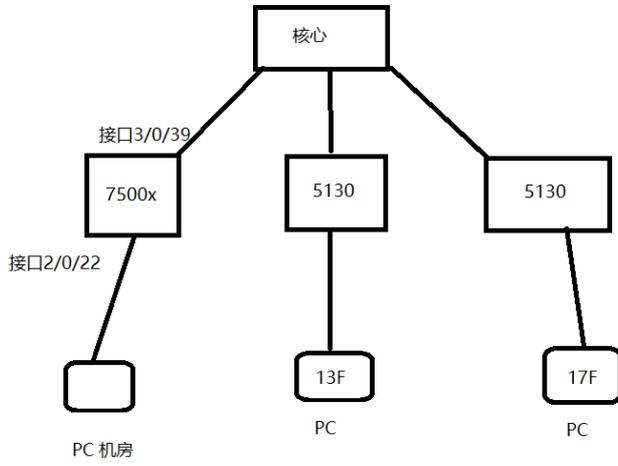


知 某局点S7503X 组播流量经过此设备收到了并没有发出

组播VLAN 徐磊 2023-06-28 发表

组网及说明

现场以下组网



告警信息

无

问题描述

7503X作为接入设备使用，【PC-7503x-核心-其他楼层接入-PC】，其他楼层接入设备5130，现场PC安装一个ETS5的软件是用来发现终端的，只要终端在这个网络中开启了这个软件就可以发现其他终端，以组播224.0.23.12的方式发现，现场反馈以抓包17F来看就可以看到原地址就有其他的楼层的IP地址去访问这个组播然后他们就能够互相发现，在7503X上抓包发现只有88这个源地址往外发没有回复，以IP地址流统和MAC地址流统发现只有进的报文没有发出，7503X设备收到了组播报文应该会泛洪但是流量到达此设备并未发出导致PC端的ETS5软件无法使用。

过程分析

1.7503X的流统结果发现收到并未发出。

```
[Core-SBW]dis qos policy int g2/0/22
Interface: GigabitEthernet2/0/22
Direction: Inbound
Policy: 1
Classifier: 1
Operator: AND
Rule(s) :
If-match acl 3500
Behavior: 1
Accounting enable:
26 (Packets)
0 (pps)
```

```
[Core-SBW]dis qos policy int t3/0/39
Interface: Ten-GigabitEthernet3/0/39
Direction: Outbound
Policy: 1
Classifier: 1
Operator: AND
Rule(s) :
If-match acl 3500
Behavior: 1
Accounting enable:
0 (Packets)
0 (pps)
```

2.在对应的接口抓包抓包发现，只有发出的并没有其他楼层往此设备发送的组播

Time	Source	Destination	Protocol	Length	Identification	Info
2023-06-15 17:40:23.327384	Hangzhou_07:f2:e0		LLDP_Multicast	460		MA/Sc:a7:21:26:d6:00 MA/00:0f:e2:07:f2:e0 121 SysN-Core-SBW SysD
2023-06-15 17:40:23.290070	Hangzhou_07:f2:e0		Spanning-tree-For...	119		MST_Root = 0/0/0c:13a:fa:e2:db:bc Cost = 2 Port = 0x0008
2023-06-15 17:40:27.885069	10.73.38.88	224.0.0.22	IGMPv3	54	0xe445 (58533)	Membership Report / Join group 224.0.0.22 for any sources
2023-06-15 17:40:27.872154	10.73.38.88	224.0.23.12	KIXnet...	64	0x132b (4987)	SearchReqExt @10.73.38.88:54970 Dibs-\$01020000700
2023-06-15 17:40:27.872869	10.73.38.88	224.0.23.12	KIXnet...	56	0x132c (4988)	SearchReq @10.73.38.88:54970
2023-06-15 17:40:28.000340	10.73.38.88	224.0.0.22	IGMPv3	54	0xe446 (58534)	Membership Report / Leave group 224.0.0.22 for any sources
2023-06-15 17:40:28.000717	Hangzhou_07:f2:e0		Spanning-tree-For...	119		MST_Root = 0/0/0c:13a:fa:e2:db:bc Cost = 2 Port = 0x0008
2023-06-15 17:40:30.876246	10.73.38.88	224.0.0.22	IGMPv3	54	0xe447 (58535)	Membership Report / Leave group 224.0.0.22
2023-06-15 17:40:31.064409	10.73.38.88	224.0.0.22	IGMPv3	54	0xe448 (58536)	Membership Report / Leave group 224.0.0.22
2023-06-15 17:40:31.000196	Hangzhou_07:f2:e0		Spanning-tree-For...	119		MST_Root = 0/0/0c:13a:fa:e2:db:bc Cost = 2 Port = 0x0008
2023-06-15 17:40:32.043325	10.73.38.88	224.0.0.22	IGMPv3	54	0xe449 (58537)	Membership Report / Join group 224.0.0.22 for any sources
2023-06-15 17:40:32.043340	10.73.38.88	224.0.23.12	KIXnet...	64	0x132d (4989)	SearchReqExt @10.73.38.88:54970 Dibs-\$01020000700

3.对比17F 5130设备上抓包发现都能正常发现

Time	Source	Destination	Protocol	Length	Identification	Info
2023-06-15 17:40:11.094266	10.73.38.13	224.0.23.12	KIXnet...	97	0xf4fd (20432)	SecureWrapper \$000DF2459CBA.00C5010
2023-06-15 17:40:11.116100	10.73.38.17	224.0.23.12	KIXnet...	97	0xf4fc (63868)	SecureWrapper \$0003DAFA3A22.00C5010
2023-06-15 17:40:12.592870	10.73.38.13	224.0.23.12	KIXnet...	97	0xf4fd3 (20435)	SecureWrapper \$000DF245A296.00C5010
2023-06-15 17:40:12.615214	10.73.38.17	224.0.23.12	KIXnet...	97	0xf4fd (63869)	SecureWrapper \$0003DAFA3FFE.00C5010
2023-06-15 17:40:13.029258	NewH3CTe_30:h3:f2		Spanning-tree-For...	119		MST_Root = 0/0/0c:13a:fa:e2:db:bc
2023-06-15 17:40:14.094863	10.73.38.13	224.0.23.12	KIXnet...	97	0xf4fd6 (20438)	SecureWrapper \$000DF245A875.00C5010
2023-06-15 17:40:14.116678	10.73.38.17	224.0.23.12	KIXnet...	97	0xf4fe (63870)	SecureWrapper \$0003DAFA45D0.00C5010
2023-06-15 17:40:14.583994	192.168.3.200	192.168.3.255	NBNS	92	0x3567 (13671)	Name query NB SLAPI.ORAY.NET:000
2023-06-15 17:40:15.078722	NewH3CTe_30:h3:f2		Spanning-tree-For...	119		MST_Root = 0/0/0c:13a:fa:e2:db:bc
2023-06-15 17:40:15.333808	192.168.3.200	192.168.3.255	NBNS	92	0x3568 (13672)	Name query NB SLAPI.ORAY.NET:000
2023-06-15 17:40:16.084022	192.168.3.200	192.168.3.255	NBNS	92	0x3569 (13673)	Name query NB SLAPI.ORAY.NET:000
2023-06-15 17:40:17.078754	NewH3CTe_30:b3:f2		Spanning-tree-For...	119		MST_Root = 0/0/0c:13a:fa:e2:db:bc

解决方法

现场此7503X设备之前作为核心使用，所以在对应的三层vlan接口下配置了包过滤，现在作为接入使用也未把相关的配置删除只是把三层vlan接口进行了shutdown处理，虽然接口shutdown了但是对应的包过滤还是会触发导致，流量被阻断，删除对应的ACL配置恢复。

1. 组播报文默认是route流程转发，即按照ip转发
2. 现场三层口down了，不过包过滤还是正常下发的，组播流量被acl匹配后过滤掉了

```
acl number 3001
rule 1 permit icmp
rule 2 permit ip destination 10.73.32.0 0.0.7.255
rule 3 permit ip destination 10.73.40.0 0.0.0.255
rule 100 deny ip
#
```

```
interface Vlan-interface70
shutdown
ip address 10.73.38.1 255.255.255.0
packet-filter 3001 inbound
```

