

组网及说明

无

配置步骤

1.1 适用产品系列

本手册适用于如下产品：比如WA5320、WA5320-C、WA5320-C-EI、WA5320H、WA5320-SI等WA5300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)

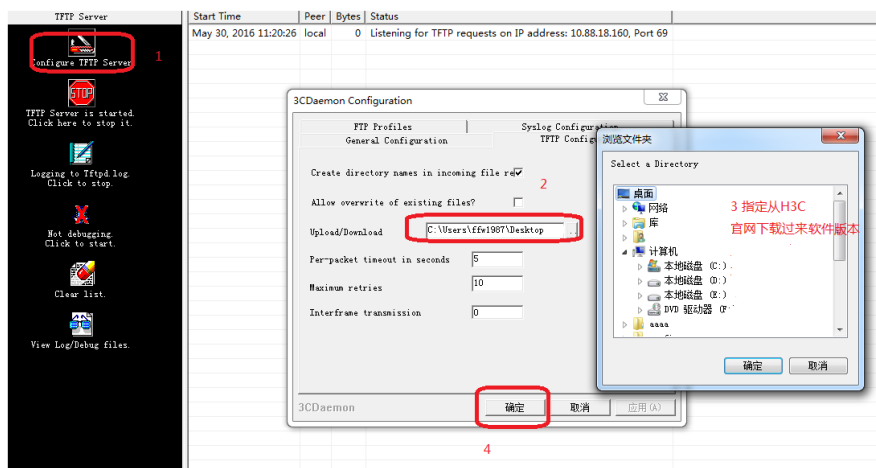
将软件版本下载到设备FLASH内，然后通过命令行加载Bootrom版本，再加载主机软件版本，加载时输入的文件名一定要一致，建议复制黏贴，然后升级过程中避免断电重启操作。

1、先从官网下载WA5300云AP的胖版本，本案例以WA5320举例

https://www.h3c.com/cn/d_201909/1225175_30005_40.htm#_Toc18344758

下载压缩包WA5300-CMW710-R2425P10-OASIS.zip，解压生成ipe文件，从官网下载对应版本文件需要修改成wa5300-oasis.ipe，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ipe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，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。

```
*****
*
*
*           H3C WA5320 BootWare, Version 7.15
*
*
*****
```

Copyright (c) 2004-2018 New H3C Technologies Co., Ltd.

```
Compiled Date   : Aug 21 2018
CPU Type       : ARM
CPU L1 Cache   : 32KB
CPU L2 Cache   : 256KB
CPU Clock Speed : 710MHz
Memory Type    : DDR3 SDRAM
Memory Size    : 256MB
Memory Speed   : 533MHz
Flash Size     : 32MB
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、升级扩展bootrom版本

要求boot版本必须为对应版本配套的7.18版本，版本文件中可获取. 如果当前版本已经为7.18，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> 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
Ctrl+Y: Change AP Mode
Enter your choice(0-9): 7 //进入bootware子菜单
```

```
=====
|Note:the operating device is flash           |
|<1> Backup Full BootWare                     |
|<2> Restore Full BootWare                     |
|<3> Update BootWare By Serial                 |
|<4> Update BootWare By Ethernet              |
|<0> Exit To Main Menu                         |
=====
```

Enter your choice(0-4): 4 //设置更新bootware方式通过网线

```
=====
|<1> Update Full BootWare                       |
|<2> Update Extended BootWare                  |
|<3> Update Basic BootWare                     |
|<4> Modify Ethernet Parameter                 |
|<0> Exit To Main Menu                         |
=====
```

Enter your choice(0-4): 4 //设置上传配置

设置上传文件名，此处是更新bootware，需上传boot文件；设置IP地址

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

```
Protocol (FTP or TFTP) :ftp
Load File Name      :wa5300.ipe
                   :apwa5300_v7.18.btw //bootware版本名称，如boot版本已经是V7.18了，可忽略本
步骤，继续升级bin版本
Target File Name    :wa5300.ipe
                   :apwa5300_v7.18.btw //bootware版本名称
Server IP Address   :192.168.0.99 192.168.0.1 //电脑ip地址
Local IP Address    :192.168.0.98 192.168.0.19 //配置和电脑同网段任意地址
Subnet Mask         :255.255.255.0
```

Gateway IP Address :0.0.0.0

```
=====
|<1> Update Full BootWare          |
|<2> Update Extended BootWare      |
|<3> Update Basic BootWare         |
|<4> Modify Ethernet Parameter     |
|<0> Exit To Main Menu             |
=====
```

```
Enter your choice(0-4): 1 //更新bootware
Loading.....Done.
1233920 bytes downloaded!
Updating Basic BootWare? [Y/N]Y //手工输入“Y”
Updating Basic BootWare.....Done.
Updating Extended BootWare? [Y/N]Y //手工输入“Y”
Updating Extended BootWare.....Done.
```

更新完成后选择0退回主界面并reboot

```
=====
|<1> Update Full BootWare          |
|<2> Update Extended BootWare      |
|<3> Update Basic BootWare         |
|<4> Modify Ethernet Parameter     |
|<0> Exit To Main Menu             |
=====
```

Enter your choice(0-4): 0

```
=====
|Note:the operating device is flash |
|<1> Backup Full BootWare          |
|<2> Restore Full BootWare         |
|<3> Update BootWare By Serial     |
|<4> Update BootWare By Ethernet   |
|<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+C: Display Copyright

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.

3.2. 升级ipe版本

重启完成后查看bootwre版本为7.18, 再次Ctrl+B进入bootware, Ctrl+F格式化flash, 此处注意需要格式化, 避免空间不足导致版本解压失败

```
*****
*                                     *
*           H3C WA5320 BootWare, Version 7.18           *
*                                     *
*****
```

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

Compiled Date : Mar 8 2019
CPU Type : ARM
CPU L1 Cache : 32KB
CPU L2 Cache : 256KB
CPU Clock Speed : 710MHz
Memory Type : DDR3 SDRAM
Memory Size : 256MB
Memory Speed : 533MHz
Flash Size : 32MB
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.

```
=====
|<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

Ctrl+Y: Change AP Mode

Enter your choice(0-9): // 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
Ctrl+Y: Change AP Mode
Enter your choice(0-9): 3 //进入以太口子菜单
```

选5设置有线网络配置，上传之前需要把胖AP版本文件名改成wa5300-oasis.ipe

```
=====
|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 //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 :apwa5300_v7.18.btw
:wa5300-oasis.ipe //此处注意修改版本文件名称为wa5300-oasis.ipe
Target File Name :apwa5300_v7.18.btw
:wa5300-oasis.ipe //此处注意修改版本文件名称为wa5300-oasis.ipe
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 :255.255.255.0
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> Update Backup Image File |
|<4> Download Files(*.*) |
|<5> Modify Ethernet Parameter |
|<0> Exit To Main Menu |
| |
=====
```

```
Enter your choice(0-5): 2 //更新主版本文件
Loading.....
.....
.....
.....
.....
.....
.....
.....Done.
27445248 bytes downloaded!
Image file wa5300-oasis-boot.bin is self-decompressing...
Saving file flash:/wa5300-oasis-boot.bin .....
.....Done.
Image file wa5300-oasis-system.bin is self-decompressing...
Saving file flash:/wa5300-oasis-system.bin .....
```

.....
.....
.....
.....
.....Done.

升级完成后选择0退回主界面并且reboot

```
=====
|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): 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+C: Display Copyright
Ctrl+Y: Change AP Mode
Enter your choice(0-9): 0
System is starting...
Press Ctrl+D to access BASIC-BOOTWARE MENU
Booting Normal Extended BootWare
The Extended BootWare is self-decompressing.....
.Done.
```

```
*****
*                                     *
*           H3C WA5320 BootWare, Version 7.18           *
*                                     *
*****
```

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

Compiled Date : Mar 8 2019
CPU Type : ARM
CPU L1 Cache : 32KB
CPU L2 Cache : 256KB
CPU Clock Speed : 710MHz
Memory Type : DDR3 SDRAM
Memory Size : 256MB
Memory Speed : 533MHz
Flash Size : 32MB
PCB Version : Ver.B

BootWare Validating...

```
Press Ctrl+B to access EXTENDED-BOOTWARE MENU...
Loading the main image files...
Loading file flash:/wa5300-oasis-system.bin.....
.....
.....
Done.
Loading file flash:/wa5300-oasis-boot.bin.....
Done.

Image file flash:/wa5300-oasis-boot.bin is self-decompressing.....
.....
.....
.....
.....
.....Done.
System image is starting...

Startup configuration file doesn't exist or is invalid.
Line con0 is available.

Press ENTER to get started.
至此设备启动完成
```

配置关键点

配置关键点:

- 1) boot版本升级到版本配套的bootware版本文件7.18版本
- 2) 升级完bootware后需要格式化Flash，避免空间不足导致失败
- 3) 从官网下载对应版本文件需要修改成wa5300-oasis.ipe
- 4) 操作步骤与传统瘦切胖类似，无需切换ap-mode，选择<2> Update Main Image File

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:

l 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。

l 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。