

## 知 无线V7版本AP降级V5经验案例

wlan接入 软件升级 陈铮 2015-10-16 发表

某局点由于特殊情况（AC不支持V7、性能测试等）需要把V7的ap降级成V5

在AC上配置ap模板，并将ap对应的v5版本导入设备，但是AP无法上线，并且也不会从AC上下载版本，是因为V7平台的AC、AP使用的capwap协议，而V5默认使用lwapp协议，需要在V5上开启

```
[AC]dis wlan ap all
Total Number of APs configured      : 1
Total Number of configured APs connected : 0
Total Number of auto APs connected   : 0
Total Number of APs connected       : 0
Maximum AP capacity                 : 12
Remaining AP capacity                : 12

AP Profiles
State : I = Idle, J = Join, JA = JoinAck, IL = ImageLoad
       C = Config, R = Run, KU = KeyUpdate, KC = KeyCfm
       M = Master, B = Backup
-----
AP Name          State Model          Serial-ID
-----
43               I      WA4320i-ACN  210235A1GQC14A000407
-----
```

### 开启V5平台AC的capwap功能

[AC]\_h

Now you enter a hidden command view for developer's testing, some commands may affect operation by wrong use, please carefully use it with our engineer's direction.

[AC-hidecmd]fpl-dia enable//必须先enable

Are you sure you want to enable FPL-DIAG? [Y/N] y

% FPL-DIAG has been enabled.

[AC-hidecmd]fpl-dia drv\_capwap\_set 1 // 开启capwap

将设备重启后capwap功能生效（B96版本，无论是AC还是AP，已经完全裁剪了capwap的特性，所以必须要使用B109分支的AC）

AP下载V5版本，刷新为低版本的V5bootware，加载V5app

```
*****
*
* H3C WA4320i-ACN BootWare, Version 7.03
*
*****
Copyright (c) 2004-2015 Hangzhou H3C Technologies Co., Ltd.

Compiled Date      : Jul 7 2015
CPU Type          : Atheros AR9550
CPU L1 Cache      : 32KB
CPU Clock Speed   : 720MHz
Memory Type       : SDRAM
Memory Size       : 256MB
Memory Speed      : 560MHz
BootWare Size     : 512KB
Flash Size        : 32MB
CPLD Version      : 002
PCB Version       : Ver.C
```

[H3C-probe]display system internal version

H3C WA4320i-ACN V200R001B64D004SP11

Comware V700R001B64D004

[H3C]%Sep 5 13:20:22:372 2015 H3C CWC/6/CWC\_IMG\_DOWNLOAD\_COMPLETE: Downloading the image file WA4300\_fit.bin from AC 192.168.0.100 through the CAPWAP tunnel is complete.

%Sep 5 13:20:22:373 2015 H3C CWC/6/CWC\_AP\_REBOOT: AP in state Image Data is rebooting. Reason: Image was downloaded successfully.

%Sep 5 13:20:22:496 2015 H3C DEV/5/SYSTEM\_REBOOT: System is rebooting now.

System is starting...

Press Ctrl+D to access BASIC-BOOTWARE MENU

Booting Normal Extend BootWare

The Extend BootWare is self-decompressing.....

Done!

System should be degraded to ComwareV5,please waiting.//准备降级v5

```

.....
.....
.....
.....
Updating Extended BootWare.....Done.//刷新boot
System have been degraded successfully!//降级成功
Rebooting.....
System is starting...
Press Ctrl+D to access BASIC-BOOTWARE MENU
Booting Normal Extend BootWare
The Extend BootWare is self-decompressing.....
Done!
*****
*
*           H3C WA4320i-ACN BootWare, Version 1.09
*
*
*****
Copyright (c) 2004-2015 Hangzhou H3C Technologies Co., Ltd.

Compiled Date       : Mar 23 2015
CPU Type           : Atheros AR9550
CPU L1 Cache       : 32KB
CPU Clock Speed    : 720MHz
Memory Type        : SDRAM
Memory Size        : 256MB
Memory Speed       : 560MHz
BootWare Size      : 512KB
Flash Size         : 32MB
CPLD Version       : 002
PCB Version        : Ver.C

```

dis version

```

H3C Comware Platform Software
Comware Software, Version 5.20, Release 1507P04
Copyright (c) 2004-2015 Hangzhou H3C Tech. Co., Ltd. All rights reserved.
H3C WA4320i-ACN uptime is 0 week, 0 day, 0 hour, 0 minute

```

**再次关闭ac的capwap功能重启生效或者不关闭ac的capwap情况下在ac的wlan ap视图下开启tunnel compliance draft (建议后者)**

这个时候AP任然无法上线，需要把AC的lwapp功能开启

[AC-wlan-ap-43]tunnel compliance draft//或者

[AC-hidecmd]fpl-diag enable//必须先enable

Are you sure you want to enable FPL-DIAG? [Y/N] y

% FPL-DIAG has been enabled.

[AC-hidecmd]fpl-diag drv\_capwap\_set 0 // 关闭capwap

```

[AC]dis wlan ap all
Total Number of APs configured      : 1
Total Number of configured APs connected : 1
Total Number of auto APs connected  : 0
Total Number of APs connected       : 1
Maximum AP capacity                 : 12
Remaining AP capacity               : 11

      AP Profiles
State : I = Idle,   J = Join, JA = JoinAck,  IL = ImageLoad
       C = Config, R = Run,  KU = KeyUpdate, KC = KeyCfm
       M = Master, B = Backup
-----
AP Name                State Model                Serial-ID
-----
43                      R/M   WA4320i-ACN                210235A1GQC14A000407
-----

```

至此V7ap降级V5ap成功并注册上线

V5打开CAPWAP功能使得V7的ap注册上线。

注意：一部分flash空间很小的ap，比如WTU430，会因为flash空间不足导致分体无法完全down版本，这个时候只能telnet到ap本地删除所有文件，并且强烈建议delete/u去删除，因为格式化flash很慢，瘦ap超时会自动重启。