

YJKP – Logging Functionalities

How to use the different logging functionalities on the YJKP:

- USB
- SD card
- FTP Server on Windows 7
- FTP Server on Windows 10
- FTP Server using “FileZilla Server (Win7)”
- SMB-share

YJKP

Title YJKP - Logging functionalities
Version 1.30
Document no. 100175
Originalen
Author Festo

Last saved 28.02.2025

Copyright Notice

This documentation is the intellectual property of Festo SE & Co. KG, which also has the exclusive copyright. Any modification of the content, duplication or reprinting of this documentation as well as distribution to third parties can only be made with the express consent of Festo SE & Co. KG.

Festo SE & Co KG reserves the right to make modifications to this document in whole or in part. All brand and product names are trademarks or registered trademarks of their respective owners.

Legal Notice

Hardware, software, operating systems and drivers may only be used for the applications described and only in conjunction with components recommended by Festo SE & Co. KG.

Festo SE & Co. KG does not accept any liability for damages arising from the use of any incorrect or incomplete information contained in this documentation or any information missing therefrom.

Defects resulting from the improper handling of devices and modules are excluded from the warranty.

The data and information specified in this document should not be used for the implementation of safety functions relating to the protection of personnel and machinery.

No liability is accepted for claims for damages arising from a failure or functional defect. In other respects, the regulations with regard to liability from the terms and conditions of delivery, payment and use of software of Festo SE & Co. KG, which can be found at www.festo.com and can be supplied on request, shall apply.

All data contained in this document do not represent guaranteed specifications, particularly with regard to functionality, condition or quality, in the legal sense.

The information in this document serves only as basic information for the implementation of a specific, hypothetical application and is in no way intended as a substitute for the operating instructions of the respective manufacturers and the design and testing of the respective application by the user.

The operating instructions for Festo products can be found at www.festo.com.

Users of this document (application note) must verify that all functions described here also work correctly in the application. By reading this document and adhering to the specifications contained therein, users are also solely responsible for their own application.

Table of contents

1	Components/Software used	4
2	Application description	4
3	Flash drive USB	5
4	SD-card	7
5	FTP server on Windows 7	9
5.1	Configure a FTP site	9
5.2	Firewall settings	13
5.3	User access to the FTP folder	15
5.4	Configure user account to access the FTP server	16
5.5	YJKP WebVisu FTP-Server settings	18
6	FTP server on Windows 10	20
6.1	Configure a FTP site	20
6.2	Firewall settings	24
6.3	User access to the FTP folder	26
6.4	Configure user account to access the FTP server	27
6.5	YJKP WebVisu FTP-Server settings	29
7	FTP Server using “FileZilla Server (Win7)”	31
7.1	Firewall settings	33
7.2	User access to the FTP folder	35
7.3	YJKP WebVisu FTP-Server settings	36
8	SMB share on Windows 7	38
8.1	Configure a shared folder.....	38
8.2	YJKP WebVisu SMB-Share settings	44
9	Customized Serial Number in Log-File Name	45
9.1	Object Directory	45
9.2	Write Serial Number with Host Parameter Channel.....	45

1 Components/Software used

Type/Name	Version Software/Firmware
Servo press kit YJKP	General
Application software YJKP (GSAY-A4-F0-Z4-2.1.12)	V2.1.12
Firmware controller (CECC-X)	V3.8.14
Firmware motor controller (CMMT-AS)	V34.0.13.18
FileZilla Server	3.67.0

Table 1.1: 1 Components/Software used

2 Application description

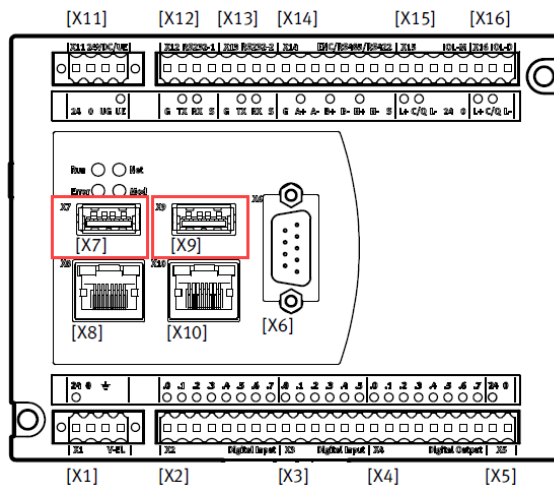
This application note shows different possibilities to save the logging files.

There are two different ways:

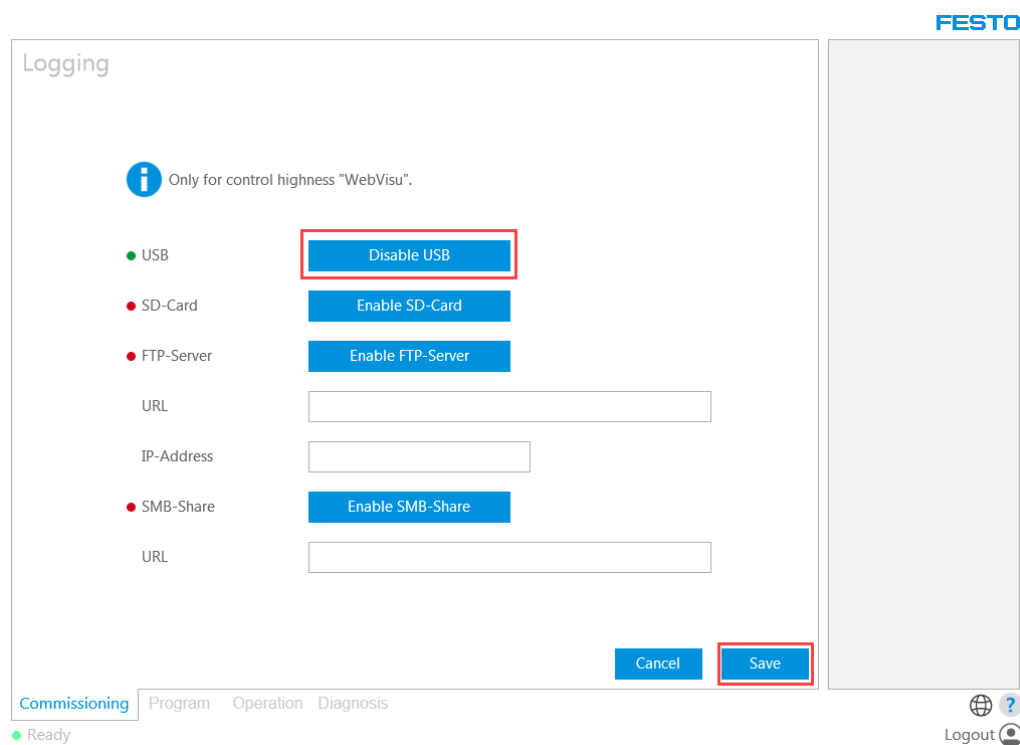
- Save the files locally on a flash drive (USB) or SD-card
- Save the files on a server via FTP or SMB

3 Flash drive USB

- Only flash drive are compatible with the YJKP, which fulfil the following requirements:
 - USB 3.0 or 2.0
 - Cable length $\leq 3\text{m}$
 - Current consumption $\leq 0.9\text{A}$
 - Capacity: $\leq 32\text{GB}$
 - File system: FAT32
- Insert the flash drive either in X7 or in X9:



- Open the **WebVisu** of the YJKP, go to the **Commissioning** tab and select the **logging configuration**.
- Enable** the logging on **USB**. USB should now have a **green** spot.
- Save** the settings



- If you're using any kind of host connectivity to operate the YJKP, you'll have to **activate** the USB logging **over your PLC**.

- Using Festo provided function blocks, you can find the needed input in FB_ControlChannel:

FB_ControlChannel	
xEnable :BOOL	BOOL xActive
xEnableSystem :BOOL	BOOL xSystemEnabled
xStartHoming :BOOL	BOOL xSystemIsHomed
uiSelectedProgramNumber :UINT	BOOL xProgramLoaded
xLoadProgram :BOOL	UINT uiLoadedProgramNumber
xStartRecordReferenceCurve :BOOL	BOOL xStepModeActive
xStartPressProcess :BOOL	BOOL xStepDone
xAbort :BOOL	BOOL xInOperation
xStepMode :BOOL	BOOL xSystemError
xQuitSystemError :BOOL	BOOL xResultOK
xDigitalInput9 :BOOL	BOOL xResultNOK
xDigitalInput10 :BOOL	REAL rMaximumPosition
xDigitalInput11 :BOOL	REAL rMaximumForce
xDigitalInput12 :BOOL	WORD wNOK_Reason
xDigitalInput13 :BOOL	BOOL xDigitalOutput5
xDigitalInput14 :BOOL	BOOL xDigitalOutput6
xDigitalInput15 :BOOL	BOOL xDigitalOutput7
xDigitalInput16 :BOOL	BOOL xDigitalOutput8
xForceControlContinue :BOOL	BOOL xDigitalOutput9
xTare :BOOL	BOOL xDigitalOutput10
rTargetOffsetForceSensor :REAL	BOOL xDigitalOutput11
enTargetPosMode :EN_PosMode	BOOL xDigitalOutput12
rTargetMotionVelocity :REAL	REAL rActualPosition
rTargetMotionPositionDistance :REAL	REAL rActualForce
xMove :BOOL	REAL rActualVelocity
xStopMove :BOOL	BOOL xTared
xOpenBrake :BOOL	REAL rActualOffsetForceSensor
xJogPos :BOOL	EN_PosMode enActualPosMode
xJogNeg :BOOL	REAL rActualMotionVelocity
xLoadHW_Config :BOOL	REAL rActualMotionPositionDistance
xLogUSB :BOOL	BOOL xStatusHW_Config
xLogSD_Card :BOOL	BOOL xLogUSB_Active
xLogFTP_Server :BOOL	BOOL xLogSD_CardActive
xSystemReset :BOOL	BOOL xLogFTP_ServerActive
xResetStatistic :BOOL	BOOL xManualModeActive
pbyStartAddress_In :POINTER TO BYTE	BOOL xAutomaticModeActive
pbyStartAddress_Out :POINTER TO BYTE	BOOL xSystemReady
	BOOL xSystemPressReady
	BOOL xBrakeOpened
	BOOL xSystemWarning
	BOOL xForceReached
	BOOL xError
	WORD wErrorID

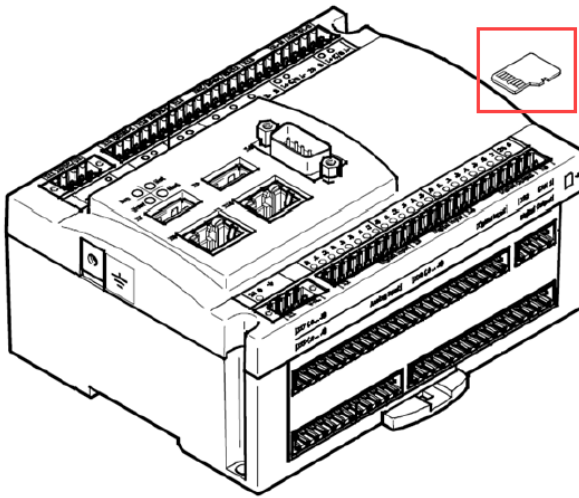
- Using just the interface of the YJKP, you can find the needed input in the control word on bit 15:

dwControlWord	DWORD	Control word
		Bit 0 = Manual mode
		Bit 1 = Automatic mode
		Bit 2 = Start homing
		Bit 3 = Start press process
		Bit 4 = Abort press process (low active)
		Bit 5 = Load program
		Bit 6 = Quit error
		Bit 7 = Enable press
		Bit 8 = Tare
		Bit 9 = Move
		Bit 10 = Stop move
		Bit 11 = Jog pos
		Bit 12 = Jog neg
		Bit 13 = Load hardware configuration
		Bit 14 = Logging USB
		Bit 15 = Logging SD-Card
		Bit 16 = System reset
		Bit 17 = Reset statistic
		Bit 18 = Step mode
		Bit 19 = Logging FTP-Server
		Bit 20-31 = Reserved

- After each press the logging files are saved on the flash drive.
You can check them on any device by plugging in the flash drive to it.

4 SD-card

1. Logging data can be saved to the inserted SD-card. Since this SD-card is essential to operate the YJKP, this option is already on-board.



2. The following requirements need to be fulfilled to use a SD-card:
 - Supported types: microSD, microSDHC, microSDXC
 - Capacity: ≤ 32GB
 - File system: FAT32
3. Open the **WebVisu** of the YJKP, go to the **Commissioning** tab and select the **logging configuration**.
4. **Enable** the logging on **SD-Card**. USB should now have a **green** spot.
5. **Save** the settings

•

FESTO

Logging

i Only for control highness "WebVisu".

● USB		Enable USB
● SD-Card		Disable SD-Card
● FTP-Server		Enable FTP-Server
URL	<input style="width: 250px;" type="text"/>	
IP-Address	<input style="width: 120px;" type="text"/>	
● SMB-Share		Enable SMB-Share
URL	<input style="width: 250px;" type="text"/>	

Cancel
Save

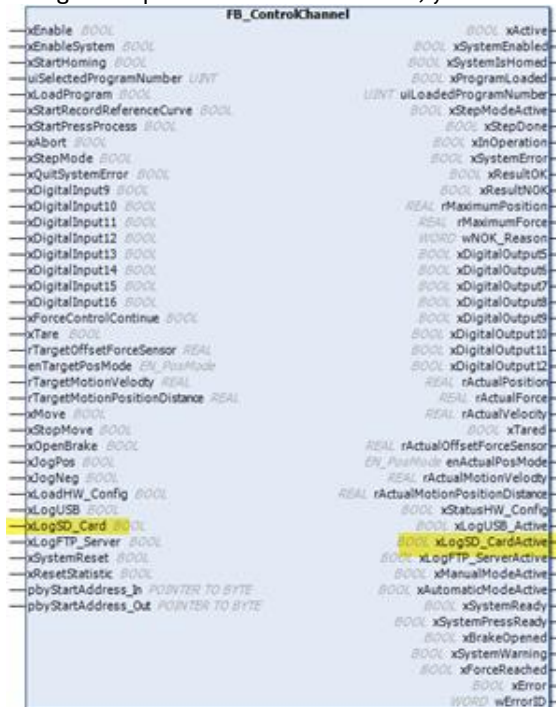
Commissioning
Program Operation Diagnosis

? Logout

● Ready

6. If you're using any kind of host connectivity to operate the YJKP, you'll have to **activate** the SD-Card logging **over your PLC**.

- Using Festo provided function blocks, you can find the needed input in FB_ControlChannel:



- Using just the interface of the YJKP, you can find the needed input in the control word on bit 15:

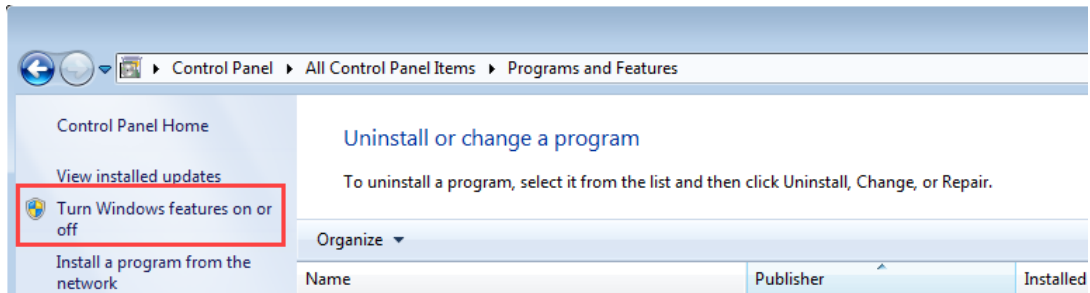
<div data-bbox="354 1294 507 1330" data-label="Text">dwControlWord</div>	<div data-bbox="598 1294 671 1330" data-label="Text">DWORD</div>	<div data-bbox="805 1055 1291 1563" data-label="Text"> <p>Control word</p> <ul style="list-style-type: none"> Bit 0 = Manual mode Bit 1 = Automatic mode Bit 2 = Start homing Bit 3 = Start press process Bit 4 = Abort press process (low active) Bit 5 = Load program Bit 6 = Quit error Bit 7 = Enable press Bit 8 = Tare Bit 9 = Move Bit 10 = Stop move Bit 11 = Jog pos Bit 12 = Jog neg Bit 13 = Load hardware configuration Bit 14 = Logging USB <div data-bbox="805 1420 1038 1456" data-label="Text">Bit 15 = Logging SD-Card</div> Bit 16 = System reset Bit 17 = Reset statistic Bit 18 = Step mode Bit 19 = Logging FTP-Server Bit 20-31 = Reserved </div>
--	--	--

7. After each press the logging files are saved on the flash drive.

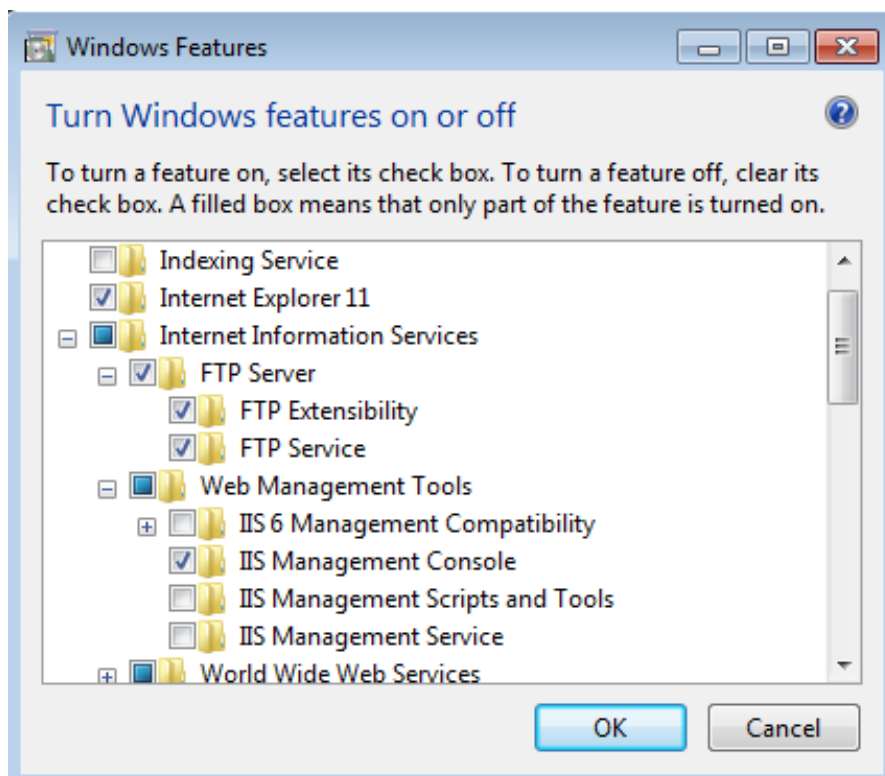
5 FTP server on Windows 7

5.1 Configure a FTP site

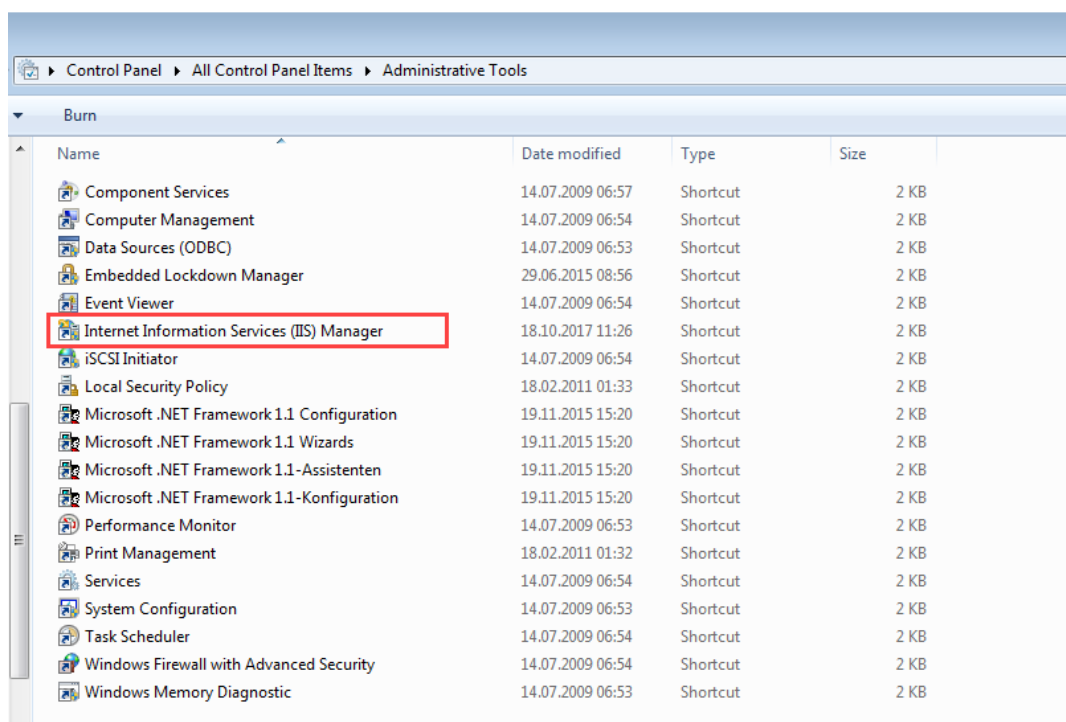
1. Go to **START -> Control panel** and select **Programs and Features**
2. Click the **Turn Windows features on or off** link.



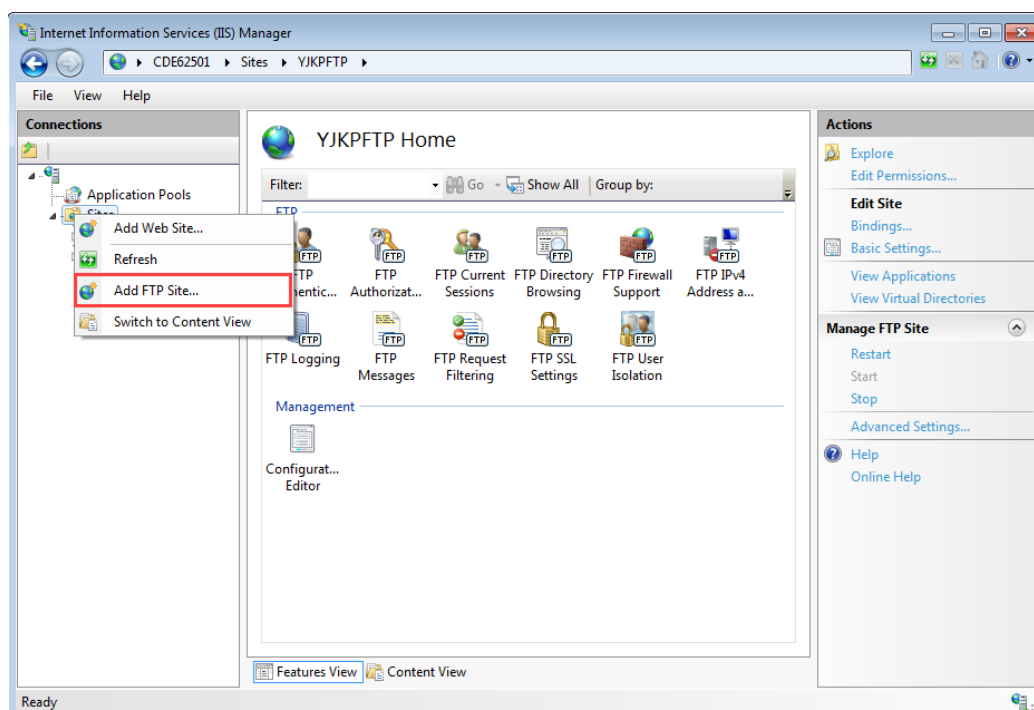
3. Expand Internet Information Services.
4. Expand **FTP Server** and check the **FTP Extensibility** and **FTP Service** options.
5. Expand **Web Management Tools** and check **IIS Management Console**.
6. Click **OK** to start the installation.



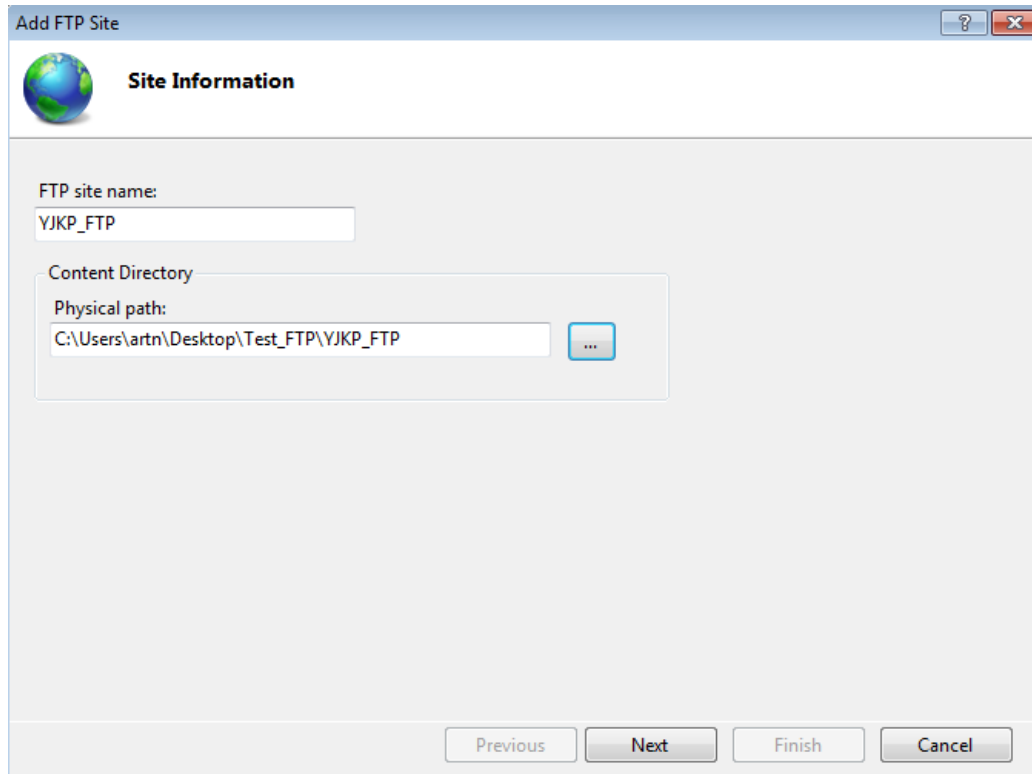
7. Go to **START -> Control panel** and select **Administrative Tools**.
8. Double-click **Internet Information Services (IIS) Manager**.



9. Expand and right-click **Sites** on the Connections panel.
10. Select **Add FTP Site...**

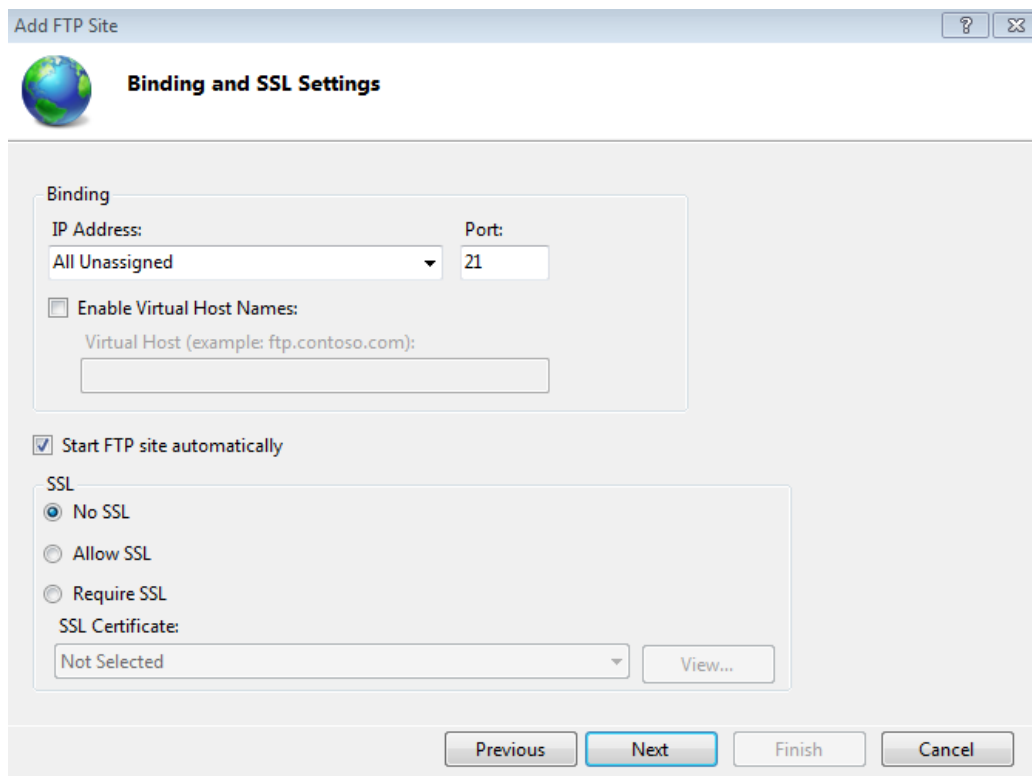


11. Name your new FTP site and enter the path to the FTP folder you want to use to send and receive files.
Note: You can also use the **Make New Folder** button to create a specific folder to store your FTP files
12. Click **Next**.



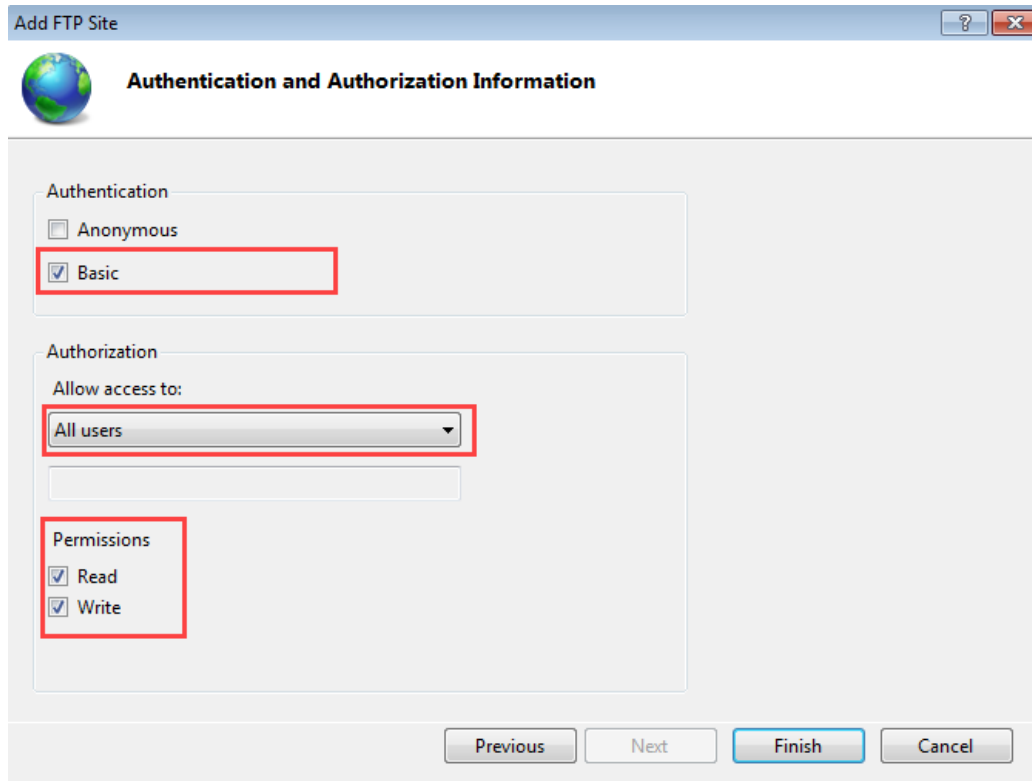
The screenshot shows the 'Add FTP Site' dialog box with the 'Site Information' tab selected. The 'FTP site name' field contains 'YJKP_FTP'. The 'Content Directory' section shows the 'Physical path' as 'C:\Users\artn\Desktop\Test_FTP\YJKP_FTP'. At the bottom, there are four buttons: 'Previous', 'Next' (highlighted), 'Finish', and 'Cancel'.

13. On Binding and SSL Settings leave all the default settings, but change the SSL option to **No SSL**.
Note: It's worth pointing out that in a business environment or on an FTP server that will host sensitive data, it's best practice to configure the site to require SSL.
14. Click **Next**.



The screenshot shows the 'Add FTP Site' dialog box with the 'Binding and SSL Settings' tab selected. In the 'Binding' section, 'IP Address' is set to 'All Unassigned' and 'Port' is '21'. The 'Enable Virtual Host Names' checkbox is unchecked. In the 'SSL' section, 'No SSL' is selected. The 'Start FTP site automatically' checkbox is checked. At the bottom, there are four buttons: 'Previous', 'Next' (highlighted), 'Finish', and 'Cancel'.

15. On Authentication, check the **Basic** option.
16. On Authorization, select **ALL users** from the drop-down menu or any other selection.
Note: If „All users“ are selected, every user with an account on this PC can read and write via FTP.
This setting can be changed later on.
17. Check the options **Read** and **Write**.
18. Click **Finish**.



The screenshot shows the 'Add FTP Site' dialog box with the 'Authentication and Authorization Information' tab selected. The 'Authentication' section has the 'Basic' option checked. The 'Authorization' section has the 'Allow access to:' dropdown set to 'All users'. The 'Permissions' section has both 'Read' and 'Write' options checked. The 'Finish' button is highlighted in blue.

Add FTP Site

Authentication and Authorization Information

Authentication

☐ Anonymous

☒ Basic

Authorization

Allow access to:

All users

Permissions

☒ Read

☒ Write

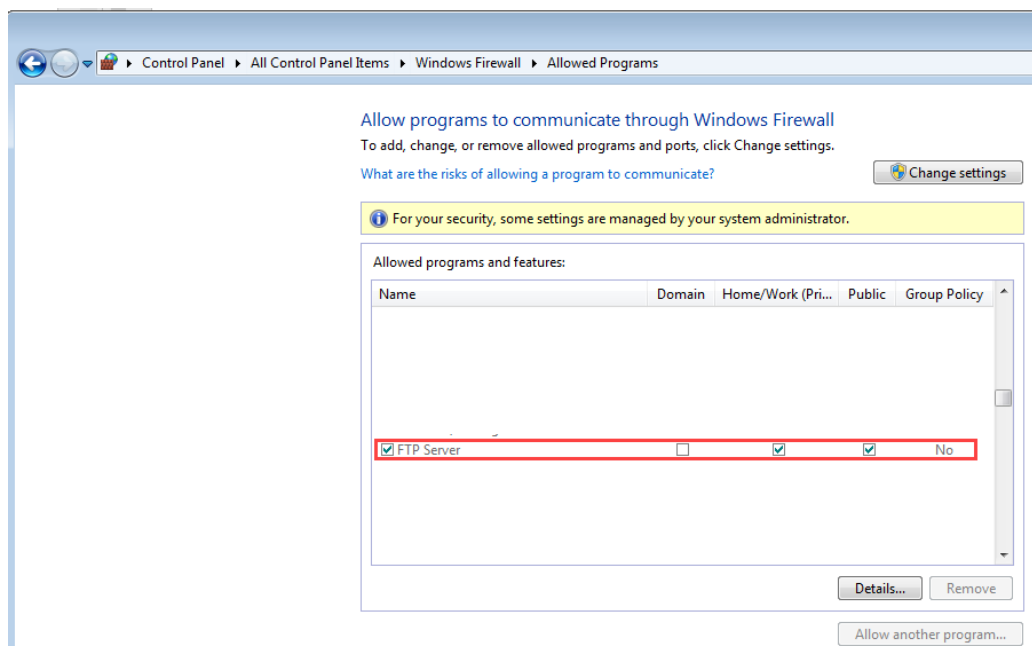
Previous Next Finish Cancel

5.2 Firewall settings

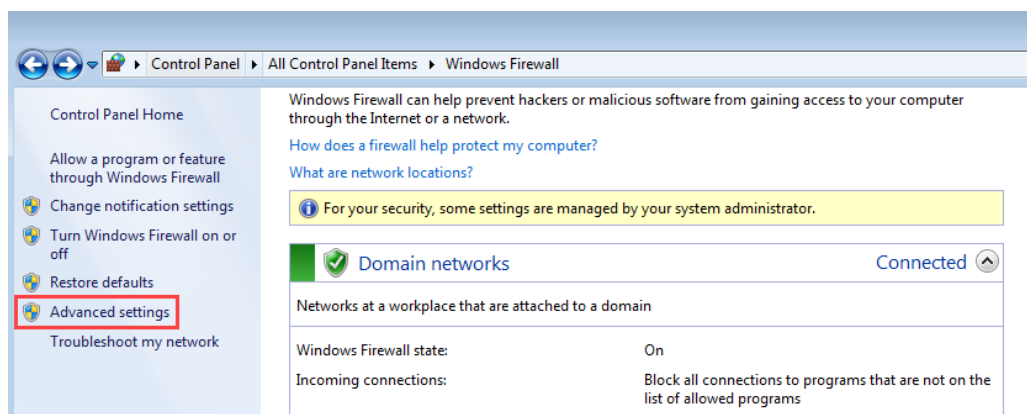
1. Go to **START -> Control panel** and select **Windows Firewall**.
2. Click the **Allow an app or feature through Windows Firewall** link.



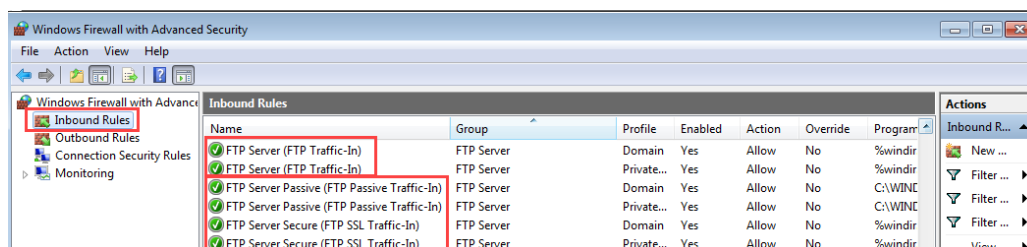
3. Click the **Changes settings** button.
4. Select **FTP Server** and make sure to allow it on a **Private** and **Public** network.
5. Click **OK**.



6. Go back to the **Windows Firewall**.
7. Select the **Advanced settings**.

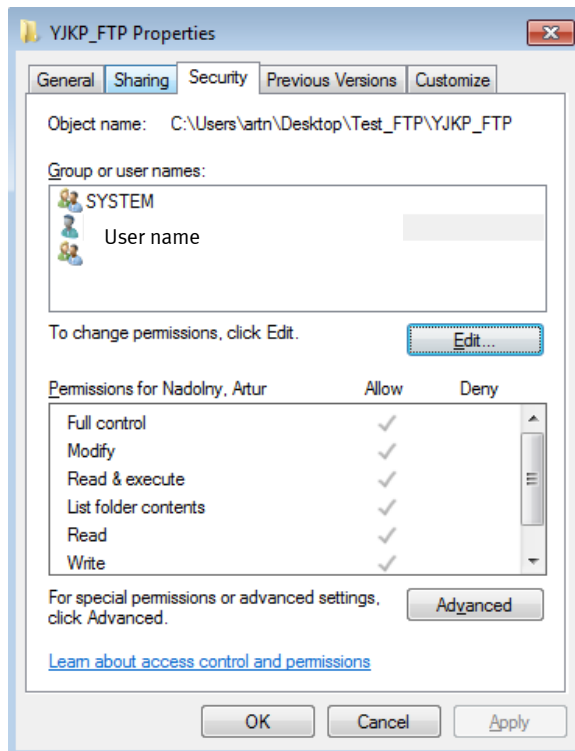


8. Check the **Inbound Rules** for the FTP Server.
9. If necessary **guarantee access** for this program.



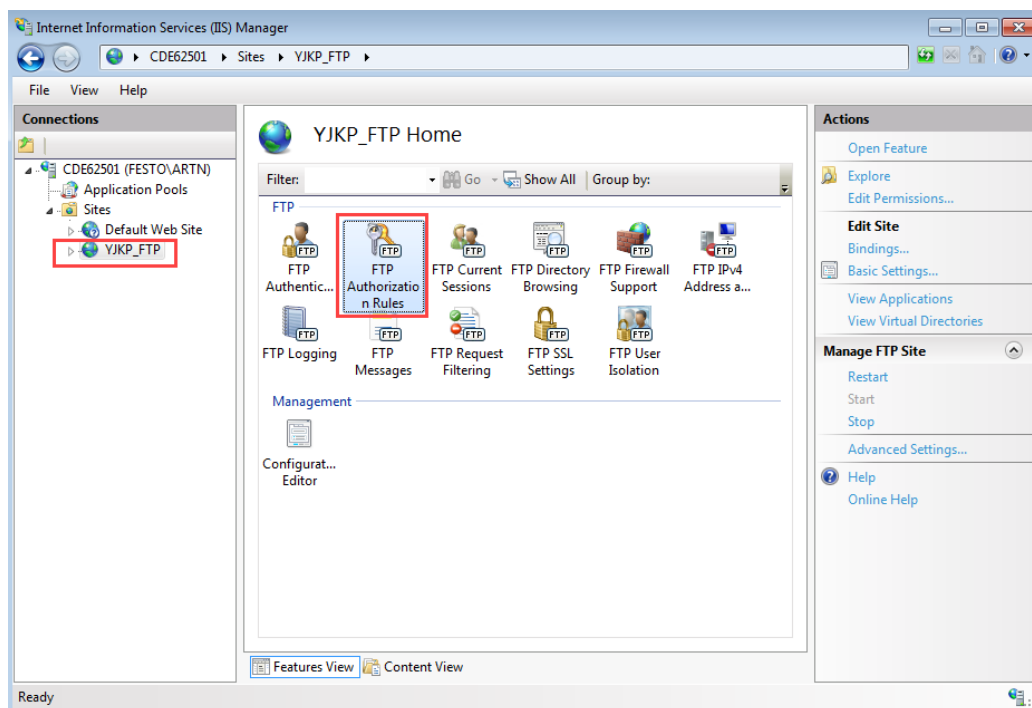
5.3 User access to the FTP folder

1. Right-click the FTP folder of your choice and select **Properties**.
2. Click to the **Security** tab.
3. Check, if your desired user is available and has all needed permissions. Otherwise you can add a new user over **Edit**.

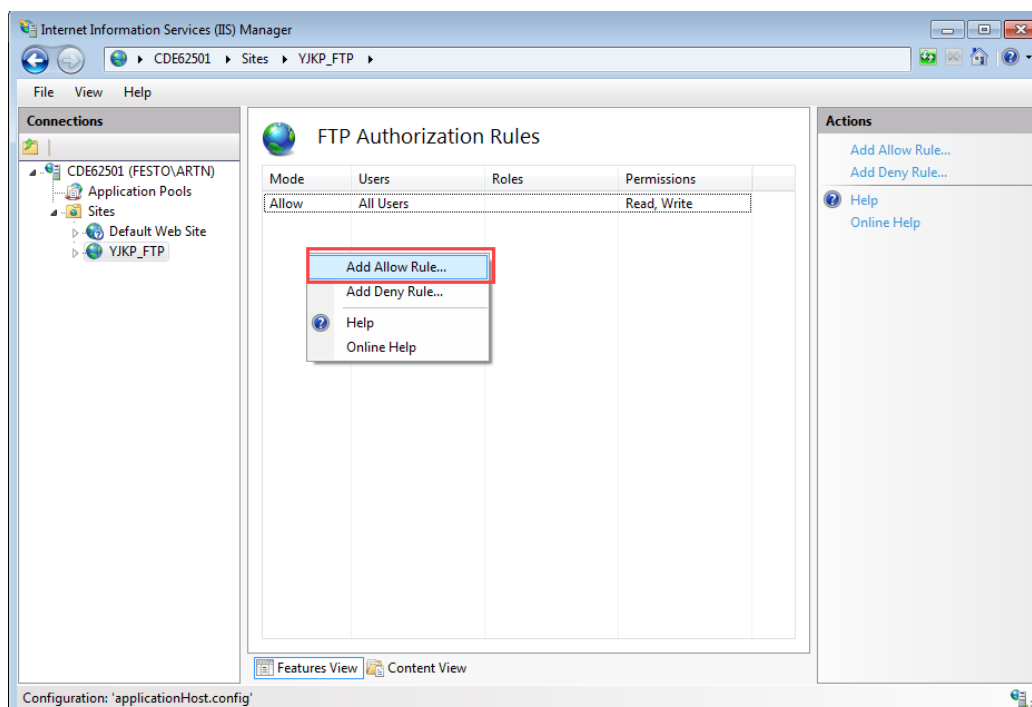


5.4 Configure user account to access the FTP server

1. Go to **START -> Control panel** and select **Administrative Tools**.
2. Double-click **Internet Information Services (IIS) Manager**.
3. Expand **Sites**.
4. Select your FTP site and double-click on **FTP Authorization Rules**.



5. At the moment all Users have access to this FTP site. You can change this by adding a new allow rule.
6. Right-click on and select **Add Allow Rules** from the context menu.



7. Select **Specified user** and enter the name of the user account.
8. Set the **Read** and **Write** permissions you want the user to have.
9. Click **OK**.
10. Reboot your system.

Add Allow Authorization Rule

Allow access to this content to:

☐ All Users

☐ All Anonymous Users

☐ Specified roles or user groups:

Example: Admins, Guests

☒ Specified users:

User name

Example: User1, User2

Permissions

☒ Read

☒ Write

OK Cancel

5.5 YJKP WebVisu FTP-Server settings

1. Open the **WebVisu** of the YJKP, go to the **Commissioning** tab and select the **logging configuration**.
2. **Enable** the logging on the **FTP-Server**. FTP-Server should now have a **green** spot.
3. URL: ftp://User name:password@IP of server
IP-Address: IP of server

Example:

URL: ftp://artn:NicePassword123@192.168.0.99

IP-Address: 192.168.0.99

4. **Save** the settings

Logging

i Only for control highness "WebVisu".

- USB Enable USB
- SD-Card Enable SD-Card
- FTP-Server Disable FTP-Server
- URL
- IP-Address
- SMB-Share Enable SMB-Share
- URL

Cancel Save

Commissioning Program Operation Diagnosis

Ready

FESTO

Logout

5. If you're using any kind of host connectivity to operate the YJKP, you'll have to **activate** the FTP logging **over your PLC**.

1. Using Festo provided function blocks, you can find the needed input in FB_ControlChannel:

FB_ControlChannel	
xEnable BOOL	BOOL xActive
xEnableSystem BOOL	BOOL xSystemEnabled
xStartHoming BOOL	BOOL xSystemIsHomed
uiSelectedProgramNumber UINT	BOOL xProgramLoaded
xLoadProgram BOOL	UINT uiLoadedProgramNumber
xStartRecordReferenceCurve BOOL	BOOL xStepModeActive
xStartPressProcess BOOL	BOOL xStepDone
xAbort BOOL	BOOL xInOperation
xStepMode BOOL	BOOL xSystemError
xQuitSystemError BOOL	BOOL xResultOK
xDigitalInput9 BOOL	BOOL xResultNOK
xDigitalInput10 BOOL	REAL rMaximumPosition
xDigitalInput11 BOOL	REAL rMaximumForce
xDigitalInput12 BOOL	WORD wNOK_Reason
xDigitalInput13 BOOL	BOOL xDigitalOutput5
xDigitalInput14 BOOL	BOOL xDigitalOutput6
xDigitalInput15 BOOL	BOOL xDigitalOutput7
xDigitalInput16 BOOL	BOOL xDigitalOutput8
xForceControlContinue BOOL	BOOL xDigitalOutput9
xTare BOOL	BOOL xDigitalOutput10
rTargetOffsetForceSensor REAL	BOOL xDigitalOutput11
enTargetPosMode EN_PosMode	BOOL xDigitalOutput12
rTargetMotionVelocity REAL	REAL rActualPosition
rTargetMotionPositionDistance REAL	REAL rActualForce
xMove BOOL	REAL rActualVelocity
xStopMove BOOL	BOOL xTared
xOpenBrake BOOL	REAL rActualOffsetForceSensor
xJogPos BOOL	EN_PosMode enActualPosMode
xJogNeg BOOL	REAL rActualMotionVelocity
xLoadHW_Config BOOL	REAL rActualMotionPositionDistance
xLogUSB BOOL	BOOL xStatusHW_Config
xLogSD_Card BOOL	BOOL xLogUSB_Active
xLogFTP_Server BOOL	BOOL xLogSD_CardActive
xSystemReset BOOL	BOOL xLogFTP_ServerActive
xResetStatistic BOOL	BOOL xManualModeActive
pbyStartAddress_In POINTER TO BYTE	BOOL xAutomaticModeActive
pbyStartAddress_Out POINTER TO BYTE	BOOL xSystemReady
	BOOL xSystemPressReady
	BOOL xBrakeOpened
	BOOL xSystemWarning
	BOOL xForceReached
	BOOL xError
	WORD wErrorID

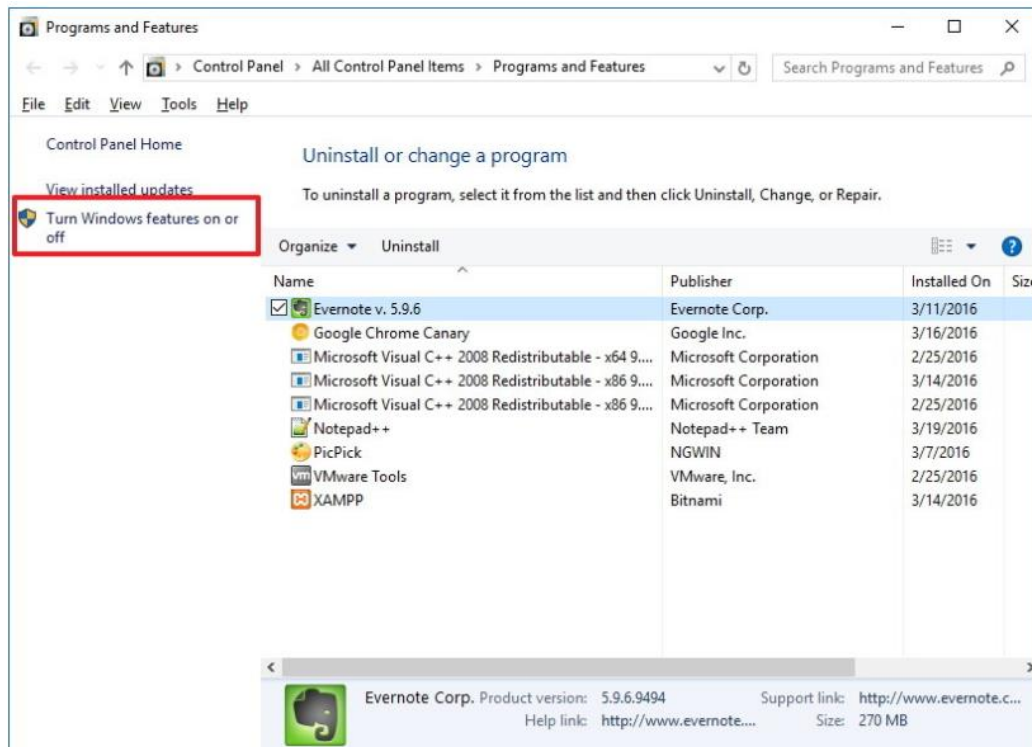
2. Using just the interface of the YJKP, you can find the needed input in the control word on bit 15:

dwControlWord	DWORD	Control word
		Bit 0 = Manual mode Bit 1 = Automatic mode Bit 2 = Start homing Bit 3 = Start press process Bit 4 = Abort press process (low active) Bit 5 = Load program Bit 6 = Quit error Bit 7 = Enable press Bit 8 = Tare Bit 9 = Move Bit 10 = Stop move Bit 11 = Jog pos Bit 12 = Jog neg Bit 13 = Load hardware configuration Bit 14 = Logging USB Bit 15 = Logging SD-Card Bit 16 = System reset Bit 17 = Reset statistic Bit 18 = Stop mode Bit 19 = Logging FTP-Server Bit 20-31 = Reserved

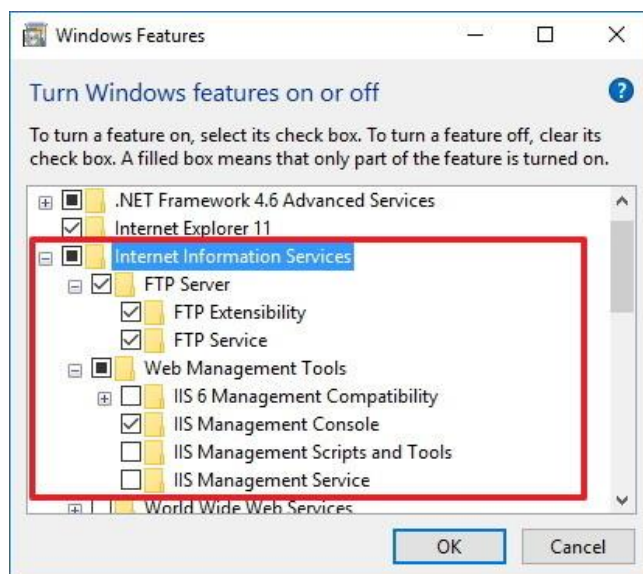
6 FTP server on Windows 10

6.1 Configure a FTP site

1. Use the **Windows key + X** keyboard shortcut to open the Power User menu and select **Programs and Features**.
2. Click the **Turn Windows features on or off** link.

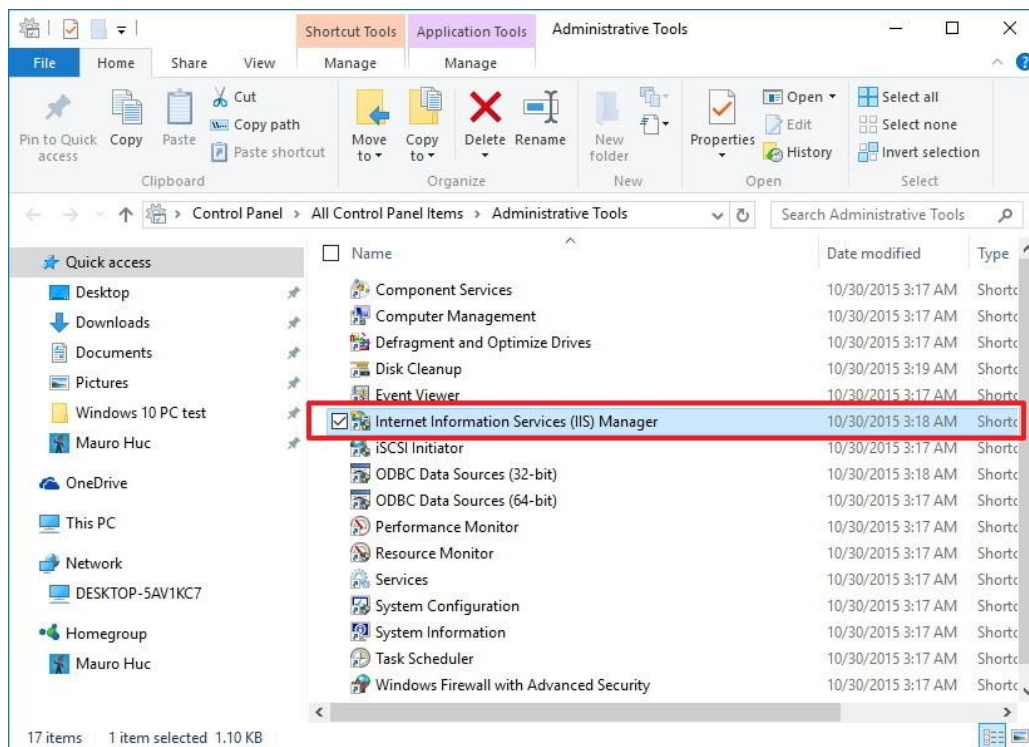


3. Expand Internet Information Services.
4. Expand **FTP Server** and check the **FTP Extensibility** and **FTP Service** options.
5. Expand **Web Management Tools** and check **IIS Management Console**.
6. Click **OK** to start the installation.



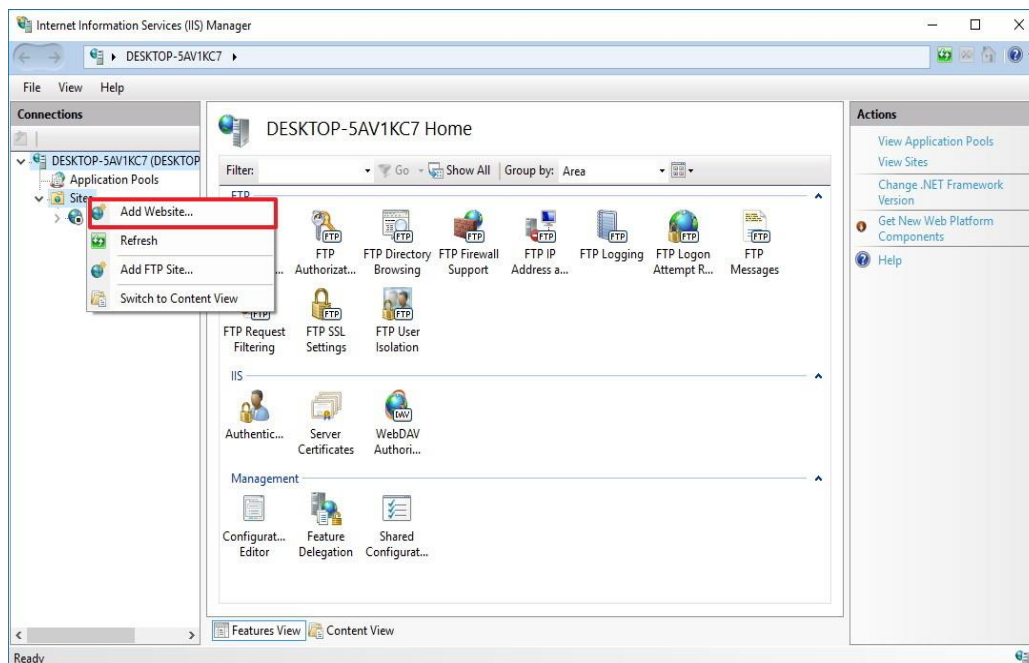
7. Use the **Windows key + X** keyboard shortcut to open the Power User menu and select **Control Panel**.

8. Open **Administrative Tools**.
Double-click **Internet Information Services (IIS) Manager**.

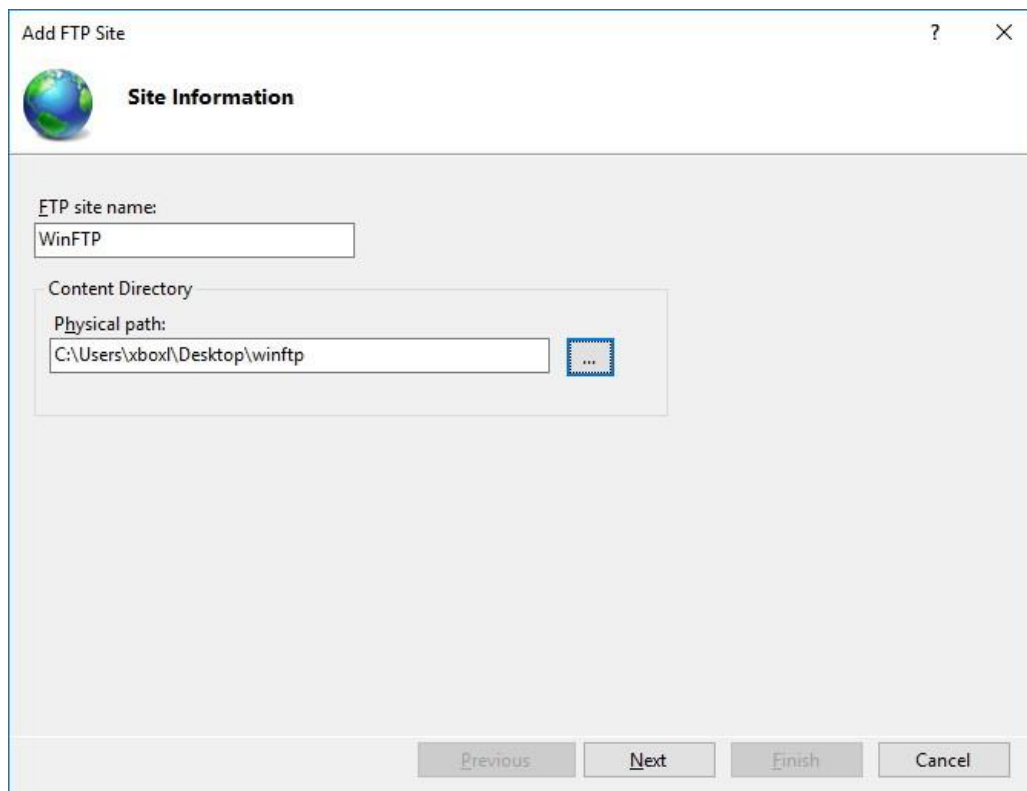


9. Expand and right-click **Sites** on the Connections panel.

10. Select **Add FTP Site...**

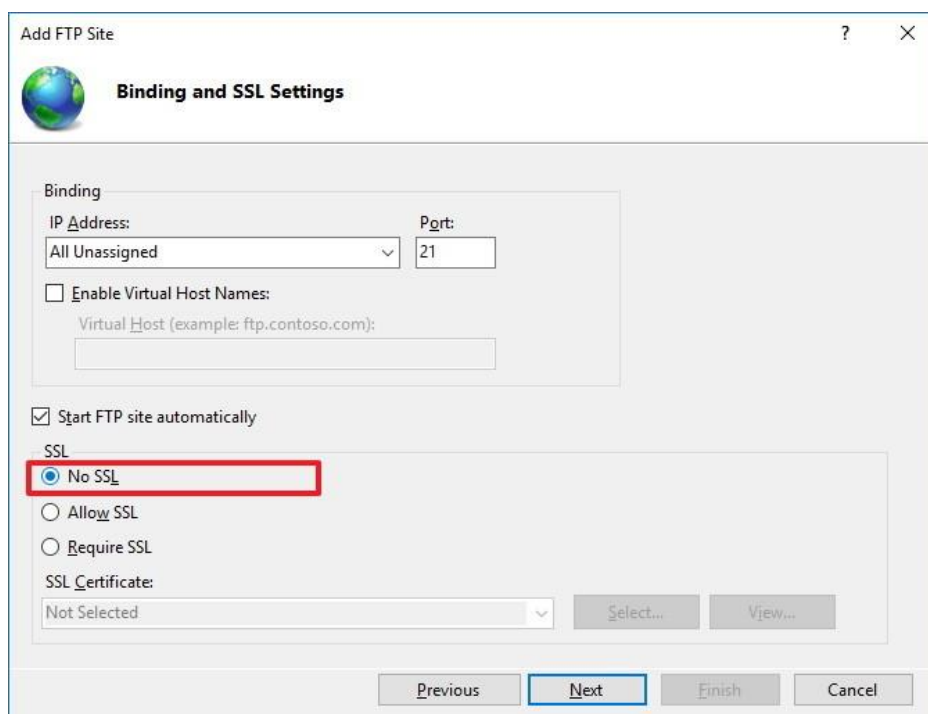


11. Name your new FTP site and enter the path to the FTP folder you want to use to send and receive files.
Note: You can also use the **Make New Folder** button to create a specific folder to store your FTP files
12. Click **Next**.



The screenshot shows the 'Add FTP Site' dialog box with the 'Site Information' tab selected. The 'FTP site name' field contains 'WinFTP'. The 'Content Directory' section shows the 'Physical path' as 'C:\Users\xbox\Desktop\winftp'. At the bottom, there are four buttons: 'Previous', 'Next', 'Finish', and 'Cancel'.

13. On Binding and SSL Settings leave all the default settings, but change the SSL option to **No SSL**.
Note: It's worth pointing out that in a business environment or on an FTP server that will host sensitive data, it's best practice to configure the site to require SSL.
14. Click **Next**.



The screenshot shows the 'Add FTP Site' dialog box with the 'Binding and SSL Settings' tab selected. Under 'Binding', the 'IP Address' is set to 'All Unassigned' and the 'Port' is '21'. The 'Enable Virtual Host Names' checkbox is unchecked. The 'Start FTP site automatically' checkbox is checked. Under 'SSL', the 'No SSL' radio button is selected and highlighted with a red rectangle. Below the SSL options, the 'SSL Certificate' is set to 'Not Selected'. At the bottom, there are four buttons: 'Previous', 'Next', 'Finish', and 'Cancel'.

15. On Authentication, check the **Basic** option.
16. On Authorization, select **ALL users** from the drop-down menu or any other selection.
Note: If „All users“ are selected, every user with an account on this PC can read and write via FTP.
This setting can be changed later on.
17. Check the options **Read** and **Write**.
18. Click **Finish**.

The screenshot shows the 'Add FTP Site' dialog box with the 'Authentication and Authorization Information' tab selected. The 'Authentication' section has the 'Basic' option checked. The 'Authorization' section has 'Specified users' selected in the 'Allow access to:' dropdown, and the 'Read' and 'Write' permissions are checked. The 'Finish' button is highlighted.

Add FTP Site

Authentication and Authorization Information

Authentication

☐ Anonymous

☒ Basic

Authorization

Allow access to:

Specified users

Permissions

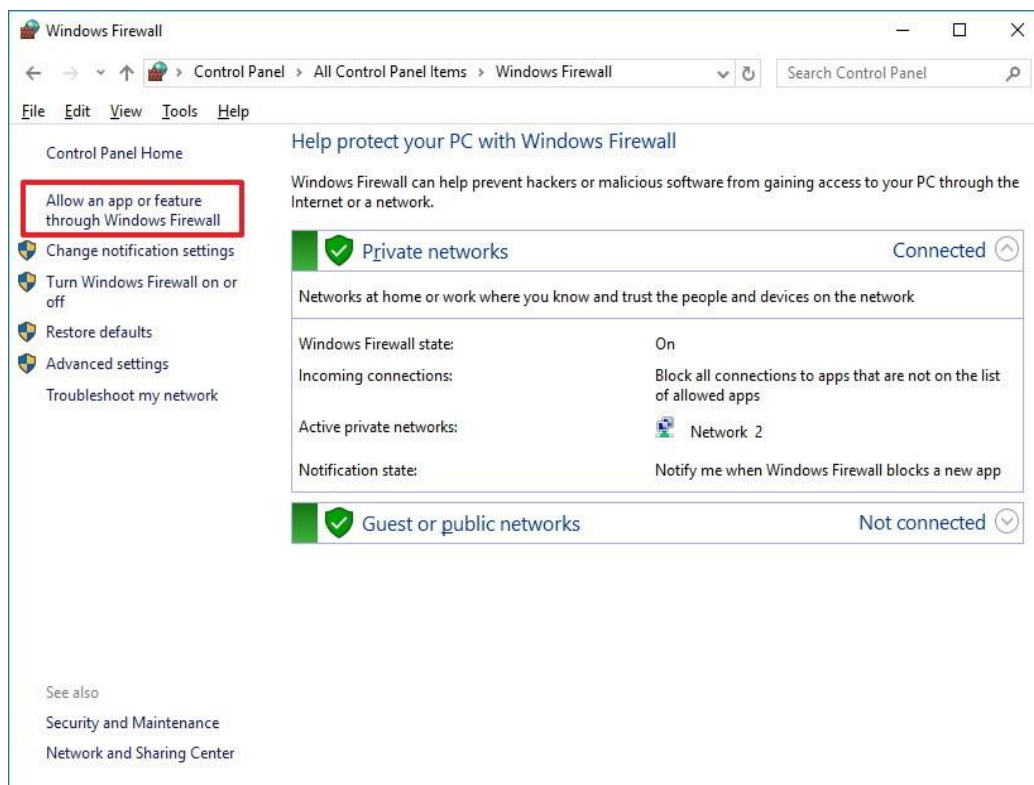
☒ Read

☒ Write

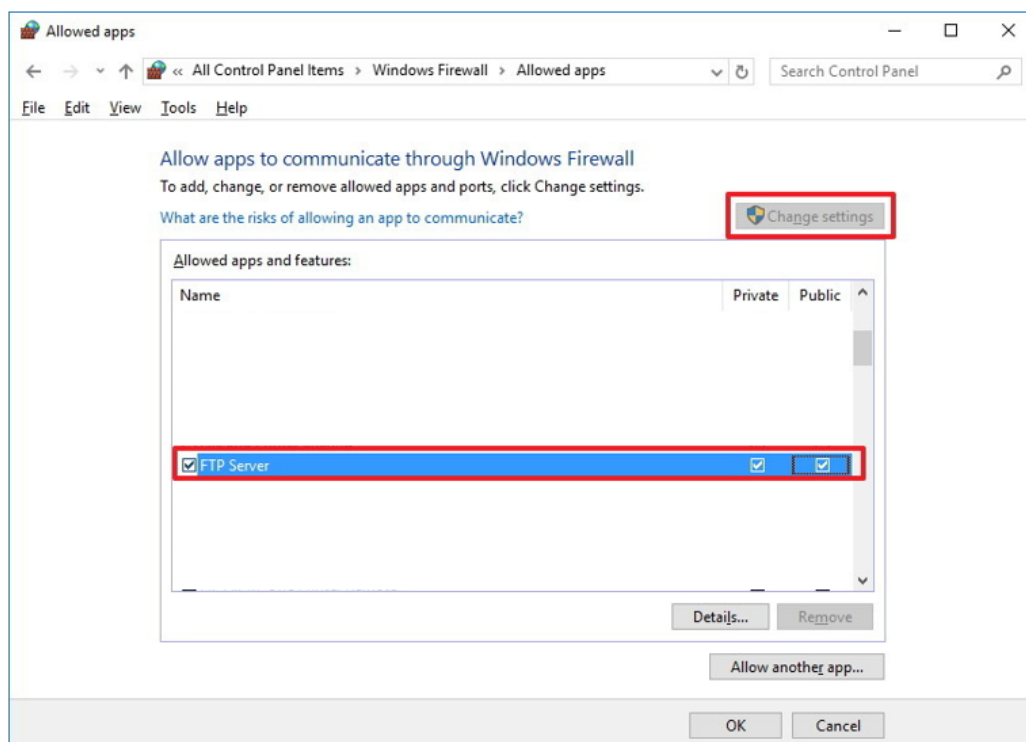
Previous Next Finish Cancel

6.2 Firewall settings

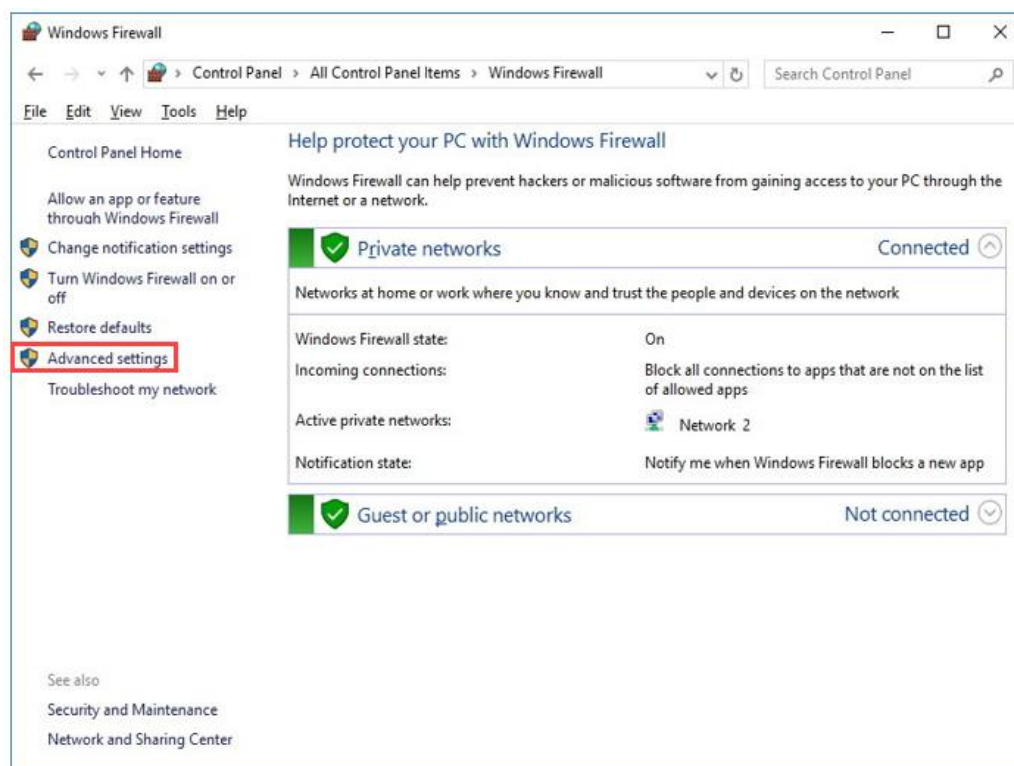
1. Go to **START -> Control panel** and select **Windows Firewall**.
2. Click the **Allow an app or feature through Windows Firewall** link.



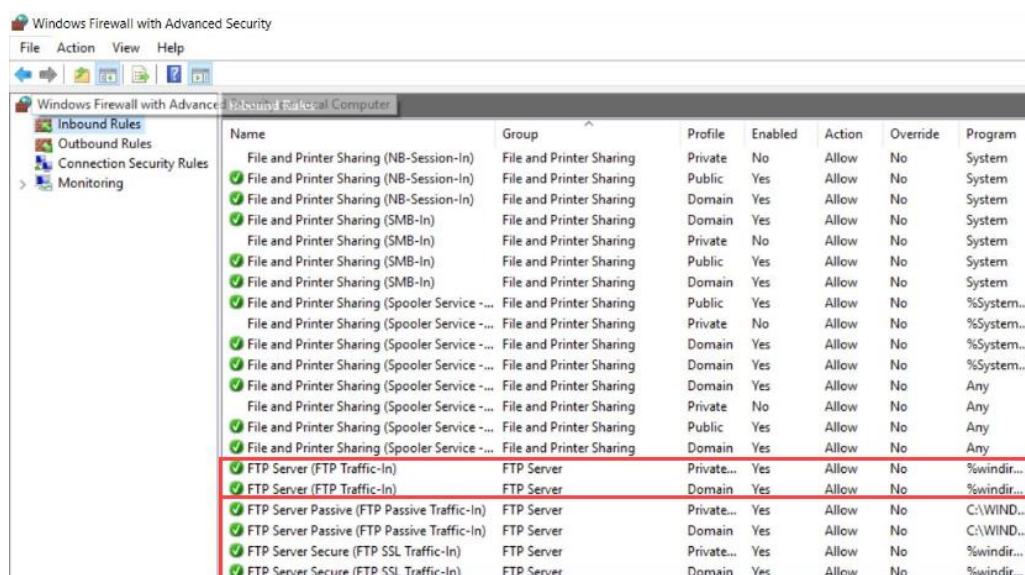
3. Click the **Changes settings** button.
4. Select **FTP Server** and make sure to allow it on a **Private** and **Public** network.
5. Click **OK**.



6. Go back to the **Windows Firewall**.
7. Select the **Advanced settings**.

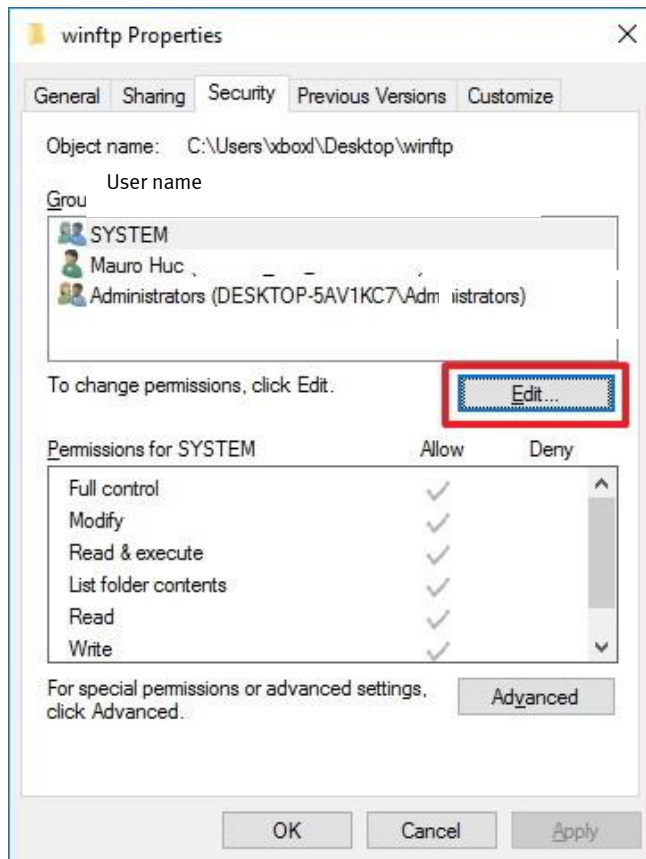


8. Check the **Inbound Rules** for the FileZilla Server.
9. If necessary **guarantee access** for this program (especially first two).



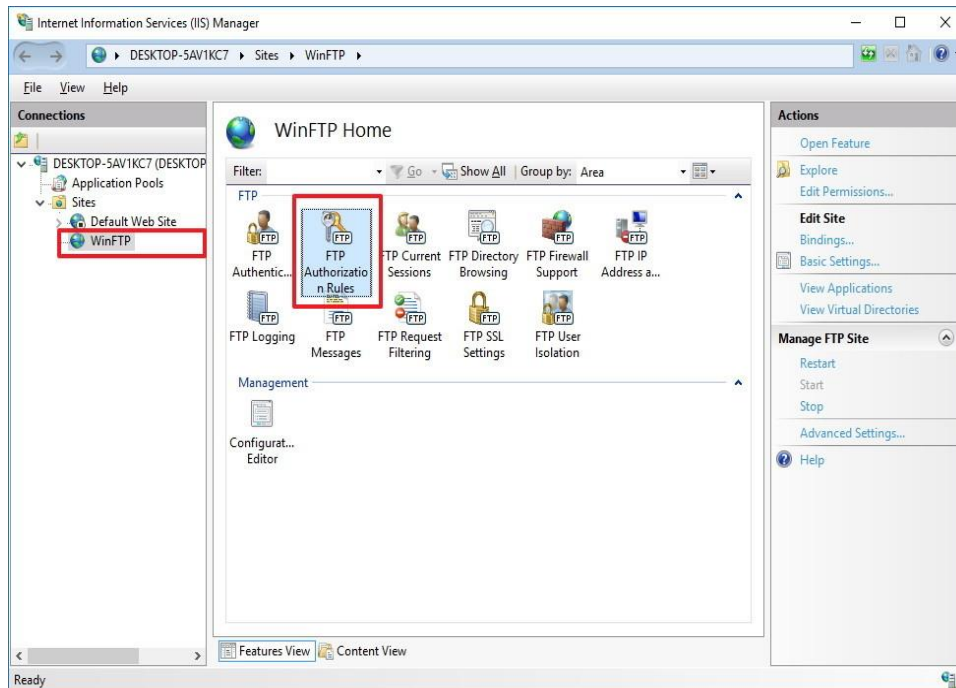
6.3 User access to the FTP folder

1. Right-click the FTP folder of your choice and select **Properties**.
2. Click to the **Security** tab.
3. Check, if your desired user is available and has all needed permissions. Otherwise you can add a new user over **Edit**.

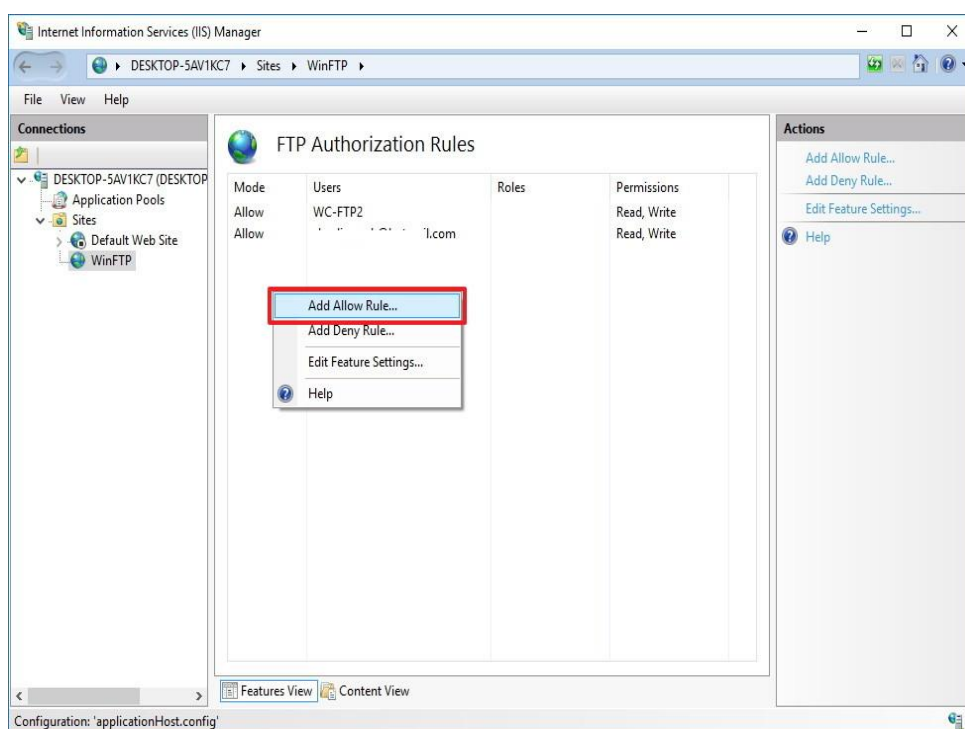


6.4 Configure user account to access the FTP server

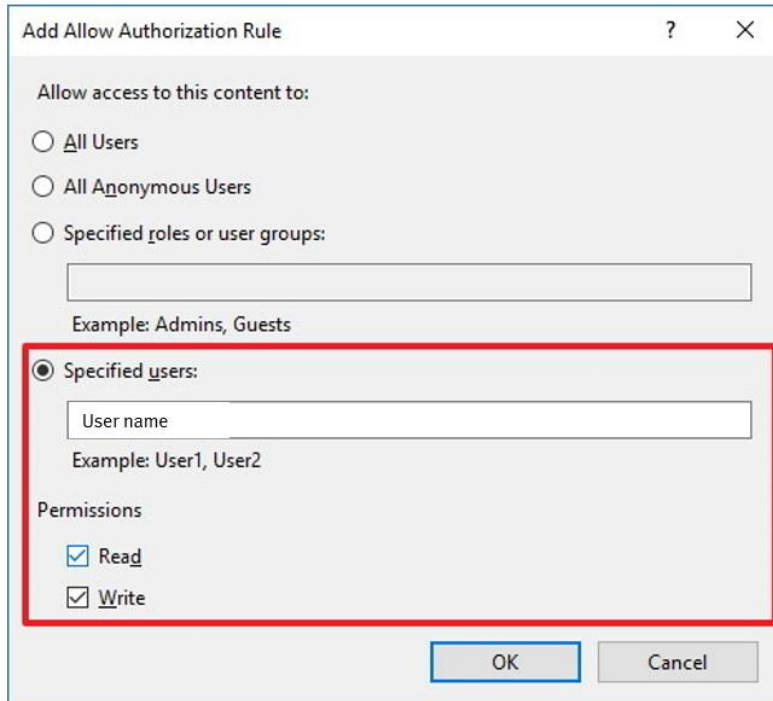
1. Use the **Windows key + X** keyboard shortcut to open the Power User menu and select **Control Panel**.
2. Open **Administrative Tools**.
3. Double-click **Internet Information Services (IIS) Manager**.
4. Expand **Sites**.
5. Select your FTP site and double-click on **FTP Authorization Rules**.



6. At the moment all Users have access to this FTP site. You can change this by adding a new allow rule.
7. Right-click on and select **Add Allow Rules** from the context menu.



8. Select **Specified user** and enter the name of the user account.
9. Set the **Read** and **Write** permissions you want the user to have.
10. Click **OK**.
11. Reboot your system.



The screenshot shows a Windows dialog box titled "Add Allow Authorization Rule". It has a standard Windows window frame with a question mark icon and a close button (X) in the top right corner. The dialog is divided into two main sections. The top section, "Allow access to this content to:", contains three radio button options: "All Users", "All Anonymous Users", and "Specified roles or user groups:". Below these is a text input field with the example text "Example: Admins, Guests". The bottom section, "Specified users:", is selected and highlighted with a red rectangular border. It contains a radio button that is selected, a text input field labeled "User name" with the example text "Example: User1, User2", and a "Permissions" section. The "Permissions" section has two checkboxes: "Read" and "Write", both of which are checked. At the bottom right of the dialog are two buttons: "OK" and "Cancel".

6.5 YJKP WebVisu FTP-Server settings

1. Open the **WebVisu** of the YJKP, go to the **Commissioning** tab and select the **logging configuration**.
2. **Enable** the logging on the **FTP-Server**. FTP-Server should now have a **green** spot.
3. URL: ftp://User name:password@IP of server
IP-Address: IP of server

Example:

URL: ftp://artn:NicePassword123@192.168.0.99

IP-Address: 192.168.0.99

4. **Save** the settings

The screenshot shows the 'Logging' configuration window in the YJKP WebVisu. The window has a title bar with 'FESTO' on the right. Inside, there's a section titled 'Logging' with an information icon and the text 'Only for control highness "WebVisu"'. Below this, there are four rows of settings:

- USB**: Indicated by a red dot, with an 'Enable USB' button.
- SD-Card**: Indicated by a red dot, with an 'Enable SD-Card' button.
- FTP-Server**: Indicated by a green dot, with a 'Disable FTP-Server' button.
- SMB-Share**: Indicated by a red dot, with an 'Enable SMB-Share' button.

Below these, there are input fields for 'URL' (containing 'ftp://artn:NicePassword123@192.168.0.99') and 'IP-Address' (containing '192.168.0.99'). At the bottom right of the main area are 'Cancel' and 'Save' buttons. The bottom of the window features a navigation bar with 'Commissioning' (selected), 'Program', 'Operation', and 'Diagnosis'. On the far left of the bottom bar is a 'Ready' status indicator. On the far right is a 'Logout' button with a user icon.

5. If you're using any kind of host connectivity to operate the YJKP, you'll have to **activate** the FTP logging **over your PLC**.

- Using Festo provided function blocks, you can find the needed input in FB_ControlChannel:

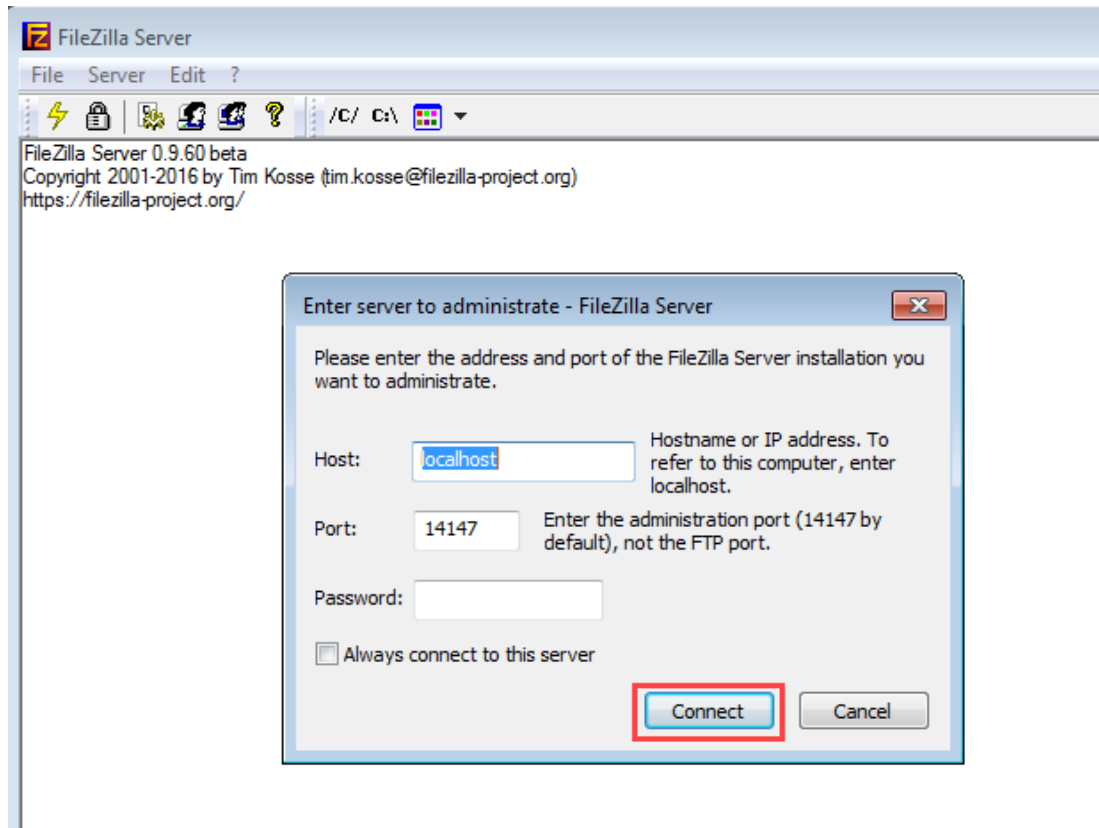
FB_ControlChannel	
xEnable BOOL	BOOL xActive
xEnableSystem BOOL	BOOL xSystemEnabled
xStartHoming BOOL	BOOL xSystemIsHomed
uiSelectedProgramNumber UINT	BOOL xProgramLoaded
xLoadProgram BOOL	UINT uiLoadedProgramNumber
xStartRecordReferenceCurve BOOL	BOOL xStepModeActive
xStartPressProcess BOOL	BOOL xStepDone
xAbort BOOL	BOOL xInOperation
xStepMode BOOL	BOOL xSystemError
xQuitSystemError BOOL	BOOL xResultOK
xDigitalInput9 BOOL	BOOL xResultNOK
xDigitalInput10 BOOL	REAL rMaximumPosition
xDigitalInput11 BOOL	REAL rMaximumForce
xDigitalInput12 BOOL	WORD wNOK_Reason
xDigitalInput13 BOOL	BOOL xDigitalOutput5
xDigitalInput14 BOOL	BOOL xDigitalOutput6
xDigitalInput15 BOOL	BOOL xDigitalOutput7
xDigitalInput16 BOOL	BOOL xDigitalOutput8
xForceControlContinue BOOL	BOOL xDigitalOutput9
xTare BOOL	BOOL xDigitalOutput10
rTargetOffsetForceSensor REAL	BOOL xDigitalOutput11
enTargetPosMode EN_PosMode	BOOL xDigitalOutput12
rTargetMotionVelocity REAL	REAL rActualPosition
rTargetMotionPositionDistance REAL	REAL rActualForce
xMove BOOL	REAL rActualVelocity
xStopMove BOOL	BOOL xTared
xOpenBrake BOOL	REAL rActualOffsetForceSensor
xJogPos BOOL	EN_PosMode enActualPosMode
xJogNeg BOOL	REAL rActualMotionVelocity
xLoadHW_Config BOOL	REAL rActualMotionPositionDistance
xLogUSB BOOL	BOOL xStatusHW_Config
xLogSD_Card BOOL	BOOL xLogUSB_Active
xLogFTP_Server BOOL	BOOL xLogSD_CardActive
xSystemReset BOOL	BOOL xLogFTP_ServerActive
xResetStatistic BOOL	BOOL xManualModeActive
pbyStartAddress_In POINTER TO BYTE	BOOL xAutomaticModeActive
pbyStartAddress_Out POINTER TO BYTE	BOOL xSystemReady
	BOOL xSystemPressReady
	BOOL xBrakeOpened
	BOOL xSystemWarning
	BOOL xForceReached
	BOOL xError
	WORD wErrorID

- Using just the interface of the YJKP, you can find the needed input in the control word on bit 15:

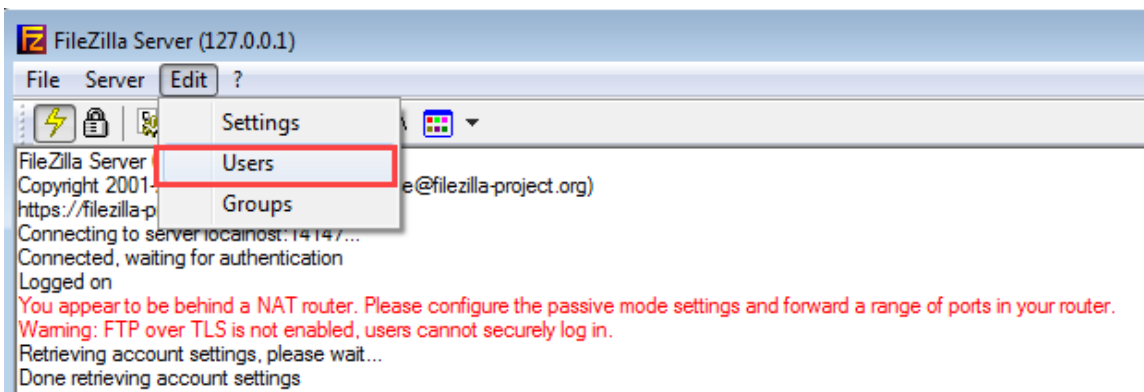
dwControlWord	DWORD	Control word
		Bit 0 = Manual mode
		Bit 1 = Automatic mode
		Bit 2 = Start homing
		Bit 3 = Start press process
		Bit 4 = Abort press process (low active)
		Bit 5 = Load program
		Bit 6 = Quit error
		Bit 7 = Enable press
		Bit 8 = Tare
		Bit 9 = Move
		Bit 10 = Stop move
		Bit 11 = Jog pos
		Bit 12 = Jog neg
		Bit 13 = Load hardware configuration
		Bit 14 = Logging USB
		Bit 15 = Logging SD-Card
		Bit 16 = System reset
		Bit 17 = Reset statistic
		Bit 18 = Stop mode
		Bit 19 = Logging FTP-Server
		Bit 20-31 = Reserved

7 FTP Server using “FileZilla Server (Win7)”

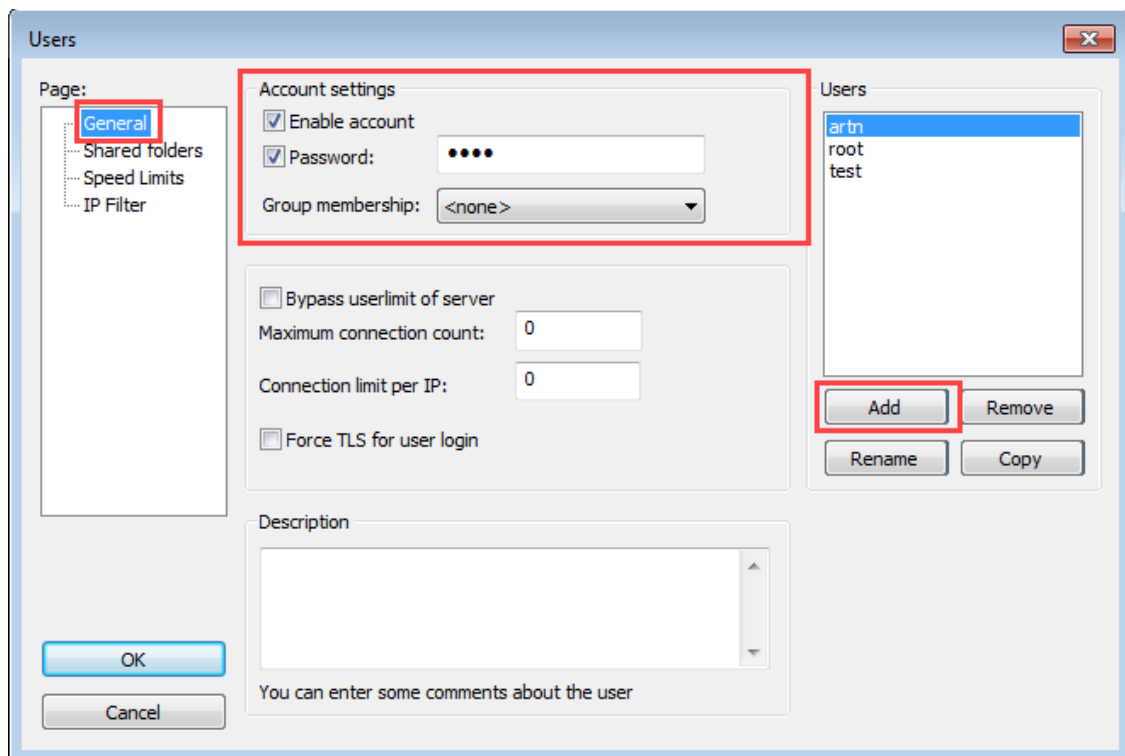
1. **Download** and **install** the FileZilla Server with default settings.
2. Start the **FileZilla Server Interface** and **connect** to the server.



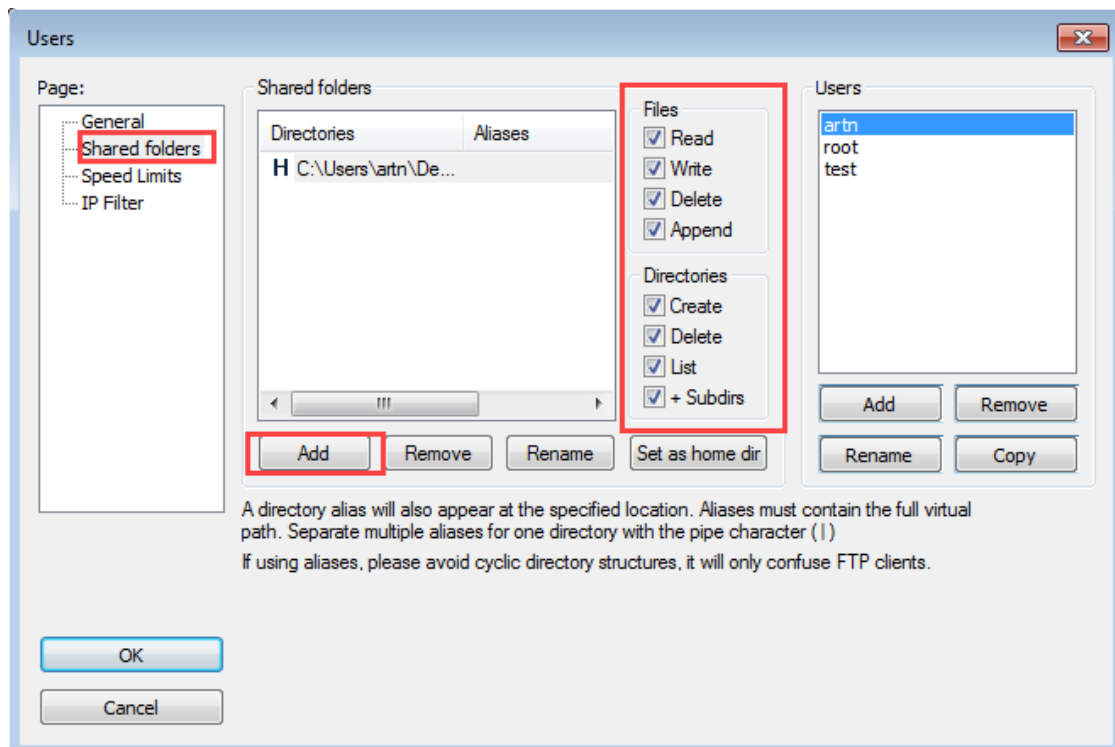
3. Open the user settings over **Edit -> Users**.



4. Add a **new user** with a **password**.
Example: user: artn; password:NicePassword123



5. **Add a folder** to this user, in which the logging files will be saved.
Assign all needed **rights**.

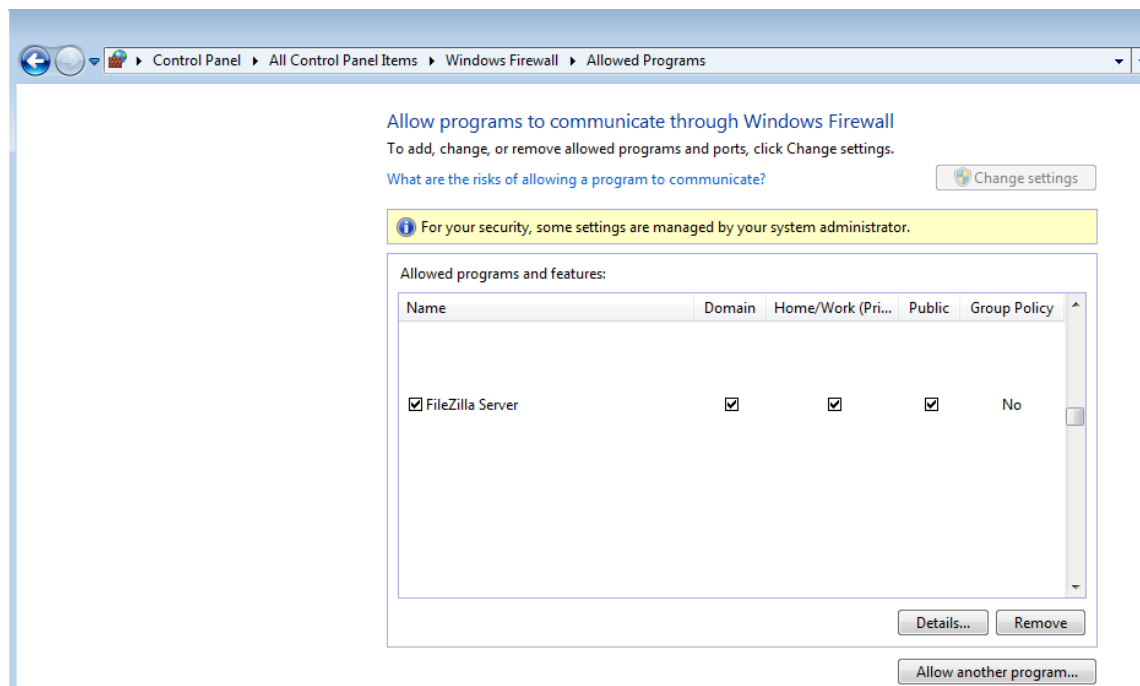


7.1 Firewall settings

10. Go to **START -> Control panel** and select **Windows Firewall**.
11. Click the **Allow an app or feature through Windows Firewall** link.

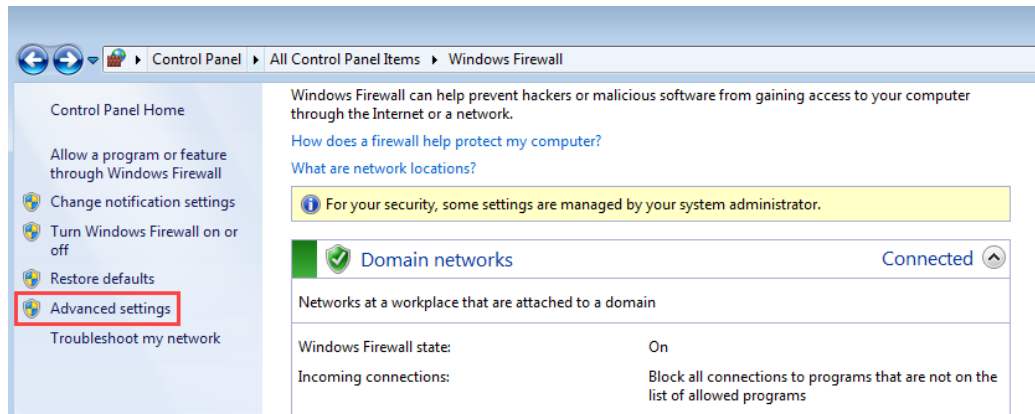


12. Click the **Changes settings** button.
13. Select **FileZilla Server** and make sure to allow it on a **Private** and **Public** network.
14. Click **OK**.



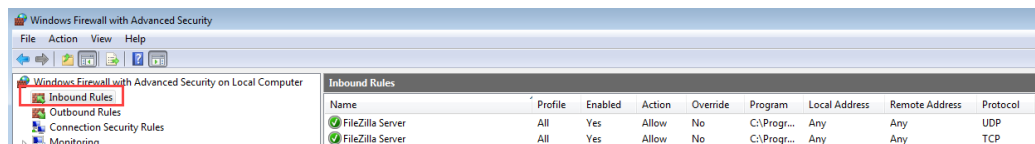
15. Go back to the **Windows Firewall**.

16. Select the **Advanced settings**.



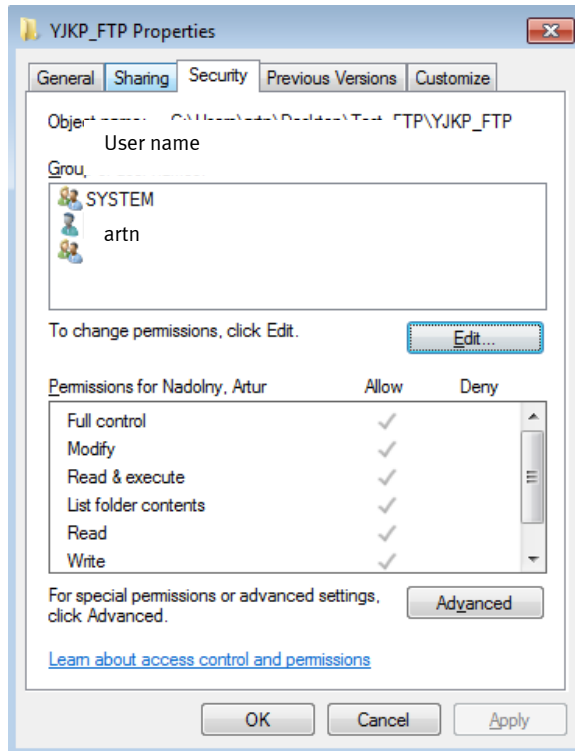
17. Check the **Inbound Rules** for the FileZilla Server.

18. If necessary **guarantee access** for this program (You may need to create a rule for this program).



7.2 User access to the FTP folder

4. Right-click the FTP folder of your choice and select **Properties**.
5. Click to the **Security** tab.
6. Check, if your desired user is available and has all needed permissions. Otherwise you can add a new user over **Edit**.



7.3 YJKP WebVisu FTP-Server settings

1. Open the **WebVisu** of the YJKP, go to the **Commissioning** tab and select the **logging configuration**.
2. **Enable** the logging on the **FTP-Server**. FTP-Server should now have a **green** spot.
3. URL: ftp://User name:password@IP of server
IP-Address: IP of server

Example:

URL: ftp://artn:NicePassword123@192.168.0.99

IP-Address: 192.168.0.99

4. **Save** the settings

The screenshot shows the 'Logging' configuration window in the YJKP WebVisu Commissioning tab. It features a list of logging options on the left and corresponding action buttons on the right. The 'FTP-Server' option is highlighted with a green dot, indicating it is the active setting. The URL and IP-Address fields are populated with the example values. The bottom of the window shows the 'Commissioning' tab selected, with 'Program', 'Operation', and 'Diagnosis' tabs also visible. The status bar at the bottom indicates 'Ready' and includes a 'Logout' button.

Option	Action
USB	Enable USB
SD-Card	Enable SD-Card
FTP-Server	Disable FTP-Server
SMB-Share	Enable SMB-Share

URL: ftp://artn:NicePassword123@192.168.0.99
IP-Address: 192.168.0.99

Buttons: Cancel, Save

Bottom Bar: Commissioning (selected), Program, Operation, Diagnosis
Status: Ready
Logout

6. If you're using any kind of host connectivity to operate the YJKP, you'll have to **activate** the FTP logging **over your PLC**.

1. Using Festo provided function blocks, you can find the needed input in FB_ControlChannel:

FB_ControlChannel	
xEnable BOOL	BOOL xActive
xEnableSystem BOOL	BOOL xSystemEnabled
xStartHoming BOOL	BOOL xSystemIsHomed
uiSelectedProgramNumber UINT	BOOL xProgramLoaded
xLoadProgram BOOL	UINT uiLoadedProgramNumber
xStartRecordReferenceCurve BOOL	BOOL xStepModeActive
xStartPressProcess BOOL	BOOL xStepDone
xAbort BOOL	BOOL xInOperation
xStepMode BOOL	BOOL xSystemError
xQuitSystemError BOOL	BOOL xResultOK
xDigitalInput9 BOOL	BOOL xResultNOK
xDigitalInput10 BOOL	REAL rMaximumPosition
xDigitalInput11 BOOL	REAL rMaximumForce
xDigitalInput12 BOOL	WORD wNOK_Reason
xDigitalInput13 BOOL	BOOL xDigitalOutput5
xDigitalInput14 BOOL	BOOL xDigitalOutput6
xDigitalInput15 BOOL	BOOL xDigitalOutput7
xDigitalInput16 BOOL	BOOL xDigitalOutput8
xForceControlContinue BOOL	BOOL xDigitalOutput9
xTare BOOL	BOOL xDigitalOutput10
rTargetOffsetForceSensor REAL	BOOL xDigitalOutput11
enTargetPosMode EN_PosMode	BOOL xDigitalOutput12
rTargetMotionVelocity REAL	REAL rActualPosition
rTargetMotionPositionDistance REAL	REAL rActualForce
xMove BOOL	REAL rActualVelocity
xStopMove BOOL	BOOL xTared
xOpenBrake BOOL	REAL rActualOffsetForceSensor
xJogPos BOOL	EN_PosMode enActualPosMode
xJogNeg BOOL	REAL rActualMotionVelocity
xLoadHW_Config BOOL	REAL rActualMotionPositionDistance
xLogUSB BOOL	BOOL xStatusHW_Config
xLogSD_Card BOOL	BOOL xLogUSB_Active
xLogFTP_Server BOOL	BOOL xLogSD_CardActive
xSystemReset BOOL	BOOL xLogFTP_ServerActive
xResetStatistic BOOL	BOOL xManualModeActive
pbyStartAddress_In POINTER TO BYTE	BOOL xAutomaticModeActive
pbyStartAddress_Out POINTER TO BYTE	BOOL xSystemReady
	BOOL xSystemPressReady
	BOOL xBrakeOpened
	BOOL xSystemWarning
	BOOL xForceReached
	BOOL xError
	WORD wErrorID

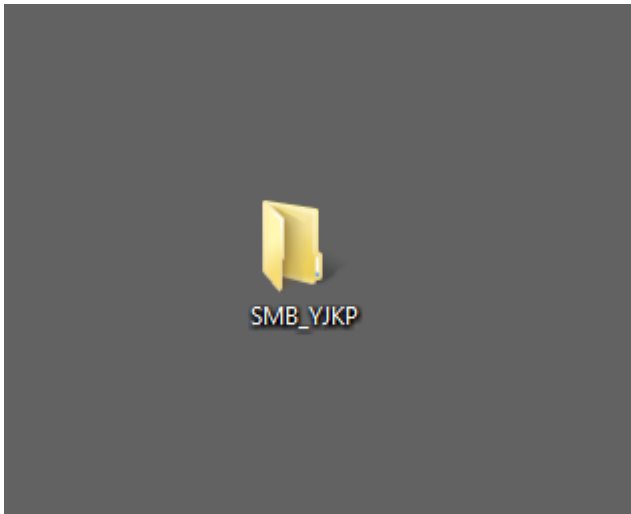
2. Using just the interface of the YJKP, you can find the needed input in the control word on bit 15:

dwControlWord	DWORD	Control word
		Bit 0 = Manual mode
		Bit 1 = Automatic mode
		Bit 2 = Start homing
		Bit 3 = Start press process
		Bit 4 = Abort press process (low active)
		Bit 5 = Load program
		Bit 6 = Quit error
		Bit 7 = Enable press
		Bit 8 = Tare
		Bit 9 = Move
		Bit 10 = Stop move
		Bit 11 = Jog pos
		Bit 12 = Jog neg
		Bit 13 = Load hardware configuration
		Bit 14 = Logging USB
		Bit 15 = Logging SD-Card
		Bit 16 = System reset
		Bit 17 = Reset statistic
		Bit 18 = Stop mode
		Bit 19 = Logging FTP-Server
		Bit 20-31 = Reserved

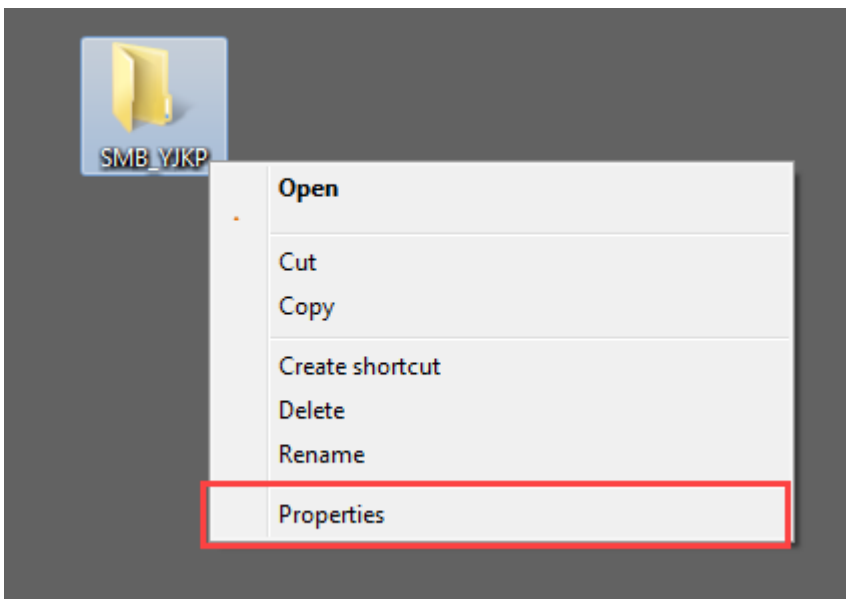
8 SMB share on Windows 7

8.1 Configure a shared folder

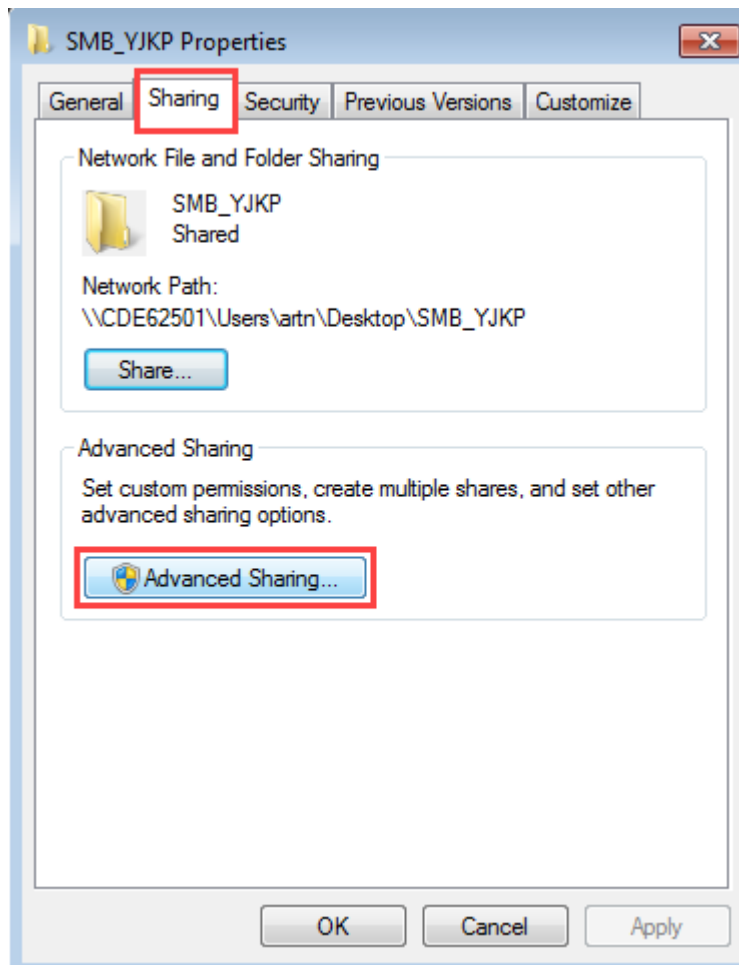
1. **Create a new folder** somewhere on your Windows 7 system.
Here on the desktop:



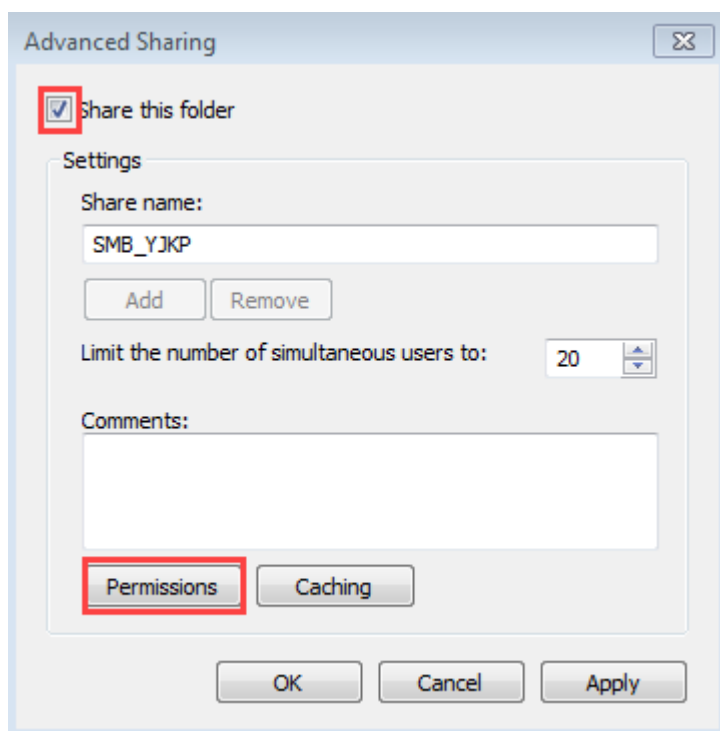
2. In this example we will open this folder to everyone with full excess. Other settings are up to the user.
Open the **properties** of this directory.



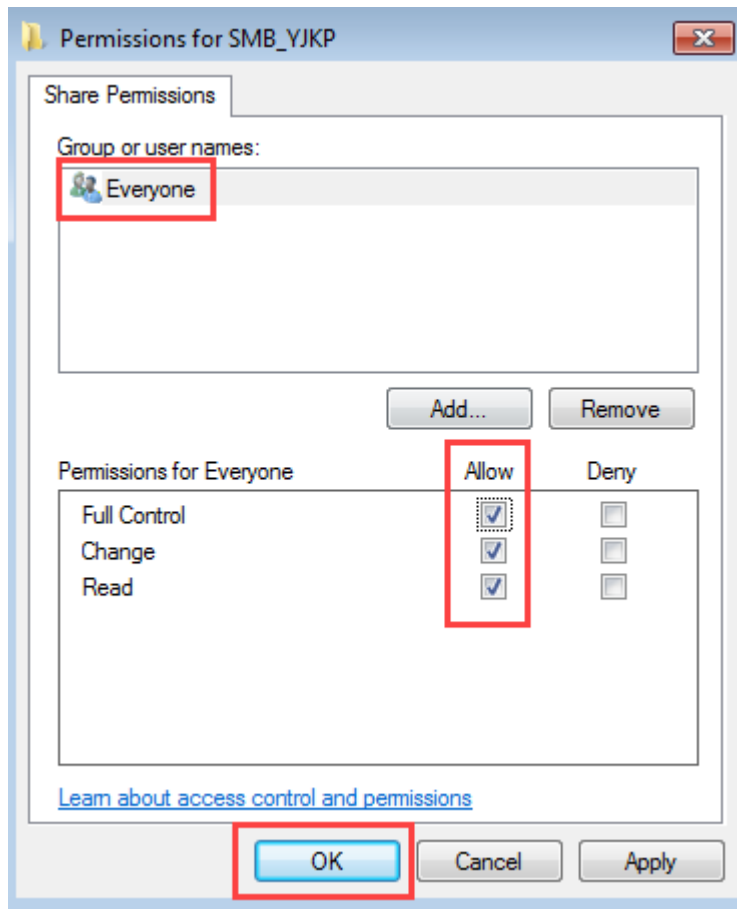
3. Go to the **Sharing** tab and open the **Advanced Sharing** option:



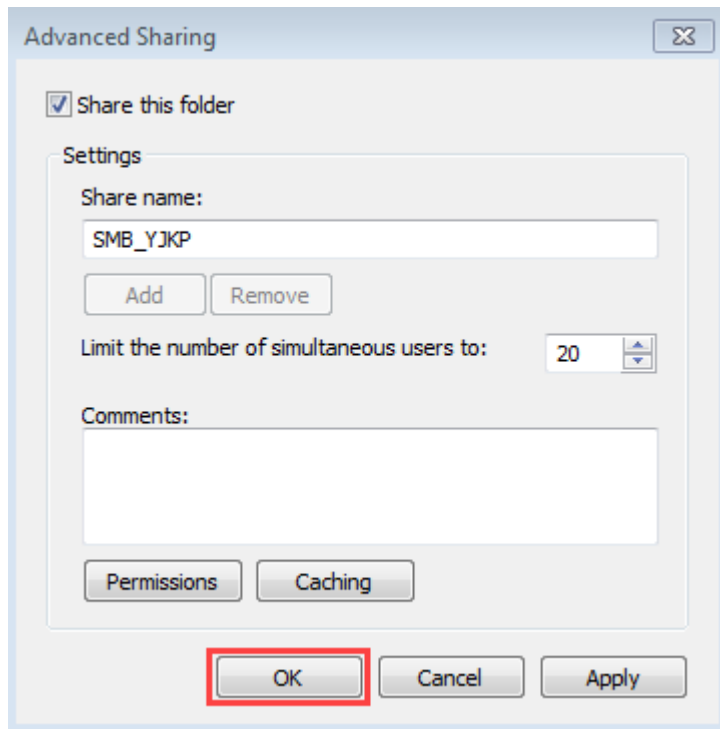
4. Check the option “Share this folder” and go to **Permissions**.



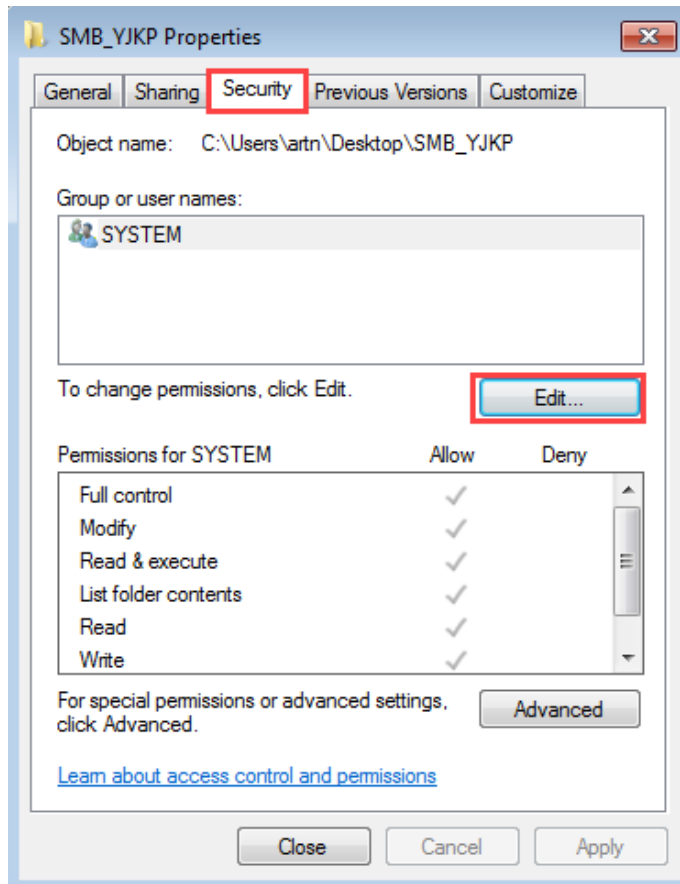
5. Use the group “**Everyone**” and check the permissions to **Full Control**. Apply the changes and close this window with **OK**.



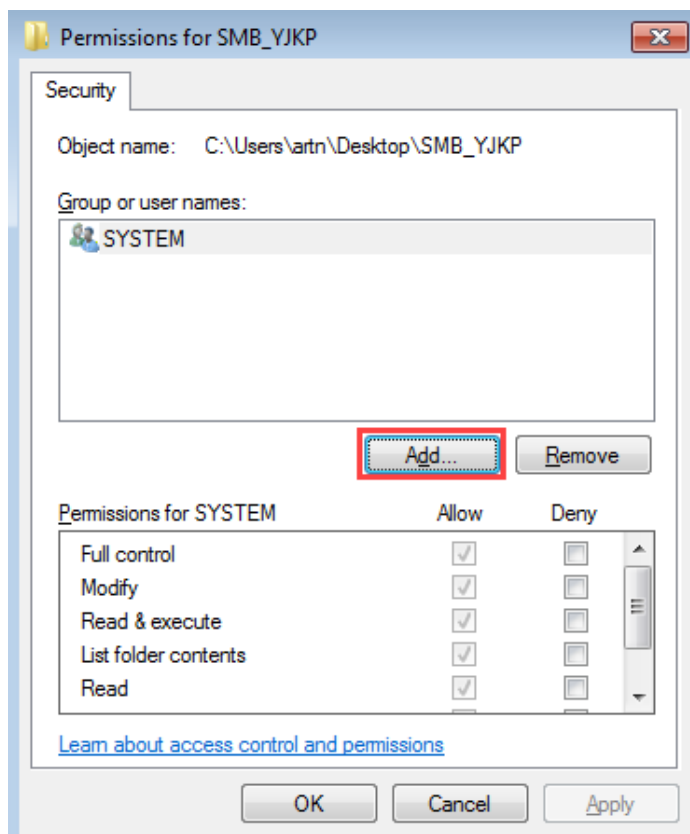
6. Close the Advanced Sharing window with **OK**:



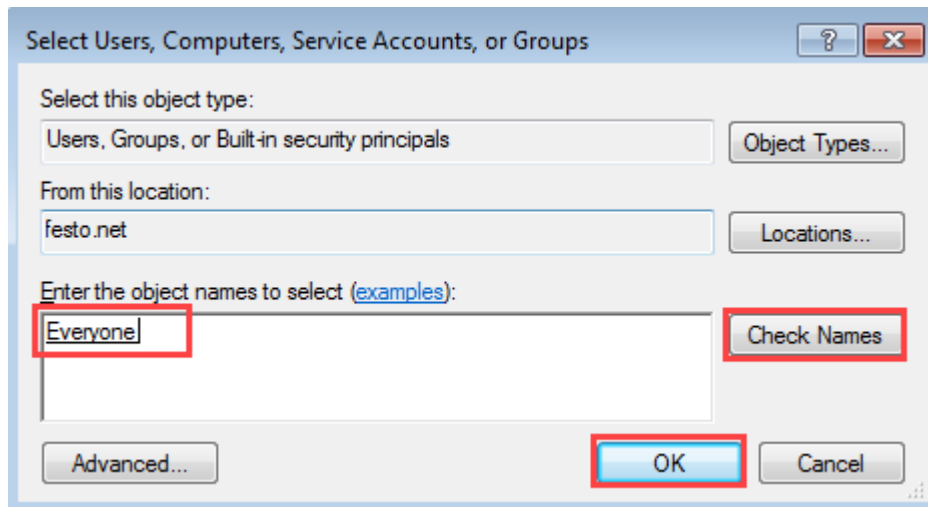
7. Go to the **tab “Security”** and click on **“Edit”** to open the permission settings:



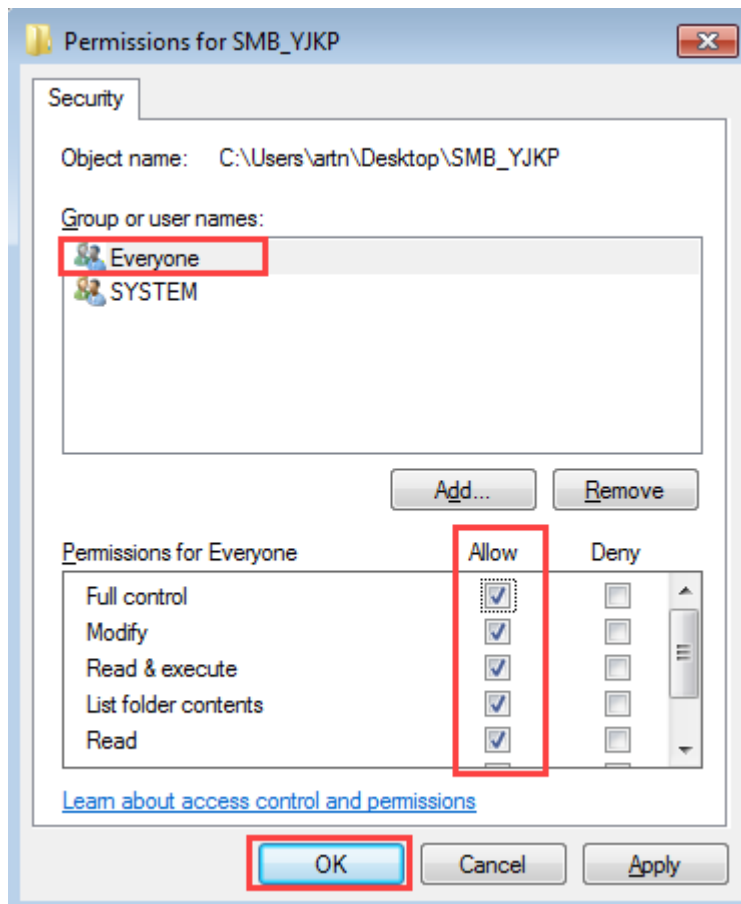
8. Click on **“Add”** to add a new user:



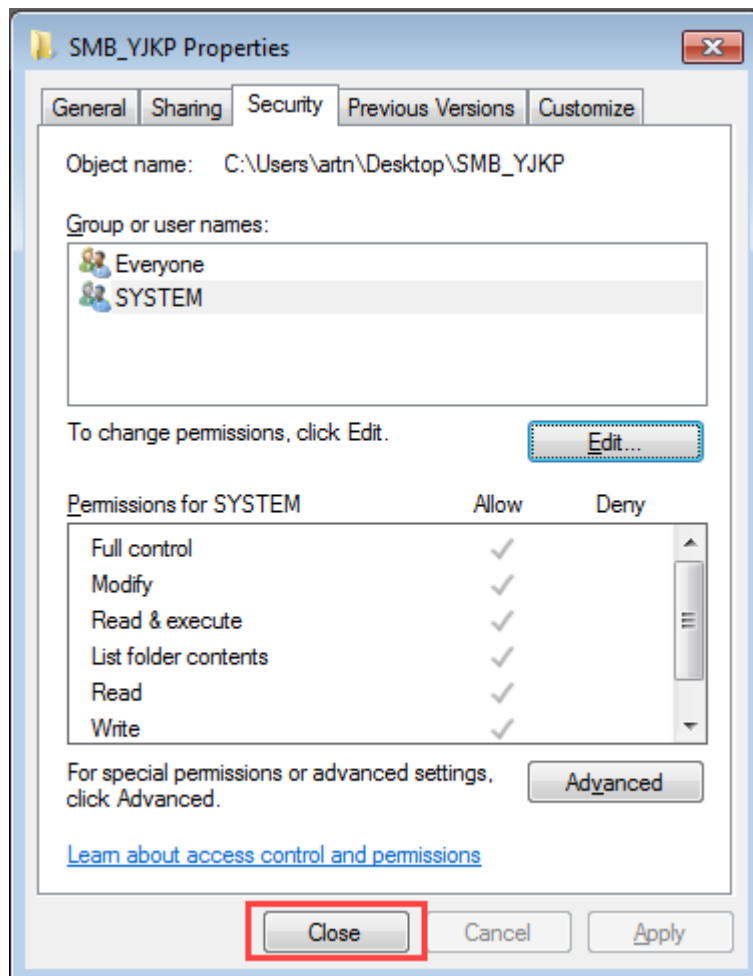
9. Enter the user **“Everyone”**, click on **“Check Names”** and confirm it with **“OK”**.
The window will close.



10. Select the user **“Everyone”** and assign **full control** to him.
Apply the changes and close this window with **OK**.



11. **Close** the properties of your shared folder:



8.2 YJKP WebVisu SMB-Share settings

1. Open the **WebVisu** of the YJKP, go to the **Commissioning** tab and select the **logging configuration**.
2. **Enable** the logging on the **SMB-share**. SMB-share should now have a **green** spot.
3. URL: user=pressuser,password=presspass //IP-Address/directory
 IP-Address: IP of server
 user: username, who is sign in on the system
 Password: user password

Example:

The YJKP is connected to a Windows-PC. Here we have a shared folder. User is the currently signed in user with his Win-password.

user=abc,password=Windows-password //192.168.0.99/SMB_YJKP


4. **Save** the settings

The screenshot displays the 'Logging' configuration window in the YJKP WebVisu. It features a sidebar with 'Commissioning' selected. The main area contains a list of logging options: USB, SD-Card, FTP-Server, and SMB-Share. Each option has a corresponding 'Enable' button. The SMB-Share option is currently selected (indicated by a green dot), and its configuration is shown in a red-bordered box. This box contains a 'Disable SMB-Share' button and a text field for the URL, which is populated with 'user=abc,password=Win-password //192.168.0.99/SMB_YJKP'. At the bottom right of the configuration area, there are 'Cancel' and 'Save' buttons, with the 'Save' button also highlighted by a red box. The bottom status bar shows 'Ready' and a 'Logout' button.

5. **Restart the servo press controller** so that the address will be associated during initialization of the system.
 Since the controller needs a restart after activating or deactivating the SMB-Share functionality, it is not possible to set this option using a fieldbus.

9 Customized Serial Number in Log-File Name

It is possible to set a user defined serial number in log-file via host using host parameter channel. It is then shown in the log-file title and in the log file entry “Serial number”. Below is example with serial number “ABCDEFGHJKLMNOPQRST”.

 Log_SerialNumber_ABCDEFGHJKLMNOPQRST_00_0E_F0_4A_93_43_2024-10-08-15_06_47_OK.log

Log Text

```
[Part no.];[Program name];[Part ID];[Timestamp];[Result];[Max. position];[Max. force];[NOK source]
2;Log_SerialNumber;2;2024-10-08-15:06:47;TRUE;9.994;-0.4928589;0
[MAC Address];[Serial number]
00:0E:F0:4A:93:43;ABCDEFGHJKLMNOPQRST
[Curves]
No;1
```

9.1 Object Directory

Serial number can contain maximum 20 ASCII characters. Following table shows its parameters in object directory.

Identifier	Index	Sub index	Default Value	Value	Data Type	Data Size	Access	Comment
Serial number Byte 1	0x2102	0x01	--	--	BYTE	1	RW	ASCII

Serial number Byte 20	0x2102	0x14	--	--	BYTE	1	RW	ASCII

9.2 Write Serial Number with Host Parameter Channel

Serial number can only be written from host parameter channel. It should be written before starting a press process. Once written, the serial number will remain until system reboot or overwritten by a new value.

Steps to write serial number:

- Set following inputs:
 - “Access Type” to 0x01 (Write).
 - “Access Option” to 0x00 or 0x01 (Single character or multiple characters).
 - “Object Index” to 0x2102.
 - “Object Subindex” to 0x00.
 - “Object Data Type” to 0x08 (Unsigned short integer).
- If serial number contains multiple characters, set input “Data Length To Be Written” to the length of serial number.
- Set data to be written to input in array “Data To Be Written”, each character in a position. First four bytes of the array, abyDataToBeWritten[1:4], should be left empty, means first character should go to abyDataToBeWritten[5].
- Set input “Execute” to true.
- Output condition of write variable done.
 - “Done” = true
 - “Busy” = false
 - “Acknowledge” = 0x00
 - “Error” = false