

## **Technical Reference 47-SZ**

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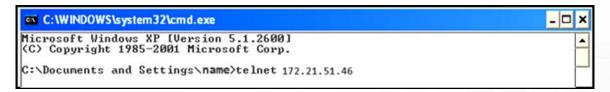
Firmware Update on PVIQ Hardware via TFTP	
Applies to:	SmartZone PVIQ panel
Objective:	Download firmware files to PVIQ PMs and PVIQ EMs
Documentation Reference:	<ul> <li>System Hardware Installation Instructions</li> <li>Technical Reference #TR44</li> </ul>
Pre-Requisites:	<ul> <li>Install and connect the PViQ hardware as indicated in the System Hardware Installation Instructions</li> <li>Make sure that you complete all Firmware Preparations as instructed in Technical Reference # TR44</li> <li>Make sure that you have access to a DHCP server</li> </ul>

# Description

A TFTP server can be used to download the firmware files to your PVIQ<sup>™</sup> PMs and PVIQ<sup>™</sup> EMs.

## Performing the Procedure

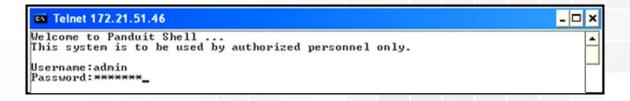
1. Telnet into the PViQ device (i.e. "telnet 172.21.51.46").



2. At the login prompt, use the following to bring up the Welcome Screen.

login: admin

password: Panduit





3. At the PSH prompt, type **show fw** 

```
Welcome to Panduit Shell ...
This system is to be used by authorized personnel only.

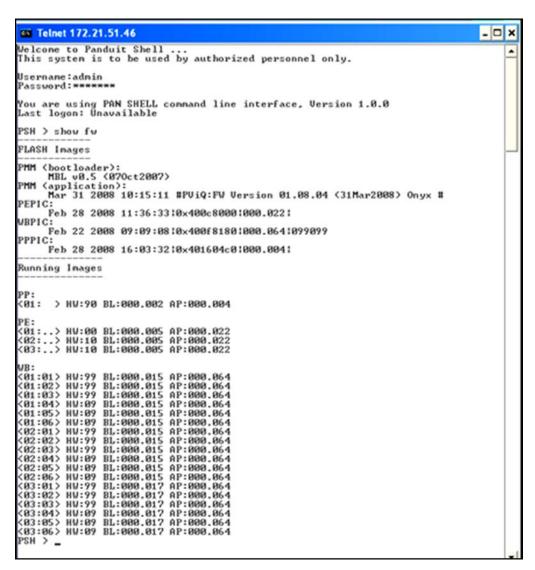
Username:admin
Password:******

You are using PAN SHELL command line interface, Version 1.0.0

Last logon: Unavailable

PSH > show fw
```

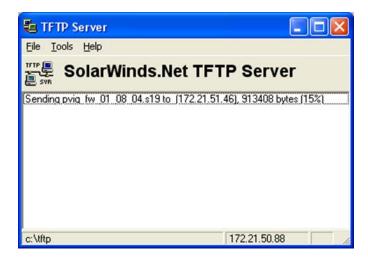
The screen will display information pertaining to your firmware ending with another PSH > prompt.



5. At the PSH> Prompt, type **start fwupdate** (and IP ADDRESS FILENME – see example below).



6. Check to see that the Firmware update has been sent by the TFTP server. You will see a file transfer status in the window.



**NOTE:** The TFTP server process takes approximately 5 minutes, followed by an additional 30 minutes for the panel to be updated. During this time, it is common for the panel to experience various LED flashes and audible beeps from the panel.

7. The process is complete when all the ports LEDs turn from red to off.

#### TECHNICAL REFERENCE



**NOTE:** It is a good idea to shut down the TFTP server when not-in-use for network security reasons.

- 8. Should an error occur during the TFTP process, verify the following:
  - a. Did you specify the correct IP address for the TFTP server?
     Note: this TFTP server IP address is not the same as the IP address for the PVIQ panel.
  - b. Did you specify the correct TFTP file name? The file name will look similar to this: **PViQ\_FW\_01\_14\_04.s19** although the name will change for every firmware release.
  - c. Is the TFTP server powered up?
  - d. Is the TFTP server ping-able? If not, then verify your network settings.
  - e. Is the TFTP server application configured to point to the directory with the firmware file? We generally use the **c:\tftp** directory to perform transfers, although you can use another directory if desired. Be sure to put the firmware file in this directory.
  - f. Is the TFTP server application enabled? Some TFTP servers allow you to turn TFTP communication on/off, even though they are installed and running.
  - g. For multiple simultaneous TFTP updates, be sure your TFTP server supports multiple simultaneous TFTP updates; some free TFTP servers allow one or two downloads while others allow many.

#### **End State**

You have downloaded the firmware files to your PVIQ PMs and PVIQ EMs.