

#### PURPOSE

This guide describes how to setup an FTP server on a PC so that a Q.station can send data to it directly via FTP. The configuration and operation of the Q.station will be reviewed also.

### FIREWALL SETTINGS

Please follow our Firewall & Network Settings guide to properly configure your firewall with use of the Gantner system. In addition to that configuration, we will be adding exceptions for the FTP server. (e.g. Filezilla)

### PROCEDURE

Please follow our Firewall & Network Settings guide to properly configure your firewall with use of the Gantner system. In addition to that configuration, we will be adding exceptions for the FTP server (e.g. FileZilla). Also make sure your PC's Ethernet port has a static IP address.

- Download and install a FTP server Example: FileZilla - <u>https://filezilla-project.org/</u> Download and install the latest version of the FileZilla Server
- 2. Add FileZilla as an exception to Windows Firewall or turn Firewall off
  - a. Open Control Panel
  - b. Navigate to System and Security  $\rightarrow$  Windows Firewall
  - c. On the left-hand menu select Allow a program or feature through Windows Firewall
  - d. From the list, select **FileZilla Server** and **FileZilla Server Interface** or select Allow another program if the programs aren't already listed.
    - i. If not on the list select Allow another program
    - ii. In the next window scroll and find the 2 programs
    - iii. If not listed there select Browse and navigate to the installation directory1. C:\Program Files (x86)\FileZilla Server
    - iv. Select one program and click Open, repeat for second program
    - v. Select one program and click Add, repeat for second program
    - vi. For each program click the check the boxes then click OK.
- 3. Run the FTP Server. Use the default settings and click OK.
  - a. Server Address: 127.0.0.1
  - b. Port: 14147



- 4. Edit > Settings
  - a. Under General settings set the listening port to 21

FileZilla Server Options			×
General settings	General settings Connection settings		FileZilla Server
	Listen on these ports: Max. number of users:	21 0	List of ports between 1 and 65535. These ports are used both for plain FTP and explicit FTP over TLS. (Default port: 21) (0 for unlimited users)
	Performance settings <u>N</u> umber of threads:	2	This value should be a multiple of the number of processors installed on your system. Increase this value if your server is under heavy load.
	Timeout settings		
	Connections timeout:	120	in seconds (1-9999, 0 for no timeout).
	No <u>T</u> ransfer timeout:	600	in seconds (600-9999, 0 for no timeout). This value specifies the time a user has to initiate a file transfer.
	Login timeout:	60	in seconds (1-9999, 0 for no timeout). This value specifies the time in which a new user has to login.
ок			
Cancel			

b. Under Passive mode settings and the IPv4 specific, select Use the follow IP. Enter the static IP address of the PC. Click OK.

FileZilla Server Options				
General settings	Passive mode settings	FileZilla Server		
	Use custom port range: 0 - 0	(1-65535)		
	IPv4 specific External Server IP Address for passive mode transfers: Default Use the following IP: 192.168.1.21 You can also enter hostnames Detrive external IP address from:	Use custom PASV settings if you are operating the server from behind a NAT router or a firewall. In that case, the IP address of the server is not accessible from outside of the router, so you should fill in the correct address here. Use the port range to limit the number of ports that will need to be forwarded through the router.		
	http://ip.filezilla-project.org/ip.php (Default: http://ip.filezilla-project.org/ip.php)			
	Information for users with dynamic IPs: If your external IP changes, it might take up to 5 minutes after the next failed transfer unti FileZila Server recognizes the changed IP. In most cases, the IP is updated within 30s after a failed transfer.			
ОК	Don't use external IP for local connections			
Cancel	You can use this site to test that your settings wo https://ftptest.net/	ork correctly:		

- 5. Edit > Users
  - a. Under the General section, click Add below Users. Enter a name and click OK.

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Add user account			
Please enter the <u>n</u> ame of the user account that should be added:			
User1			
User should be member of the following group:			
<none></none>			
<u>Q</u> K <u>C</u> ancel			

- b. Click the box for Password and enter a password
- c. Go to the Shared folders section and click Add under Shared folders. Select or create a directory where you would like the data files to be stored.
- d. For this folder, make sure to give the full permissions and set as home directory:

Users				×
Page: General Shared foldersi Speed Limits IP Filter	Shared folders Directories H CAFTP  Add Rea A directory alias will also path. Separate multiple ff using aliases, please a	Aliases move Rename Pappear at the specifier aliases for one directory avoid cyclic directory st	Files Read Write Velete Pelete Create Delete Vist V + Subdirs Set as home dir docation. Aliases mus with the pipe charact ructures, it will only con	Users Users Users Add Remove Rename Copy t contain the full virtual er (1) rfuse FTP clients.
OK Cancel				

e. Go to the Speed Limits section, set No Limit for both Download and Upload



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Users		X
Page: 	Download Speed Limit  Default  Download speed Limit  Add  Remove  Limit  Download speed limit  Remove  Limit  Download speed limit	Users
	Up Down Upload Speed Limit Default Dofault Ocgstant Speed Limit of Ug Speed Limit of Ug Speed Limit follow KB/s	Add Remove Rename Copy
OK Cancel	Add Remove Up Down	

f. Click OK to save settings.

#### **Q.station Configuration**

1. Download and install the latest version of test.commander from our website: <u>http://www.gantner-instruments.com/us/downloads/</u>



3. Double-click the controller to bring up the controller settings. Navigate to Host Interface > FTP > Client settings

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λ <sub>W</sub> <sup>G</sup> Q.station 101 DT 192.168.1.28 (@192.168.1.28) Undef	
Name	Value
😥 😂 Settings	
😥 😂 Slave interface	
🖨 🏐 Host interface	
🕀 🖼 Fieldbus	
🗎 🗎 🥞 <u>ETHERNET</u>	
📄 🔄 ETP	
🕀 🖄 Server settings	
🖻 🧠 Client settings	
🗄 📝 Configuration mode:	manually
🕀 😂 Network drives	
😟 🖼 SNTP	
🖶 🥞 e-mail	
🕀 😫 Dataport	
🕀 😋 <u>General</u>	
🕀 😂 USB devices	
🕀 🥞 Sample rate	

4. Set the Configuration mode to manually. Expand this section.

 Change the FTP connection count from 0 to 1. Change the connection settings: Server address: The static IP of the PC. Username: The username setup in the FTP server. Password: The password for the user account. Port: The listening port of the FTP server (e.g. 21) Use passive mode: No Type: unknown Directory: Leave blank

<sub>ለሚ</sub> Q.station 101 DT 192.168.1.28 (@192.168.1.28) Undef	- 0 <b>X</b>
Name	Value
Settings     Save interface     Host interface	
Client settings  Client vatchdog timeout [s]  Client watchdog timeout [s]  Client watchdog timeout [s]  Client watchdog timeout [s]  Client keep alive repeat time [s]  Client watchdog timeout [s	manually 120 100 30 1 192.168.1.25 User1 6 21 No unknown /Data



- 6. Click OK to save the settings.
- 7. Back in the project window, highlight the controller and select Logger configuration



- 8. Configure the logger: select the channels to save, assign triggers, the main destination to save the data.
  - To send data to a FTP server, place a check mark next to "Send data additionally to ftp-server" and select the pre-configured FTP server. Click OK to save the settings.





- 9. Write the updates to the controller: File > Write Project (Update)
- 10. Start the logger (i.e. trigger level, event condition, continuous)
- 11. The data files can be found in the folder specified in the FTP server settings

Computer 🕨 OSDisk (C:	:) ► FTP		✓ Search FTP	٩
Organize 🔻 Include in library 🔻	Share with 🔻 Burn New folder		= •	
> 1 Favorites	Name	Date modified	Туре	Size
	Datalogger_#10_2018-01-19_13-57-30_0	1/19/2018 12:58 PM	DAT File	1 KB
D Ibraries	Datalogger_#10_2018-01-19_13-58-00_0	1/19/2018 12:58 PM	DAT File	1 KB
	Datalogger_#10_2018-01-19_13-58-30_0	1/19/2018 12:58 PM	DAT File	1 KB
🛛 🖓 Homegroup	Datalogger_#10_2018-01-19_13-59-07_0	1/19/2018 12:58 PM	DAT File	1 KB
	Datalogger_#10_2018-01-19_13-59-30_0	1/19/2018 12:58 PM	DAT File	1 KB
🛛 🖳 Computer	Datalogger_#10_2018-01-19_14-00-00_0	1/19/2018 12:58 PM	DAT File	1 KB
-	Datalogger_#10_2018-01-19_14-00-32_0	1/19/2018 12:58 PM	DAT File	1 KB
🛛 🖣 Network	Datalogger_#10_2018-01-19_14-01-00_0	1/19/2018 12:59 PM	DAT File	1 KB 🚽
	•			•
347 items				

12. These .dat files can be viewed using test.viewer and converted into other formats such as CSV.