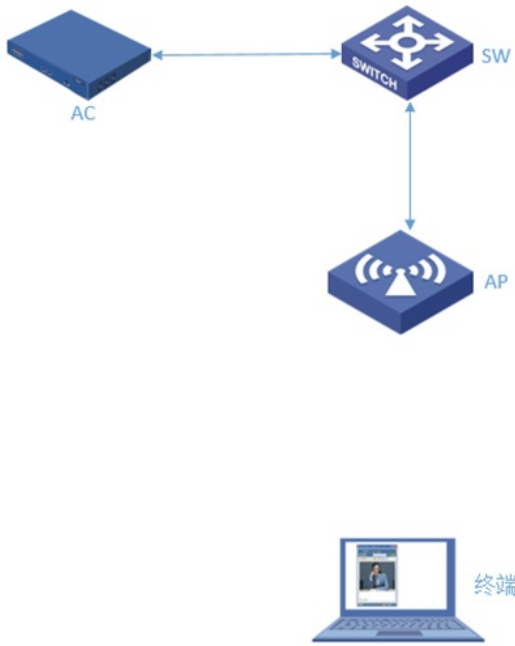


# 知 WX3500X两个无线组下的AP不定时掉线

wlan接入 柳志翔 2023-01-18 发表

## 组网及说明



AC旁挂核心，交换机连接AP，终端通过AP接入网络

## 告警信息

E2和E3组下的AP不定期掉线, 其他AP正常上线.

E2-APXX	10.100.X.X	Run	12-21 16:06:15
E2-APXX	10.100.X.X	Run	12-21 16:06:14
E3-AP0XX	10.100.X.X	Run	12-21 15:16:40
E3-APXX	10.100.X.X	Run	12-21 15:16:36
E2-APXX	10.100.X.X	Run	12-21 15:09:43
P1-APXX	10.100.X.X	Run	12-21 08:36:00
N1-APXX	10.100.X.X	Run	12-16 18:36:57
M1-APXX	10.100.X.X	Run	12-16 18:36:56

## 问题描述

E2和E3组下的AP不定期掉线，其他AP正常上线

## 过程分析

查看AC诊断中的隧道down原因，大部分都是Failed to retransmit message和Processed join request in Run state capwap会定时重传，发现重传失败，说明AC与AP之间的链路不稳定。

```
==== display wlan ap statistics tunnel-down-record ====
AP name          AP ID Tunnel down at Tunnel Down Reason
E3-APXX          145 12-22/08:05:53 Failed to retransmit messa
                  ge
E3-APXX          133 12-22/07:51:51 Failed to retransmit messa
                  ge
E2-APXX          135 12-22/07:46:08 Processed join request in
                  Run state
E3-APXX          134 12-22/04:26:38 Processed join request in
                  Run state
E2-APXX          126 12-22/03:18:02 Failed to retransmit messa
```

经过现场排查发现E2和E3组下的交换机都是在同一台接入交换机中。

检查交换机发现有大量的TC报文导致ARP超限速

```
%Dec 22 10:48:23:381 2022 STP/6/STP_NOTIFIED_TC: Instance 0's port Bridge-Aggregation1 was notified a topology change.
```

```
%Dec 22 10:48:26:351 2022 STP/6/STP_NOTIFIED_TC: Instance 0's port Bridge-Aggregation1 was notified a topology change.
```

```
%Dec 22 10:48:49:995 2022 STP/6/STP_NOTIFIED_TC: Instance 0's port Bridge-Aggregation1 was notified a topology change.
```

STP\_NOTIFIED\_TC，这是远端相连设备通知本设备某接口所在生成树实例或VLAN的拓扑发生变化后产生的TC报文。

```
=====debug rxtx softcar show slot 1=====
```

```
ID Type          RcvPps Rcv_All DisPkt_All Pps Dyn Swi Hash Am APps
0 ROOT           0 0 0 300 S On SMAC 8 0 0
1 ISIS           0 0 0 200 D On SMAC 8 5 12
2 ESIS           0 0 0 100 S On SMAC 8 5 12
3 CLNP           0 0 0 100 S On SMAC 8 5 12
...
30 ARP           1 101020 36686 500 S On SMAC 8 4 096
31 ARP_REPLY     0 1276 0 500 S On SMAC 8 4 096
```

现场TC报文过多导致ARP超限速，导致中间链路不稳定。

## 解决方法

现场排除TC报文后正常上线。

