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Firmware update using TFTP via the web interface

- 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\Railswitch Server interface 192168.1.111 The Server   The Client   Log viewer						<u>B</u> rowse Show <u>D</u> ir
peer	file	start time	progress	bytes	total	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

🏘 Browse For Folder	? 🗙
E 🏂 ShortFolder	^
□ □ Firmware ■ □ v4-xx	
⊞	
🗄 🧰 v06-0-01	
🗄 🧰 v06-0-03	
⊞ 🚞 ∨07-0-00	_
E	
	~
Cotopus	
Folder: Railswitch	
Make New Folder OK Can	cel

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

# **Browse files in Current Directory**

🏘 Tftpd32: directo	гу	
lldp_med.mib lldp_pno.mib Readme_07.0.03.txt	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	/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.

### Start TFTP-update from webinterface

▲ 192.168.1.30	
File Edit Go	
Basic Settings     System     System     Software     Port Configuration	Software HIRSCHMANN
Power over Ethernet Load/Save Restart Color Color Color Redundancy Redundancy Color Diagnostics Color Advanced Color Help	Version           Stored Version           L2E-07.0.03 2011-10-14 02:29           Running Version           L2E-07.0.03 2011-10-14 02:29           Backup Version           Indata valiable on L2E>
	HTTP Software Update URL tftp://192.168.1.111/rsL2E.bin Update 3
	File C:\ShortFolder\Finmware\v07-0-03\Railswitch\vsL2E.bin Update Update Reload

Login to the webinterface of the switch which you like to update.

- 1. Go to "Basic Settings" "Software"
- 2. Specify the **URL** in the "**tftp Software Update**" section.

The syntax is tftp:// {IP-address of the TFTP server} / {firmware file name}

In this example the correct entry is tftp://192.168.1.111/rsL2E.bin

3. Start the file transfer by clicking the "**Update**" button

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

🏘 Tftpd32 by Ph. Jo	ounin						
Current Directory C:\ShortFolder\Firmware\v07-0-03\Railswitch						Browse	
peer	file	start time	progress	bytes	total	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	
Telestre         Internet         Interne         Internet         Internet							
About		<u>S</u> (	ettings			Help	

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

🏘 Tftpd32 by	Ph. Jounin			
Server interface	C:\ShortFolder\F 192.168.1.111 p Client Log view	Firmware\v07-0-03\Ra	ilswitch 💌	
Read request for Using local port 1	file <rsl2e.bin>. 1 573 [19/12 15:37</rsl2e.bin>	1.30 on port 7700 [19 Mode octet [19/12 15: 7:48.218] 717 bytes in 75 s. 0 bil	37:48.218]	
<				
Clear Copy	y			
About		<u>S</u> ettings		Help

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 webinterface will indicate the upload was successful.