

## 某局点40G 无线插卡系列AP一直掉线

CPU

wlan接入

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2022-10-28 发表

### 问题描述

现场AP一直掉线

%Oct 9 17:33:40:515 2022 NC-ZHENGSHANG-AC CWS/6/CWS\_AP\_UP: Master CAPWAP tunnel to AP jysd-11f-1112wai went up.

%Oct 9 17:33:40:537 2022 NC-ZHENGSHANG-AC CWS/4/CWS\_AP\_DOWN: CAPWAP tunnel to AP abc-nb-jianxing-3 went down. Reason: Failed to retransmit message.

%Oct 9 17:33:40:543 2022 NC-ZHENGSHANG-AC APMGR/6/APMGR\_AP\_OFFLINE: AP abc-nb-jianxing-3 went offline. State changed to Idle.

## 过程分析

Ping不通交换机内联口，没学到ARP

```
=====display arp all=====
Type: S-Static D-Dynamic O-Openflow R-Rule I-Invalid
IP address   MAC address  VLAN/VSI name Interface/Link ID  Aging Type
xx.xx.xx.xx  xx.xx.xx.xx  --          MGE0/0/0          18  D
xx.xx.xx.xx  xx.xx.xx.xx  2098       BAGG1              10  D
xx.xx.xx.xx  xx.xx.xx.xx  2098       BAGG1              20  D
```

没有用户接入

```
=====display wlan client=====
```

CPU很高

```
=====display cpu-usage history slot 1 =====
100%|
95%|
90%|
85%|
80%|
75%|
70%|
65%|
60%| #####  # # # # # # # #####  #####
55%| #####  #####
50%|#####
45%|#####
40%|#####
35%|#####
30%|#####
25%|#####
20%|#####
15%|#####
10%|#####
5%|#####
-----
      10   20   30   40   50   60 (minutes)
      cpu-usage (Slot 1 CPU 0) last 60 minutes (SYSTEM)
```

转发核全打满了

```
312  3.2%  3.1%  3.2%  [kdrvfd16]
313  3.2%  3.1%  3.2%  [kdrvfd17]
314  3.2%  3.1%  3.2%  [kdrvfd18]
315  3.2%  3.1%  3.2%  [kdrvfd19]
316  3.2%  3.1%  3.2%  [kdrvfd20]
317  3.2%  3.1%  3.2%  [kdrvfd21]
318  3.2%  3.1%  3.2%  [kdrvfd22]
319  3.2%  3.1%  3.2%  [kdrvfd23]
320  3.2%  3.1%  3.2%  [kdrvfd24]
321  3.2%  3.1%  3.2%  [kdrvfd25]
322  3.2%  3.1%  3.2%  [kdrvfd26]
323  3.2%  3.1%  3.2%  [kdrvfd27]
324  3.2%  3.1%  3.2%  [kdrvfd28]
325  3.2%  3.1%  3.2%  [kdrvfd29]
326  3.2%  3.1%  3.2%  [kdrvfd30]
```

服务模板几乎都是集中转发  
用户隔离配置在服务模板下

```
#
wlan service-template 25
ssid
vlan 1300
user-isolation enable
preshared-key pass-phrase cipher $c$3$T1I3mI5+X0hz3hWxTPH/8g5AK7wQTGm0twMX
cipher-suite ccmp
security-ie rsn
service-template enable
#
wlan service-template 26
ssid YingYuan
vlan 1503
user-isolation enable
service-template enable
#
wlan service-template 27
ssid
vlan 1503
user-isolation enable
akm mode psk
preshared-key pass-phrase cipher $c$3$w6CYpq8LEFVKInWhIwVisPUZ/Y5iExMVvdX
cipher-suite ccmp
security-ie rsn
service-template enable
#

接口放通的vlan太多
#
interface Bridge-Aggregation1
description nei
port link-type trunk
port trunk permit vlan 1 to 841 843 to 4094
#
```

AC与核心连接的端口的广播/组播流量统计，外界向AC侧输入的广播/组播流量pps很高，达到了几十万，导致AC的转发核被打满，导致AP掉线。

```
=====fp1-diag showdpstat:=====
*****fp1 showdpstat: start*****
idx  item      stat  speed(pps)
```