(m) Method to Upgrade BOOTROM in Xmodem Mode on AR28、AR46 Series Routers

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Method to Upgrade BOOTROM in Xmodem Mode on AR28, AR46 Series Router
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Step 1. The relative performs power on cell test and displays the following information.
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Router starts booling(v2.04)
Starting at 0x1c00000

* *
* Quidway Series Routers Boot ROM, V9.05 *
* *

Copyright(C) 1997-2004 by HIJAWEI TECH CO J TD
Compiled at 18:14:12 . Jun 24 2004.
Testing memoryOK!
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 system prompts the following information after you press Ctrl+B:
Please input Bootrom password:
Here, you need to enter the BootROM password (no password by default, press Ente
r). If you have modified the password, you need to enter the correct one. The system
aborts after three failed password attempts.
Step 3: The following information is displayed when you enter a correct BootROM pa
ssword:
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):8
In above prompt information,
Select 8: Boot Rom Operation Menu.
Step 4: Select 1 to download the complete BOOTROM software.
Boot ROM Operation Menu:
1: Download Boot ROM with XModem
2: Download Extended Segment of Boot ROM with XModem
3: Restore Extended Segment of Boot ROM from FLASH

- 4: Backup Extended Segment of Boot ROM to FLASH
- 5: Exit to Main Menu

Enter your choice(1-5): 1

Step 5: You are prompted to select the baud rate to load the software: Please choose your download speed:

1: 9600 bps

- 1. 9000 bp
- 2: 19200 bps
- 3: 38400 bps4: 57600 bps
- 5: 115200 bps
- 6: Exit to Main Menu
- Enter your choice(1-6): 5

Select 1-5 to download the router BootROM software based on the relevant baud rat e.

Step 6: We take 115200bps as an example. You are prompted to change the baud ra te and choose the XModem protocol as follows:

Download speed is 115200 bps. Change the terminal's speed to 115200 bps, and select XMODEM protocol. Press ENTER key when ready.

After setting the baud rate on the terminal, click **OK**. On the terminal menu, click **Disconnect** and **Connect** to go to the next step.

Step 7: The following information shows the router is waiting for the loading: Now Downloading Program File.

Please Start Transfer Program File Use Xmodem Protocal.

If You Want To Exit Press <Ctrl+X>.

Downloading...CCCCCCCCC

Select **Transfer** from the menu of terminal emulation program to enter the following d ialog box:

Note: The file name in the figure is an example only.

Step 8: Click **Browse** to open the folder where the BOOTROM software is stored. Se lect the file, change the protocol for download to XModem and click **Transfer.** Then t he system starts the download and you enter the following dialog box:

Step 9: After the load, the router will write the BOOTROM to the Flash or NVRAM an d display the following information:

Download successfully!

524288 bytes downloaded!

Boot ROM is written successfully!

Please use 9600 bps.Press <Enter> key to reboot the system .

The above information shows the download is successful and the system prompts yo u to recover the baud rate setting of the terminal emulation program. Click **Disconne ct** and then **Connect** on the terminal menu.

If the download fails, the system will display the following information and reboot the r outer:

Download failed.

Quidway start booting

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Here, you need to find out the failure reason and upgrade the BOOTROM again.

[Verification]

Recover the baud rate of the terminal emulation program to 9600bps and press Ente r to reboot the router and run the new BOOTROM program.

View the BOOTROM version and confirm success of the upgrade.

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

[Tip]

1. The upgrade method in CLI FTP mode introduced in 2.3 is recommended for it is more convenient and easier.