Installing FtpConsole on Siemens Comfort Panel

Introduction

The goal of this document is to explain, step by step, the actions to be taken in order to install the FTP-client software of Dataorg.it on a Siemens Comfort Panel. The used components are:

- Siemens Comfort Panel 12", TP1200, 6AV2 124-0JC01-0AX0
- Siemens TIA Portal V16
- SD-card in slot X50
- Laptop with FileZilla 1.2.0 server installed
- For the purpose of this example, the Siemens Comfort Panel has IP-address 192.168.100.230 and the Laptop with the FileZilla server has IP-address 192.168.100.89.
- FtpConsole.zip file containing FtpConsole.exe (Dataorg.it)
- NETCFv35.wce.x86.cab (.net framework) which can be provided by Dataorg.it. On the internet, it is hard to find.
- NETCFv35.Messages.EN.cab

In this example, the panel was used in portrait orientation. Landscape orientation is also possible. In order to operate the panel more easily, Siemens sm@rtserver and Webserver are installed and activated. Using sm@rtserver enables the possibility to use VNC-client on the laptop and to remotely operate the touch panel. The Webserver enables the uploading and downloading files to and from the panel.

Preperation

Open the Control Panel from *Start**Settings*\

Word		
Programs]	
👷 Favorites		
🕒 Documents 🕨		
🎐 Settings 🔷 🕨	😼 Control Panel	
🖅 Run	📚 Network and Dial-up Connections	
Start Start	🛃 Taskbar and Start Menu	🙀 🕹 💷 9:09 🔀 🥖

or from the Siemens Start Center by pressing *Settings* (in this case, the Start Center of Siemens TIA Portal V16).



Control Panel



Open System

System Properties	ок $ imes$
General Memory Device Name	
Microsoft® Windows® CE Version 6.00	Processor Type: AMD Inc., i486
© 2004 Microsoft Corp. All rights reserved. This computer program is protected by U.S. and international copyright laws.	Memory: 200600 KB RAM

Goto tab Memory

System Properties	ок $ imes$			
General Memory Device Name				
Move slider to the left for more memory to run programs. Move slider to the right for more storage room. Only unused RAM can be adjusted.				
Storage Memory	Program Memory			
Allocated 72320KB Allocated	128280KB			
In Use 7308KB In Use	43824KB			

Move the slider to the right in order to create enough memory space for installing .NET framework and the FtpConsole. At this stage, you can move the slider far to the right. After installing the software, you can move it back to the left, as far as possible.

Copy the files:

FtpConsole.exe

NETCFv35.wce.x86.cab

- NETCFv35.Messages.EN.cab

To the SD-card. Use the web-interface or an USB-stick in combination with the Windows Explorer for copying the files.

Installing

Go to the Windows Explorer on the Siemens Touch panel. Navigate to the SD Storage Card. Open the NETCFv35.wce.x86 cabinet file.

File Edit View Go Fa	vorites	🌢 🔶 🖄 🗙	😧 🖃 🔹 🗙
Address \Storage Card SD\NetCF			
Name	Size	Туре	Date Modified
TtpConsole	27,5KB	Application	12-1-2022 11:26
Microsoft .NET CF 3.5.LOG	1,58KB	TXT File	11-1-2022 17:13
Return NETCFv35.Messages.EN	401KB	CAB File	12-1-2022 10:32
RETCFv35.wce.x86	6,96MB	CAB File	11-1-2022 17:20

Install Microsoft .NET CF 3.5 😥 📴 📰	ок 🗙
🔄 \Windows	
C AppMgr	🗁 Help
C Desktop	🚞 Program
C Favorites	🗁 Recent
C Fonts	🗁 StartUp
Name: (Install Here) Type:	Þ

Do not change the location for installing the cabinet file, keep the default (\Windows) and press OK

Do the same with NETCFv35.Messages.EN cabinet file.

Copy the ftpConsole.exe into the root directory.

File Edit View Go Fa	vorites 📲	• • 🤌 🏂 🔀	Image:
Address My Computer			
Name	Size	Туре	Date Modified
🗁 Application Data		File Folder	17-1-2022 13:07
See flash		File Folder	1-1-1998 14:00
Documents		File Folder	17-1-2022 15:07
😴 Network		File Folder	1-1-1998 14:00
🗁 Program Files		File Folder	17-1-2022 15:07
Storage Card SD		File Folder	1-1-1998 14:00
C Temp		File Folder	17-1-2022 15:07
C Windows		File Folder	17-1-2022 15:07
🔊 Control Panel	23 bytes	Shortcut	17-1-2022 15:07
T ftpConsole	27,5KB	Application	12-1-2022 11:26
ftpconsole	13 bytes	LIC File	13-1-2022 15:20
Microsoft .NET CF 3.5.LOG	16KB	TXT File	12-1-2022 13:23
PHYSICALDRIVE0	0 bytes	File	12-1-2022 10:03

As last step of installing, reduce the memory size for additional programs by going to the Control Panel and by shifting the slider to the left. It is advisable to leave a little memory space and to not shift the slider to the left as far as possible.

System Properties	ок $ imes$		
General Memory Device Name			
Move slider to the left for more memory to run programs. Move slider to the right for more storage room. Only unused RAM can be adjusted.			
Storage Memory	Program Memory		
Allocated 72320KB Allocated	128280KB		
In Use 7308KB In Use	43824KB		

Operating the FtpConsole

Start the command prompt from the Start Menu



Type cmd



and press OK

```
File Edit Help
Pocket CMD v 6.00
\> ■
```

Start the ftpConsole by typing ftpConsole. If the ftpConsole is in a different folder, change to this folder by using the *CD* command.

```
\> dir
    Directory of \
01/01/98 14:00
                   <DIR>
                                              Network
01/01/98 14:00
                    <DIR>
                                              flash
01/01/98 14:00
18/01/22 09:15
                    <DIR>
                                              Storage Card SD
                                        31232 ftpConsole.exe
13/01/22 16:05
                                            6 test.txt
13/01/22 15:20
                                           13 ftpconsole.lic
17/01/22 13:07
                    <DIR>
                                             Application Data
12/01/22 10:03
                                            0 PHYSICALDRIVE0
12/01/22 13:23
                                        16469 Microsoft .NET CF 3
17/01/22 15:07
                                           23 Control Panel.lnk
17/01/22 15:07
17/01/22 15:07
                    <DIR>
                                              My Documents
                    <DIR>
                                              Program Files
17/01/22 15:07
                    <DIR>
                                              Temp
17/01/22 15:07
                    <DIR>
                                              Windows
    Found 14 file(s). Total size 47743 bytes.
    1 Dir(s) 66744320 bytes free
\> ftpconsole
Welcome! to FTPCONSOLE for WinCe SCRIPTING and console FTP clien
DataOrg srls - info@dataorg.it - https://www.dataorg.it
Usage with file script:
ftpconsole -s:script.txt
Usage with console:
Connect [hostserver:port]
script [localfilename]
After connect you need login with command (user and pass)
Example
Connect 192.168.1.100:21
user test
pass test
Enjoy !!! :-D
ftp>
```

Connect to the FTP server, in this case on IP-address 192.168.100.89, port 21:

```
ftp>connect 192.168.100.89:21
220-FileZilla Server 1.2.0
220 Please visit https://filezilla-project.org/
Server 192.168.100.89 connected
ftp>
```

Enter a user and a password using the user and pass commands:

```
ftp>user HMI
331 Please, specify the password.
ftp>pass HMI
230 Login successful.
ftp>
```

Use commands to transfer files.

Implementation in WinCC

Suggestions for implementing FtpConsole into a TIA Portal WinCC application.

FtpConsole can be operated using a script-file by using the -s command line option followed by the script-file-name. In WinCC, it is possible to start a program on an event.

Button_3 [Button]		
Properties Anir	ations Events Texts	
Click		
Press	 StartProgram 	
Release	Program name	FtpConsole
Activate	Program parameters	-s test.txt
Deactivate	Display mode	Normal
Change	Wait for program to end	Yes
	<add function=""></add>	

To make it even more flexible, the script file can be generated in VB Script as part of the WinCC application. The VB Script in its turn, can be activated by an event on the WinCC application (pressing a key, change off a tag or scheduled). The script can also activate the FtpConsole.