

How to use the DNP/5280 Linux TFTP Client Program

The DIL/NetPC DNP/5280 offers a very simple way for Ethernet-based file transfers between your PC system and the DNP/5280 RAM disk drives or JFFS-based flash disk drives. This file transfer is using the TCP/IP service **TFTP** (Trivial File Transfer Program).

TFTP is server/client-based. The DIL/NetPC DNP/5280 Linux configuration offers a TFTP client program. Your PC needs a TFTP server program.

- 1. Step: Set-up a Ethernet link between the DNP/5280 10/100 Mbps Ethernet interface and the Ethernet interface of your PC system. Check the IP address of the PC system (Windows: ipconfig command; Linux: ifconfig command). The default IP address (factory set-up) of the DNP/5280 is 192.168.0.126.
- 2. Step: Run a TFTP server program on your PC system. Most Linux-based PCs comes with a pre-installed TFTP server program. Some of these systems starts this TFTP server program at boot time (the TFTP server is a part of the inetd service). In all other cases you have to edit one or more configuration files (SuSE: /etc/inetd.conf). See the user documentation of your Linux distribution for details.

Windows-based PCs don't offer TFTP server programs. Only some special server versions of Microsoft Windows comes with a TFTP server program. For all other Windows-based PCs you find a simple TFTP server program – called TFTPD32 – within the directory \TFTP-Server-Win32 of your DIL/NetPC DNP/5280 Starter Kit CD-ROM. TFTPD32 is a free, non-commercial product. Please watch the license.

Copy all files from \TFTP-Server-Win32 to a new subdirectory on your Windows-based PC hard disk drive and run TFTPD32.

🎨 TFTPD32 by Ph. Jounin							
	Pase Directory C:\Dokumente und Einstellungen\kdw\Eigene Dateien\DNP5280\CD-R0M\TFTP-Server-Win32 Verver interfaces 192.168.0.136				Browse Show Dir		
Current Action		Listening on port 69					
About			Settings		Help		

• **3. Step**: Check the TFTP connection between the DIL/NetPC DNP/5280 and your PC system. Open a Telnet session. Use the following commands for downloading and uploading files.

tftp -g -l file.name ip-addr tftp -p -l file.name ip-addr



The command tftp is the name of the DNP/5280 TFTP client program. The parameter -g stands for **get** (get a file from the PC system to the DNP/5280). The parameter -p stands for **put** (put a file from the DNP/5280 to the PC system). The parameter **-1 file.name** specifies the file for put or get. The parameter ip-addr stand for the IP address of your PC system (i.e. 192.168.0.1).

• **4. Step**: Most TFTP server programs works with a default directory for put and get commands. Each TFTP put command writes a file to this directory. Each TFTP get command reads the file from this directory on your PC system. For TFTPD32 you can change this directory with the browse button.

TFTPD32 by Ph. Jounin	
Base Directory C:\Dokumente und Einstellungen\kdw' Server interfaces 192.168.0.136 Buch-MSRmitARM	
Current Action Listening on port 6 About OK	Browse Show Dir Help

• **Example**: The following picture shows the use of the DNP/5280 TFTP client within a Telnet session.

🛤 Telnet 192.168.0.126		- 🗆 🗙
<pre># pwd /home/httpd # ls -al drwxr-xr-x 1 0 0 -rw-rr 1 0 0 -rw-rr</pre>	0 Nov 30 00:03 . 0 Nov 30 00:00 . 437 Nov 30 00:07 boa.conf 4850 Nov 30 00:10 dnp5280-1.gif 7904 Nov 30 00:10 index.html 4091 Nov 30 00:11 memmap.html 11235 Nov 30 00:11 pinout.html 4766 Nov 30 00:11 pio.html 1771 Nov 30 00:10 spacer2.gif 769 Nov 30 00:07 ssvlogo.gif	

Please note: A file transfer to the DNP/5280 must be started with a Telnet session from RAM disk or JFFS-based flash disk directories. We need R/W access for the TFTP get command.

That is all.