How to setup and use the WinAgents TFTP server

This TFTP server also runs on Win7 x64. PCs

All the files mentioned in this document can be found on the ECS CDROM

Install Winagents TFTP Server located here: ...3rd_Party_Software\V-Panel TFTP Server App\tftpserver-setup.exe

How to Upgrade V-series panels via TFTP

Set your IP address to: 172.16.5.50 Subnetmask: 255.255.0.0

Connect a crossover RJ-45 cable between PC and V-Panel Ethernet Port. Or use a Switch in between when using a straight cable.

Create the following folder: C:/tftp/release

Put the firmware files into the created release folder:

CDROM:\Panel_Software\V-Series\Main_Board\710817Z - Panel UBOOT TFTP
Image\u-boot.ldr

CDROM:\Panel_Software\V-Series\Main_Board\710821Z - Panel Kernel\
vmImage

- CDROM: \Panel_Software \V-Series Main_Board \710822Z - Root File System \ rootfs.cramfs

- CDROM: \Panel_Software V-Series Main_Board 710818Z - Panel Application sbin.jffs2

| 🕒 🔍 🖉 🔰 🕨 Computer 🕨 | Lokaler Datenträger (C:) 🕨 tftp 🕨 release | ✓ | se durchsuchen | × 🗉 ـ |
|------------------------------|---|---------------------|----------------|---------|
| Organisieren 👻 🛛 In Biblioth | ek aufnehmen ▼ Freigeben für ▼ B | rennen Neuer Ordner | | - 🔳 🔞 |
| 🜟 Favoriten 🕺 | Name | Änderungsdatum | Тур | Größe |
| 🧮 Desktop | ootfs.cramfs | 18.07.2011 10:54 | CRAMFS-Datei | 1.240 K |
| 🚺 Downloads | sbin.jffs2 | 19.03.2012 11:03 | JFFS2-Datei | 3.267 K |
| 🗐 Zuletzt besucht | u-boot.ldr | 11.05.2012 14:22 | LDR-Datei | 96 K |
| 🔲 TV-Aufzeichnungen | 📄 vmImage | 18.07.2011 10:54 | Datei | 785 K |
| Stopbox 😵 | | | | |

Install Winagents TFTP Server located here:3rd_Party_Software\V-Panel TFTP Server App\tftpserver-setup.exe

Start Winagents TFTP Server software.

| Ninagents TFTP Server Manager | | J |
|--|--|---|
| : <u>S</u> erver <u>F</u> ile <u>E</u> dit <u>V</u> iew <u>H</u> elp | | |
| Virtual Folder: | | |
| | Connect to TFTP Server | |
| | Connect to | |
| | Local server | |
| | <u>Remote server:</u> | |
| | Port: 12000 | |
| | Authentication | |
| | Onect as current Windows user | |
| | O Use <u>c</u> ustom credentials | |
| | Usemame: | |
| | Password: | |
| | Do <u>m</u> ain: | |
| | | |
| | ☑ Save login information for further use | |
| | Help OK Cancel | |
| | | |
| | | 1 |
| | | |
| TFTP server not connected | | |

Press OK and in the next step connect.

Edit the virtual ftp folder. Name: release Path: c:\tftp\release

| 😳 WinAgents TFTP Server Manager - localhost | |
|--|-------------|
| Server File Edit View Help | |
| Image: Server Log Virtual TFTP Folders Start time Client Address | Description |

You Winagents should now look like this:

| 🐼 WinAgents TFTP Server Manager - localhost | | | |
|--|----------------------|------------------|----|
| : <u>S</u> erver <u>F</u> ile <u>E</u> dit <u>V</u> iew <u>H</u> elp | | | |
| Virtual Folder. release | 💽 🎅 🌽 🖄 | | |
|]} release // /release/ | | | Pa |
| Name | Größe Elementtyp | Änderungsdatum | |
| rootfs.cramfs | 1,21 MB CRAMFS-Datei | 18.07.2011 10:54 | |
| sbin.jffs2 | 3,18 MB JFFS2-Datei | 19.03.2012 11:03 | |
| < 🗋 u-boot.ldr | 95,8 KB LDR-Datei | 11.05.2012 14:22 | |
| 🔢 📄 vmImage | 784 KB Datei | 18.07.2011 10:54 | |
| | | | |
| | | | |
| | | | |
| | A |) | |
| Transfers Server Log | | | |

Downloading the V-series panel U-boot file

Repower the panel while pressing and holding down the main and aux knob. The 4 leds will flash.

Press H/S button one time and after this press Shift button one time.

You will see the file being downloaded in Winagents log-Window.

| WinAgents TFTP Server Manager - I | ocalhost | - | | | | × |
|--------------------------------------|-----------------|------------------------|----------------------|--------------------------|---|---|
| Server File Edit View Help | | | | | | |
| Virtual Folder: rele | ease | 💽 🎅 🌽 | * | | | |
| ·····]] release | 💼 /release/ | | | | | |
| | Name | Größe Elemer | ttyp Änderur | gsdatum | | |
| | rootfs.cramfs | 1,21 MB CRAME | S-Datei 18.07.20 | 1 10:54 | | |
| | sbin.jffs2 | 3,18 MB JFFS2-E | | | | |
| • | u-boot.ldr | 95,8 KB LDR-Da | | | | |
| | vmImage | 784 KB Datei | 18.07.20 | 11 10:54 | | |
| ransfers Server Log | File | Mode Size | |) size limeout Status | Vescription | |
| 4.07.2012 10:10:03 172.16.5.100:2966 | release/u-boot. | | 98150 512 | 5 V | File downloaded from server successfully. | |
| | | | | | | |
| Connected to localhost | Freeware mode (| max 2 files can be tra | nsmitted simultaneou | ısly) | | |

Wait for the panel to re-boot and show the standard V-series offline screen "Waiting for Eclipse connection "

Downloading the V-series panel Application, Kernel and Root files

Repower the panel while pressing and holding down the main and aux knob. The 4 leds will flash.

Now press the shift key button one time and all the other firmware files will be downloaded. The panel will reboot automatically when the update is finished. This can take up to 5 minutes.

Troubleshooting:

Winagents needs access to TCP/IP ports UDP 69 and TCP 12000.

TCP Port 12000 may be blocked by another process when you get the following message.



To find out which process uses which port you have to do the following:

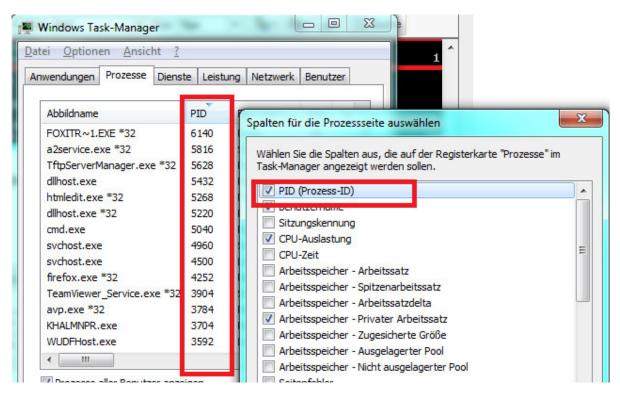
start up the command window: Startmenu->run type:**netstat -nao**

| os. Adminis | strator: C:\Windows\system32 | \cmd.exe | | |
|--|--|--|--|---|
| 27 | 32 | | | |
| C:\>TASK | LIST ¦find "3514" | | | |
| C:\>nets | tat -nao | | | |
| Aktive V | erbindungen | | | |
| Proto TCP TCP TCP TCP TCP TCP TCP TCP TCP | Lokale Adresse 0.0.0.0:135 0.0.0.0:445 0.0.0.0:554 0.0.0.0:1110 0.0.0.0:2869 0.0.0.0:3306 0.0.0.0:3357 0.0.0.0:10243 0.0.0.0:12000 0.0.0.0:12000 | Remoteadresse 0.0.0.0:0 0.0.0.0:0 0.0.0.0:0 0.0.0:0 0.0.0:0 0.0.0.0:0 0.0.0.0:0 0.0.0.0:0 0.0.0.0:0 0.0.0.0:0 0.0.0.0:0 | Status Abhören Abhören Abhören Abhören Abhören Abhören Abhören Abhören Abhören Abhören | PID 508 4 2632 1876 4 2300 4 4 3540 772 |
| TCP TCP TCP TCP TCP TCP TCP | 0.0.0.0:49153 0.0.0.0:49154 0.0.0.0:49155 0.0.0.0:49157 0.0.0.0:49162 0.0.0.0:49162 0.0.0.0:49167 | 0.0.0.0:0 0.0.0.0:0 0.0.0.0:0 0.0.0:0 0.0.0:0 0.0.0:0 0.0.0:0 | ABHÖREN Abhören Abhören Abhören Abhören Abhören Abhören | 1100 1188 860 1876 1728 828 |

Here we can see that port 12000 is used by a process with PID 3540. To find out which process is PID3540 you can use: **TASKLIST** |**find ''3540''**

| Administrator: C:\Windows\system: | 32\cmd.exe | | |
|--|--|-------------------|--|
| 2732 UDP [fe80::2033:5787:: 2732 UDP [fe80::e4db:3520:: 1100 UDP [fe80::e4db:3520:: 2732 | *:* *:* *:* f5a4:339f%11]:1900 *:* f5a4:339f%11]:59280 *:* 24e6:fa05%10]:546 *:* 24e6:fa05%10]:1900 *:* 24e6:fa05%10]:59281 *:* | | 1352 2732 1352 2732 2732 2732 |
| C:\>TASKLIST find "3540" ForwardDaemon.exe | 3540 Services | Ø | 1.952 K |
| C:\>netstat -nao Aktive Verbindungen Proto Lokale Adresse ICP 0.0.0:135 | Remoteadresse 0.0.0:0 | Status ABHÖREN | PID 508 |

In the Tasklist Window you can also activate PIDs. Start the taskmanager: CTRL ALT DEL or type taskmgr in the run command. **Click View**->choose columns



Here you can now "kill" the process with PID which is using port 12000.

You can also have a look if maybe UDP port 69 is used by another process.

If downloads still don't work you should try to disable the firewall.