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Firmware update using TFTP via Telnet

- 2022-01-10 - Classic Switches

This howto describes the TFTP firmware update on Hirschmann Platform devices RS20/30/40, RSR20/30, MS20/30, PowerMICE, MACH100/1000/4000 and Octopus.

### Preparation

For a TFTP-Update you need a TFTP-server where the required software file is stored. TFTP stands for Trivial File Transfer Protocol.

In this manual the freeware program "Tftpd32"- from Ph. Jounin, free download at http://tftpd32.jounin.net/ - is used.

Start "tftpd32.exe" program.

### **TFTP-server settings**

😤 Tftpd32 by Ph. Jounin 📃 🗖 🔀							
Current Directory C:\ShortFolder\Firmware\v07-0-03\Raiswitch  Server interface 192.168.1.111  Ittp Server Tittp Client Log viewer						<u>B</u> rowse Show <u>D</u> ir	
peer	file	start time	progress	bytes	tot	al timeo	
About		<u></u>	ettings			Help	

Make sure the correct network interface card is selected as "Server Interface".

Change the "Current Directory" to the directory which contains the firmware file. You can use the "Browse" button to select the directory.

# Browse for directory

🏘 Bi	rowse For Folder	? 🗙
	🖃 Ď ShortFolder	^
	🖃 🧰 Firmware	
	🗉 🚞 v4-xx	
		E
	📥 🗁 v07-0-03 💶	
	Cotopus	
Fold	ler: Railswitch	
M	jake New Folder OK Car	ncel

Select the directory which contains the firmware file (e.g. rsL2P.bin) Click "OK" to continue

# **Browse files in Current Directory**

👋 Tftpd32: directo	ry	
lldp_med.mib lldp_pno.mib Readme_07.0.03.txt	16/12/2011 16/12/2011 16/12/2011 16/12/2011	61395 A 19712 20974
Readme_RailSwitch.07 rsL2E.bin rsL2E07003_00.jar rsL2P.bin rsL2P07003_00.jar usrgrp.mib	.0.03.txt 16/12 16/12/2011 16/12/2011 16/12/2011 16/12/2011 16/12/2011 16/12/2011	2/2011 4199717 2691343 5456104 2789583 27149
Close	Сору	Explorer

To make sure that the desired firmware file is available click "Show Dir" Click "Close" to return to the main window.

### **Open telnet session**

Copyright (c) 2004–2012 Hirschmann Automation and Control GmbH						
All rights reserved						
Railswitch Release L2E-07.1.03-B17						
(Build date 2012-06-25 19:48)						
System Name: RS-4BA19E Mgmt-IP : 172.16.1.10 Base-MAC : 00:80:63:4B:A1:9E System Time: 2012-01-01 03:30:19						
User:admin Password:*****						
NOTE: Enter '?' for Command Help. Command help displays all options that are valid for the 'normal' command forms of that particular mode. For a list of valid 'no' command forms for that mode, enter the help command 'no ?'. For the syntax of a particular command form, please consult the documentation.						
(Hirschmann Railswitch) >						

1. Open telnet session

2. Login as "admin" (default password is "private")

#### Start TFTP update

TFTP code transfer starting

1. Change into priviledged mode using the command "enable" - the prompt will change from ">" to "#"

2. Use the copy command to start the tftp file transfer. The syntax is "copy tftp://<ip

address of tftp server>/<file name>.bin system:image" (e.g. "copy

tftp://172.16.1.143/rsL2E.bin system:image)

3. Confirm the blocked management access during the update with "y"

#### **Observe the file transfer**

🏘 Tftpd32 by Ph. Jo	ounin					
Current Directory C:\Sho Server interface 192.16 Thp Server Thp Client	8.1.111	07-0-03\Rails	witch	•		Browse
peer	file	start time	progress	bytes		timeo
192.168.1.30:7700	<rsl2e.bin<< td=""><td>15:37:48</td><td>37%</td><td>1565696</td><td>4199717</td><td>0</td></rsl2e.bin<<>	15:37:48	37%	1565696	4199717	0
	🏘 rsL2E.bin to 192.168.1.30					
File size : 4199717 1565696 Bytes sent 55917 Bytes/sec						
About		<u>S</u>	ettings			<u>H</u> elp

During the file transfer you will get a progress window popup in the TFTPd32.

🏘 Tftpd32 by l	Ph. Jounin					
Server interface	192.168.1.111 Client Log view		•	Browse Show Dir		
Connection received from 192.168.1.30 on port 7700 [19/12 15:37:48.218] Read request for file <rsl2e.bin>. Mode octet [19/12 15:37:48.218] Using local port 1573 [19/12 15:37:48.218] <rsl2e.bin>: sent 8203 blks, 4199717 bytes in 75 s. 0 blk resent [19/12 15:39:03.343]</rsl2e.bin></rsl2e.bin>						
<				>		
<u>Cl</u> ear <u>Copy</u>						
About		<u>S</u> ettings		<u>H</u> elp		

Both tabs "TFTP Server" and "Log Viewer" shows which files have been served.

After the file transfer is finished the switch will write the firmware file into the flash.

Once this is finished the message "**File transfer operation completed successfully**" will be shown in the telnet window.

**Reboot** the switch to activate the new firmware.

The telnet session will be closed. You can reconnect and check the firmware version after the switch has completed rebooting.