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Q&A

How do I use the Adtran TFTP Utility with the Atlas Products?

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A:

Introduction

The Trivial File Transfer Protocol (TFTP) utility included with the Atlas products may be used to save an Atlas configuration to a file, load a configuration into an Atlas from a file, or upgrade the Atlas firmware. These functions may only be performed through an Ethernet connection to the Atlas. This technical support note describes how to use TFTP with the Atlas to perform these functions.

Before You Begin

Ensure that the Atlas is connected to your network via Ethernet and that Adtran Utilities Software is installed on a network PC. If you do not have the Adtran Utilities Software, you may download a copy here.

Once the Adtran Utilities Software has been installed, launch the TFTP Server by going to **Start>Programs>Adtran Utilities>TFTP Server**. The IP address of the TFTP Server will display in the Status field and will be needed later (see Figure 1). To perform any configuration transfers or firmware upgrades using TFTP, the TFTP Server must be running.

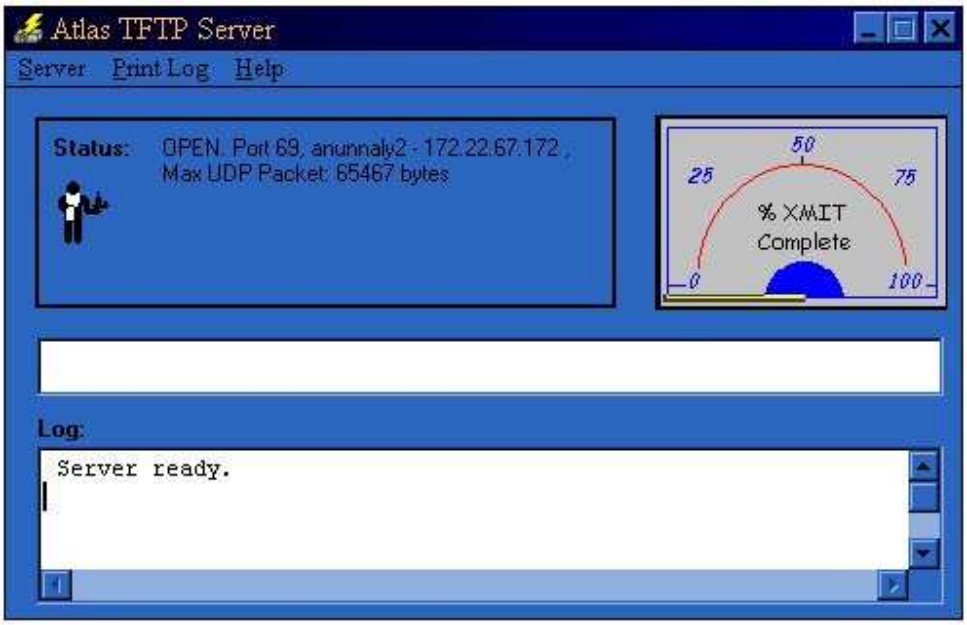

Figure 1

Saving the Atlas Configuration to a File

1. Telnet to the Atlas and login. Go to **System Utility>Config Transfer**. The options should be set as described below and shown in Figure 2.
    - **Transfer Method:** Select TFTP.
    - **TFTP Server IP Address:** Enter the IP address of the PC where the TFTP Server is running. This was the IP address displayed in the Status field when the TFTP Server was launched. (Refer back to Figure 1.) For this example, it is 172.22.67.172.
    - **TFTP Server Filename:** Enter a unique filename. This will be the name of the configuration file saved to the remote server. This file name is limited to no more than 8 characters preceding the ".cfg" extension.

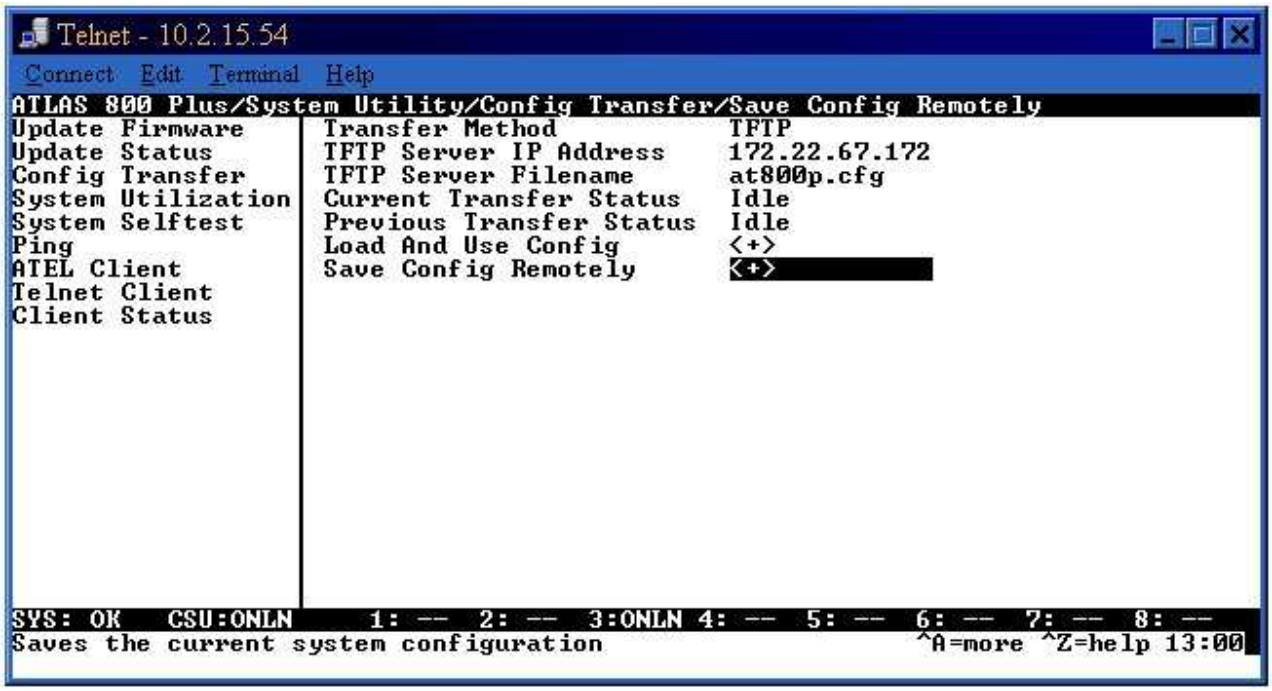

Figure 2

2. Move to the **Save Config Remotely** option and press <enter>. A confirmation message will be displayed (see Figure 3).

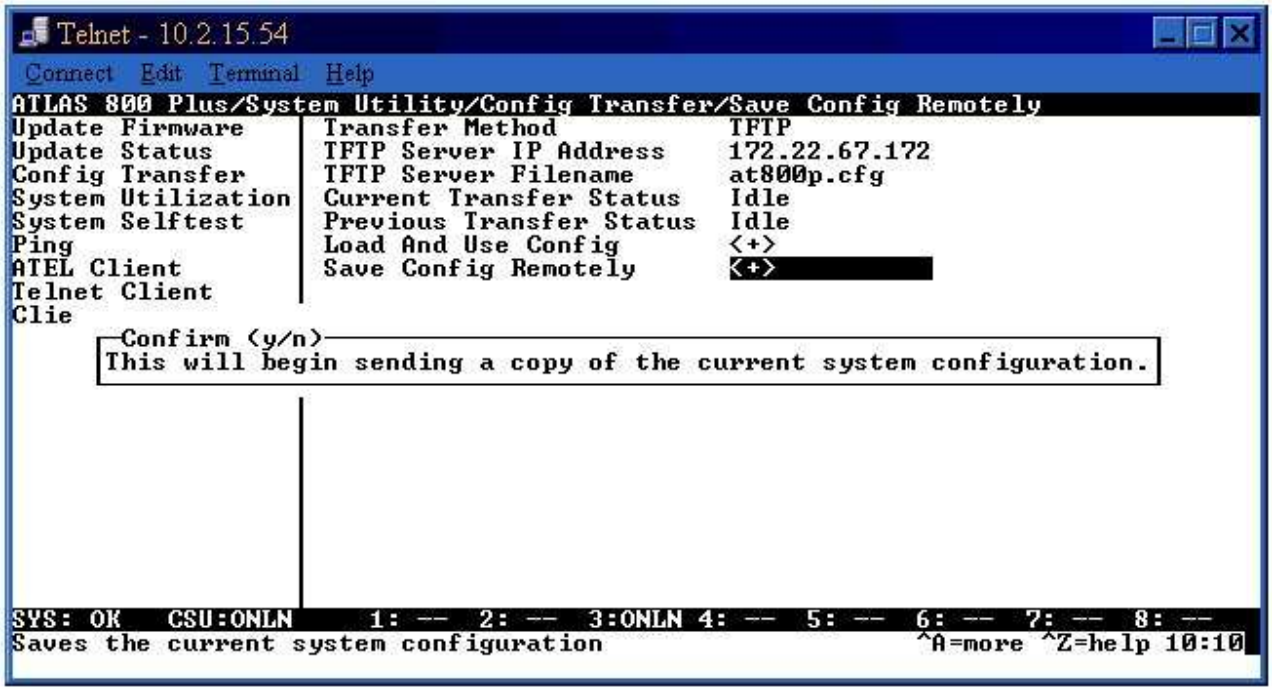

Figure 3

3. Press <y> to confirm the transfer. The Atlas configuration will be saved to the **Adtnutil** folder on the PC's hard drive. When the configuration download is complete, the **Previous Transfer Status** field will display *TFTP Download Complete*, as shown in Figure 4.

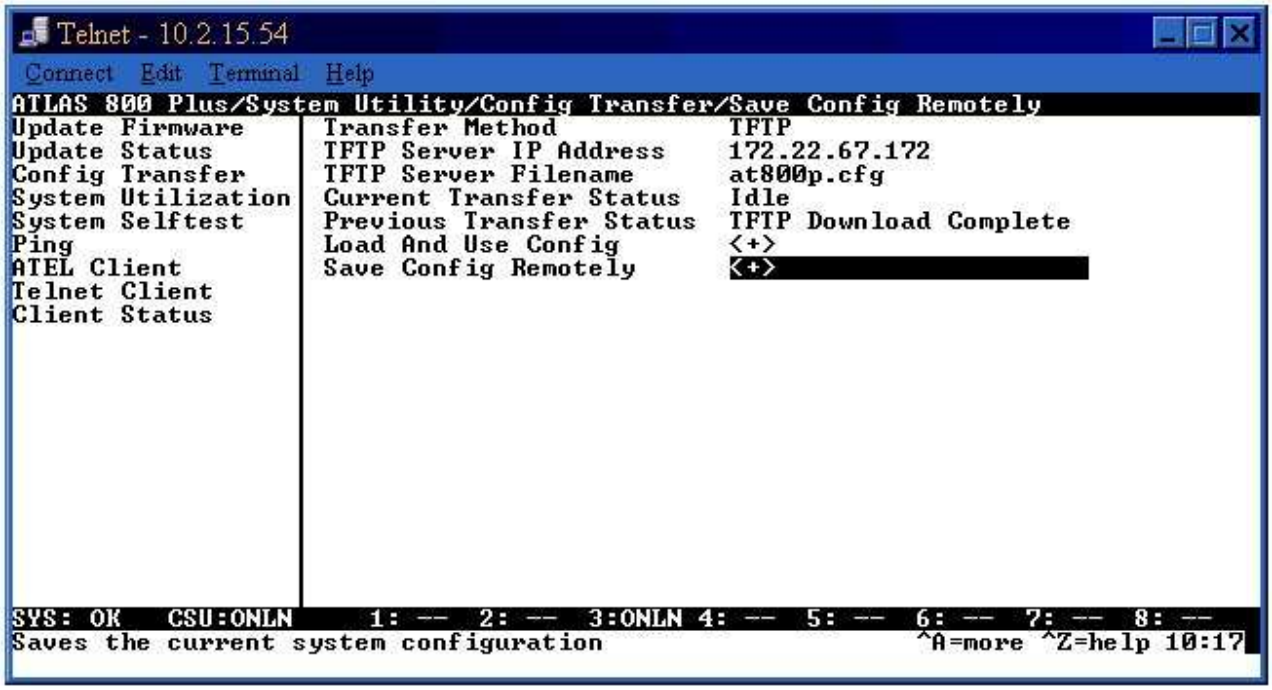

Figure 4

Loading an Atlas Configuration from a File

1. From the Atlas Telnet session, go to **System Utility>Config Transfer**. The options should be set as described below and shown in Figure 5.
    - **Transfer Method:** Select TFTP.
    - **TFTP Server IP Address:** Enter the IP address of the PC where the TFTP Server is running. This was the IP address displayed in the Status field when the TFTP Server was launched. (Refer back to Figure 1.) For this example, it is 172.22.67.172.
    - **TFTP Server Filename:** Enter the name of the configuration file you wish to load. If the file is located in the Adtnutil folder on the PC's hard drive, then you will not need to enter the path, just the file name. (Note: Filenames are case sensitive)

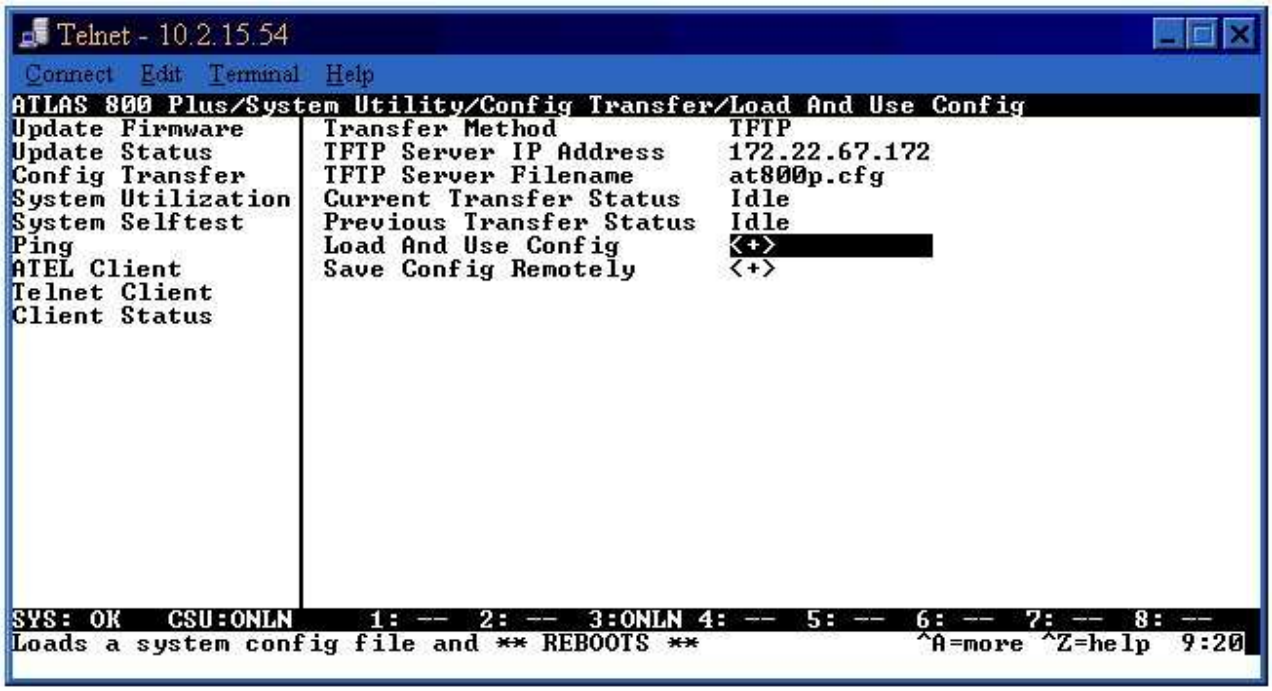

Figure 5

2. Move to the **Load And Use Config** option and press <enter>. A confirmation message will be displayed (see Figure 6).

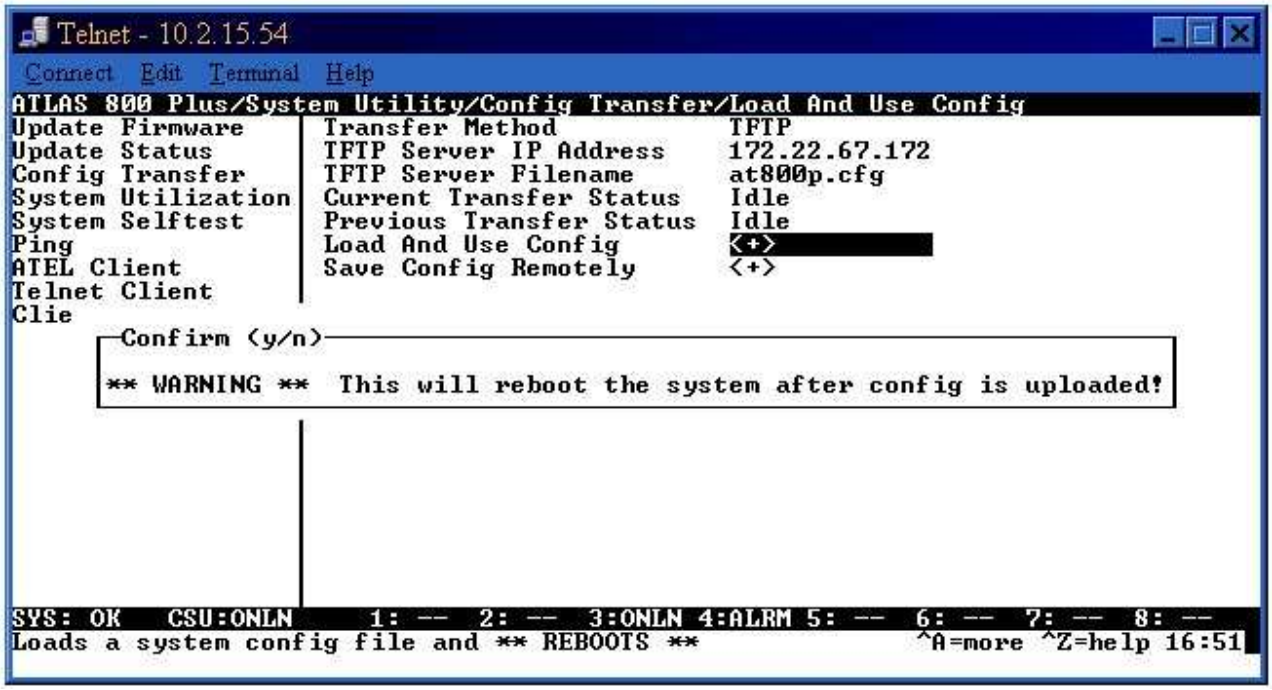

Figure 6

3. Press <y> to load the configuration file. The TFTP Server will begin transferring the configuration file from the PC to the Atlas. Figure 7 shows how the Atlas screen will appear during the data transfer.

   NOTE: The Atlas will reboot immediately after the configuration file is loaded and you will have to re-establish a Telnet session.

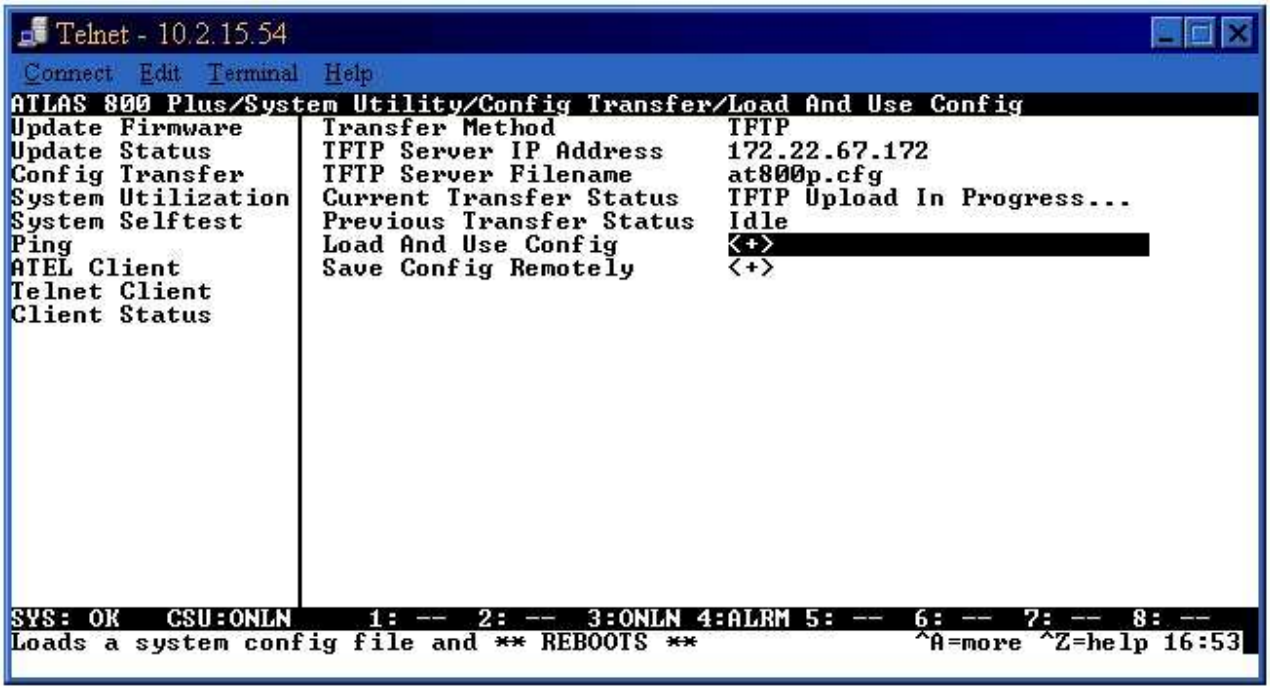

Figure 7

Loading Firmware into the Atlas

Before beginning a firmware upgrade, verify that the new firmware file is located in the Adtnutil folder on the hard drive.

1. From the Atlas Telnet session, go to **System Utility>Upgrade Firmware**. The options should be set as described below and shown in Figure 8.
   - **Module:** Select Slot 0.
   - **TFTP Server IP Address:** Enter the IP address of the PC where the TFTP Server is running. This was the IP address displayed in the **Status** field when the TFTP Server was launched. (Refer back to Figure 1.) For this example, it is 172.22.67.172.
   - **TFTP Server Filename:** Enter the name of the firmware file you wish to load. If the file is located in the **Adtnutil** folder on the PC's hard drive, then you will not need to enter the path, just the file name. In the example, the name of the firmware file is F03.biz. (Note: Filenames are case sensitive)
   - **Restart Schedule:** If set for *Restart Immediately After Update*, the Atlas will reboot when the file finishes loading into the Atlas memory. If set for *Restart At Specified Time and Date*, then you may specify a time and day for the Atlas to

perform the reboot. For this example, we will use the *Restart Immediately After Update* setting.

NOTE: New firmware will not be implemented until the automatic reboot has taken place.

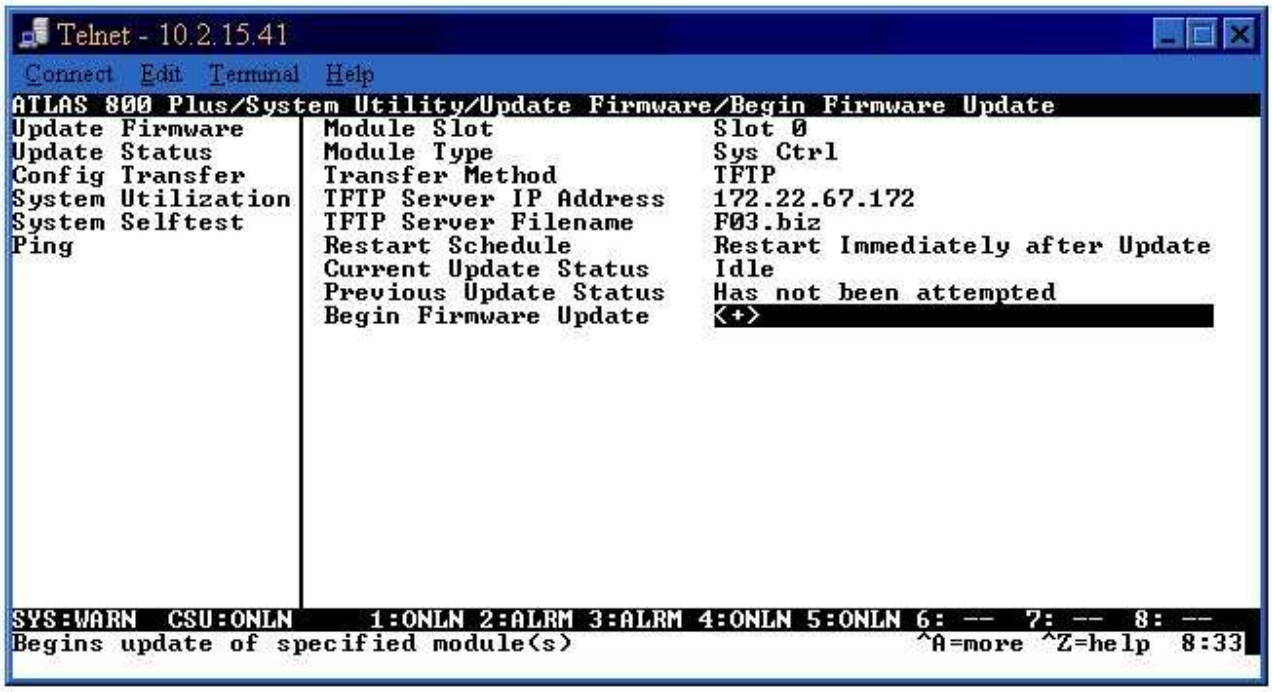

Figure 8

2. Move to the **Begin Firmware Update** option and press <enter>. A confirmation message will be displayed.
3. Press <y> to confirm the update. The TFTP Server will begin transferring the new firmware file from the PC to the Atlas. Figures 9 and 10 show how the Atlas Telnet session and the TFTP Server will appear during the data transfer.

   NOTE: Since we are using the *Restart Immediately After Update* setting, the Atlas will reboot immediately after the firmware file is loaded. Manually rebooting the Atlas will interrupt the loading process. Therefore, it is important to allow the Atlas to reboot automatically. After rebooting, a new Telnet session will need to be established.

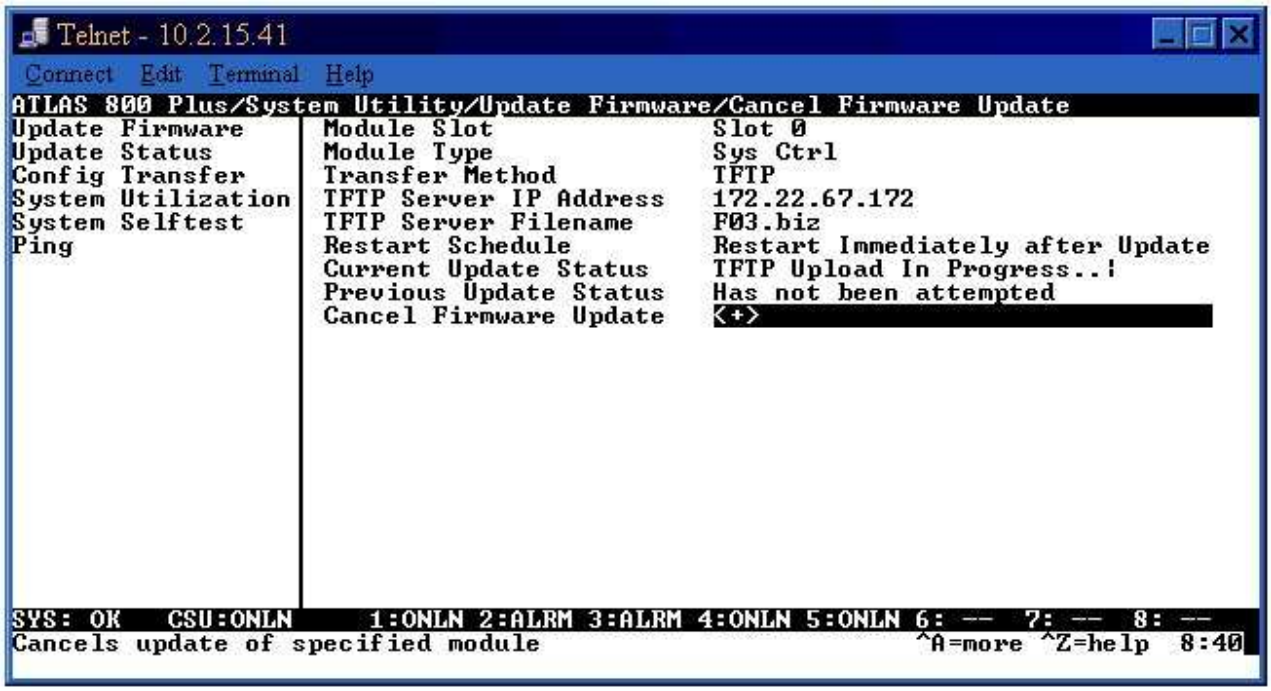

Figure 9

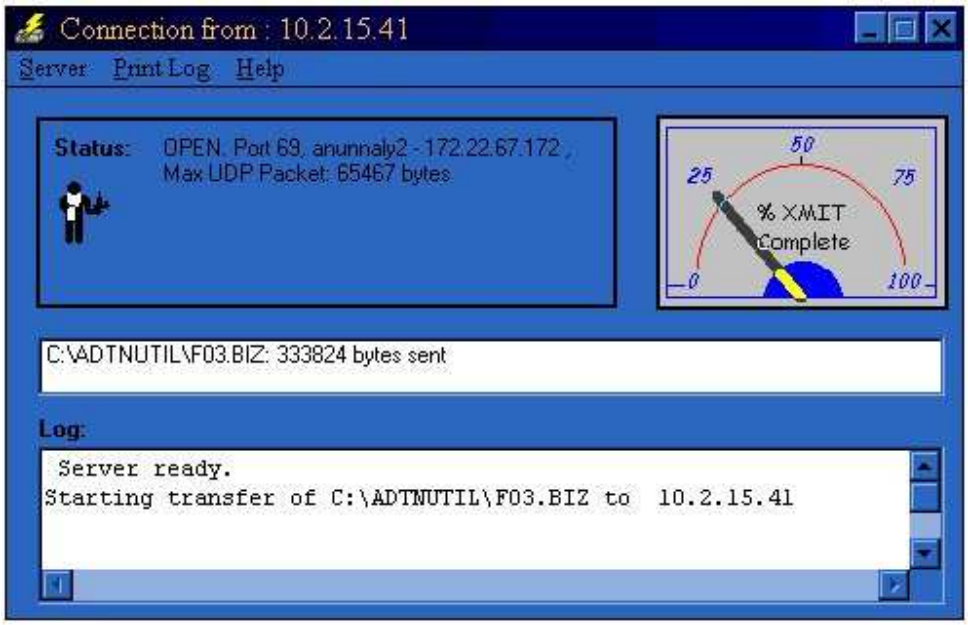

Figure 10

4. To verify that the new firmware has been successfully loaded, establish a Telnet connection to the Atlas and check the **Firmware Revision** field located on the **System Info** menu.