

知 某局点WX3540H下连ap无法自动升级版本经验案例

AP管理 软件升级 陈孙潇 2017-03-21 发表

某局点WX3540H从5117P16版本升级到最新5204P02版本后，现场反馈下连的ap能够正常注册上线，但是无法自动升级到5204P02版本。

1.首先查看AC配置，确认是否配置了禁止AP升级的命令：

```
wlan ap-group default-group
firmware-upgrade enable
statistics-interval 120
hybrid-remote-ap enable
vlan 1
ap-model WA4320-ACN-SI
radio 1
radio enable
radio 2
radio enable
wlan ap bj_cd_cybl_ap01 model WA4320-ACN-SI
mac-address 487a-da53-e820
firmware-upgrade disable
map-configuration cfa0:/map.txt
radio 1
radio enable
service-template st1
radio 2
radio enable
service-template st1
```

可以看到在默认AP组视图下配置了firmware-upgrade enable，但是在AP视图下却配置了firmware-upgrade disable,由于AP视图下的优先级要高于AP组下的优先级，因此AP视图下的命令优先生效。让现场将firmware-upgrade disable改为enable，但是发现ap仍然不能正常升级，reset ap重新注册上线后依旧是原来的版本。

2.通过dir发现AC上存在正确的AP版本文件，怀疑可能AP和AC之间交互出了问题，于是就让现场收集下debug wlan capwap信息。

```
*Feb 20 23:51:08:136 2017 BJ_WLAN_AC_IRF CWS/7/FSM: [Ap ID: 159] Run -> Idle.
%Feb 20 23:51:08:136 2017 BJ_WLAN_AC_IRF CWS/4/CWS_AP_DOWN: CAPWAP tunnel to AP b
j_hd_cwds_ap01 went down. Reason: AP was reset by admin.
%Feb 20 23:51:08:160 2017 BJ_WLAN_AC_IRF APMGR/6/APMGR_AP_OFFLINE: AP bj_hd_cwds
_ap01 went offline. State changed to Idle.
*Feb 20 23:52:36:974 2017 BJ_WLAN_AC_IRF CWS/7/SND_PKT: Sent join response with SeqNum
1 to AP at 172.28.197.81:53632.
*Feb 20 23:52:36:974 2017 BJ_WLAN_AC_IRF CWS/7/SND_PKT: Sent join response to AP at
172.28.197.81:53632, Length=145.
*Feb 20 23:52:37:011 2017 BJ_WLAN_AC_IRF CWS/7/RCV_PKT: Received configuration request w
ith SeqNum 2 from AP at 172.28.197.81:53632.
*Feb 20 23:52:37:011 2017 BJ_WLAN_AC_IRF CWS/7/RCV_PKT: Received configuration request fr
om AP at 172.28.197.81:53632, Length=322.

*Feb 20 23:52:37:016 2017 BJ_WLAN_AC_IRF CWS/7/SND_PKT: Sent all fragments of configuratio
n response with SeqNum 2 to AP at 172.28.197.81:53632.
*Feb 20 23:52:37:822 2017 BJ_WLAN_AC_IRF CWS/7/RCV_PKT: Received change state event req
uest with SeqNum 3 from AP at 172.28.197.81:53632.
*Feb 20 23:52:37:822 2017 BJ_WLAN_AC_IRF CWS/7/RCV_PKT: Received change state event req
uest from AP at 172.28.197.81:53632, Length=38.

*Feb 20 23:52:37:823 2017 BJ_WLAN_AC_IRF CWS/7/SND_PKT: Sent change state event respons
e with SeqNum 3 to AP at 172.28.197.81:53632.
*Feb 20 23:52:37:823 2017 BJ_WLAN_AC_IRF CWS/7/SND_PKT: Sent change state event respons
e to AP at 172.28.197.81:53632, Length=16.
00 10 02 00 00 00 00 00 00 00 0C 03 00 03 00
.
```

%Feb 20 23:52:37:885 2017 BJ_WLAN_AC_IRF APMGR/6/APMGR_AP_ONLINE: AP bj_hd_cwds_ap01 came online. State changed to Run.

*Feb 20 23:52:37:886 2017 BJ_WLAN_AC_IRF APMGR/7/EVENT: APID = 159,Success to notify other Apps of the AP up event.

%Feb 20 23:52:37:886 2017 BJ_WLAN_AC_IRF CWS/6/CWS_AP_UP: Master CAPWAP tunnel to AP bj_hd_cwds_ap01 went up.

可以看到ap重启后没有比对版本的过程，直接获取到配置注册上线了，AP于AC之间的交互没有问题。

3.远程从AC登录到AP上，查看AP上的是否有异常的日志信息,这时候发现ap当前的版本是2117P31。在AC的版本是5117P16的情况下，ap版本应该是2117P16。

H3C Comware Software, Version 7.1.064, Release 2117P31

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WA4320-ACN-SI uptime is 0 weeks, 4 days, 23 hours, 24 minutes

Last reboot reason : Power on

后面于是又重新仔细确认AC的配置，发现里面配置了两条命令，指定了ap的版本为R2117P31：

wlan apdb WA4320-ACN-SI Ver.B R2117P31

wlan image-load filepath local

联系现场工程师后发现原来之前该局点由研发远程指定了一个受限版本，而现场工程师也不明白该命令的具体意思。后面删除这两条命令后AP能够正常升级版本了。

1.在AP和AP组视图下开启firmware-upgrade enable命令。

2.删除指定AP版本的两条命令：

wlan apdb WA4320-ACN-SI Ver.B R2117P31

wlan image-load filepath local

碰到AP不能自动获取版本时：1、查看AP到AC之间的有线链路是否正常，能否正常通信；2、查看firmware-upgrade enable命令是否开启；3、确认AC上是否有AP的版本文件；4、确认AC上是否为AP指定了特定的版本。一般来说无法获取版本都是以上问题为主。