

# 知 某局点 S7503X 下挂终端互访卡顿

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## 组网及说明

7503X作为leaf, 开启网关代理, 下挂access

告警信息

%Mar 27 22:02:06:768 2023 H3C DRVPLAT/4/SOFTCAR DROP: -Chassis=1-Slot=2;  
Cos=15, Drop at Stage=0, StageCnt=183024, TotalCnt=249052, possible protocol ARP/RARP/VSI\_  
ARP/VSI\_RARP/ARP\_DAI/ARP\_DAI\_VLAN/IPV6\_RA\_GUARD/IPV6\_RAGUARD\_ROLE/VSI\_ARP\_  
PROXY/MDNS/SADP/MDNS\_GATE\_WAY/ARP\_DAI\_PORT

%Mar 27 22:12:21:331 2023 H3C DRVPLAT/4/SOFTCAR DROP: -Chassis=1-Slot=2;  
Cos=15, Drop at Stage=0, StageCnt=358106, TotalCnt=607158, possible protocol ARP/RARP/VSI\_  
ARP/VSI\_RARP/ARP\_DAI/ARP\_DAI\_VLAN/IPV6\_RA\_GUARD/IPV6\_RAGUARD\_ROLE/VSI\_ARP\_  
PROXY/MDNS/SADP/MDNS\_GATE\_WAY/ARP\_DAI\_PORT

%Mar 27 22:22:33:884 2023 H3C DRVPLAT/4/SOFTCAR DROP: -Chassis=1-Slot=2;  
Cos=15, Drop at Stage=0, StageCnt=355840, TotalCnt=962998, possible protocol ARP/RARP/VSI\_  
ARP/VSI\_RARP/ARP\_DAI/ARP\_DAI\_VLAN/IPV6\_RA\_GUARD/IPV6\_RAGUARD\_ROLE/VSI\_ARP\_  
PROXY/MDNS/SADP/MDNS\_GATE\_WAY/ARP\_DAI\_PORT

#### 问题描述

现场反馈业务迁移到这个leaf下后，话机终端互相打电话会有一段时间听不到对面的声音，怀疑是设备丢包导致

## 过程分析

1. S7503X作为leaf，开启了网关代理，话机是同网段，但是在设备上三层转发，查看设备上对应终端的arp表项正常
2. 由于电话终端挂在同一个access下，则流量进到leaf和发出去都是走的同一个口，在该接口上入出方向同时镜像抓包发现，交换机转发无延迟，但是发现有一段时间一端话机会发送arp请求对端话机的arp，但是没有及时收到leaf网关的代理应答，导致一段时间没有这个话机没有发出去流量。怀疑是leaf设备回应arp慢导致

Time	Src	Dest	Protocol	Len	Info	Len	Info
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	
224	.194	.194	UDP	214	10002 → 10076	Len=172	

3. 查看leaf设备上有arp超限日志，故通过debugging arp packet查看，在vsi 4094管理网内，频繁收到某些access的管理ip来请求同网段其他access的管理地址，由于vsi4094也开启了代理，所以交换机上需要反复处理这些arp，导致arp超限。

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ARP/VSI_RARP/ARP_DAI/ARP_DAI_VLAN/IPV6_RA_GUARD/IPV6_RAGUARD_ROLE/VSI_ARP_
PROXY/MDNS/SADP/MDNS_GATE_WAY/ARP_DAI_PORT
```

Time	Src	Dest	Protocol	Len	Info	Len	Info
27	2023-03-28 09:18:48.000026	.199	Broadcast	ARP	64	Who has .14? Tell .233	233
28	2023-03-28 09:18:48.000027	.99	Broadcast	ARP	64	Who has .127? Tell .233	233
31	2023-03-28 09:18:48.000030	.99	Broadcast	ARP	64	Who has .128? Tell .233	233
33	2023-03-28 09:18:48.000032	.99	Broadcast	ARP	64	Who has .129? Tell .233	233
35	2023-03-28 09:18:48.000034	.99	Broadcast	ARP	64	Who has .130? Tell .233	233
37	2023-03-28 09:18:48.000036	.99	Broadcast	ARP	64	Who has .132? Tell .233	233
39	2023-03-28 09:18:48.000038	.99	Broadcast	ARP	64	Who has .133? Tell .233	233
41	2023-03-28 09:18:48.000040	.99	Broadcast	ARP	64	Who has .134? Tell .233	233
44	2023-03-28 09:18:48.000043	.99	Broadcast	ARP	64	Who has .135? Tell .233	233
46	2023-03-28 09:18:48.000045	.99	Broadcast	ARP	64	Who has .137? Tell .233	233
48	2023-03-28 09:18:48.000047	.99	Broadcast	ARP	64	Who has .138? Tell .233	233
50	2023-03-28 09:18:48.000049	.99	Broadcast	ARP	64	Who has .139? Tell .233	233
52	2023-03-28 09:18:48.000051	.99	Broadcast	ARP	64	Who has .142? Tell .233	233
54	2023-03-28 09:18:48.000053	.99	Broadcast	ARP	64	Who has .144? Tell .233	233

4. 找到对应的access，发现这些access上有大量TC报文，来源于leaf，leaf设备查看全局关闭了stp，说明是透传了TC报文，由于access较多，不好排查来源，现场开启leaf的全局stp，关闭接口stp，避免TC透传导致access上频繁收到TC报文刷新arp。后续access上配置边缘端口，避免出现TC报文



