Method to Upgrade VRP in BOOTROM FTP Mode on AR28、AR46 Series Routers

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[Operation procedure]

Step 1: The router performs power-on self-test and displays the following information:
Start to reboot...

```
  Router starts booting...(V2.05)
  Starting at 0x1c00000...
     ********************************************
     *                                          *
     *  Quidway Series Routers Boot ROM, V9.07   *
     *                                          *
     ********************************************
  Copyright(C) 1997-2004 by HUAWEI TECH CO., LTD.
  Compiled at 18:10:29 , Oct 14 2004.

  Testing memory...OK!
  128M   bytes  SDRAM
  32768k  bytes  flash memory
  Hardware Version is MTR 1.0
  CPLD Version is CPLD 1.0

  Press Ctrl-B to enter Boot Menu
```

Press **Ctrl+B** to enter the BOOTROM menu.

Step 2: The following information is displayed after you press **Ctrl+B**:
Please input Bootrom password:
Here, you need to enter the BootROM password (no password by default, press **Enter**). If you have changed the password, you need to enter the correct one. The system aborts after three wrong inputs.

Step 3: The following information is displayed when you enter a correct BootROM password:

```
Boot Menu:
    1: Download application program with XMODEM
    2: Download application program with NET
    3: Set application file type
    4: Display applications in Flash
    5: Clear application password
    6: Start up and ignore configuration
    7: Enter debugging environment
    8: Boot Rom Operation Menu
    9: Do not check the version of the software
    a: Exit and reboot
  Enter your choice(1-a): 2
```

In above prompt information,
Select **2: Download application program with NET**.

Step 4: Set the network parameters used by the FTP.

```
  Net Port Download Menu:
    1: Change Net Parameter
    2: Download From Net
    3: Exit to Main Menu
    Enter your choice(1-3): 1

  Change Boot Parameter:
```

'.' = clear field; '-' = go to previous field; ^D = quit

boot device   : fei0
processor number   : 0
host name   : 8040
file name   : vxworks AR28-VRP340-R0006-907-128-a.bin
//Version file name to be downloaded/
inet on ethernet (e) : 169.254.64.108 1.1.1.1
            //Interface address of the local router/
inet on backplane (b):
host inet (h)   : 169.254.64.107 1.1.1.2
            //FTP server address/
gateway inet (g)   :
user (u)   : 8040 aaa   //FTP account name/
ftp password (pw) (blank = use rsh): 8040 aaa
 //FTP account password
flags (f)   : 0x0   //Do not modify the flag in FTP mode/
target name (tn)   : 340-0006.bin   //Save the file name used in FLASH/
startup script (s) :
other (o)   :

Modify parameters in red and use the default values for others.

Step 5: Enable the ftp software and set the directory where the version file is located and the account password.

Step 6: Select **2: Download From Net** to download the version.
Net Port Download Menu:
    1: Change Net Parameter
    2: Download From Net
    3: Exit to Main Menu
    Enter your choice(1-3): 2

boot device   : fei
unit number   : 0
processor number   : 0
host name   : 8040
file name   : AR28-VRP340-R0006-907-128-a.bin
inet on ethernet (e) : 1.1.1.1
host inet (h)   : 1.1.1.2
user (u)   : aaa
ftp password (pw)   : aaa
flags (f)   : 0x0
target name (tn)   : 340-0006.bin
Attached TCP/IP interface to fei0.

Attaching network interface lo0... done

  Loading...
  NET download completed...
  read len = [08695261]

Step 7: Upon the load, save the version file.

You are prompted to save the version as some type of startup file.

Select **1. Main application file**.

Save the version file as Main type. The system begins to save the file.

Please select file to be saved as
   1. Main application file
   2. Backup application file
   3. Secure application file
   4. Cancel downloading
Enter your choice(1-4):   1
The file to be written is flash:/340-0006.bin, please wait.
Creating the file: flash:/340-0006.bin
  Write data to flash...
  Please wait, it may take a long time!
###
###
###
###
###
###
###
###
###
###
###
###
###############################
  Write COMWARE software file operation success.
  Press <Enter> key to reboot the system .

[Verification]
New version information is displayed upon the restart:
<Quidway>disp ver
 Copyright Notice:
 All rights reserved (Dec 10 2004).
 Without the owner's prior written consent, no decompiling
 nor reverse-engineering shall be allowed.
 Huawei-3Com Versatile Routing Platform Software
 VRP(R) software, Version 3.40, Release 0006
 Copyright (c) 2003-2004 Hangzhou Huawei-3Com Tech. Co.,Ltd. All rights reserved.
 Copyright (c) 2000-2003 Huawei Tech. Co.,Ltd. All rights reserved.
 Quidway AR28-31 uptime is 0 week, 0 day, 0 hour, 28 minutes

 CPU type: PowerPC 8245 300MHz
 128M bytes SDRAM Memory
 32M bytes Flash Memory
 128K bytes NvRAM Memory
 Pcb   Version:1.0
 Logic   Version:1.0
 BootROM Version:9.07
 [SLOT 0] 2FE   (Hardware)2.1, (Driver)2.0, (Cpld)0.0
 [SLOT 1] 2SA   (Hardware)1.1, (Driver)1.5, (Cpld)0.0

[Tip]
1. No special requirement for the FTP Serve software.