

知 某局点新增AP WA2620X 注册不上处理案例

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组网及说明

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问题描述

某局点目前的控制器型号是WX3510H，版本是 Version 7.1.064, Customer 5205P02
新添加一**WA2620X**的AP,做完配置之后AP注册不上，能正常获取到地址，AP的状态目前均为I。

AP name	APID	State	Model	Serial ID
mct-79-1280	34	I	WA2620X	219801A0KTM171001505
d461-feef-aca0-8hao1-85	10	R/M	WA4320X	219801A0REM171000052
d461-feef-b0c0-6hao1-80	18	R/M	WA4320X	219801A0REM171000170
d461-feef-b140-6hao3-82	20	R/M	WA4320X	219801A0REM171000172

过程分析

分别在AC和telnet到AP上面开启debugging wlan capwap all，输出信息如下：

在AC上：

```
*Jun 27 18:33:10:696 2018 WAC-Master-DOWN CWS/7/RCV_PKT: Received discovery request from AP: IP address=172.23.0.151, MAC address=ac74-09a9-1280, serial ID=219801A0KTM171001505, AP name=mct-79-1280, model=WA2620X, last IP=172.23.0.151.
```

```
*Jun 27 18:33:10:698 2018 WAC-Master-DOWN CWS/7/EVENT: Filling AC Descriptor TLV. LicenseType[1] MaxSupportNum[256] JoinCount[21]. //收到AP发送过来的discover request报
```

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```
*Jun 27 18:33:10:699 2018 WAC-Master-DOWN CWS/7/SND_PKT: Sent discovery response with SeqNum 0 to AP at 172.23.0.151:64340.
```

```
*Jun 27 18:33:10:699 2018 WAC-Master-DOWN CWS/7/SND_PKT: Sent discovery response to AP at 172.23.0.151:64340, Length=128.
```

.....

```
*Jun 27 18:33:15:720 2018 WAC-Master-DOWN CWS/7/ERROR: Failed to match image data request with SeqNum 2 from AP at 172.23.0.151:6434 //未能匹配图片数据请求，意思找不到可以匹配的AP镜像文件
```

在AP上：

```
*Jan 1 00:04:28:926 2014 H3C CWC/7/TMR: Retransmission Timer of TunnelId:1 expired.
```

```
*Jan 1 00:04:28:927 2014 H3C CWC/7/ERROR: Failed to retransmit image data request and tore down the tunnel: Number of retransmissions exceeded the limit 3. //重发送AP镜像文件请求失败
```

```
*Jan 1 00:04:28:927 2014 H3C CWC/7/FSM: [Tunnel ID: 1] Image Data -> Idle
```

```
*Jan 1 00:04:28:927 2014 H3C CWC/7/EVENT: CAPWAP tunnel to AC 172.23.0.66 went down. Reason: Retransmission failed.
```

```
*Jan 1 00:04:28:928 2014 H3C CWC/7/FSM: Enter Idle state.
```

```
*Jan 1 00:04:28:929 2014 H3C CWC/7/FSM: Enter Discovery state.
```

仔细检查配置，发现如下配置：

```
wlan image-load filepath local
#
wlan apdb WA4320X Ver.A R22510
wlan apdb WA4320X Ver.B R22510
wlan apdb WA4320X Ver.C R22510
wlan apdb WA4320X Ver.D R22510
wlan apdb WA4320X Ver.E R22510
wlan apdb WA4320X Ver.F R22510
```

查阅命令手册，仅当期望AP使用的软件版本与APDB中存储的该AP型号对应的软件版本不一致时才需要配置本命令。本命令通常用于向AP下发临时版本，建议用户不要自行配置，以免导致AP无法与AC建立CAPWAP隧道。

```
//收到AP发送过来的discover request报文//收到AP发送过来的discover request报文//收到AP发送过来的discover request报文//收到AP发送过来的discover request报文//收到AP发送过来的discover request报文//收到AP发送过来的discover request报文//收到AP发送过来的discover request
```

解决方法

和现场了解情况为何有如上配置，现场反馈当时是我司一线工程师开局的，意图是让当时的AP下发特定的版本；因此指导现场工程师Telnet到AP上查看WA2620X使用的软硬件版本

```
[mct-79-1280]dis version
```

```
H3C Comware Software, Version 7.1.064, alpha 2104sp17
```

```
Hardware Version is Ver.C
```

于是在AC上增加如下配置，

```
wlan apdb WA2620X Ver.C A2104sp17
```

新增AP WA2620X正常上线成功。