

知 V7平台的AP降级到V5平台, 能获取到地址, 但注册不上经验案例

AP管理 软件升级 周强A 2017-03-08 发表

某局点目前的控制器型号为WX3024E, 版本为version 5.20, Release 3509P58
新添加了一批V7降级V5的AP,做完配置之后AP都注册不上, 能够获取地址, 能够ping通AC,所有的AP的状态目前均为I.

AP Name	State	Model	Serial-ID
2-12f-01	I	WA4320i-ACN	210235A1GQC16B001528
2-12f-02	I	WA4320i-ACN	210235A1GPC16B000278
2-12f-03	I	WA4320-ACN-SI	219801A0T7816CE05662

分别在AC上面开启debugging wlan lwapp 和console口登陆到AP上, 输出信息如下:

APconsole口注册的的相关信息:

```
DHCP server's IP address is 172.16.100.1
Client's assigned address is 172.16.100.3    获取IP地址
DNS domain name got from DHCP server is
DNS server's IP address is 0.0.0.0
Default Gateway's IP address is 172.16.100.1
This client's subnet mask is 255.255.255.0
The length of option 43 is: 0
Change State : Idle to Broadcast Discovery  Idle变为广播Discovery
Change State : Broadcast Discovery to Join  广播Discovery变为Join
Change State : Join to JoinAck             Join变为JoinAck
Change State : JoinCfm to Image Download.....
..... JoinCfm变为Image
[State : ImageLoad] Image download successful  下载镜像文件
[State : Idle] Reset request, rebooting the AP  镜像下载完成后重启
Rebooting.....
```

看起来AP设备注册的过程很正常, 没有明显异常问题,重启完成之后, AP也可以ping通AC的地址, 表示路径也没有问题

```
<WA4320i-ACN>ping 172.16.100.1    //可以正常ping通AC的地址, 说明数据可达AC
PING 172.16.100.1: 56 data bytes, press CTRL_C to break
  Reply from 172.16.100.1: bytes=56 Sequence=0 ttl=255 time=1 ms
  Reply from 172.16.100.1: bytes=56 Sequence=1 ttl=255 time=1 ms
  Reply from 172.16.100.1: bytes=56 Sequence=2 ttl=255 time=1 ms
  Reply from 172.16.100.1: bytes=56 Sequence=3 ttl=255 time=1 ms
  Reply from 172.16.100.1: bytes=56 Sequence=4 ttl=255 time=1 ms
--- 172.16.100.1 ping statistics ---
  5 packet(s) transmitted
  5 packet(s) received
  0.00% packet loss
round-trip min/avg/max = 1/1/1 ms
```

AC上输出信息:

```
*Mar 7 22:17:27:039 2017 H3C LWPS/7/Pkt_Rcvd:
Received Discovery Request from 172.16.100.3 (Length: 174)(to 255.255.255.255) //收到来自AP的
Discovery Request请求报文
04 00 00 a8 00 00 01 01 00 a0 00 00 00 00 3a 00
.....
*Mar 7 22:17:27:109 2017 H3C LWPS/7/Event: Discovery request message received from AP with
WA4320i-ACN Model and Serial-ID 210235A1GPC16B000278 and IP [172.16.100.3] and SoftVer [27
9075200].
*Mar 7 22:17:27:129 2017 H3C LWPS/7/Error: SUB AP: Failed to get Node, not found [B0F9-6388-1
620].
*Mar 7 22:17:27:139 2017 H3C LWPS/7/Event: Success get software version [279075200].
*Mar 7 22:17:27:150 2017 H3C LWPS/7/Event: Get software version extend info [0].
*Mar 7 22:17:27:160 2017 H3C LWPS/7/Error: Failed to connect to AC for AP 2-12f-02 [Serial-ID 21
0235A1GPC16B000278][MAC:b0f9-6388-1620].
*Mar 7 22:17:27:180 2017 H3C LWPS/7/Error: Discovery Request is dropped due to Unknown failur
e
//发送请求回访问报文丢弃因为未知的错误
```

```
*Mar 7 22:17:33:688 2017 H3C LWPS/7/Pkt_Rcvd:
Received CAPWAP Discovery Request from 172.16.100.3 (Length: 192)(to 255.255.255.255)
00 10 02 00 00 00 00 00 00 00 01 01 00 b3 00
//这里的报文有点奇怪了，为什么会收到capwap的Discovery Request 报文呢，正常的话是采用LWA
PP协议进行注册的
*Mar 7 22:17:33:930 2017 H3C LWPS/7/Pkt_Send:
Sent CAPWAP Discovery Response to 172.16.100.3 (Length: 99)(from 172.16.100.1)
00 10 02 00 00 00 00 00 00 00 02 01 00 56 00
.....
// AC给AP回应了CAPWAPP请求的Discovery Response 报文
```

这个地方怀疑是否因为AC开启了capwap协议导致，后面跟代理商了解了这批AP原来的版本为V7版本，后续通过AC切换为V5版本的，但是没有将AC的隧道注册方式修改过来。

隐藏视图开启lwapp的功能

```
[AC-hidecmd]fpl-diag enable
[AC-hidecmd]fpl-diag drv_capwap_set 0
Set capwap flag to close success! //提示关闭capwap成功
修改之后重启AC设备后，相应的AP都注册上，问题解决。
```

- 1.如果所有的AP注册不成功，按照常规的排查方式没有问题的情况下，而且最近有从V7版本切换为V5版本的AP的情况，建议检查AC是否关闭了lwapp的功能。
- 2.除了隐藏视图开启lwapp的方法，还可以AP模板配置tunnel compliance draft开启隧道注册为lwapp模式。
- 3.切换隧道注册协议命令的时候一定要注意，需要重启设备才能生效。