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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 192.153.1111 Trp Server Thip Client Log viewer					<u>B</u> rowse Show <u>D</u> ir	
peer	file	start time	progress	bytes	total	timeo
About		5	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	^
E C 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	огу		×
Ildp_med.mib Ildp_pno.mib Beadme_07.0.03.txt	16/12/2011 16/12/2011 16/12/2011	61395 19712 20974	
Readme_RailSwitch.07 rsL2E.bin rsL2E07003_00.jar rsL2P.bin rsL2P07003_00.jar usrgrp.mib	7.0.03.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 System Softwork Softwore Power over Ethernet Load/Save Restart Security Security Security Security Security Restart Cod/Save Restart Security Restart Security Restart Advanced Help	Software HIRSCHMANN
	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 <not available="" l2e="" on=""></not>
	Ittp Software Update URL Lttp://192.168.1.111/rsL2E.bin HTTP Software Update
	File C:\ShortFolder\Finmware\v07-0-03\Railswitch\vsL2E.bin Update Reload Image: Control of the state of

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:\Sho Server interface 192.16 Thtp Server Thtp Client	ntFolder\Firmware\v(68.1.111 Log viewer	07-0-03\Rails	witch	•	#******	Browse 3
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
	🔷 rsL 2E. bin	to 192.16	8.1.30	×		
File size : 4199717 1565696 Bytes sent 55917 Bytes/sec						
About		<u>S</u> (ettings			Help

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

🏘 Tftpd32 by	Ph. Jounin		
Current Directory Server interface	C:\ShortFolder\Firmware\v07-0-03\Railswitch	*	<u>B</u> rowse Show <u>D</u> ir
Connection recei Read request for Using local port 1 <rsl2e.bin>: sen</rsl2e.bin>	ved from 192.168.1.30 on port 7700 [19/12 15:37 file <rsl2e.bin>. Mode octet [19/12 15:37:48.218 573 [19/12 15:37:48.218] 8203 blks, 4199717 bytes in 75 s. 0 blk resent [1</rsl2e.bin>	7:48.218] 3] 9/12 15:39:0	3.343]
<			>
Clear Copy	·		
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.