

组网及说明

无

问题描述

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）

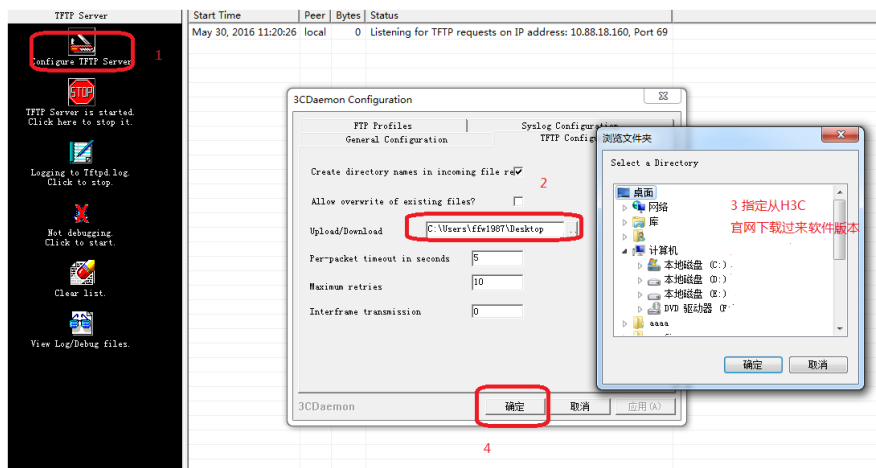
将软件版本下载到设备FLASH内，然后通过命令行加载Bootrom版本，再加载主机软件版本，加载时输入的文件名一定要一致，建议复制黏贴，然后升级过程中避免断电重启操作。

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](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。



过程分析

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): system 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 \*  
\* \*  
\*\*\*\*\*

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...

## 解决方法

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\_XXX XXX (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:

I 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。

I 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。