WA4300系列云AP版本瘦切胖配置案例方法

1.1 适用产品系列

本手册适用于如下产品：比如WA4320H-SI、WAP711H、WAP712H、WAP712C-LI、WA4320H等WA4300系列云AP。

1.1.1 AP瘦切胖配置案例（Bootrom）

操作风险提示：AP瘦切胖有风险，操作不当或者意外断电会导致设备故障，操作需谨慎。命令行升级需在PC上搭建TFTP Server（推荐用户使用3CDaemon搭建TFTP服务器）

将软件版本下载到设备FLASH内，然后通过命令行加载Bootrom版本，再加载主机软件版本，加载时输入的文件名一定要一致，建议复制黏贴，然后升级过程中避免断电重启操作。

1、先从官网下载WA4300云AP的胖版本，本案例以WA4320H-SI举例

https://www.h3c.com/cn/d_201909/1225207_30005_40.htm

下载压缩包WA4300S-WPT330-E1105-OASIS.zip，解压生成bin文件，把从官网下载的云AP版本文件改成wa4300s-oasis.bin，放到电脑桌面上。

2、电脑通过网线连接到ap的一个网口，电脑网卡设置为：192.168.0.1 255.255.255.0，如下例子打开TFTP服务器，把bin软件版本放到电脑桌面上，TFTP服务器目录指向电脑桌面，然后点击确定。
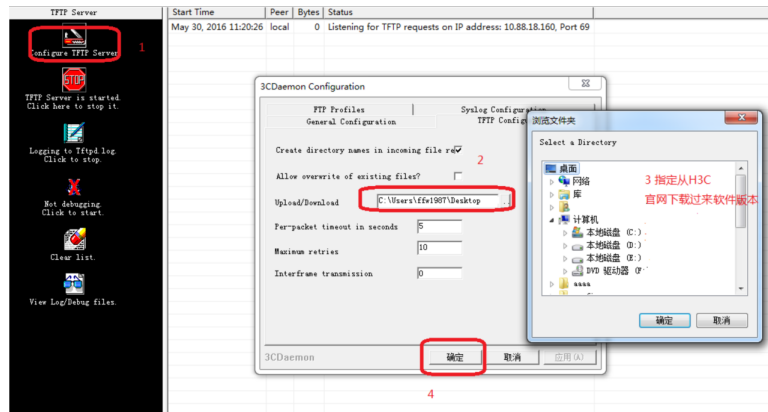
3、console口上传版本，console口登录方法参考《1.03 设备管理-Console登录方法》

在AP重启的时候按住不停地按Ctrl+B进入设备的bootroom菜单。

Enter your choice(0-9): ystem is starting...

Press Ctrl+D to access BASIC-BOOTWARE MENU

Booting Normal Extend BootWare....

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

```
****************************************************************************
*                                                            *
*          H3C WA4320H-SI BootWare, Version 1.07              *
*                                                            *
****************************************************************************
```

Copyright (c) 2004-2017 New H3C Technologies Co., Ltd.

Compiled Date   : Jun 19 2017

CPU Type   : ATHEROS AR9531

CPU L1 Cache   : 32KB

CPU Clock Speed   : 650MHz

Memory Type   : SDRAM

Memory Size   : 128MB

Memory Speed   : 450MHz

BootWare Size   : 512KB

Flash Size   : 16MB

PCB Version   : Ver.A

BootWare Validating...
Press Ctrl+B to enter extended boot menu...
BootWare password: Not required. Please press Enter to continue.

Password recovery capability is enabled.
Note: The current operating device is flash
Enter < Storage Device Operation > to select device.

3.1、升级扩展bootrom版本

要求扩展boot必须为7.13。版本文件中可获取.如果当前版本已经为7.13，直接忽略此步骤。

```
=========================================================
|<1> Boot System                                       |
|<2> Enter Serial SubMenu                               |
|<3> Enter Ethernet SubMenu                             |
|<4> File Control                                       |
|<5> Restore to Factory Default Configuration           |
|<6> Skip Current System Configuration                  |
|<7> BootWare Operation Menu                            |
|<8> Clear Super Password                               |
|<9> Storage Device Operation                           |
|<0> Reboot                                             |
=========================================================:
Ctrl+C: Display Copyright
Ctrl+F: Format File System
Enter your choice(0-9): 7  //进入bootware子菜单


=========================================================
|Note:the operating device is flash                    |
|<1> Update BootWare By Serial                          |
|<2> Update BootWare By Ethernet                        |
|<0> Exit To Main Menu                                  |
=========================================================:
Enter your choice(0-2): 2   //设置更新bootware方式通过网线
```

```
====================================
|<1> Update Full BootWare                          |
|<2> Update Extend BootWare                         |
|<3> Update Basic BootWare                          |
|<4> Modify Ethernet Parameter                      |
|<0> Exit To Main Menu                         |
============================================================:
Enter your choice(0-4): 4  //修改以太口参数


====================================================
|Note:      "." = Clear field.                       |
|          "-" = Go to previous field.               |
|         Ctrl+D = Quit.                          |
============================================================:
Protocol (FTP or TFTP) :tftp
Load File Name        :wap712h_art_v5.bin
                 :apwtu41039757_v7.13.btw   //bootware版本名称，如boot版本已经
是V7.13了，可忽略本步骤，继续升级bin版本
Target File Name       :wap712h_art_v5.bin
                 :apwtu41039757_v7.13.btw
Server IP Address     :192.168.1.251 192.168.0.1    //电脑ip地址
Local IP Address       :192.168.1.2 192.168.0.19    //配置和电脑同网段任意地址
Gateway IP Address     :0.0.0.0



====================================
|<1> Update Full BootWare                          |
|<2> Update Extend BootWare                         |
|<3> Update Basic BootWare                          |
|<4> Modify Ethernet Parameter                      |
|<0> Exit To Main Menu                         |
============================================================:
Enter your choice(0-4): 1  //更新bootware版本
Loading..........Done!
381952 bytes downloaded!
Updating Basic BootWare? [Y/N]Y    //手工输入 "Y"
```

Updating Basic BootWare..........Done!

Updating Extend BootWare? [Y/N]Y   //手工输入"Y"

Updating Extend BootWare...........Done!

3.2、升级bin版本

升级完扩展boot之后重启设备（可以看到此时扩展boot已经是7.13版本），进扩展boot升级设备版本。

System is starting...

Press Ctrl+D to access BASIC-BOOTWARE MENU...

Booting Normal Extended BootWare

The Extended BootWare is self-decompressing..........................Done.

```
******************************************************************************
*                                                                  *
*          H3C WA4320H-SI BootWare, Version 7.13              *
*                                                                  *
******************************************************************************
```

Copyright (c) 2004-2019 New H3C Technologies Co., Ltd.

Compiled Date   : Jul 31 2019

CPU Type   : ATHEROS AR9531

CPU L1 Cache   : 32KB

CPU Clock Speed   : 650MHz

Memory Type   : SDRAM

Memory Size   : 128MB

Memory Speed   : 450MHz

BootWare Size   : 512KB

Flash Size   : 16MB

PCB Version   : Ver.A

BootWare Validating...

Press Ctrl+B to access EXTENDED-BOOTWARE MENU...

Password recovery capability is enabled.

Note: The current operating device is flash

Enter < Storage Device Operation > to select device.

上传版本文件

```
====================================================
|<1> Boot System                                   |
|<2> Enter Serial SubMenu                           |
|<3> Enter Ethernet SubMenu                         |
|<4> File Control                                   |
|<5> Restore to Factory Default Configuration       |
|<6> Skip Current System Configuration              |
|<7> BootWare Operation Menu                        |
|<8> Skip Authentication for Console Login          |
|<9> Storage Device Operation                       |
|<0> Reboot                                         |
====================================================:
Ctrl+Z: Access EXTENDED ASSISTANT MENU
Ctrl+F: Format File System
Ctrl+Y: Change AP Mode
Enter your choice(0-9): 3    //进入以太口子菜单


====================================================
|Note:the operating device is flash                |
|<1> Download Image Program To SDRAM And Run        |
|<2> Update Main Image File                         |
|<3> Download Files(*.*)                            |
|<4> Modify Ethernet Parameter                      |
|<0> Exit To Main Menu                              |
|            |                                      |
====================================================:
Enter your choice(0-4): 4    //修改以太口参数


====================================================
|Note:      "." = Clear field.                      |
|           "-" = Go to previous field.             |
|        Ctrl+D = Quit.                             |
```

```
===============================================================:
Protocol (FTP or TFTP) :tftp
Load File Name          :apwtu41039757_v7.13.btw
                :wa4300s-oasis.bin   //此处注意修改版本文件名称,为wa4300s-
oasis.bin
Target File Name        :apwtu41039757_v7.13.btw
                :wa4300s-oasis.bin   //此处注意修改版本文件名称,为wa4300s-
oasis.bin
Server IP Address       :192.168.0.1       //电脑ip地址
Local IP Address        :192.168.0.19      //配置和电脑同网段任意地址
Subnet Mask             :0.0.0.0
Gateway IP Address      :0.0.0.0


=======================================================
|Note:the operating device is flash                      |
|<1> Download Image Program To SDRAM And Run             |
|<2> Update Main Image File                              |
|<3> Download Files(*.*)                              |
|<4> Modify Ethernet Parameter                           |
|<0> Exit To Main Menu                              |
|              |
===============================================================:
Enter your choice(0-4): 3    //更新版本
Loading.....................................................................
.................................................................................
.................................................................................
....................................................Done.
13698048 bytes downloaded!
Saving file flash:/wa4300s-oasis.bin ......................................
.................................................................................
.................................................................................
.................................................................................
..........................................................Done.
```

切换ap模式

```
=====================================================
|Note:the operating device is flash                      |
|<1> Download Image Program To SDRAM And Run             |
|<2> Update Main Image File                              |
|<3> Download Files(*.*)                                 |
|<4> Modify Ethernet Parameter                           |
|<0> Exit To Main Menu                                   |
|           |
=============================================================:
Enter your choice(0-4): 0


=====================================================
|<1> Boot System                                         |
|<2> Enter Serial SubMenu                                |
|<3> Enter Ethernet SubMenu                              |
|<4> File Control                                        |
|<5> Restore to Factory Default Configuration            |
|<6> Skip Current System Configuration                   |
|<7> BootWare Operation Menu                             |
|<8> Skip Authentication for Console Login               |
|<9> Storage Device Operation                            |
|<0> Reboot                                              |
=============================================================:
Ctrl+Z: Access EXTENDED ASSISTANT MENU
Ctrl+F: Format File System
Ctrl+Y: Change AP Mode
Enter your choice(0-9):

Please select the new mode
Current mode is Fit
=============================================================:
|NO.  Mode                                               |
|1    Oasis Mode                                         |
|2    Fit   Mode                                         |
|0    Exit                                               |
=============================================================:
```

Enter your choice(0-2):1   //切换为云模式

This operation takes several minutes.Please wait...
Changed to Oasis mode successfully! Please reboot the system now!

切换完成后重启设备

```
====================================================
|<1> Boot System                                  |
|<2> Enter Serial SubMenu                          |
|<3> Enter Ethernet SubMenu                         |
|<4> File Control                              |
|<5> Restore to Factory Default Configuration            |
|<6> Skip Current System Configuration                |
|<7> BootWare Operation Menu                        |
|<8> Skip Authentication for Console Login             |
|<9> Storage Device Operation                       |
|<0> Reboot                                 |
====================================================:
Ctrl+Z: Access EXTENDED ASSISTANT MENU
Ctrl+F: Format File System
Ctrl+Y: Change AP Mode
Enter your choice(0-9): 0   //重启
System is starting...
Press Ctrl+D to access BASIC-BOOTWARE MENU...
Booting Normal Extended BootWare
The Extended BootWare is self-decompressing..........................Done.


****************************************************************************
*                                            *
*            H3C WA4320H-SI BootWare, Version 7.13              *
*                                            *
****************************************************************************
Copyright (c) 2004-2019 New H3C Technologies Co., Ltd.
```

Compiled Date　　：Jul 31 2019

CPU Type　　　　：ATHEROS AR9531

CPU L1 Cache　　：32KB

CPU Clock Speed　：650MHz

Memory Type　　　：SDRAM

Memory Size　　　：128MB

Memory Speed　　：450MHz

BootWare Size　　：512KB

Flash Size　　　：16MB

PCB Version　　　：Ver.A

BootWare Validating...

Press Ctrl+B to access EXTENDED-BOOTWARE MENU...

starting...

配置关键点：

1、第三步选择Download Files，否则会出现报错；

2、需要上传版本文件之后再切换ap模式；

3、刷完版本之后只能通过web管理；

4、云ap里，只有WAP712C-LI 型号，是要用7.17的boot的，该版本适配的其他款型均用7.13的boot；

5、严格按照案例中操作步骤执行，关键注意先上传版本文件之后再切换ap模式；

6、把从官网下载的云AP版本文件改成wa4300s-oasis.bin；

7、操作完成后设备启动会停留在starting…阶段，实际可能已经完成，如果能搜索到SSID为H3C_XXXXXX（mac后6位）的SSID说明已经转换完成并启动。

云AP是Fat AP。初次使用云AP，给云AP上电后，云AP会默认开启4个无线服务：

● 其中一个称之为管理WIFI，也称内部WIFI，SSID为H3C_XXXXXX，XXXXXX为设备mac地址后六位。管理WIFI供商铺内部员工管理使用，一般在2.4G频段工作，当设备未连接到绿洲时，通过连接管理WIFI在浏览器输入10.40.94.1或myap.h3c.com访问本地web页面可进行本设备下的无线服务管理配置，一旦连接上绿洲，将只能通过绿洲平台进行统一的无线服务配置管理。

● 其余3个称为用户WIFI，也称商业WIFI，SSID为H3C_WiFi_1、H3C_WiFi_2、

H3C_WiFi_3，不加密，不认证，不隐藏。当设备连接到外网，可为已经连接上用户WIFI的用户提供上网服务。