瘦AP中boot.bin和system.bin文件导出导入生效方式

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组网及说明

AC和AP通过三层交换机Switch连接，AC与PC直连。

问题描述

瘦AP中有boot.bin和system.bin文件，先把瘦ap的boot.bin和system.bin文件导出，然后重启ap在boot
ware界面下格式化后，再导入boot.bin和system.bin文件能不能把版本导进去。这时候就是直接导入的.
bin文件而不是.ipe文件。

过程分析

按操作进行bin文件的导出和导入

解决方法

1 首先瘦AP上电后可以ping通PC

```
<cy>ping 192.168.0.66
Ping 192.168.0.66 (192.168.0.66): 56 data bytes, press CTRL_C to break
56 bytes from 192.168.0.66: icmp_seq=0 ttl=127 time=2.936 ms
56 bytes from 192.168.0.66: icmp_seq=1 ttl=127 time=1.394 ms
56 bytes from 192.168.0.66: icmp_seq=2 ttl=127 time=1.212 ms
56 bytes from 192.168.0.66: icmp_seq=3 ttl=127 time=1.550 ms
56 bytes from 192.168.0.66: icmp_seq=4 ttl=127 time=1.371 ms

--- Ping statistics for 192.168.0.66 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 1.212/1.693/2.936/0.631 ms
<cy>%Oct 16 14:43:11:972 2020 cy PING/6/PING_STATISTICS: Ping statistics for 19
2.168.0.66: 5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss, ro
und-trip min/avg/max/std-dev = 1.212/1.693/2.936/0.631 ms.
```

2 导出boot.bin和system.bin文件到桌面

```
<cy>dir
Directory of flash:
   0 -rw-       2694144 Aug 08 2008 20:00:00   wa4300-boot.bin
   1 -rw-      15584256 Aug 08 2008 20:00:00   wa4300-system.bin
```

```
<cy>tftp 192.168.0.66 put wa4300-boot.bin
Press CTRL+C to abort.
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 2631k    0     0  100 2631k      0   452k  0:00:05  0:00:05 --:--:--   458k

<cy>tftp 192.168.0.66 put  wa4300-system.bin
Press CTRL+C to abort.
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100 14.8M    0     0  100 14.8M      0   457k  0:00:33  0:00:33 --:--:--   467k
```

3 重启ap在bootware界面下ctrl+F 格式化flash

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

=====================<EXTENDED-BOOTWARE MENU>========================
|<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):
Warning:All files on flash will be lost! Are you sure to format? [Y/N]Y.....
........
```

4选择进入以太网子菜单、更改以太网参数，然后分别导入boot.bin和system.bin文件

```
=====================<ETHERNET PARAMETER SET>========================
|Note:         '.' = Clear field.                                   |
|              '-' = Go to previous field.                          |
|         Ctrl+D = Quit.                                            |
====================================================================
Protocol (FTP or TFTP) :tftp
Load File Name          :wa4300-system.bin
                        :wa4300-boot.bin
Target File Name        :wa4300-system.bin
                        :wa4300-boot.bin
Server IP Address       :192.168.0.66
Local IP Address        :1.1.1.2 192.168.0.6
Subnet Mask             :255.255.255.0
Gateway IP Address      :1.1.1.1 192.168.0.66
```

```
========================<ETHERNET PARAMETER SET>==========================
|Note:        '.' = Clear field.                                          |
|             '-' = Go to previous field.                                 |
|       Ctrl+D = Quit.                                                    |
==========================================================================
Protocol (FTP or TFTP) :tftp
Load File Name        :wa4300-boot.bin
                      :wa4300-system.bin
Target File Name      :wa4300-boot.bin
                      :wa4300-system.bin
Server IP Address     :192.168.0.66
Local IP Address      :192.168.0.6
Subnet Mask           :255.255.255.0
Gateway IP Address    :192.168.0.66
```

5 之后应该选择4 download而不是2 update，否则会报错

```
========================<Enter Ethernet SubMenu>==========================
|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                                                    |
|<Ensure The Parameter Be Modified Before Downloading!>                   |
==========================================================================
Enter your choice(0-5): 4
Loading...................................................Done.
2694144 bytes downloaded!
Saving file flash:/wa4300-boot.bin .......................................
.Done.
```

```
========================<Enter Ethernet SubMenu>==========================
|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                                                    |
|<Ensure The Parameter Be Modified Before Downloading!>                   |
==========================================================================
Enter your choice(0-5): 2
Loading...................................................................
..........................................................................
..........................................................................
..........Done.
15584256 bytes downloaded!
Something wrong with the file.
```

6 此时查看文件，发现文件存在，但是type是N/A

```
=============================<File CONTROL>===============================
|Note:the operating device is flash                                      |
|<1> Display All File(s)                                                  |
|<2> Set Image File type                                                  |
|<3> Set Bin File type                                                    |
|<4> Set Configuration File type                                          |
|<5> Delete File                                                          |
|<0> Exit To Main Menu                                                    |
==========================================================================
Enter your choice(0-5): 1

Display all file(s) in flash:
 'M' = MAIN      'B' = BACKUP      'N/A' = NOT ASSIGNED
==========================================================================
|NO. Size(B)   Time                Type   Name                           |
|1   2694144   Aug/08/2008 20:00:00 N/A   flash:/wa4300-boot.bin         |
|2   15584256  Aug/08/2008 20:00:00 N/A   flash:/wa4300-system.bin       |
```

所以查看image文件会发现：

```
=============================<File CONTROL>===============================
|Note:the operating device is flash                                      |
|<1> Display All File(s)                                                  |
|<2> Set Image File type                                                  |
|<3> Set Bin File type                                                    |
|<4> Set Configuration File type                                          |
|<5> Delete File                                                          |
|<0> Exit To Main Menu                                                    |
==========================================================================
Enter your choice(0-5): 2

 'M' = MAIN      'B' = BACKUP      'N/A' = NOT ASSIGNED
==========================================================================
|NO. Size(B)   Time                Type   Name                           |
|No right image in the current device!                                   |
==========================================================================
```

AP重启也无法正常加载文件

```
BootWare Validating...
Press Ctrl+B to access EXTENDED-BOOTWARE MENU...
Loading the main boot and system image files...
The image does not exist!
Loading the backup boot and system image files...
The image does not exist!
Booting image fails!
Trying to get the IP address from the DHCP server......
System is starting...
```

7 需要进行文件类型设置

```
===========================<File CONTROL>===============================
|Note:the operating device is flash                                    |
|<1> Display All File(s)                                               |
|<2> Set Image File type                                              |
|<3> Set Bin File type                                                |
|<4> Set Configuration File type                                      |
|<5> Delete File                                                      |
|<0> Exit To Main Menu                                                |
=======================================================================
Enter your choice(0-5): 3

 'M' = MAIN       'B' = BACKUP      'N/A' = NOT ASSIGNED

=======================================================================
|NO. Size(B)   Time              Type    Name                         |
|1   2694144   Aug/08/2008 20:00:00 M       flash:/wa4300-boot.bin    |
|2   15584256  Aug/08/2008 20:00:00 M       flash:/wa4300-system.bin  |
|0   Exit                                                             |
=======================================================================
Note:Select .bin files. One but only one boot image and system image must
be included.
Enter file No.(Allows multiple selection):1
Enter another file No.(0-Finish choice):2
Enter another file No.(0-Finish choice):0
You have selected:
```

```
Modify the file attribute:
=======================================================================
|<1>+Main                                                             |
|<2>+Backup                                                           |
|<0> Exit                                                             |
=======================================================================
Enter your choice(0-2):1
This operation may take several minutes. Please wait....
Set the file attribute success!
```

此时文件类型为Main了，重启AP也能正常加载文件

```
===========================<File CONTROL>===============================
|Note:the operating device is flash                                    |
|<1> Display All File(s)                                               |
|<2> Set Image File type                                              |
|<3> Set Bin File type                                                |
|<4> Set Configuration File type                                      |
|<5> Delete File                                                      |
|<0> Exit To Main Menu                                                |
=======================================================================
Enter your choice(0-5): 1

Display all file(s) in flash:
 'M' = MAIN       'B' = BACKUP      'N/A' = NOT ASSIGNED
=======================================================================
|NO. Size(B)   Time              Type    Name                         |
|1   2694144   Aug/08/2008 20:00:00 M       flash:/wa4300-boot.bin    |
|2   15584256  Aug/08/2008 20:00:00 M       flash:/wa4300-system.bin  |
=======================================================================
```

```
BootWare Validating...
Press Ctrl+B to access EXTENDED-BOOTWARE MENU...
Loading the main boot and system image files...
Loading file flash:/wa4300-system.bin...........................................
.............................................................................
.............................................................................
.............................................................................
....................Done.
Loading file flash:/wa4300-boot.bin............................................
........................Done.

Image file flash:/wa4300-boot.bin is self-decompressing....................
.............................................................................
.............................................................................
........Done.
System image is starting...
```