

组网及说明

1.1 适用产品系列

本手册适用于如下产品：WA4320i-X、WA4320i-ACN、WA4320H-ACN、WA4320-ACN、WA2620i-AGN、WA2610E、WA2620E、WA2620X等AP。

有一些场景下，之前注册过V7无线控制器的瘦AP，需要切换成胖AP使用，但是对应的胖AP版本是V5平台的，那就涉及到本案例的内容。需要先降级bootrom，再做版本上传。

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。

配置步骤

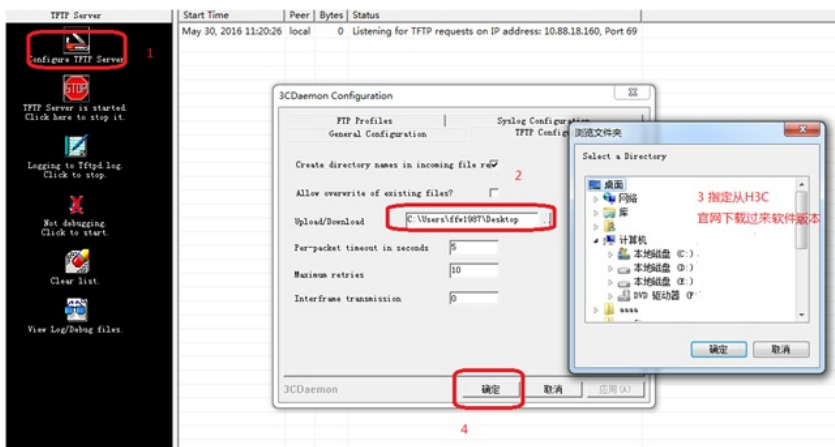
1. 从新华三的官网下载对应AP型号的胖版本

https://www.h3c.com/cn/d_201805/1083983_30005_40.htm

下载压缩包WA4300S-CMW520-R1509P01-FAT.zip，解压生成bin文件，放到电脑桌面上，下载后，需修改文件名，以WA4320为例子，修改对应的启动文件名wa4300s_fat.bin，需要注意文件名称修改正确。

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口操作刷版本

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bootrom菜单，以下标黑部分为设备自动打印部分。

```
System is starting...
Press Ctrl+D to access BASIC-BOOTWARE MENU
Booting Normal Extend BootWare
The Extend BootWare is self-decompressing.....
Done!
按住ctrl+b进到boot
*****
*
*
*      H3C WA4320-ACN-C BootWare, Version 7.07      *
*
*
*****
```

Copyright (c) 2004-2016 Hangzhou H3C Technologies Co., Ltd.

Compiled Date : Jul 25 2016
 CPU Type : Atheros AR9563
 CPU L1 Cache : 32KB
 CPU Clock Speed : 775MHz
 Memory Type : SDRAM
 Memory Size : 128MB

Memory Speed : 560MHz
BootWare Size : 512KB
Flash Size : 16MB
PCB Version : Ver.B

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.

3.1、更新扩展bootrom版本

```
=====
|<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+C: Display Copyright

Enter your choice(0-9):

此时按住ctrl+F 格式化flash, “Y”需要手工输入

Warning:All files on flash will be lost! Are you sure to format? [Y/N]Y.....

.....
.....

Format success.

```
=====
|<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+C: Display Copyright

Enter your choice(0-9): 3 //进入以太网子菜单

```
=====
|Note:the operating device is flash |
|<1> Download Image Program To SDRAM And Run |
|<2> Update Main Image File |
|<3> Update Backup Image File |
|<4> Download Files(*.*) |
|<5> Modify Ethernet Parameter |
|<0> Exit To Main Menu |
| |
=====
```

Enter your choice(0-5): 5 //更改以太网参数

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

Protocol (FTP or TFTP) tftp
//忽略输出内容, 直接输入TFTP, 然后回车
Load File Name      :wa4300s_fat.bin
//忽略输出内容, 直接输入wa4300s_fat.bin, 然后回车
Target File Name    :wa4300s_fat.bin
//忽略输出内容, 直接输入wa4300s_fat.bin, 然后回车
Server IP Address   :192.168.0.1
//忽略输出内容, 直接输入电脑主机的 IP, 如192.168.0.1, 然后回车
Local IP Address    :192.168.0.19
//忽略输出内容, 直接输入和电脑主机的ip同一网段, 比如192.168.0.19, 然后回车
Subnet Mask         :255.255.255.0
//忽略输出内容, 直接回车
Gateway IP Address  :0.0.0.0
//忽略输出内容, 直接回车
```

```
=====
|Note:the operating device is flash      |
|<1> Download Image Program To SDRAM And Run          |
|<2> Update Main Image File                      |
|<3> Update Backup Image File                   |
|<4> Download Files(*.*)                        |
|<5> Modify Ethernet Parameter                 |
|<0> Exit To Main Menu                         |
|                                               |
=====
```

```
Enter your choice(0-5): 1 //此时为更新bootware版本
Loading.....
.....
.....
.Done.
11248640 bytes downloaded!
Extended BootWare Version is not equal,updating? [Y/N]
Updating Extended BootWare.....Done.
BootWare updated,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!
```

3.2、升级bin版本

此时bootware版本更新完成, 进扩展boot升级设备版本。

```
*****
*                                     *
*           H3C WA4320-ACN-C BootWare, Version 1.05           *
*                                     *
*****
```

Copyright (c) 2004-2016 Hangzhou H3C Technologies Co., Ltd.

```
Compiled Date   : Jun 28 2016
CPU Type        : Atheros AR9563
CPU L1 Cache    : 32KB
CPU Clock Speed : 775MHz
Memory Type     : SDRAM
Memory Size     : 128MB
Memory Speed    : 560MHz
```

BootWare Size : 512KB
Flash Size : 16MB
PCB Version : Ver.B

Read net params from bootrom failed, use the default value
BootWare Validating...
Press Ctrl+B to enter extended boot menu...
Starting to get the main application file--flash:/wa4300s_fit.bin!
The main application file does not exist--flash:/wa4300s_fit.bin!
Starting to get the backup application file--flash:/backup.bin!
The backup application file does not exist--flash:/backup.bin!
Starting to get the secure application file--flash:/secure.bin!
The secure application file does not exist--flash:/secure.bin!
Booting App fails!
Trying to get the IP address from the DHCP server.....
Getting IP Address Failed, the system will reboot.
[State : Idle] Reset request, rebooting the AP
Rebooting.....

System is starting...
Press Ctrl+D to access BASIC-BOOTWARE MENU
Booting Normal Extend BootWare
The Extend BootWare is self-decompressing.....Done!

按住ctrl+b进到boot

```
*****  
*                                     *  
*           H3C WA4320-ACN-C BootWare, Version 1.05           *  
*                                     *  
*****  
Copyright (c) 2004-2016 Hangzhou H3C Technologies Co., Ltd.
```

Compiled Date : Jun 28 2016
CPU Type : Atheros AR9563
CPU L1 Cache : 32KB
CPU Clock Speed : 775MHz
Memory Type : SDRAM
Memory Size : 128MB
Memory Speed : 560MHz
BootWare Size : 512KB
Flash Size : 16MB
PCB Version : Ver.B

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.

```
=====
```

<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+Y: Change AP Mode  
Ctrl+F: Format File System  
Enter your choice(0-9):
```

```
按住ctrl+F,再次格式化 //第二次格式化, "Y"需要手工输入  
Warning:All files on flash will be lost! Are you sure to format? [Y/N]Y.....  
.....  
.....
```

```
Format success.
```

```
=====  
|<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+Y: Change AP Mode  
Ctrl+F: Format File System  
Enter your choice(0-9): 3 //进到以太网子菜单
```

```
=====  
|Note:the operating device is flash |  
|<1> Download Application Program To SDRAM And Run |  
|<2> Update Main Application File |  
|<3> Modify Ethernet Parameter |  
|<0> Exit To Main Menu |  
| |
```

```
=====  
Enter your choice(0-3): 3 //更改以太网参数
```

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

```
Protocol (FTP or TFTP) tftp  
//忽略输出内容, 直接输入TFTP, 然后回车  
Load File Name :wa4300s_fat.bin  
//忽略输出内容, 直接输入wa4300s_fat.bin, 然后回车  
Target File Name :wa4300s_fat.bin  
//忽略输出内容, 直接输入wa4300s_fat.bin, 然后回车  
Server IP Address :192.168.0.1  
//忽略输出内容, 直接输入电脑主机的 IP, 如192.168.0.1, 然后回车  
Local IP Address :192.168.0.19  
//忽略输出内容, 直接输入和电脑主机的ip同一网段, 比如192.168.0.19, 然后回车  
Subnet Mask :255.255.255.0  
//忽略输出内容, 直接回车  
Gateway IP Address :0.0.0.0  
//忽略输出内容, 直接回车
```

```
=====  
|Note:the operating device is flash |  
|<1> Download Application Program To SDRAM And Run |
```

```
|<2> Update Main Application File          |
|<3> Modify Ethernet Parameter            |
|<0> Exit To Main Menu                    |
|                                         |
```

```
=====
Enter your choice(0-3): 2 //更新主应用文件, 此时为AP版本文件
Loading.....
```

```
.....
.....
Done!
11248640 bytes downloaded!
Updating File flash:/wa4300s_fat.bin.....
.....
.....Done!
```

```
=====
|Note:the operating device is flash      |
|<1> Download Application Program To SDRAM And Run          |
|<2> Update Main Application File          |
|<3> Modify Ethernet Parameter            |
|<0> Exit To Main Menu                    |
|                                         |
```

```
=====
Enter your choice(0-3): 0 //返回主菜单
```

```
=====
|<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+Y: Change AP Mode
Ctrl+F: Format File System
Enter your choice(0-9): 0 //重启
System is starting...
Press Ctrl+D to access BASIC-BOOTWARE MENU
Booting Normal Extend BootWare
The Extend BootWare is self-decompressing.....Done!
```

```
*****
*                                     *
*           H3C WA4320-ACN-C BootWare, Version 1.05           *
*                                     *
*****
```

Copyright (c) 2004-2016 Hangzhou H3C Technologies Co., Ltd.

```
Compiled Date   : Jun 28 2016
CPU Type       : Atheros AR9563
CPU L1 Cache   : 32KB
CPU Clock Speed : 775MHz
Memory Type    : SDRAM
Memory Size    : 128MB
Memory Speed   : 560MHz
BootWare Size  : 512KB
Flash Size     : 16MB
```

BootWare Validating...
Press Ctrl+B to enter extended boot menu...
Starting to get the main application file--flash:/wa4300s_fat.bin!.....
.....
.....
The App file is self-decompressing.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....Done!
System application is starting...
Startup configuration file does not exist.
User interface con0 is available.

4. 切换成V5胖模式完成。

重启设备完成后就可以使用默认的管理地址192.168.0.50登录AP进行管理了。登录AP的默认用户名是admin，密码是h3capadmi

配置关键点