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## Application Note

**FESTO**

### YJKP - Logging Functionalities

How to use different logging functionalities on YJKP:

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

YJKP

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## 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: Components/Software used

## **2 Application description**

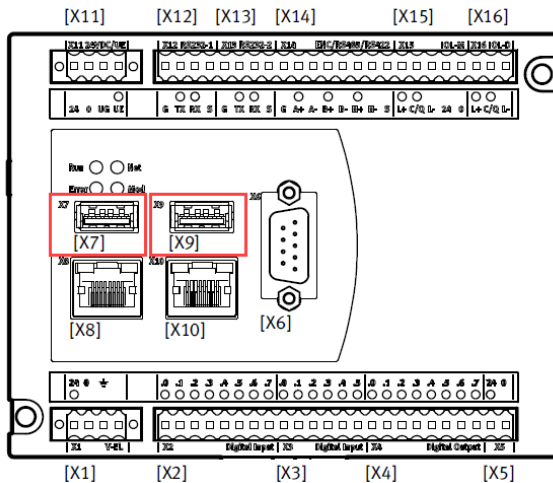
This application note shows different possibilities to save the logging files.

There are two different ways:

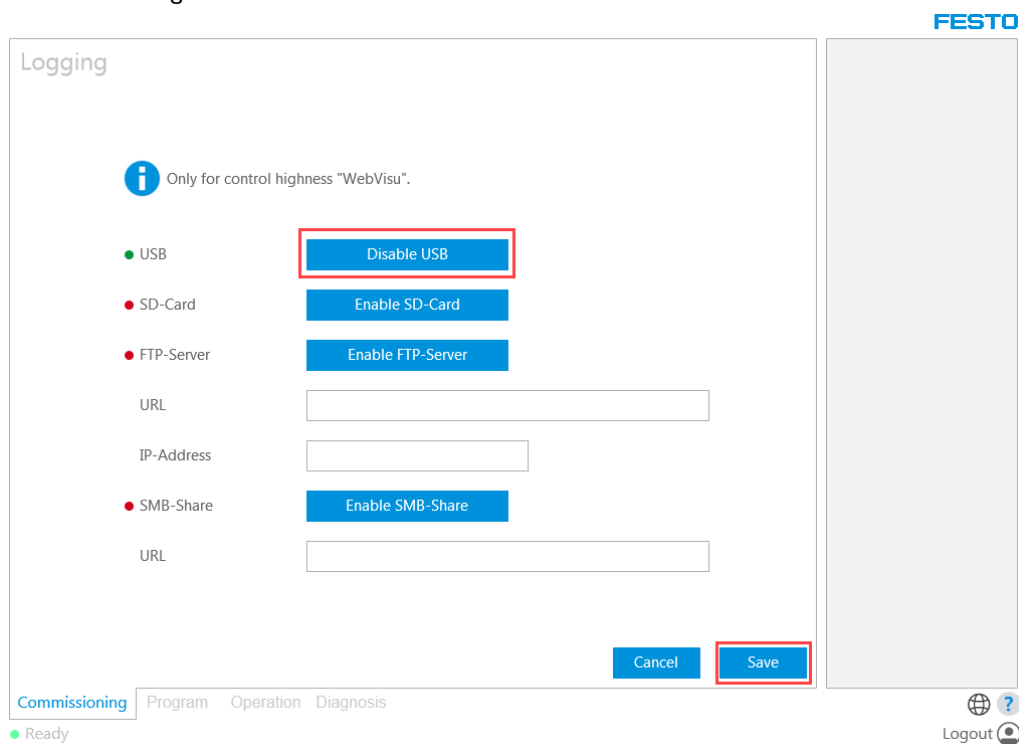
- Save the files locally on a flash drive (USB) or SD-card
- Save the files on a server via FTP or SMB

### 3 Flash drive USB

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



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



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

7. Using Festo provided function blocks, you can find the needed input in FB\_ControlChannel:



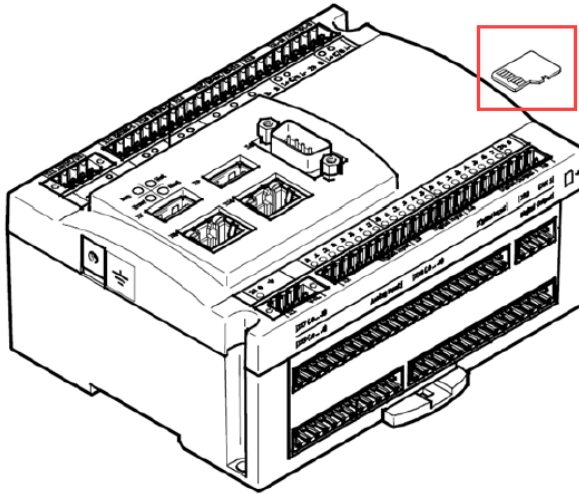
8. Using just the interface of the YJKP, you can find the needed input in the control word on bit 15:

<p><b>dwControlWord</b></p>	<p>DWORD</p>	<p>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</p>
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9. 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.



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

**FESTO**

### Logging

**i** Only for control highness "WebVisu".

<input type="radio"/>	USB	Enable USB
<input checked="" type="radio"/>	SD-Card	Disable SD-Card
<input type="radio"/>	FTP-Server	Enable FTP-Server
	URL	<input type="text"/>
	IP-Address	<input type="text"/>
<input type="radio"/>	SMB-Share	Enable SMB-Share
	URL	<input type="text"/>

Commissioning
Program
Operation
Diagnosis

● Ready
 
 ?   
 Logout

SD-card

5. 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**.

6. Using Festo provided function blocks, you can find the needed input in FB\_ControlChannel:



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

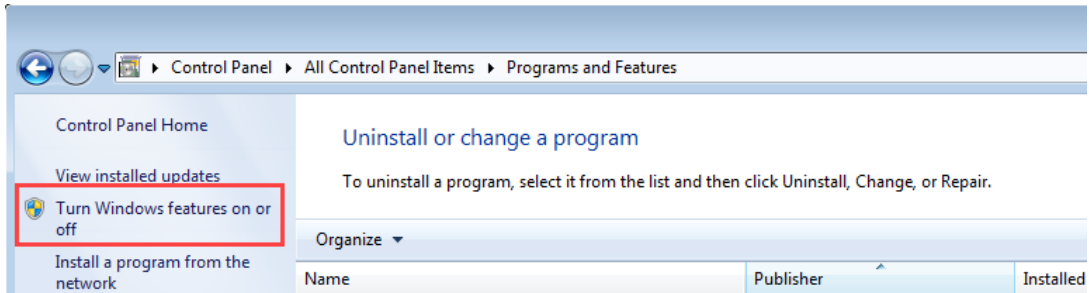
<p><b>dwControlWord</b></p>	<p>DWORD</p>	<p>Control word            Bit 0 = Manual mode            Bit 1 = Automatic mode            Bit 2 = Start homing            Bit 3 = Start press process            Bit 4 = Abort press process (low active)            Bit 5 = Load program            Bit 6 = Quit 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  <b>Bit 15 = Logging SD-Card</b>            Bit 16 = System reset            Bit 17 = Reset statistic            Bit 18 = Step mode            Bit 19 = Logging FTP-Server            Bit 20-31 = Reserved</p>
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8. After each press the logging files are saved on the flash drive.

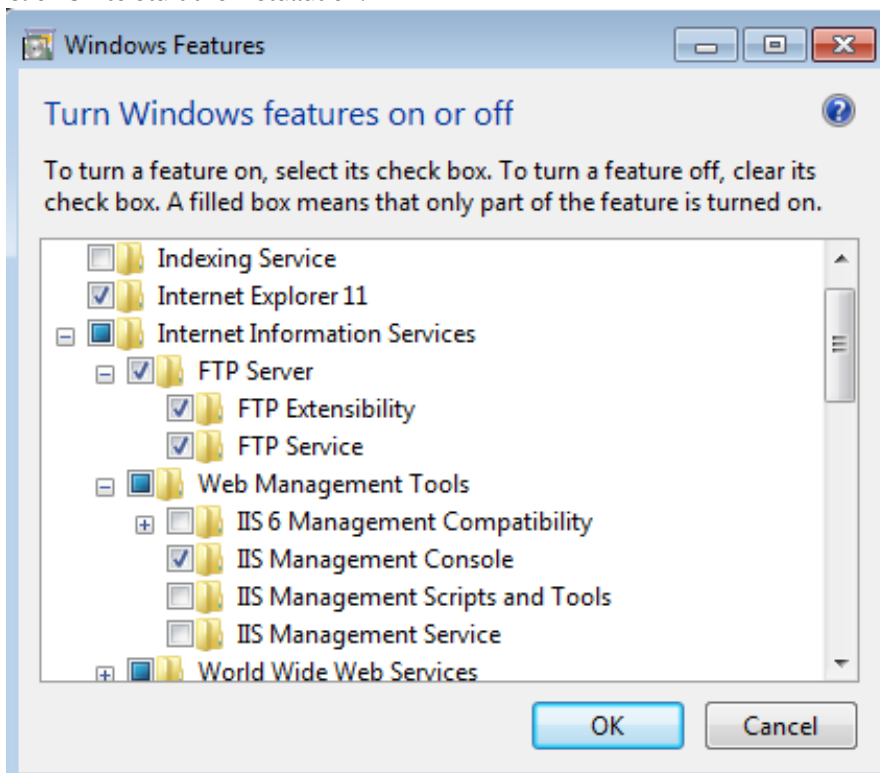
## 5 FTP server on Windows 7

### 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.

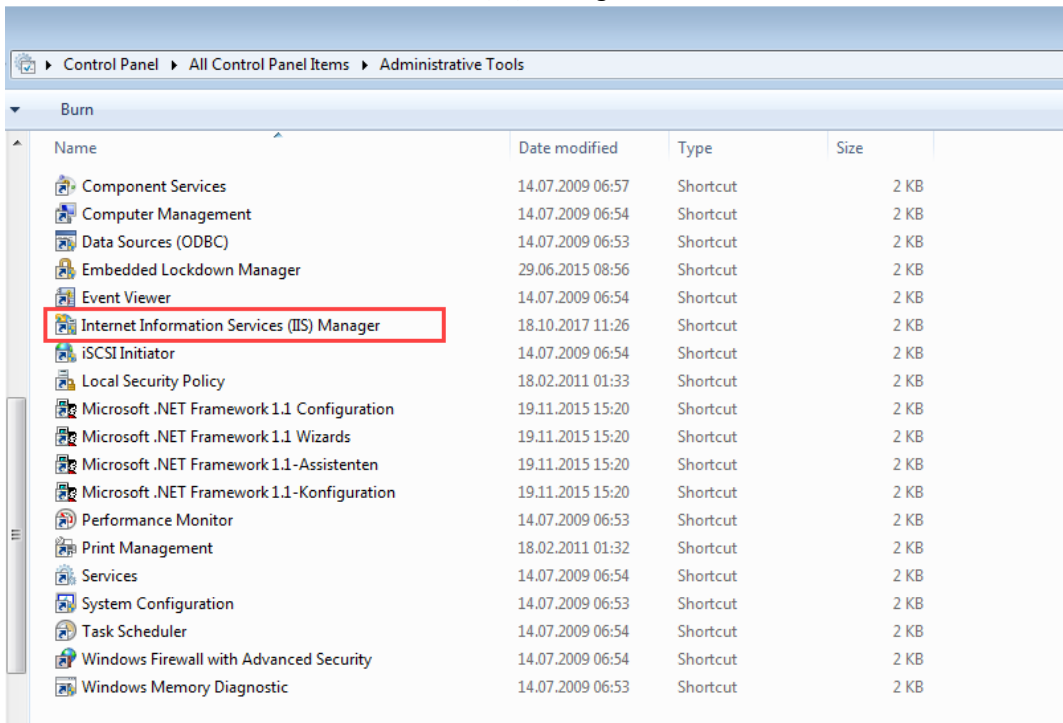


3. Expand Internet Information Services.
4. Expand **FTP Server** and check the **FTP Extensibility** and **FTP Service** options.
5. Expand **Web Management Tools** and check **IIS Management Console**.
6. Click **OK** to start the installation.



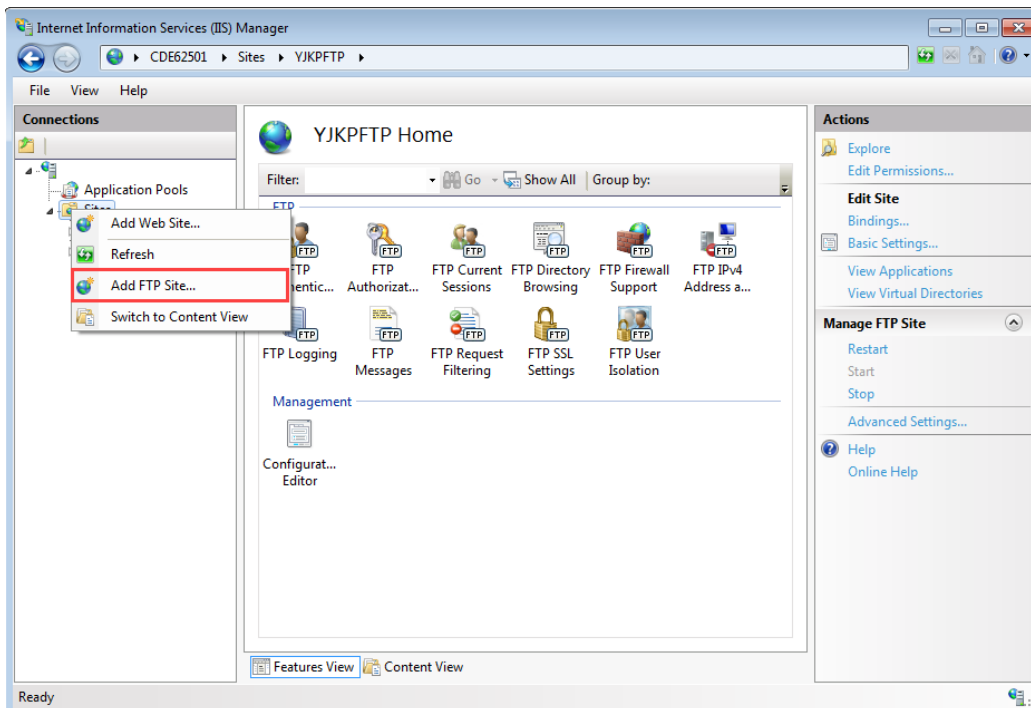
## FTP server on Windows 7

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', '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. Under 'SSL', the 'No SSL' radio button is selected. The 'Start FTP site automatically' checkbox is checked. 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.

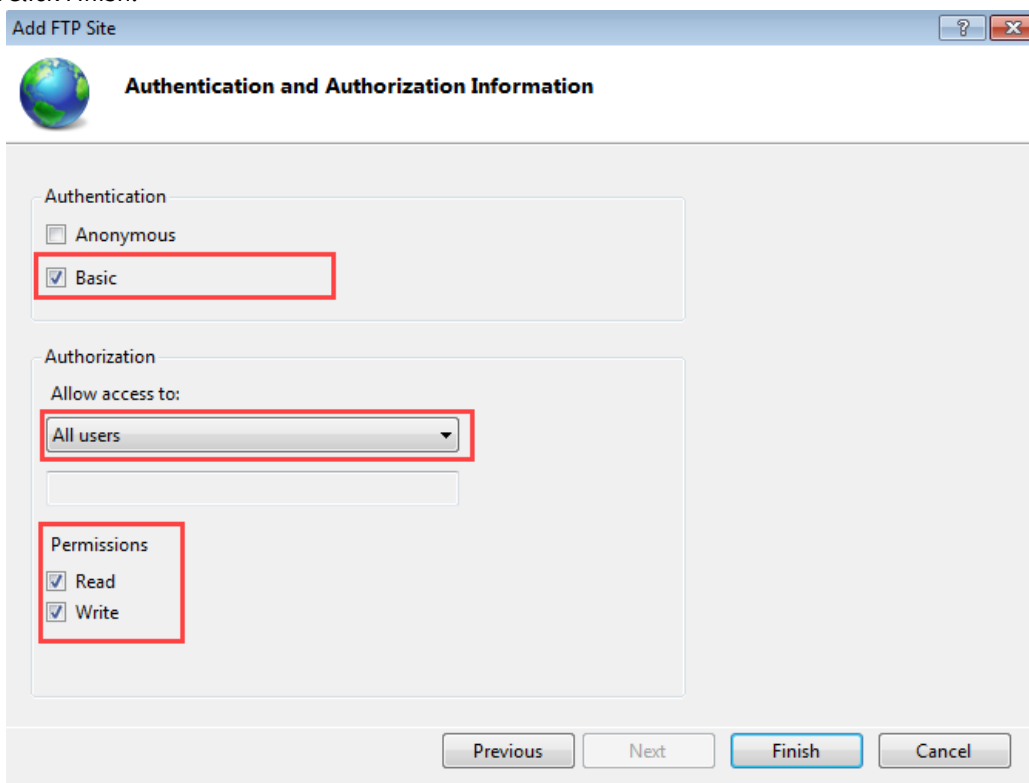


**Note**

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.

17. Check the options **Read** and **Write**.

18. Click Finish.

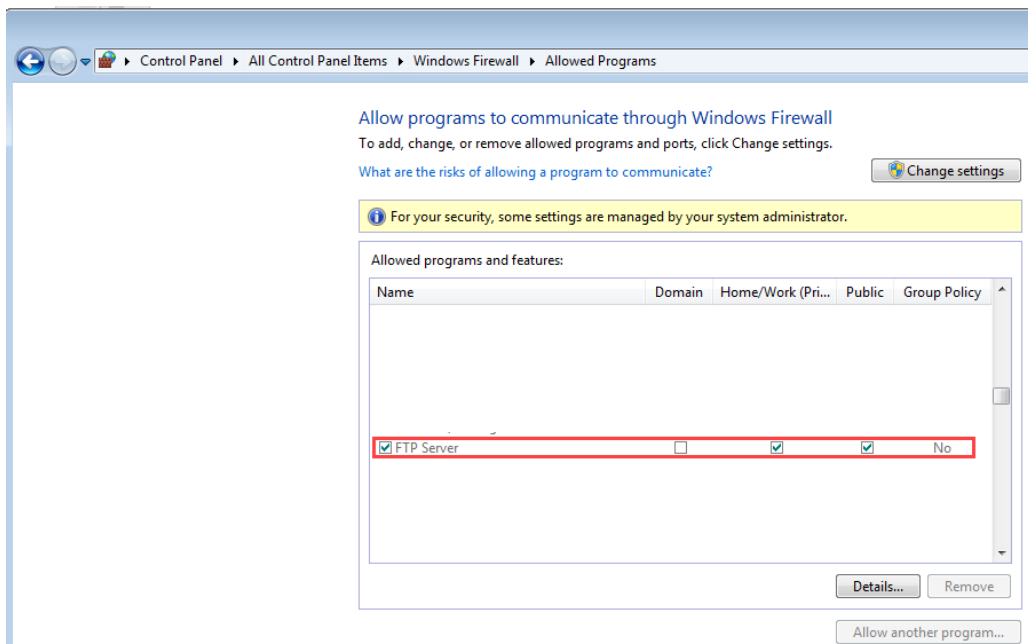


## 5.2 Firewall settings

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

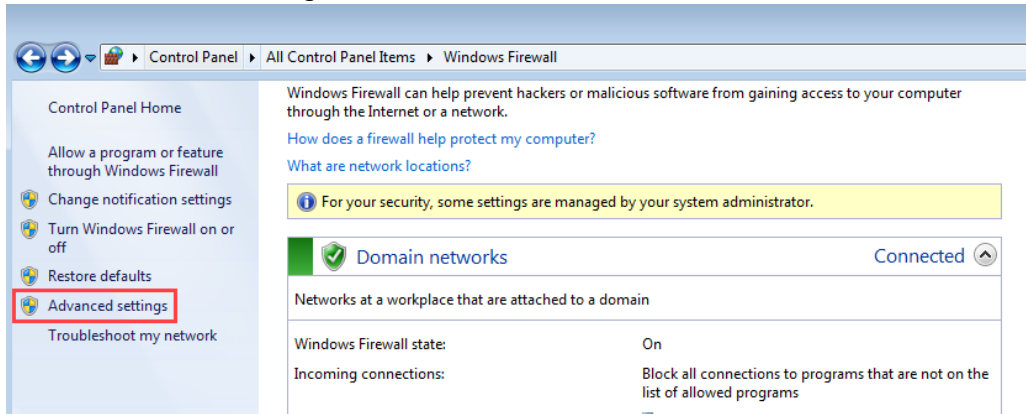


3. Click the **Changes settings** button.
4. Select **FTP Server** and make sure to allow it on a **Private** and **Public** network.
5. Click **OK**.



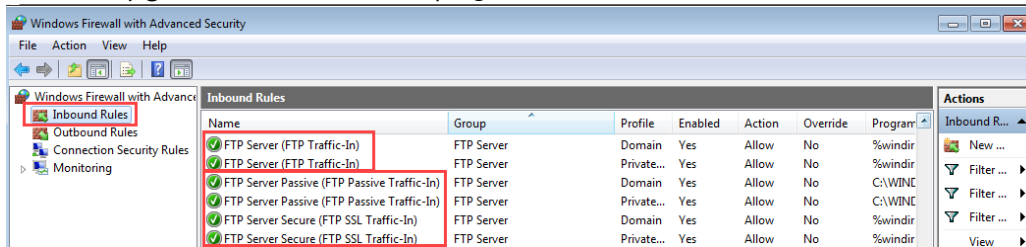
6. Go back to the **Windows Firewall**.

7. Select the Advanced settings.



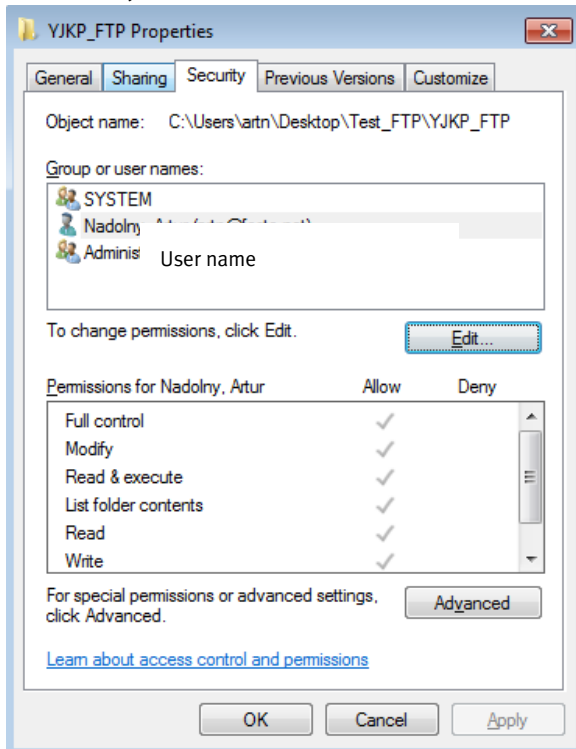
8. Check the **Inbound Rules** for the FTP Server.

9. If necessary **guarantee access** for this program.



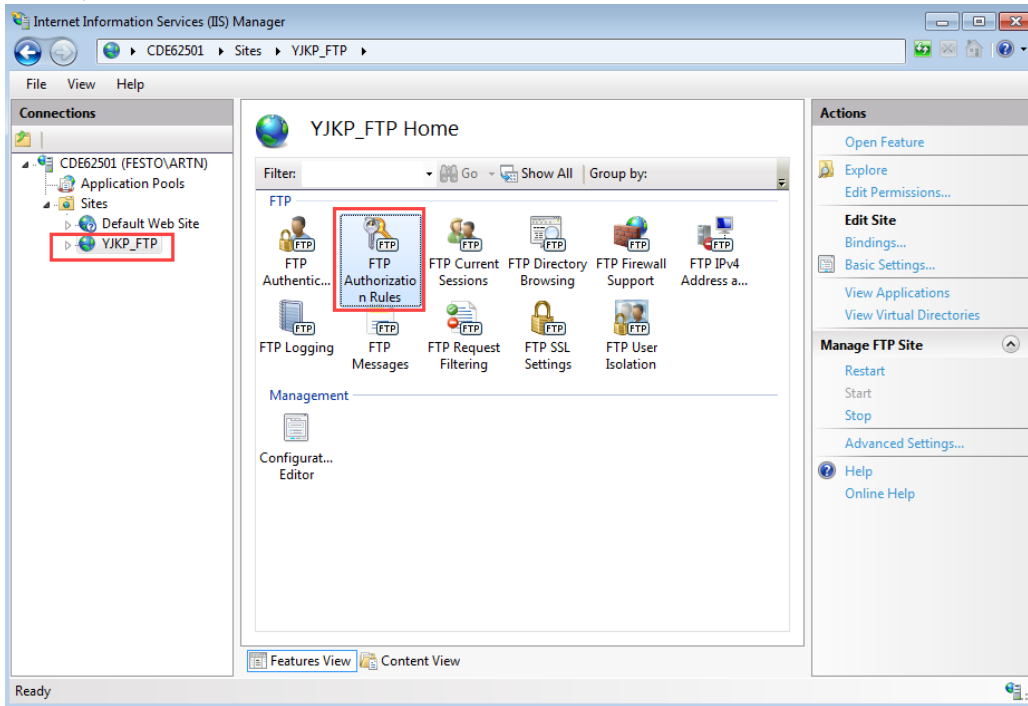
### 5.3 User access to the FTP folder

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**.

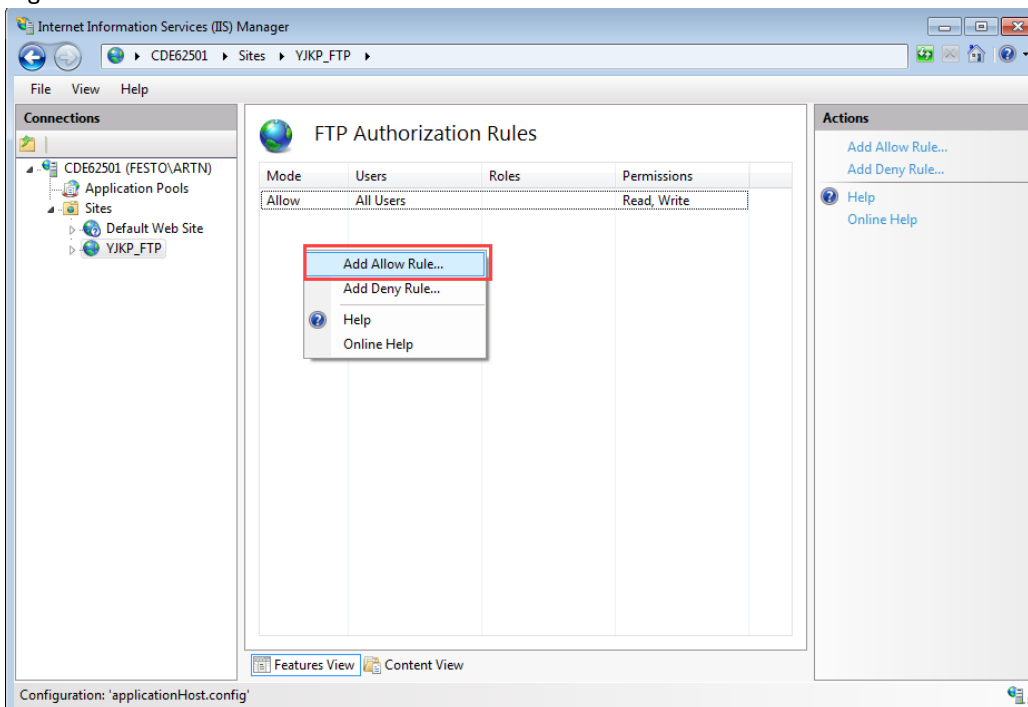


### 5.4 Configure user account to access the FTP server

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**.

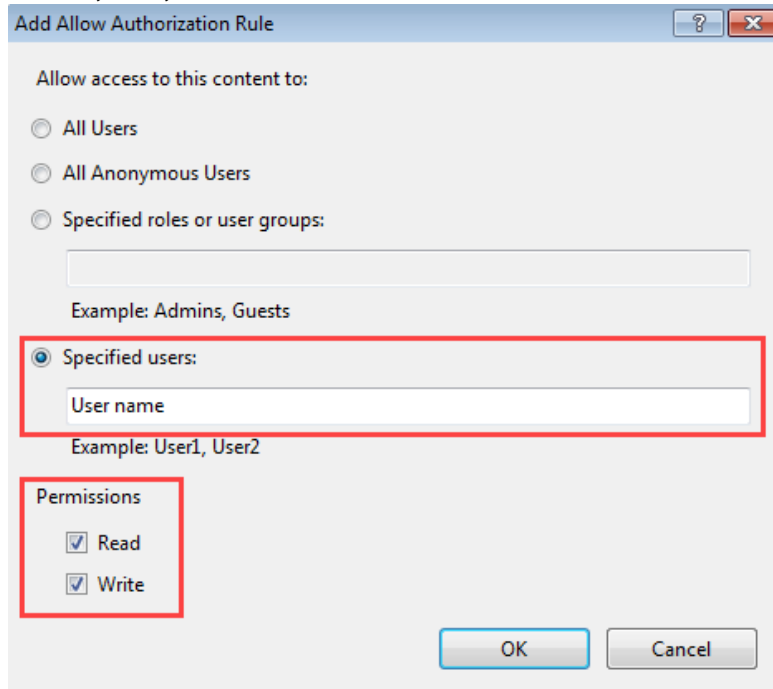


5. At the moment all Users have access to this FTP site. You can change this by adding a new allow rule.
6. Right-click on and select **Add Allow Rules** from the context menu.



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.



## 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
- SD-Card
- FTP-Server
- SMB-Share

URL: ftp://artn:NicePassword123@192.168.0.99

IP-Address: 192.168.0.99

URL:

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:



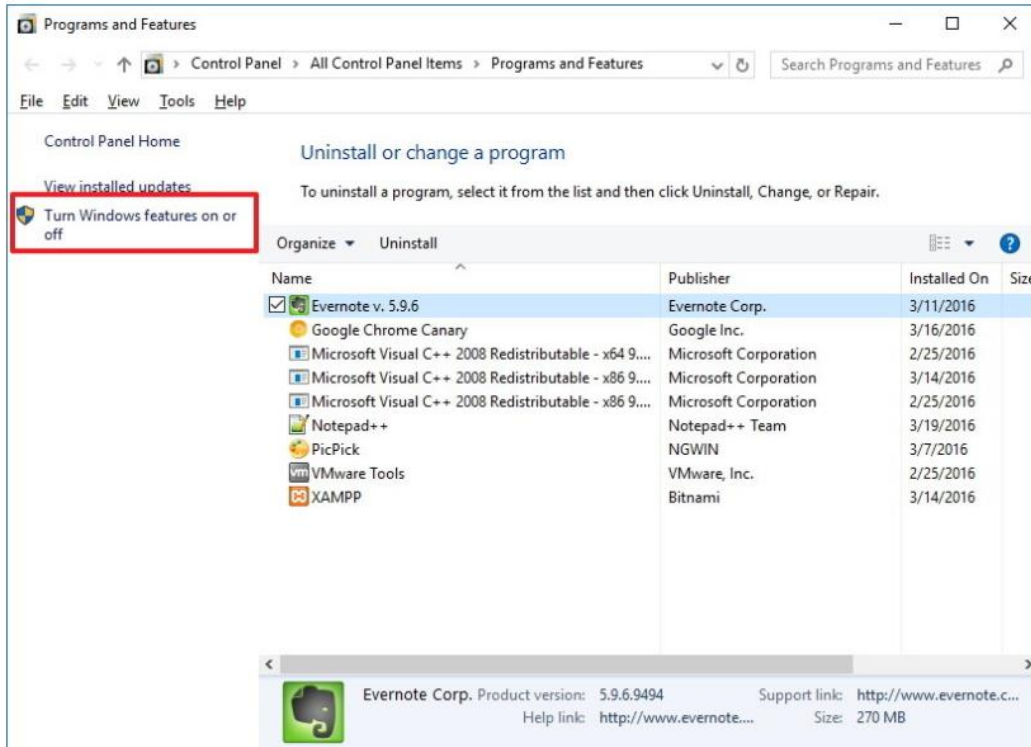
2. Using just the interface of the YJKP, you can find the needed input in the control word on bit 15:

<p><b>dwControlWord</b></p>	<p>DWORD</p>	<p>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</p>
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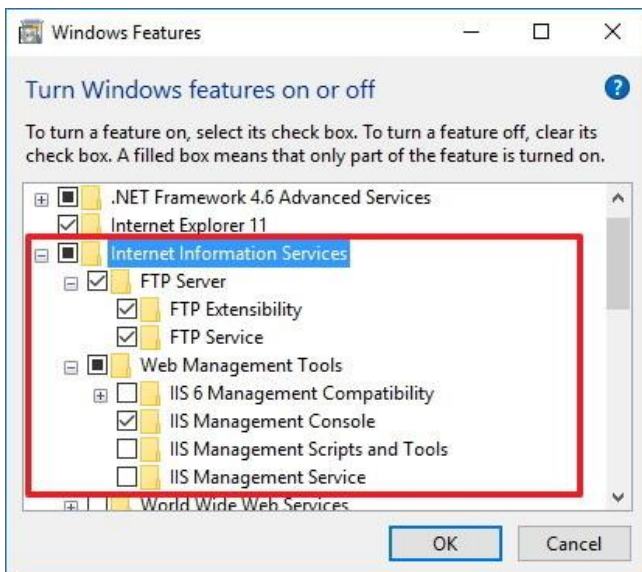
## 6 FTP server on Windows 10

### 6.1 Configure a FTP site

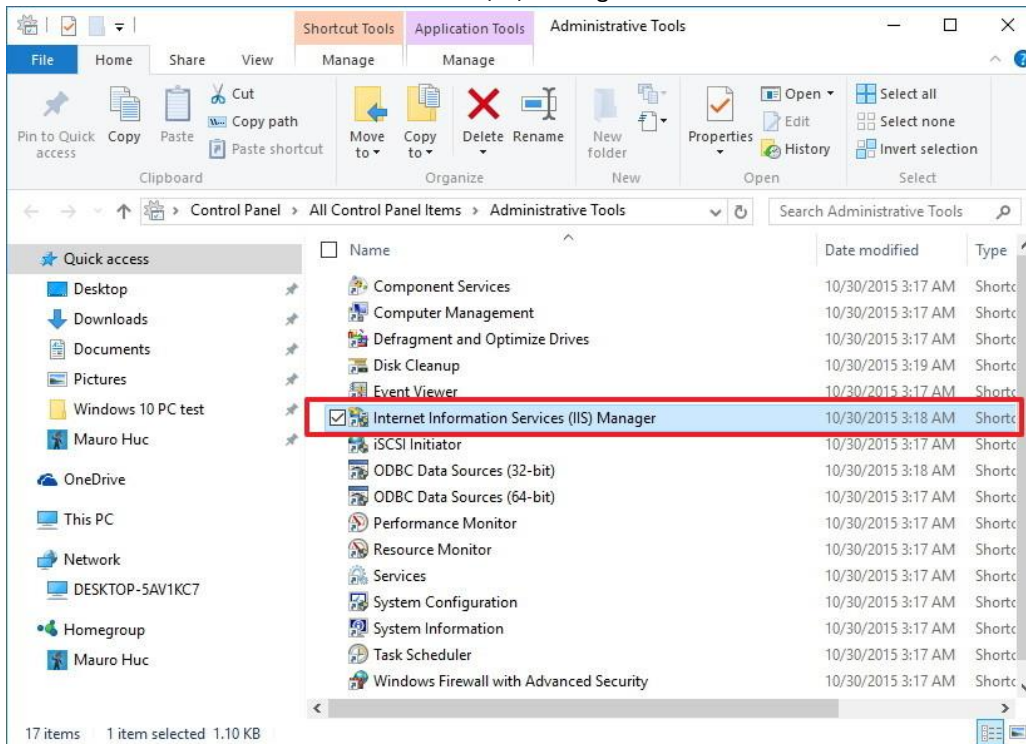
1. Use the **Windows key + X** keyboard shortcut to open the Power User menu and select **Programs and Features**.
2. Click the Turn Windows features on or off link.



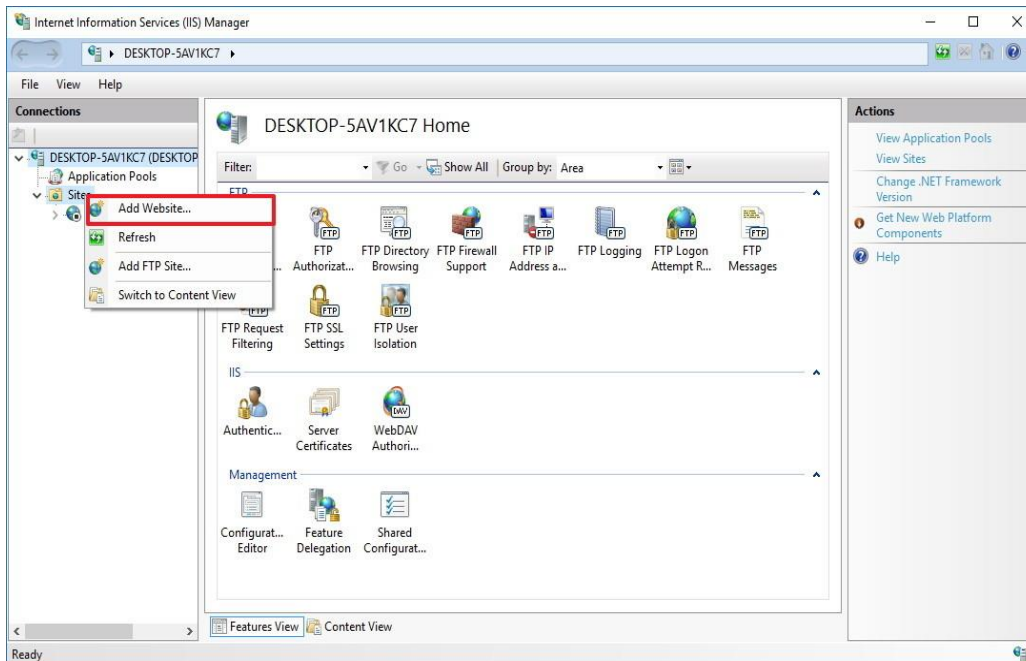
3. Expand Internet Information Services.
4. Expand FTP Server and check the FTP Extensibility and FTP Service options.
5. Expand Web Management Tools and check IIS Management Console.
6. Click **OK** to start the installation.



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.



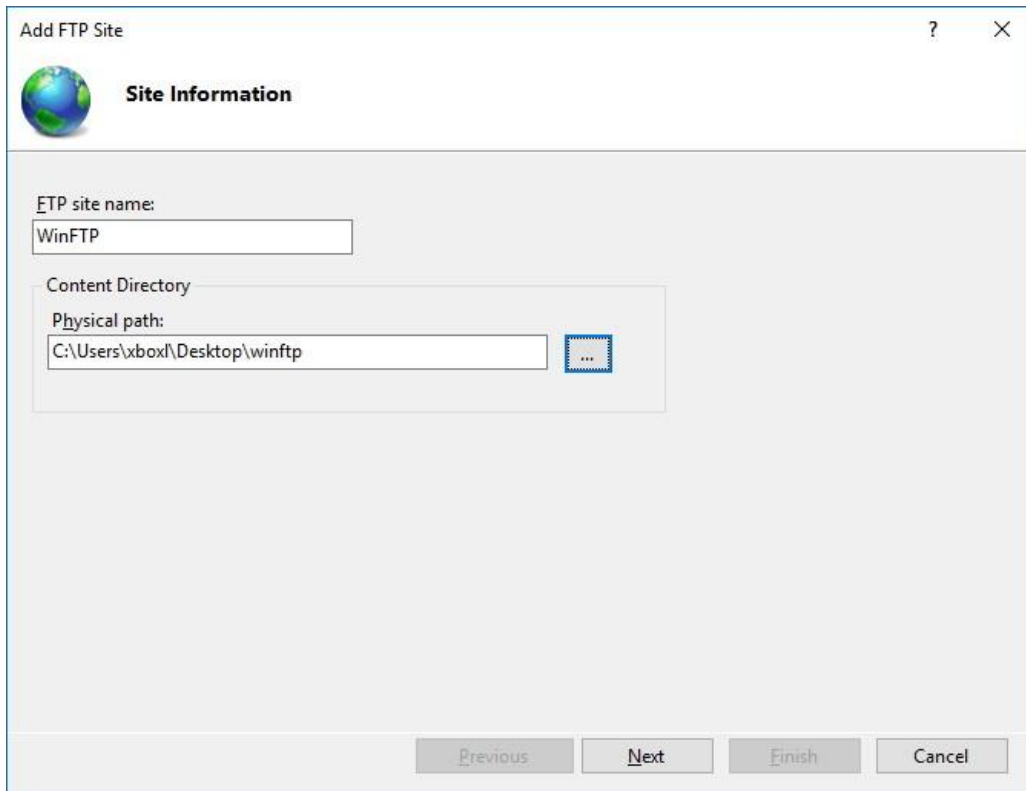
9. Expand and right-click **Sites** on the Connections panel.
10. Select **Add FTP Site...**



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

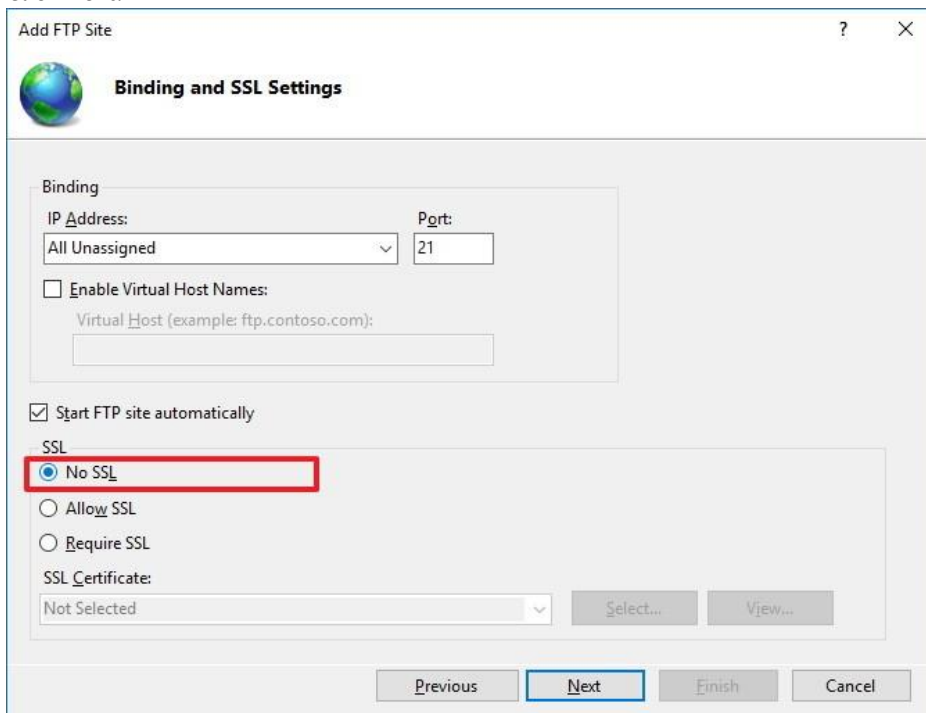
12. Click Next.



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.



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.

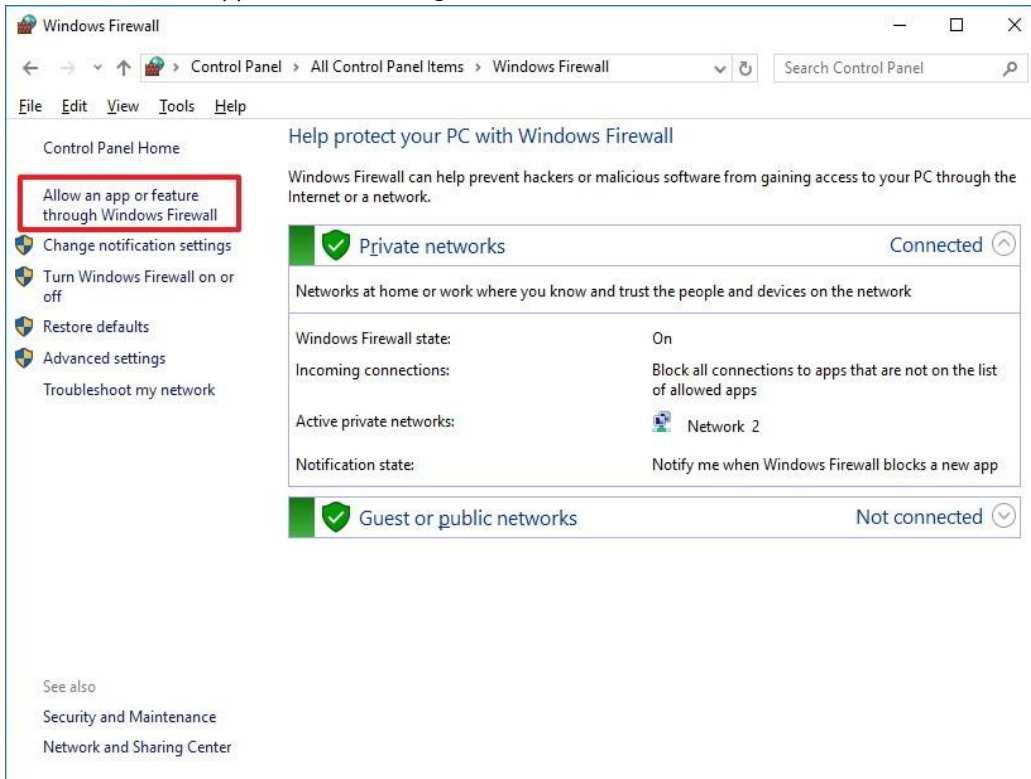
17. Check the options **Read** and **Write**.

18. Click Finish.

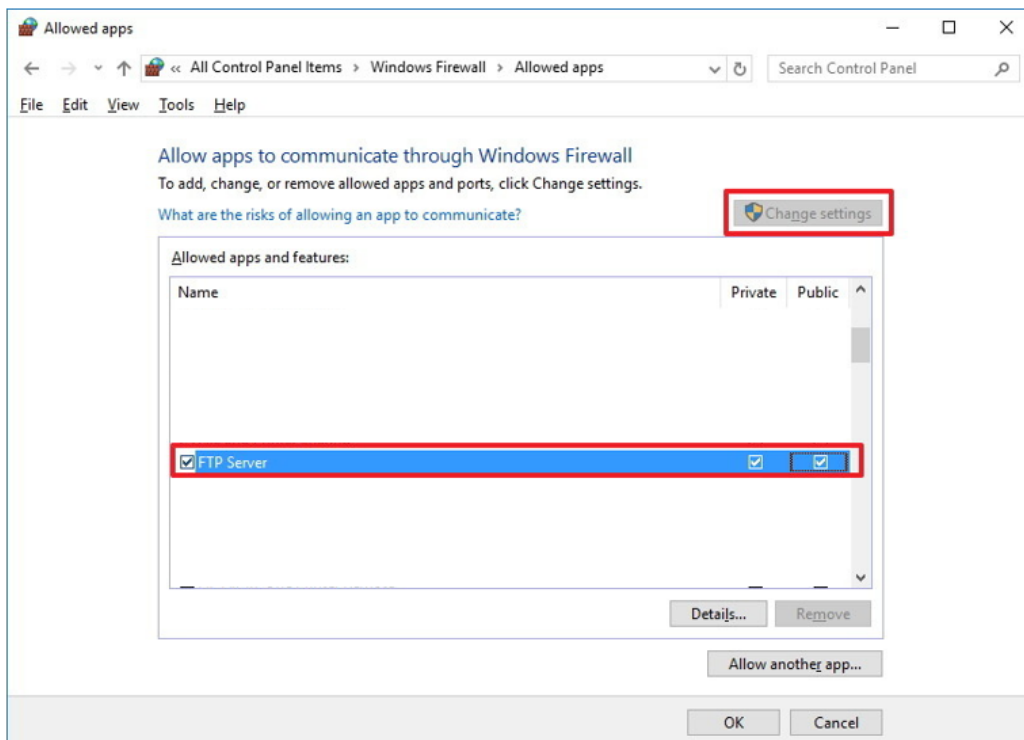
The screenshot shows the 'Add FTP Site' dialog box with the 'Authentication and Authorization Information' tab selected. The 'Authentication' section has the 'Basic' option checked. The 'Authorization' section has 'Specified users' selected in the 'Allow access to:' dropdown, and the 'Read' and 'Write'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

## 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.

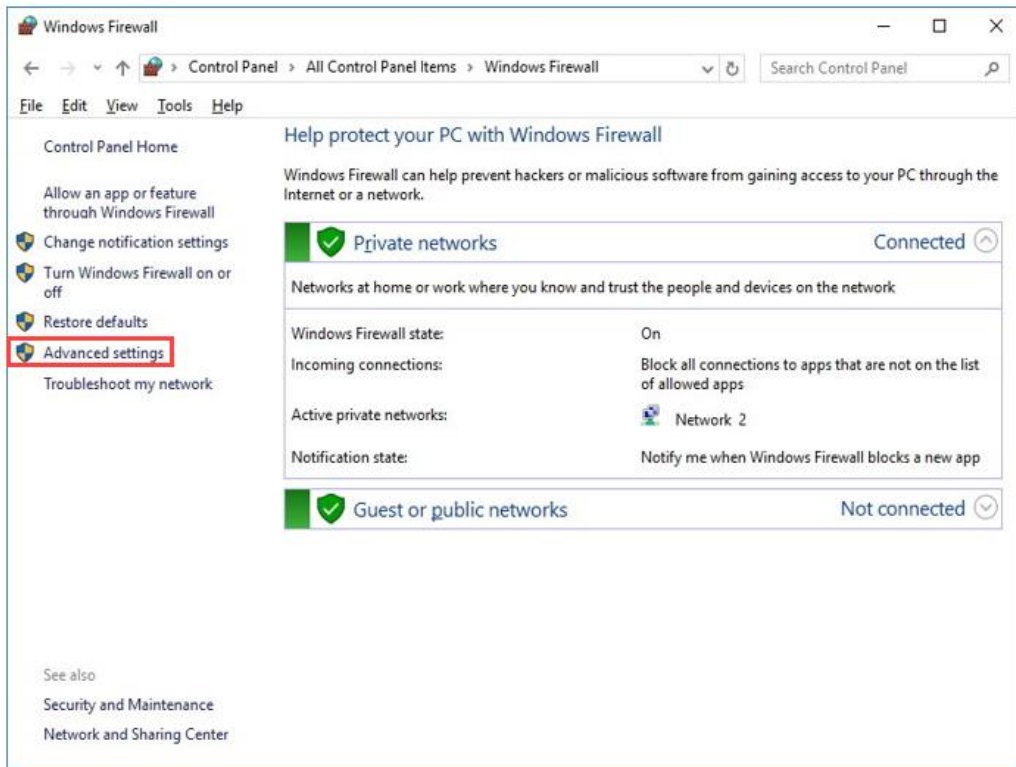


3. Click the **Changes settings** button.
4. Select **FTP Server** and make sure to allow it on a **Private** and **Public** network.
5. Click **OK**.



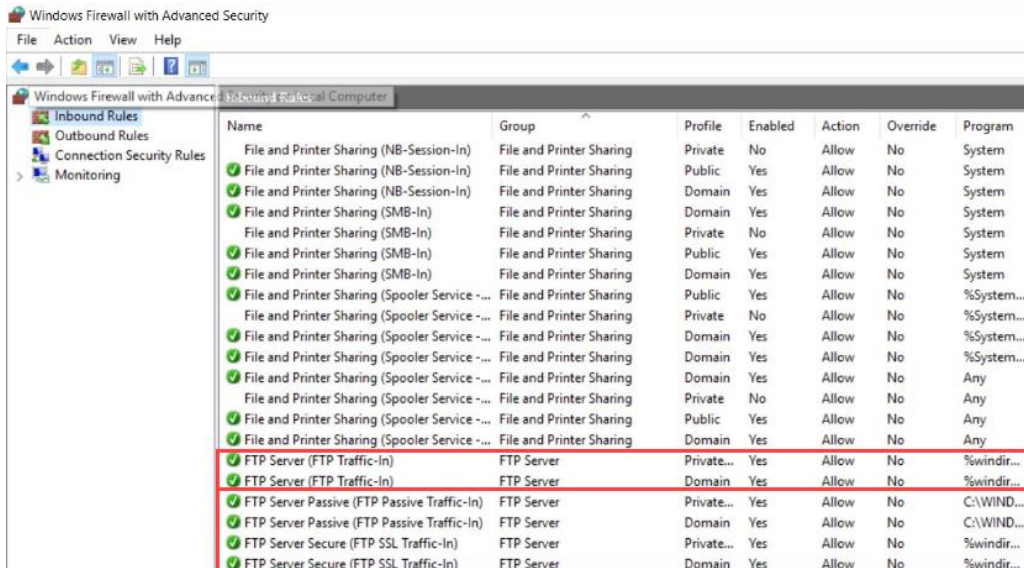
6. Go back to the **Windows Firewall**.

7. Select the **Advanced settings**.



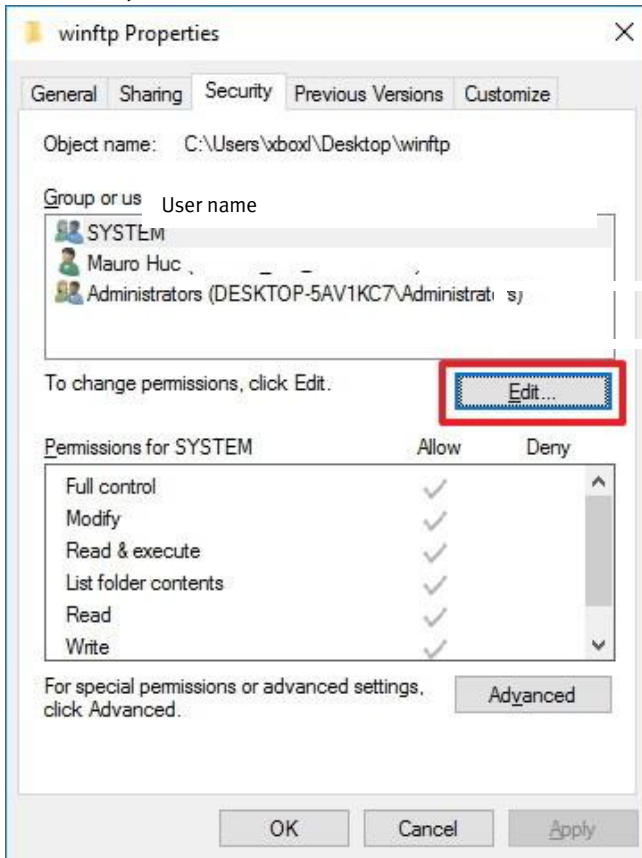
8. Check the **Inbound Rules** for the FileZilla Server.

9. If necessary **guarantee access** for this program (especially first two).



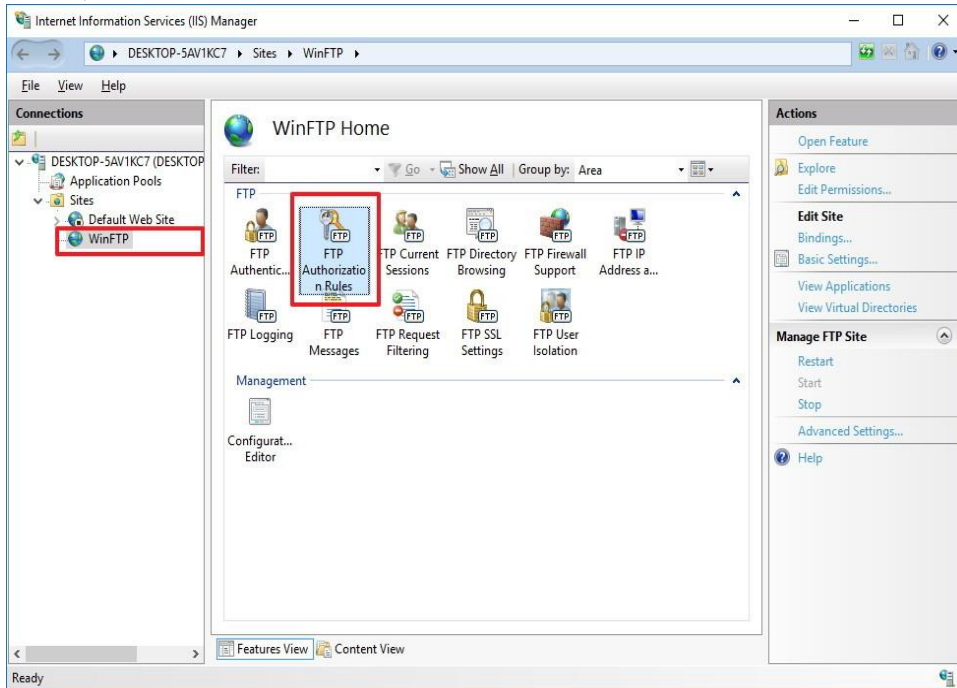
### 6.3 User access to the FTP folder

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**.



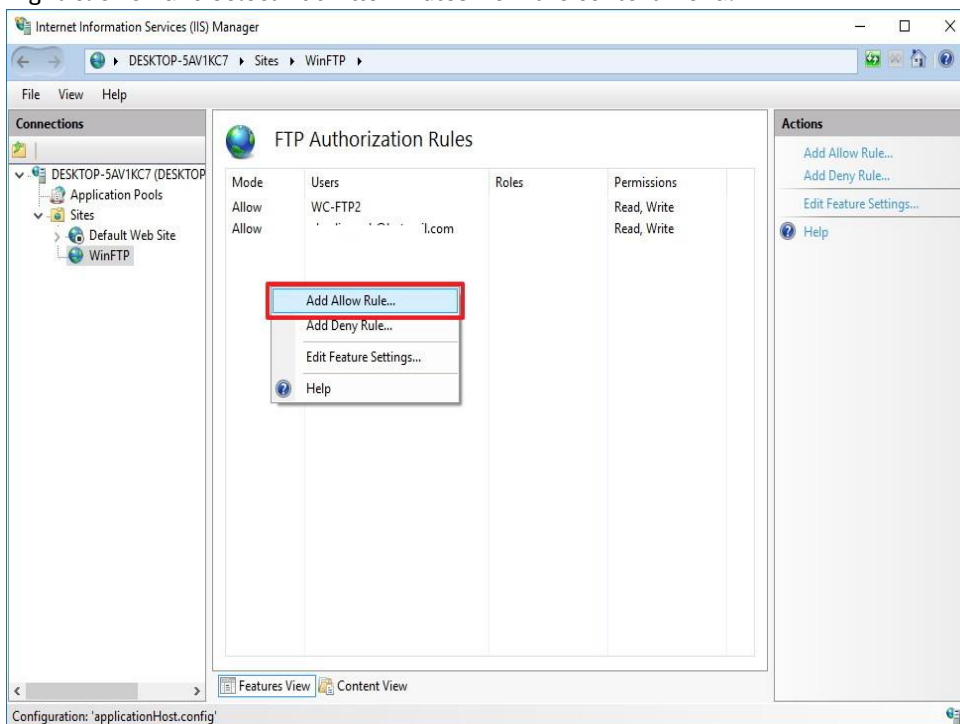
## 6.4 Configure user account to access the FTP server

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**.

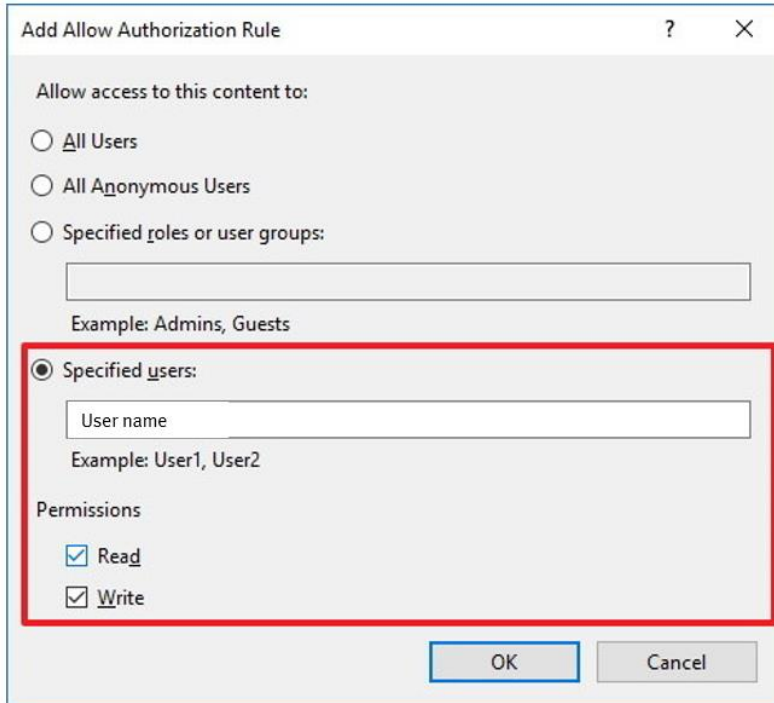


6. At the moment all Users have access to this FTP site. You can change this by adding a new allow rule.

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.



## 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 displays the 'Logging' configuration window. At the top, there is an information icon and the text 'Only for control highness "WebVisu"'. Below this, there are four rows of settings:

- USB**: A red dot indicates it is disabled. A blue button labeled 'Enable USB' is next to it.
- SD-Card**: A red dot indicates it is disabled. A blue button labeled 'Enable SD-Card' is next to it.
- FTP-Server**: A green dot indicates it is enabled. A blue button labeled 'Disable FTP-Server' is next to it.
- SMB-Share**: A red dot indicates it is disabled. A blue button labeled 'Enable SMB-Share' is next to it.

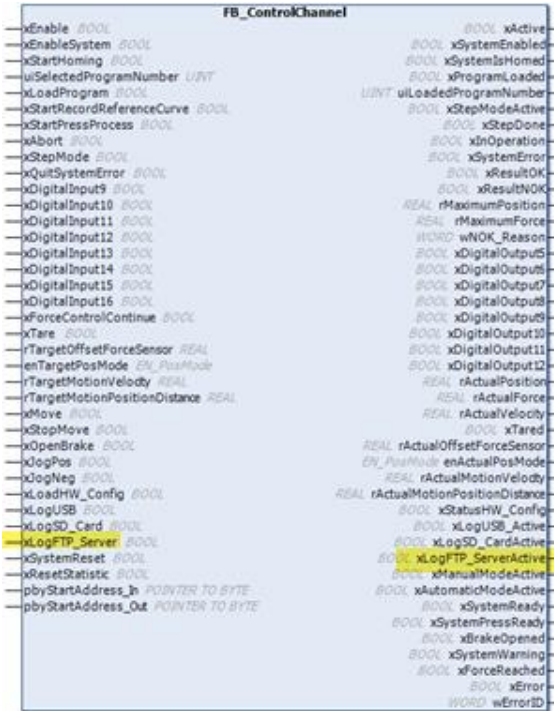
Below the settings, there are two input fields:

- URL**: Contains the text 'ftp://artn:NicePassword123@192.168.0.99'.
- IP-Address**: Contains the text '192.168.0.99'.

At the bottom of the window, there are two buttons: 'Cancel' and 'Save'. The 'Save' button is highlighted. The window title is 'Logging'. In the bottom right corner, there is a 'Logout' button with a user icon. The bottom status bar shows 'Ready' and navigation tabs for 'Commissioning', 'Program', 'Operation', and 'Diagnosis'. The 'FESTO' logo is visible in the top right corner of the window.

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:

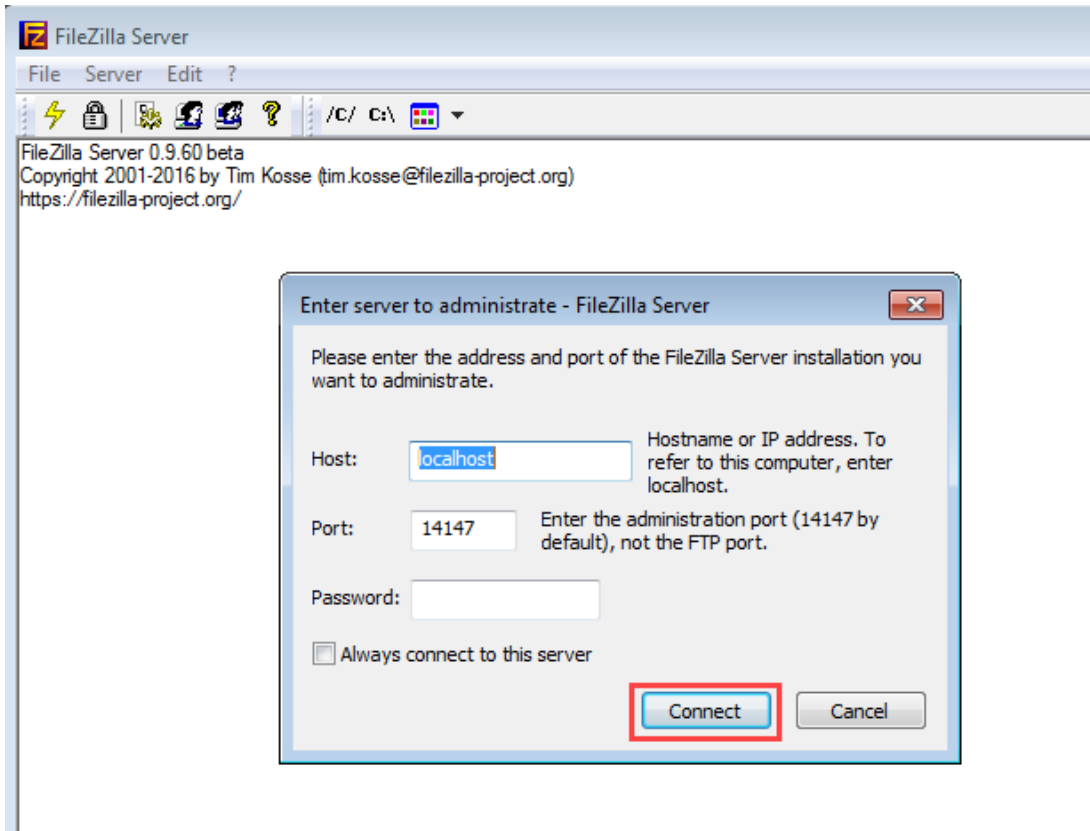


2. Using just the interface of the YJKP, you can find the needed input in the control word on bit 15:

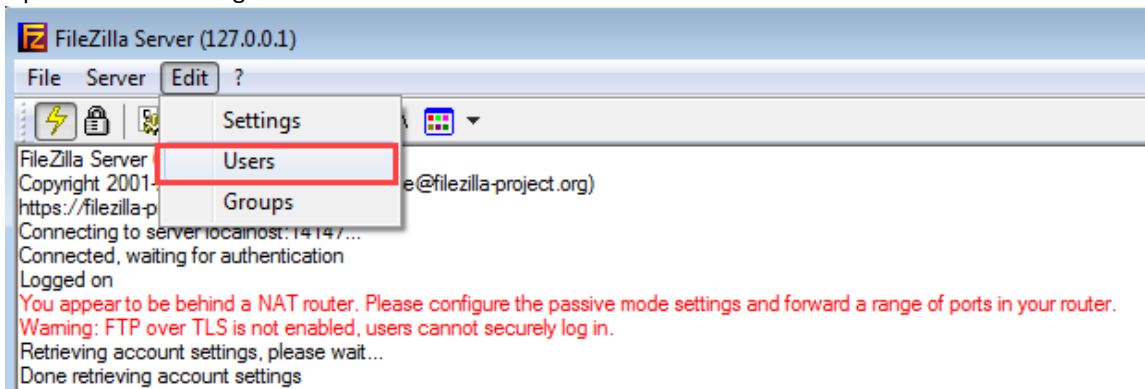
<p><b>dwControlWord</b></p>	<p>DWORD</p>	<p>Control word                  Bit 0 = Manual mode                  Bit 1 = Automatic mode                  Bit 2 = Start homing                  Bit 3 = Start press process                  Bit 4 = Abort press process (low active)                  Bit 5 = Load 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</p>
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## 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**.



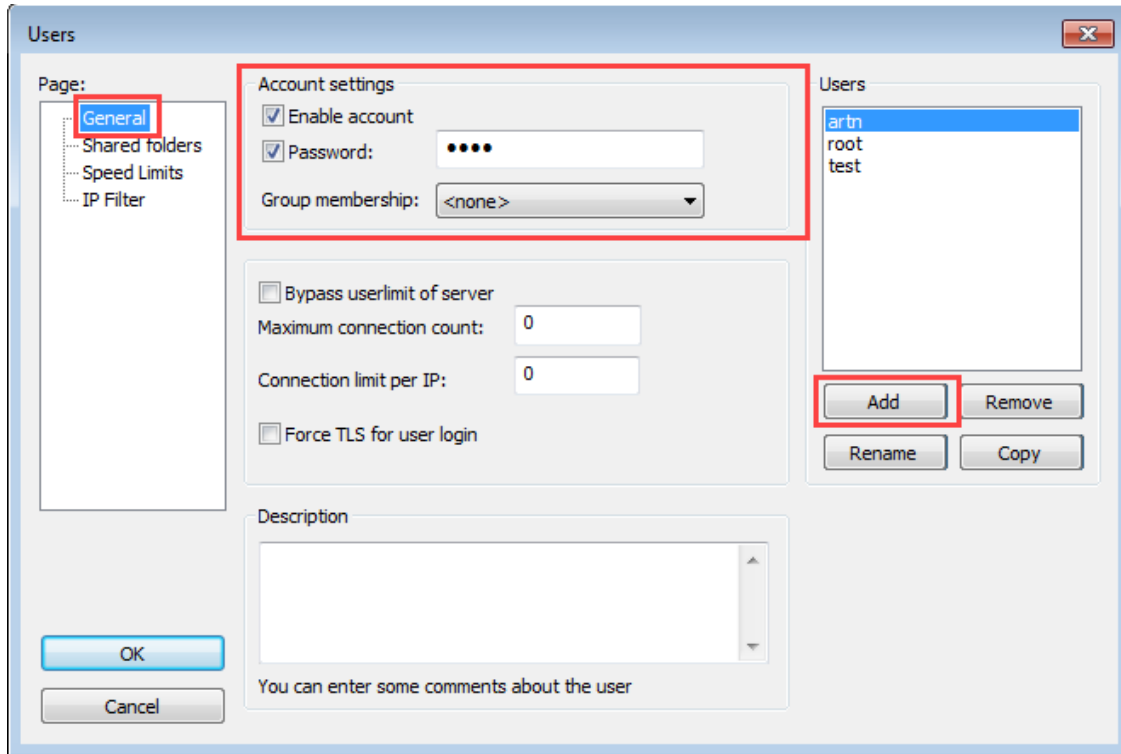
4. Add a **new user** with a **password**.



**Example**

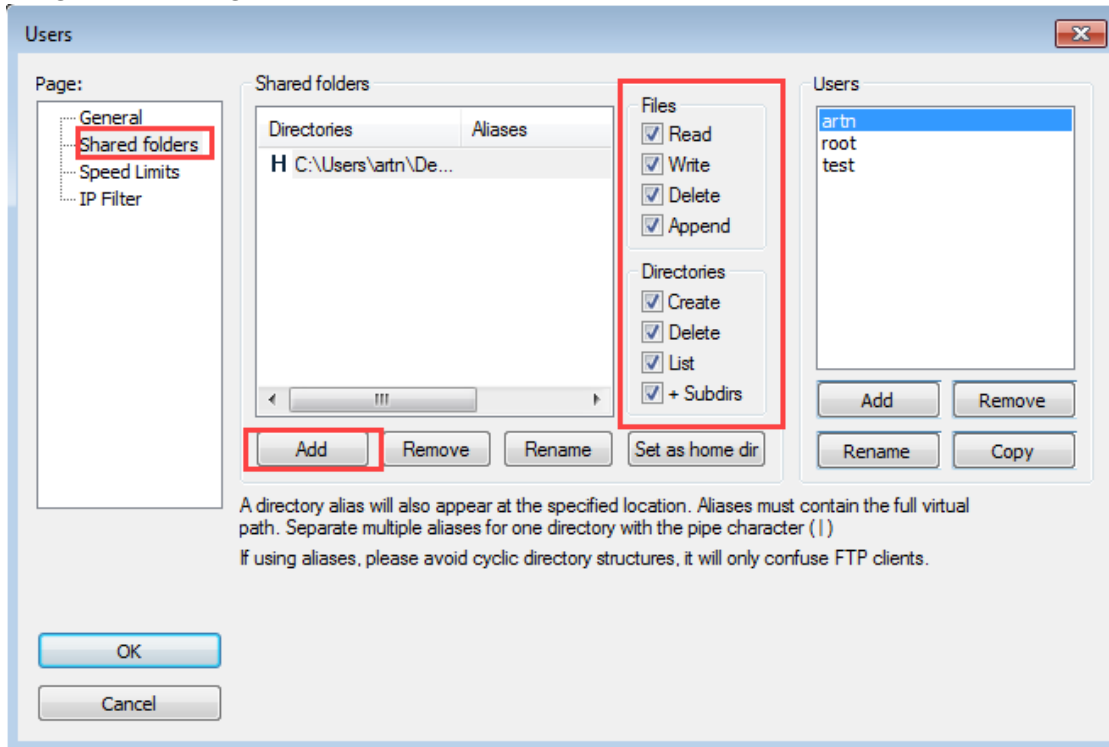
user: artn

password:NicePassword123



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

**Assign** all needed **rights**.

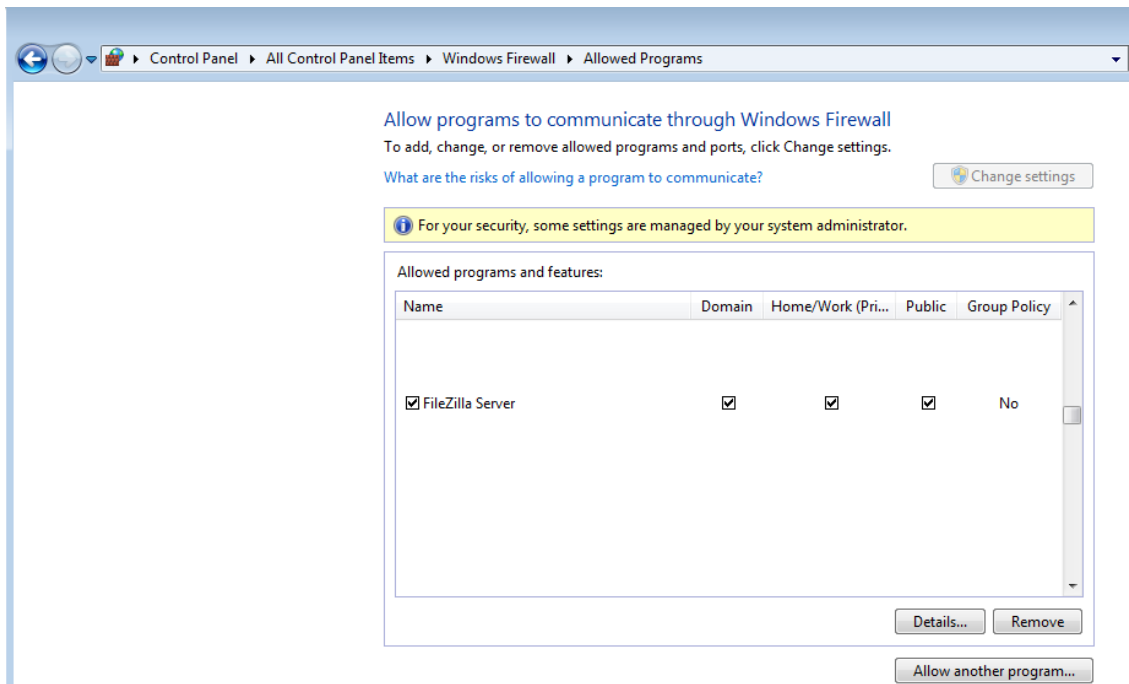


## 7.1 Firewall settings

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

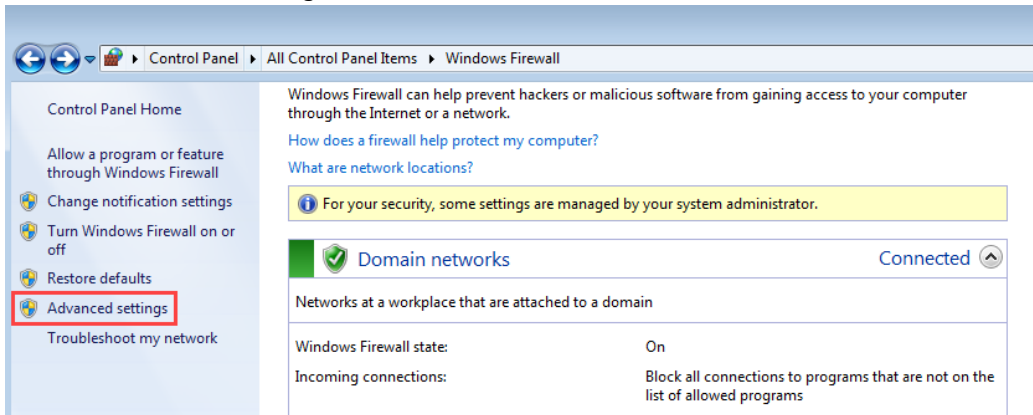


3. Click the **Changes settings** button.
4. Select **FileZilla Server** and make sure to allow it on a **Private** and **Public** network.
5. Click **OK**.



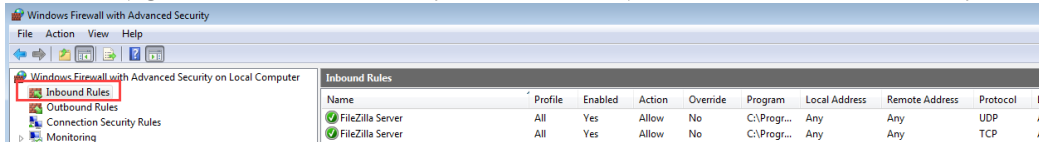
6. Go back to the **Windows Firewall**.

7. Select the **Advanced settings**.



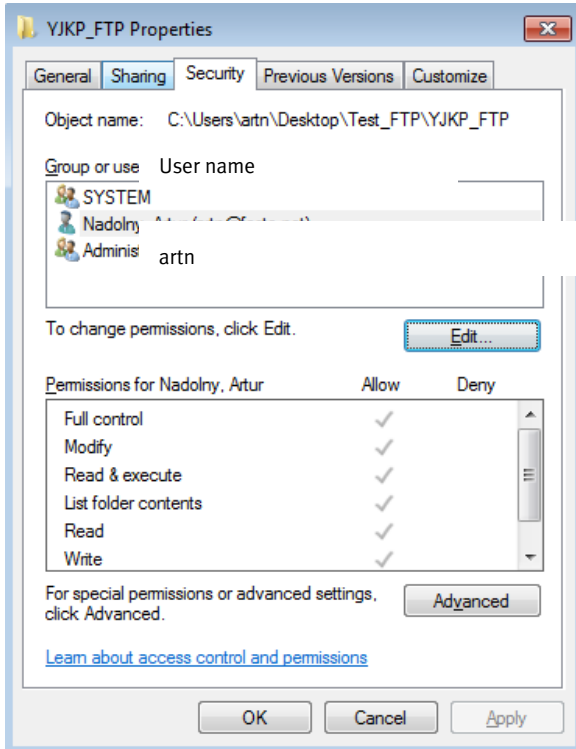
8. Check the **Inbound Rules** for the FileZilla Server.

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



## 7.2 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**.



### 7.3 YJKP WebVisu FTP-Server settings

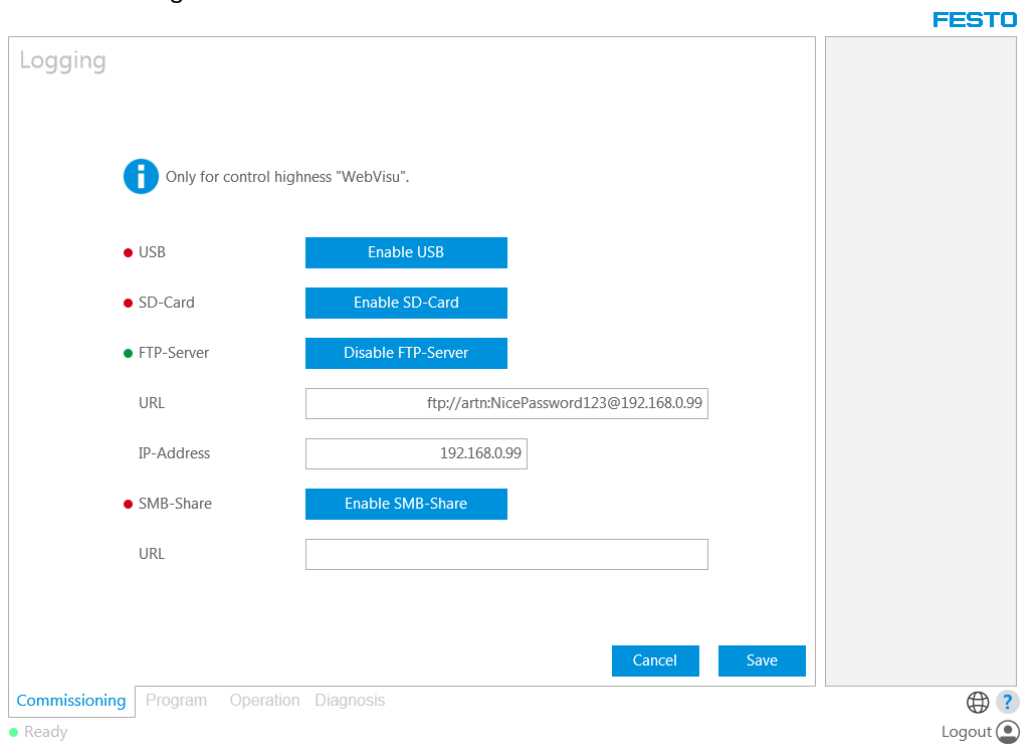
1. Open the **WebVisu** of the YJKP, go to the **Commissioning tab** and select the **logging configuration**.
2. **Enable** the logging on the **FTP-Server**. FTP-Server should now have a **green** spot.
3. URL: ftp://User name:password@IP of server  
IP-Address: IP of server



#### Example

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

4. **Save** the settings



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:



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

		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

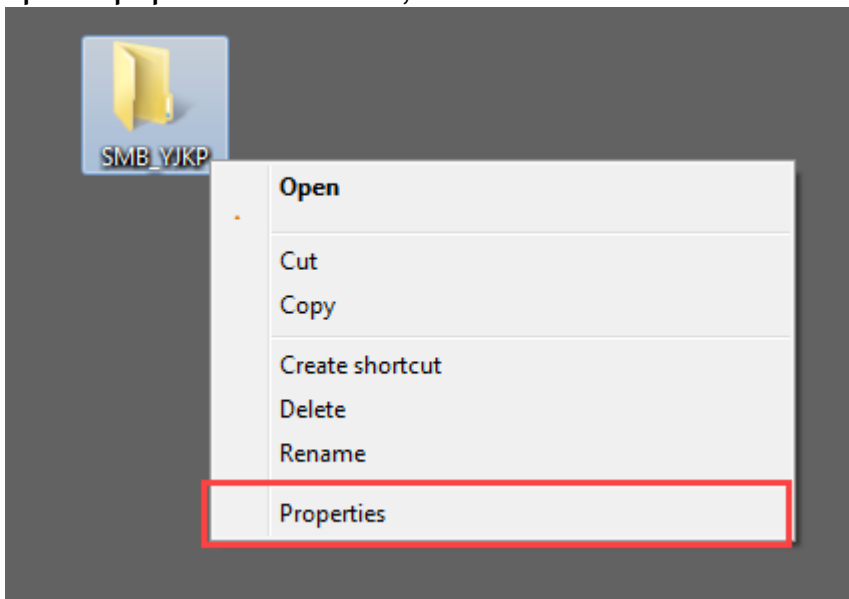
1. **Create a new folder** somewhere on your Windows 7 system.

Here on the desktop:

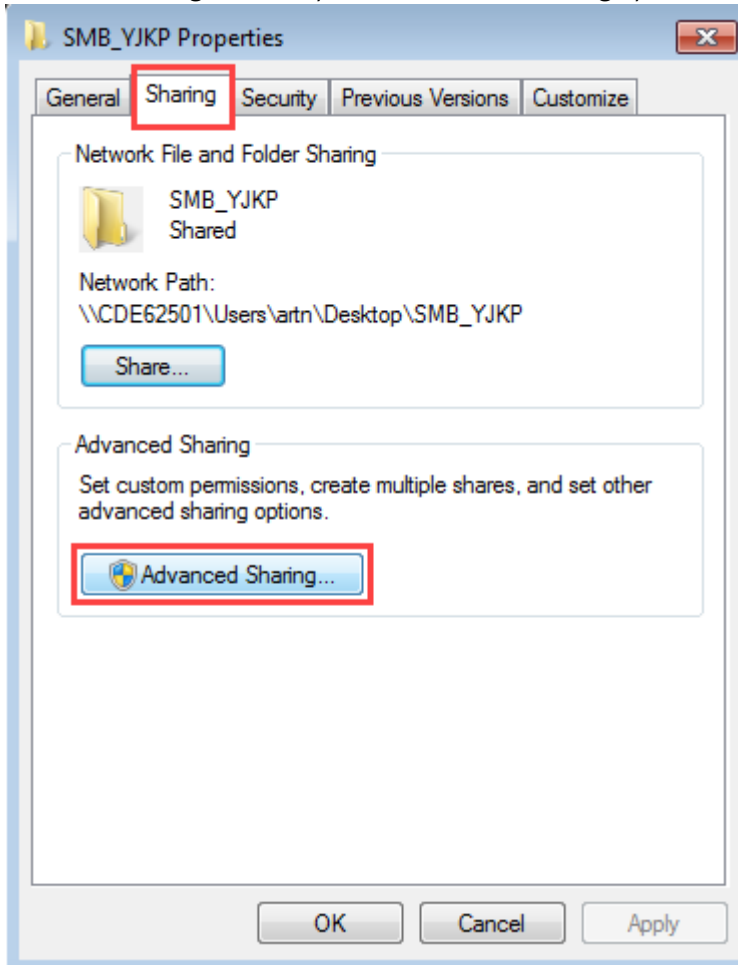


2. In this example we will open this folder to everyone with full excess. Other settings are up to the user.

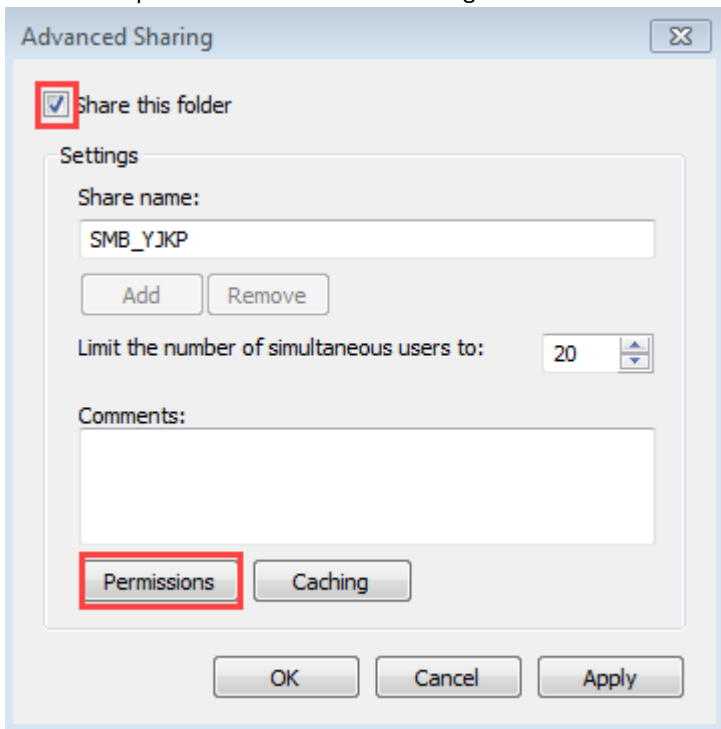
**Open the properties** of this directory.



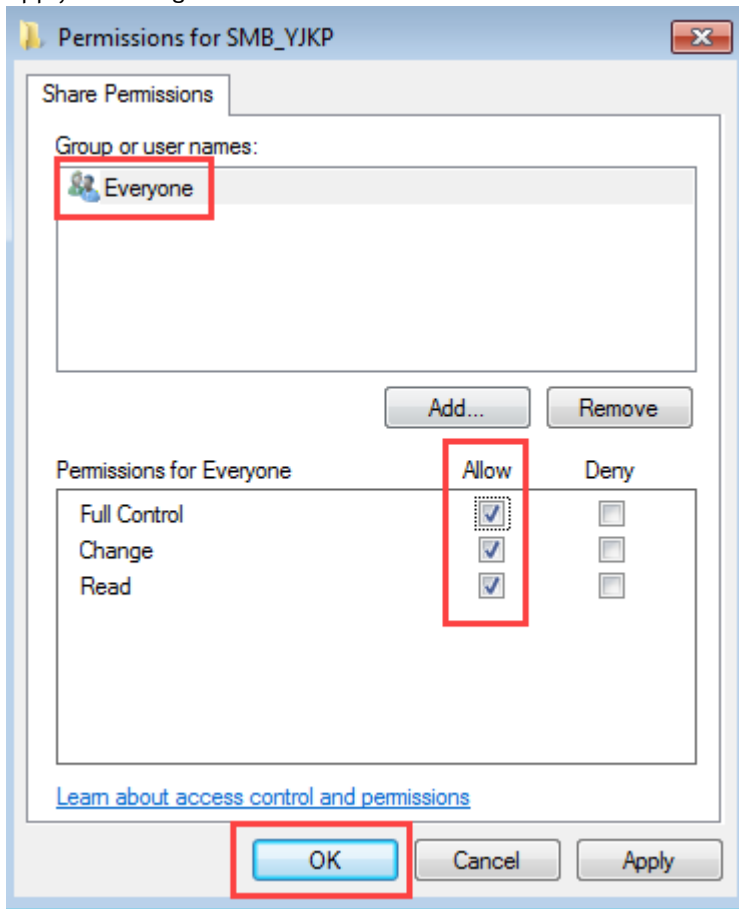
3. Go to the **Sharing** tab and open the **Advanced Sharing** option:



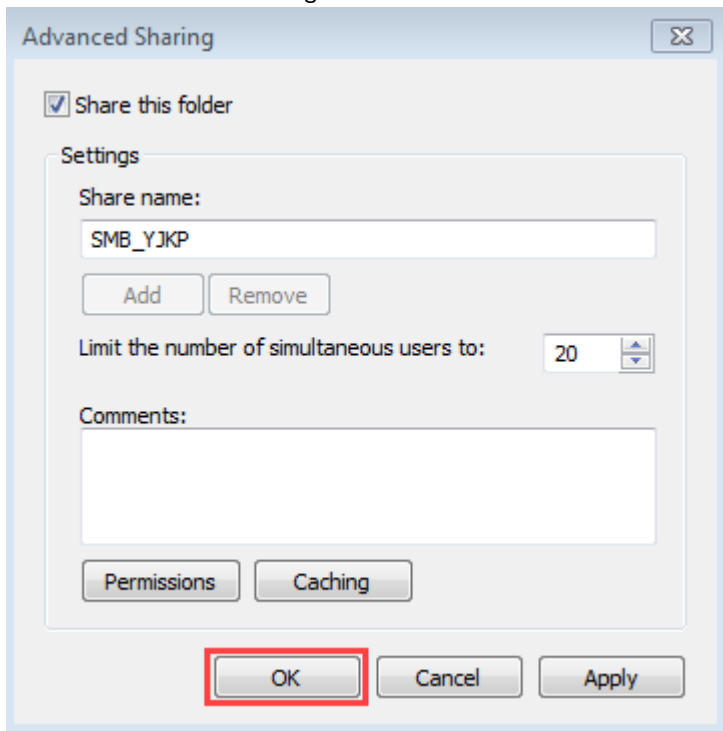
4. Check the option “Share this folder” and go to Permissions.



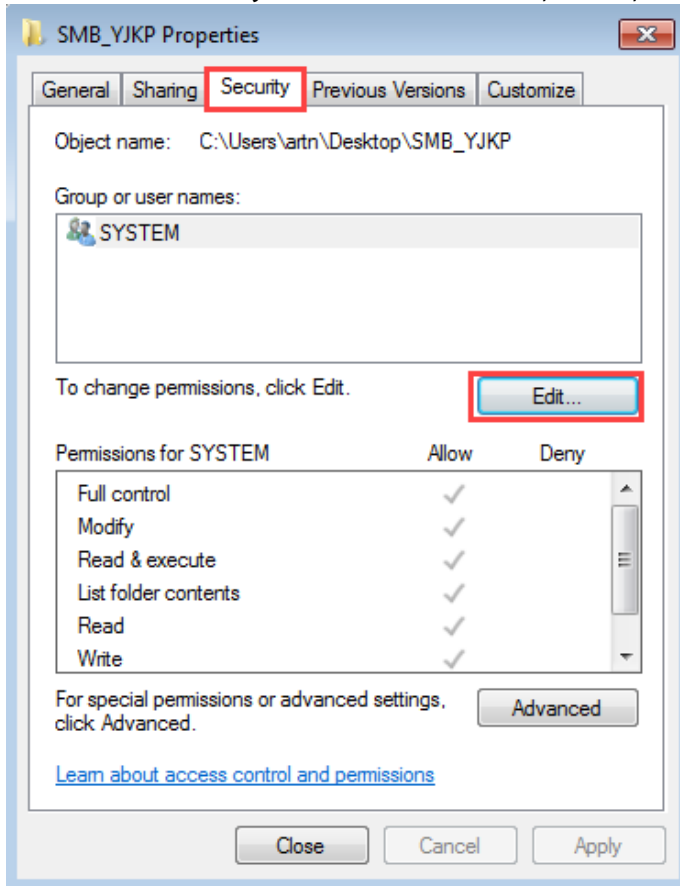
5. Use the group “**Everyone**” and check the permissions to **Full Control**. Apply the changes and close this window with **OK**.



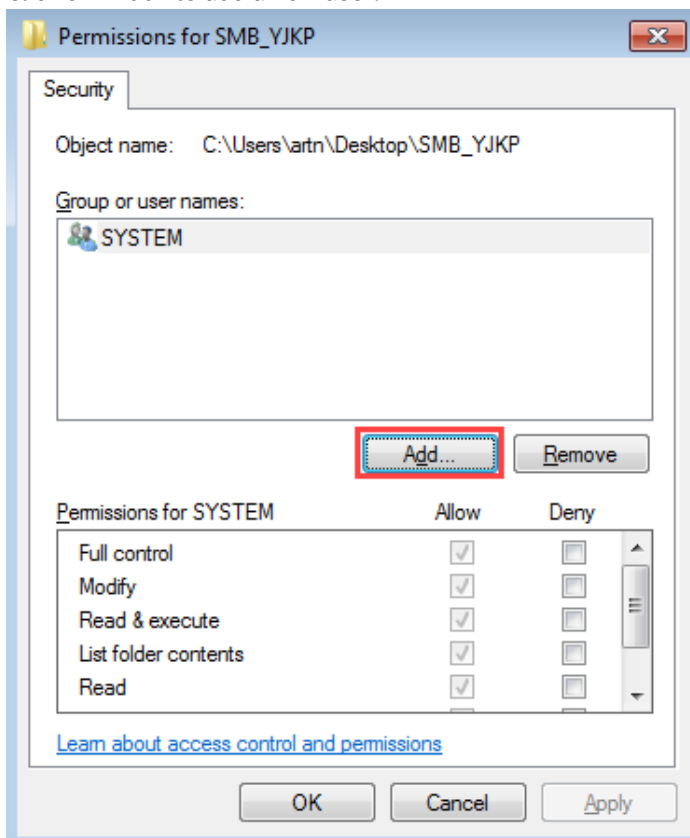
6. Close the Advanced Sharing window with **OK**:



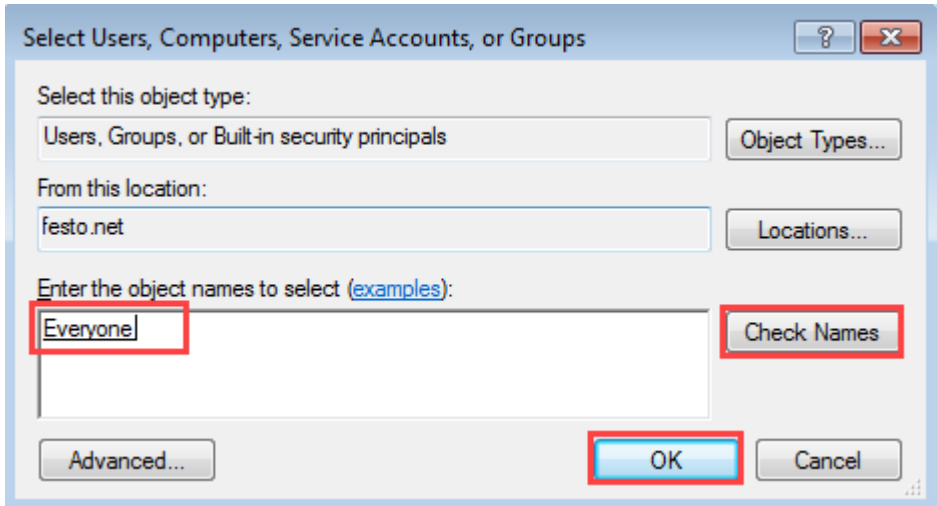
7. Go to the tab **“Security”** and click on **“Edit”** to open the permission settings:



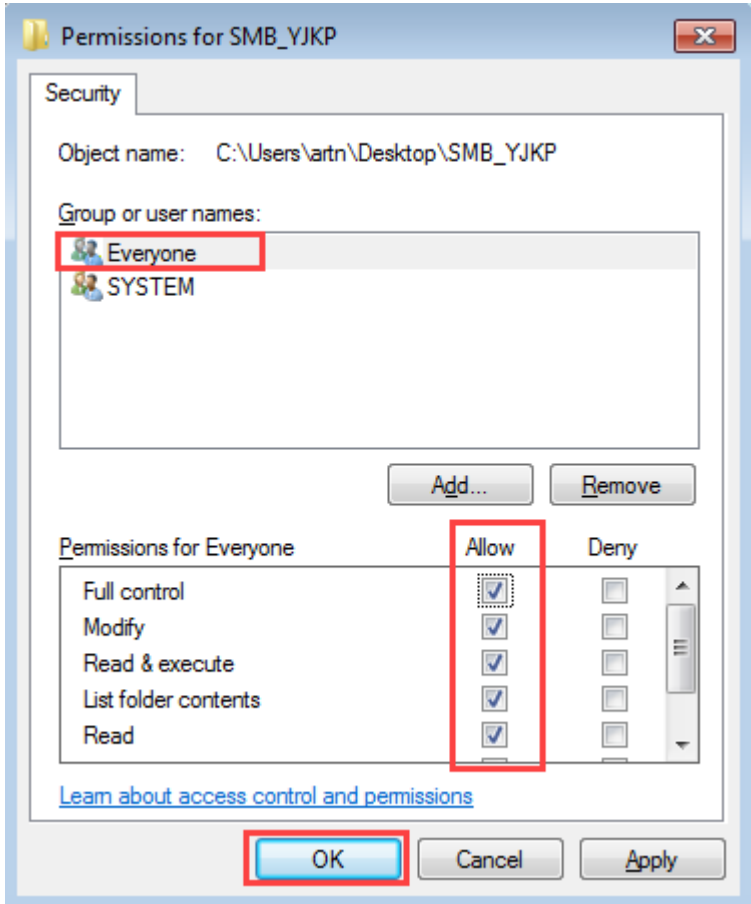
8. Click on **“Add”** to add a new user:



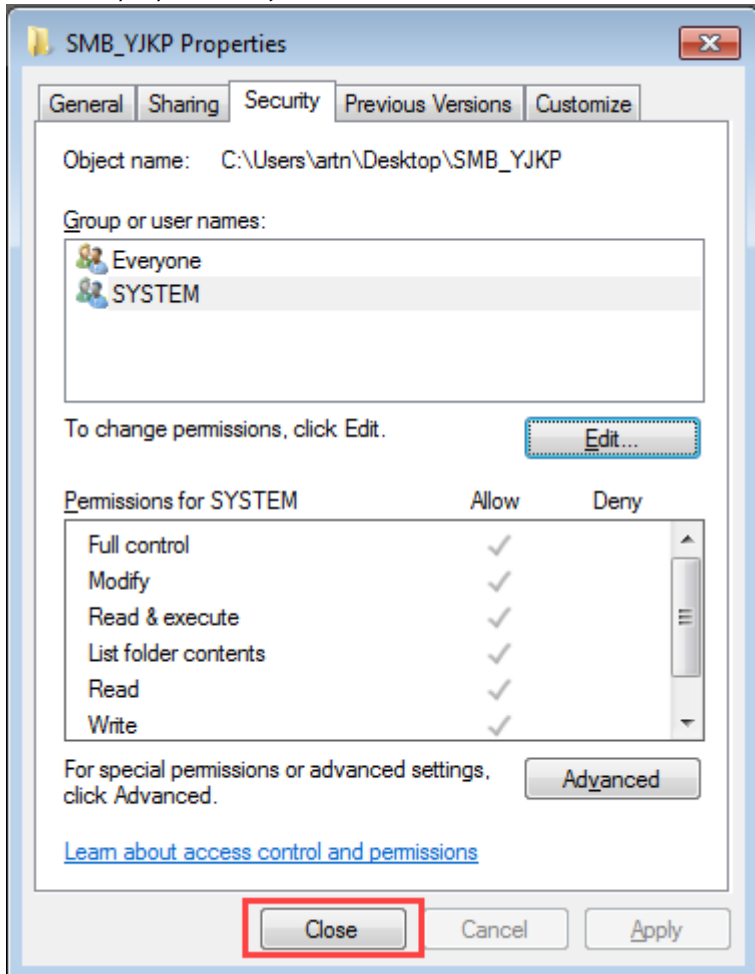
- 9. Enter the user “Everyone”, click on “Check Names” and confirm it with “OK”.  
The window will close.



- 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

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 shows the 'Logging' configuration window in the Festo WebVisu. It features a 'Commissioning' tab and a 'Ready' status indicator. The configuration options include USB, SD-Card, and FTP-Server, each with an 'Enable' button. The SMB-Share section is highlighted with a red box, showing a 'Disable SMB-Share' button and a URL field containing 'user=abc,password=Win-password //192.168.0.99/SMB\_YJKP'. The 'Save' button is also highlighted with a red box. The interface includes a 'FESTO' logo, a 'Logout' button, and a 'Ready' status indicator.


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

Table 9.1: Object directory parameters

## 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:

1. Set following inputs:
  - a. "Access Type" to 0x01 (Write).
  - b. "Access Option" to 0x00 or 0x01 (Single character or multiple characters).
  - c. "Object Index" to 0x2102.
  - d. "Object Subindex" to 0x00.
  - e. "Object Data Type" to 0x08 (Unsigned short integer).
2. If serial number contains multiple characters, set input "Data Length To Be Written" to the length of serial number plus 4. Extra four bytes are for the first four bytes of the array, which should be left empty.



### Example

Serial number = ABCDE → Data length to be written = 9

3. 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].
4. Set input "Execute" to true.
5. Output condition of write variable done.
  - a. "Done" = true
  - b. "Busy" = false
  - c. "Acknowledge" = 0x00
  - d. "Error" = false