

Technical Information

Power Switching & Monitoring

FTP and FTPS server configuration



SOMMAIRE

- Introduction 3
- Concerned products..... 3
- FTP server configuration with Webview-L 3
- FTP server configuration with Webview-M/Web-config..... 9
- FTP server configuration with WEBVIEW-S..... 12
- FTPS server configuration with Webview-M/Web-config..... 15

INTRODUCTION

An FTP (File Transfer Protocol) server is a software used to transfer files between two entities. An entity can be a PC, an H80 datalogger or a Diris Digiware gateway, etc...

Generally speaking, an FTP server installed on a computer allows files to be downloaded, read, modified or deleted remotely by a user via the Internet or a local network.

Nowadays, the FTP server is mainly used for uploading, editing or saving data.

CONCERNED PRODUCTS

A file upload to an FTP server can be done with the following products:

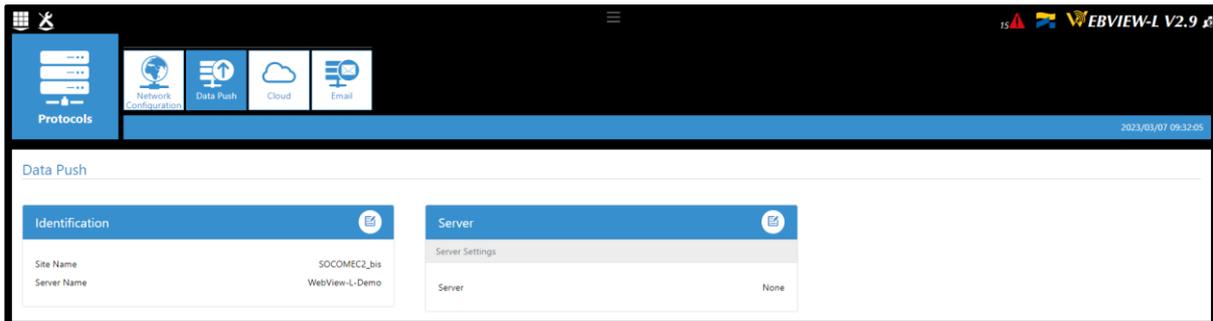
- Diris A-40 (Webview-S)
- Diris Digiware M/D-50 (Web-config)
- Diris Digiware M/D-70 (Webview-M)
- Datalogger H80 (Webview-L)

FTP SERVER CONFIGURATION WITH WEBVIEW-L

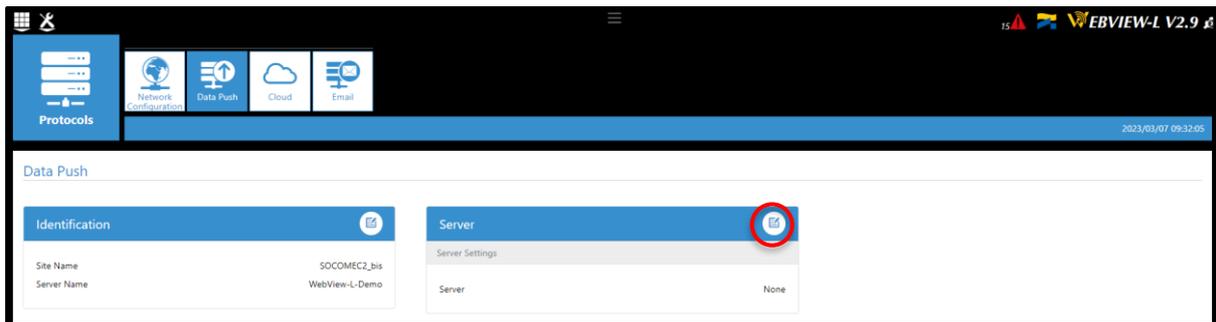
Step 1: Log in to the Webview-L in "admin" or "cybersecurity" mode and go to the "Protocols" menu in the settings



Step 2: Go to the "Data Push" tab



Step 3: Click on the "edit" icon in the "Server" box



Step 4: Choose "FTP" as the server type and fill in the parameters of the FTP server (IP address, user name, password and port). You must also specify the path of the destination directory, the transfer mode (active or passive) and the file format (EMS or custom CSV)

Server

Server Settings

Server: FTP

Destination Folder: TestVLG

Upload Log Files:

FTP Server

Address: 172.23.50.73

Port: 21

User Name: ftpuser1

Password:

Secure Communication:

Transfer Mode: Passive

File Format: Custom CSV

Data Compression:

+ Custom Format Definition

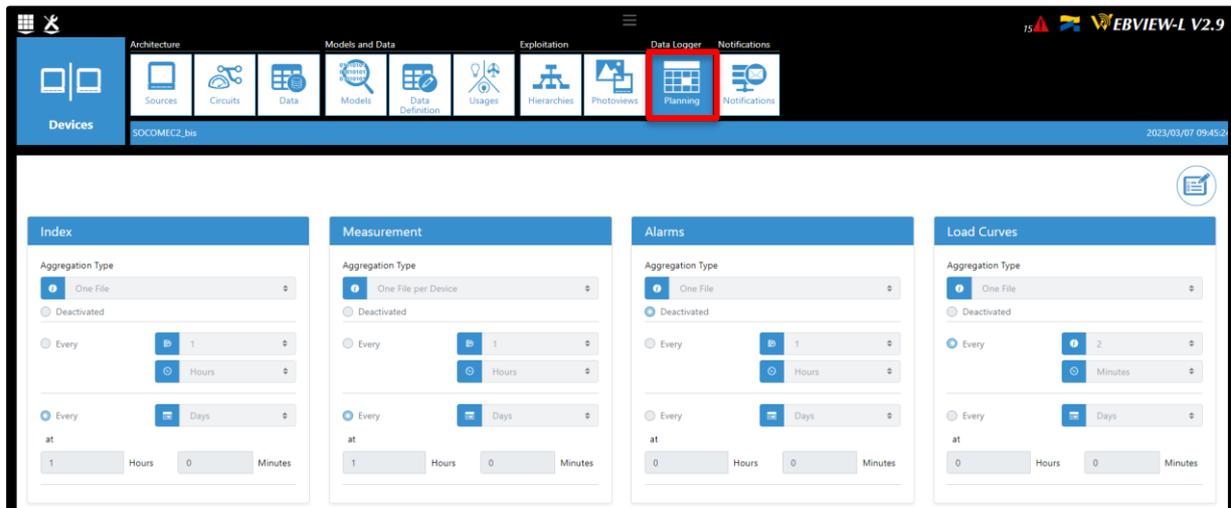
Test Connectivity

Then click on validate at the top right. You can perform a connection test before validation.

Step 5: Return to the "Settings" menu and go to the "Devices" menu



Step 6: Click on the "Planning" tab

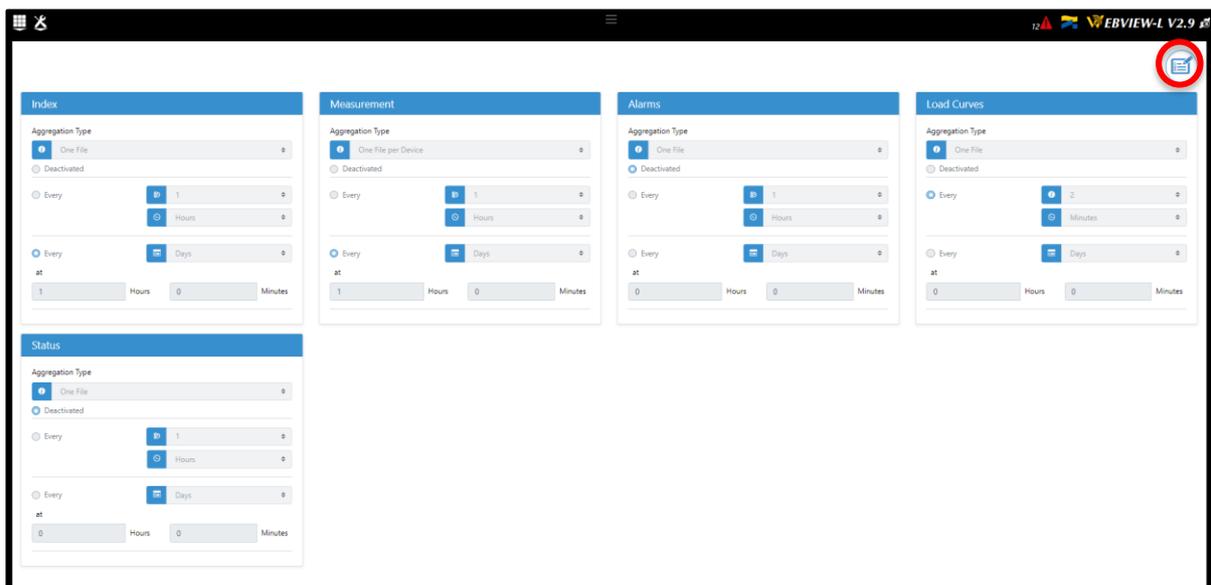


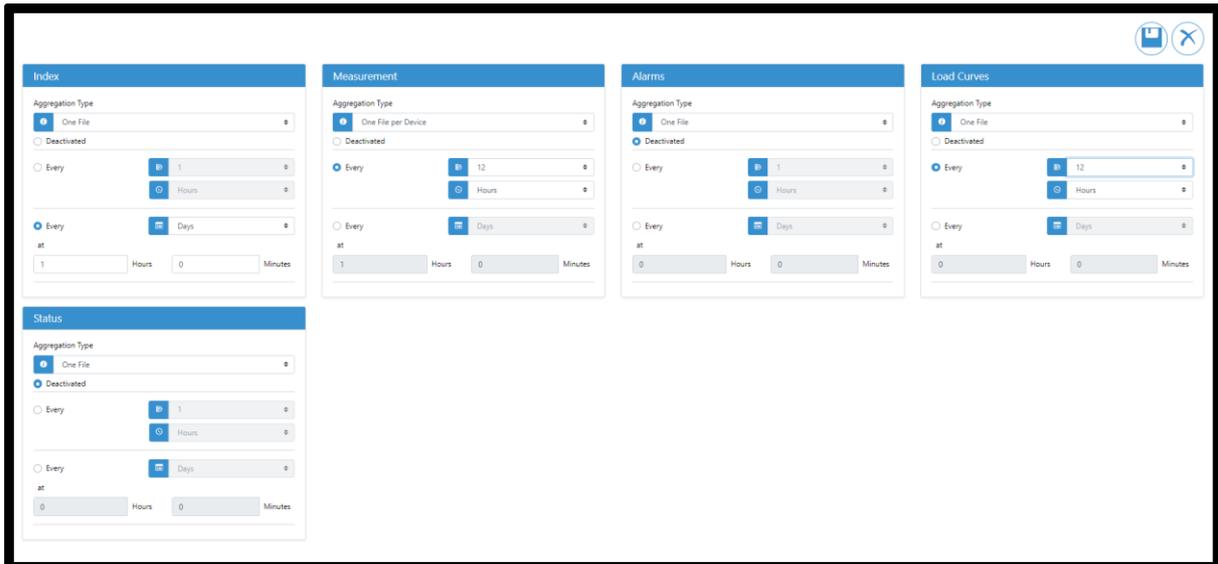
Step 7: On the planning page, you can set up the sending process. It is important to know that with Webview-L it is possible to send 5 types of files:

- An **index file**, i.e. the consumptions (EA+, EA-, ER+, ER- and ES)
- A **measurement file**, i.e. the measure from the products (average value)
- An **alarm file**, i.e. the history of alarms recorded by the products
- A **load curve file**, i.e. the load curves parameterized in the products
- A **status file**, i.e. the history of the status of your products (communication)

It is possible to send one file per product or a file grouping all the products. You can also set the time interval between each sending

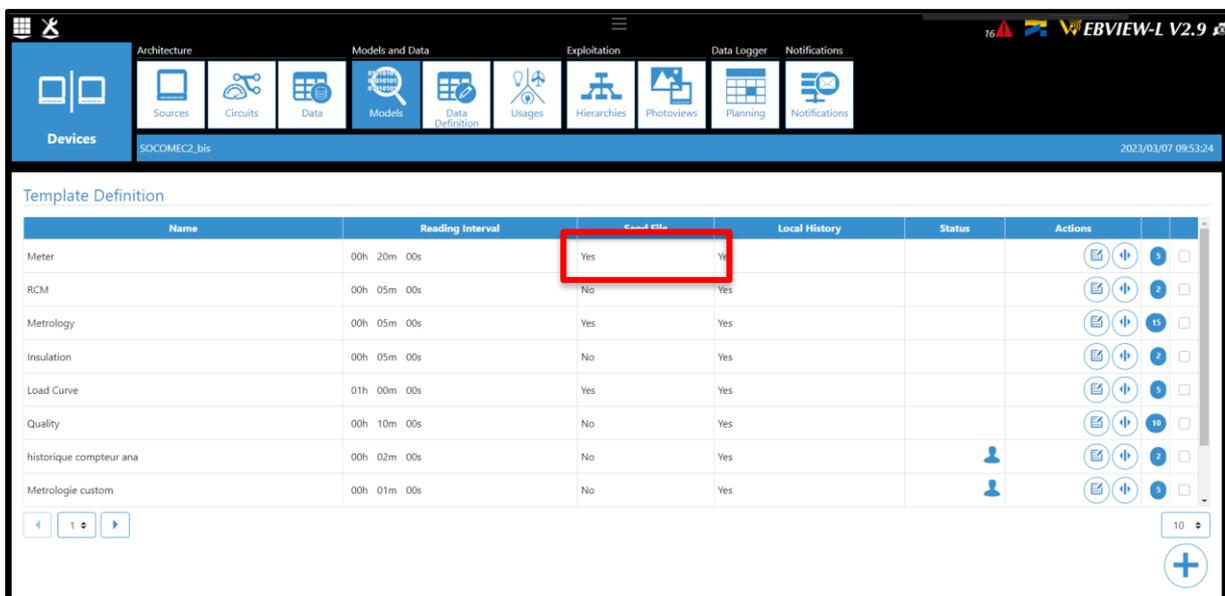
To edit these settings, simply click on the "edit settings" icon





After having set the parameters of the sending, you just have to validate by clicking on "Save" (icon with the floppy disk)

Step 8: Go to the “models” menu and check that the file sending regarding the models associated to the loads for which the export is programmed is activated.



Note: The EMS format is widely used in supervision software and facilitates data handling. Below is an example:

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Data Type	TimeZone	DateTime	Transfer Cycle (sec)	Polling Time	Version	Site Id	Gateway Id					
2	Measure	EuropaParis	UTC	120	NA		1 Test	FFLAP19P0					
3													
4	Index	Key	Type	Name	Fluid	Use	Coef	Unit	Path	Device Id	Index	Date Id	Device Name
5	0	Test1FFLAP1917016db28a32c-e5a5-40cf-8c1e-359b7b3a5ed3QIANN10000010	ANA	P Tot.	Elec	Coulet	1 %	/	/	6dc20a32-e5a3-40cf-8c1e-359b7b3a5ed3	2	80000	135_6
6	1	Test1FFLAP1917016db28a32c-e5a5-40cf-8c1e-359b7b3a5ed3QIANN10000090	ANA	THD II	Elec	Coulet	1 %	/	/	6dc20a32-e5a3-40cf-8c1e-359b7b3a5ed3	0	100006	135_6
7	2	Test1FFLAP1917016db28a32c-e5a5-40cf-8c1e-359b7b3a5ed3TANNA000070	ANA	DI Tot.	Elec	Coulet	1 %	/	/	6dc20a32-e5a3-40cf-8c1e-359b7b3a5ed3	1	80007	135_6
8	3	Test1FFLAP1917016db28a32c-e5a5-40cf-8c1e-359b7b3a5ed3QIANN000030	ANA	S Tot.	Elec	Coulet	1 %	/	/	6dc20a32-e5a3-40cf-8c1e-359b7b3a5ed3	0	80003	135_6
9	4	Test1FFLAP1917016db28a32c-e5a5-40cf-8c1e-359b7b3a5ed3QIANN1000000	ANA	VI	Elec	Coulet	1 %	/	/	6dc20a32-e5a3-40cf-8c1e-359b7b3a5ed3	0	10000	135_6
10	5	Test1FFLAP1917016db28a32c-e5a5-40cf-8c1e-359b7b3a5ed3QIANN1000000	ANA	II	Elec	Coulet	1 %	/	/	6dc20a32-e5a3-40cf-8c1e-359b7b3a5ed3	2	10000	135_6
11	6	Test1FFLAP1917016db28a32c-e5a5-40cf-8c1e-359b7b3a5ed3QIANN1000000	ANA	THD VI	Elec	Coulet	1 %	/	/	6dc20a32-e5a3-40cf-8c1e-359b7b3a5ed3	0	100000	135_6
12													
13	Index	Key	Date	Value	Quality								
14	4	2018-12-03T16:19:08		232.88	192								
15	3	2018-12-03T16:19:08		395	192								
16	1	2018-12-03T16:19:08		48.27	192								
17	6	2018-12-03T16:19:08		1.88	192								
18	2	2018-12-03T16:20:00		-28	192								
19	5	2018-12-03T16:20:00		1.33	192								
20	0	2018-12-03T16:20:00		47	192								
21	4	2018-12-03T16:20:00		220.09	192								
22	3	2018-12-03T16:20:00		395	192								
23	1	2018-12-03T16:20:00		48.05	192								
24	6	2018-12-03T16:20:00		1.89	192								
25	2	2018-12-03T16:20:00		-29	192								
26	5	2018-12-03T16:20:01		1.227	192								
27	0	2018-12-03T16:20:01		49	192								
28	4	2018-12-03T16:20:02		232.88	192								

The .csv file is separated in 2 parts:

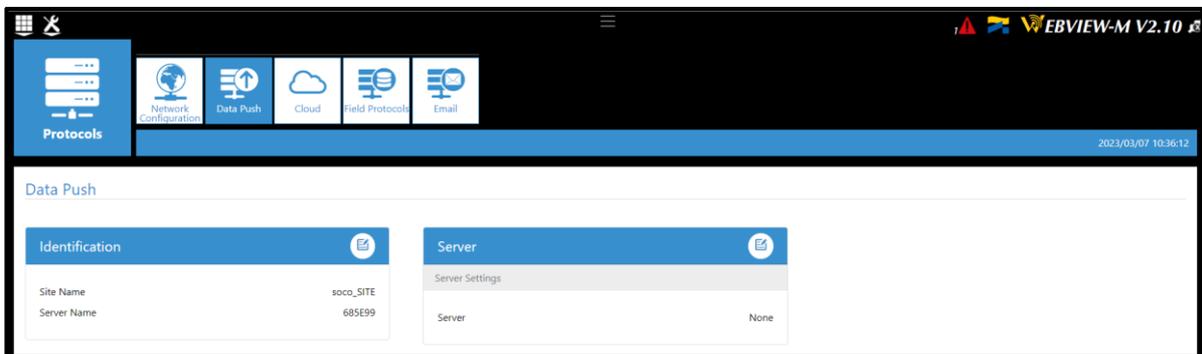
- A "hat" part gathering the information specific to each exported variable. This variable is identified with a unique "Key" in column B.
- A part gathering the time-stamped measurement data.

FTP SERVER CONFIGURATION WITH WEBVIEW-M/WEB-CONFIG

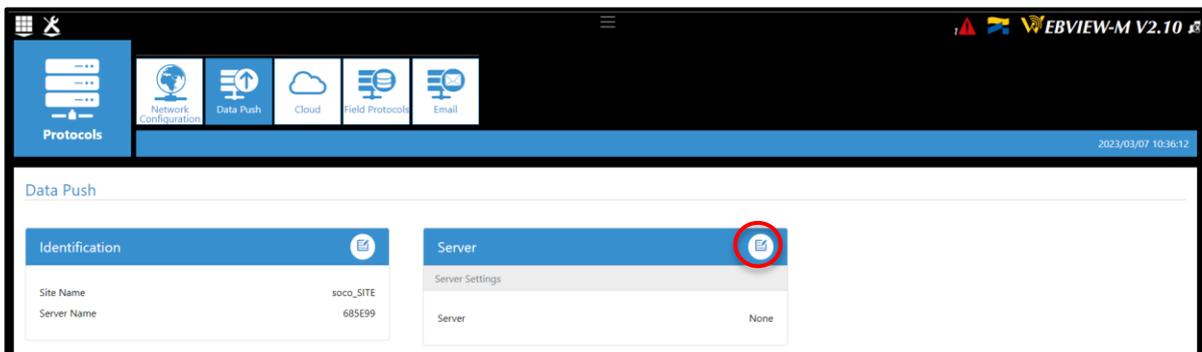
Step 1: Connect to Webview-M/Web-Config in "Admin" or "Cybersecurity" mode and go to the Protocols menu in the settings



Step 2: Go to the "Data Push" tab



Step 3: Click on the "edit" icon in the "Server" box



Step 4: Choose "FTP" as the server type and fill in the parameters of the FTP server (IP address, user name, password and port). You must also specify the path of the destination directory. There is a difference here with the Webview-L, you can indeed choose the type of file (CSV, EMS or custom CSV)

Server

Server Settings

Server: FTP

Destination Folder: TestVLG

Upload Log Files:

FTP Server

Address: webview-firm.soc-grp.net

Port: 21

User Name: vlg

Password:

Secure Communication:

File Format: User-Friendly CSV

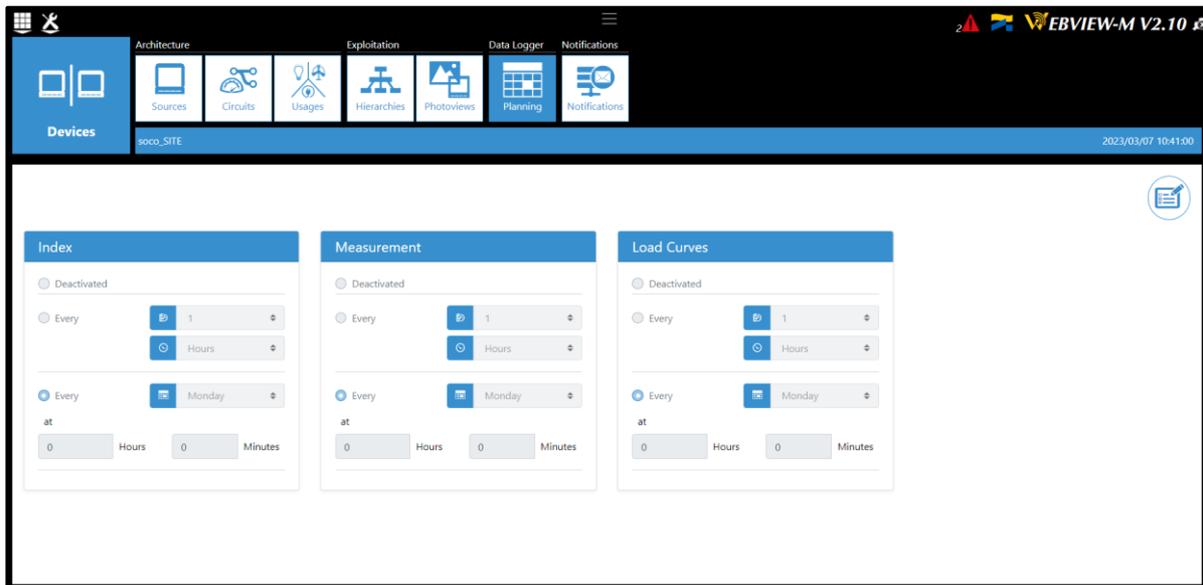
Test Connectivity

Then click on validate at the top right. You can perform a connection test before validation.

Step 5: Return to the "Settings" menu and go to the "Equipment" menu



Step 6: Click on the "Planning" tab

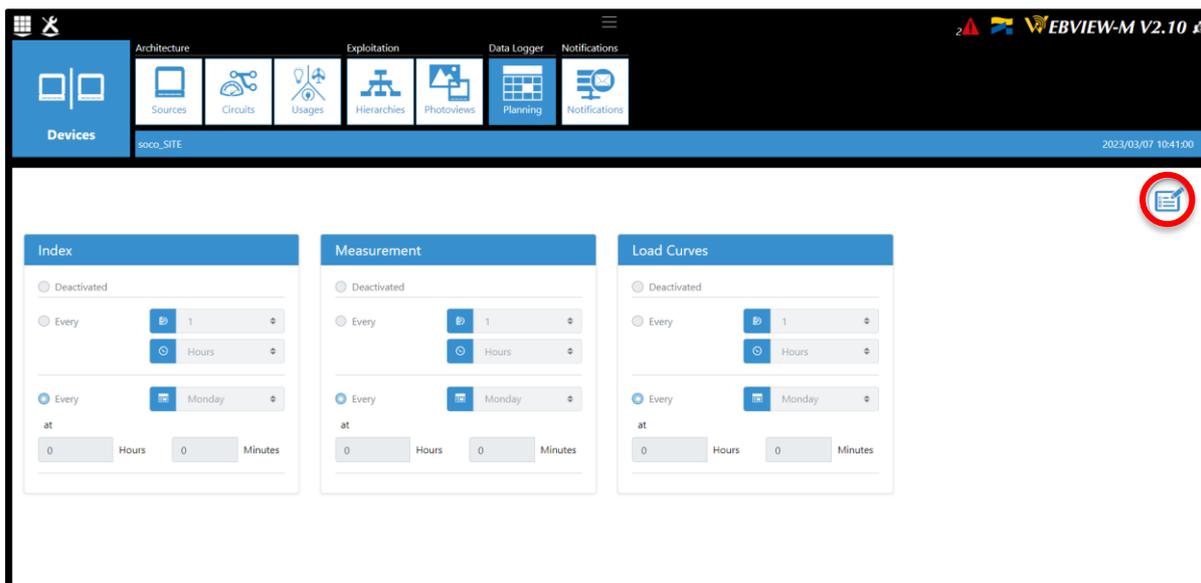


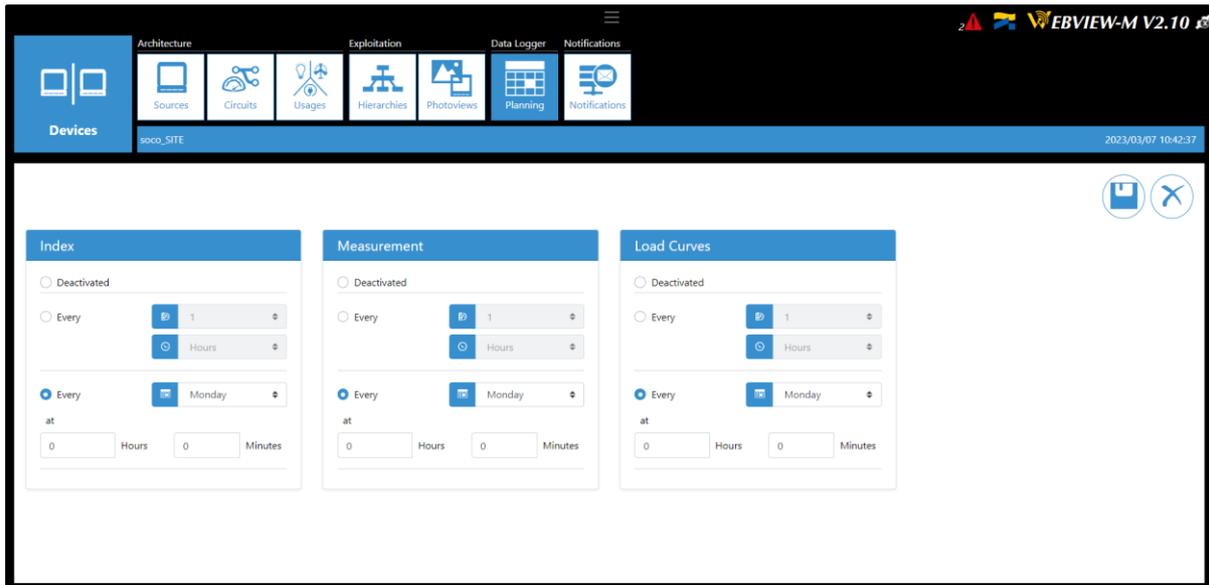
Step 7: on the planning page, you can set the parameters for sending. It is important to know that with Webview-L it is possible to send 3 types of files:

- An **index file**, i.e. the consumptions (EA+, EA-, ER+, ER- and ES)
- A **measurement file**, i.e. the measure from the products (average value)
- A **load curve file**, i.e. the load curves parameterized in the products

In this case, you can only have one file per product.

To edit these parameters, just click on the icon "edit parameters".

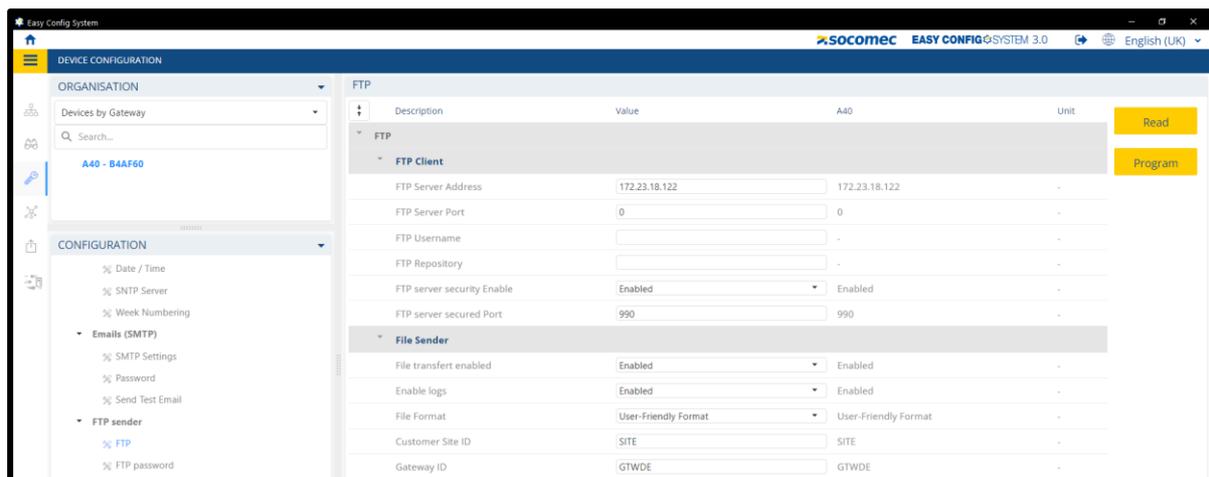




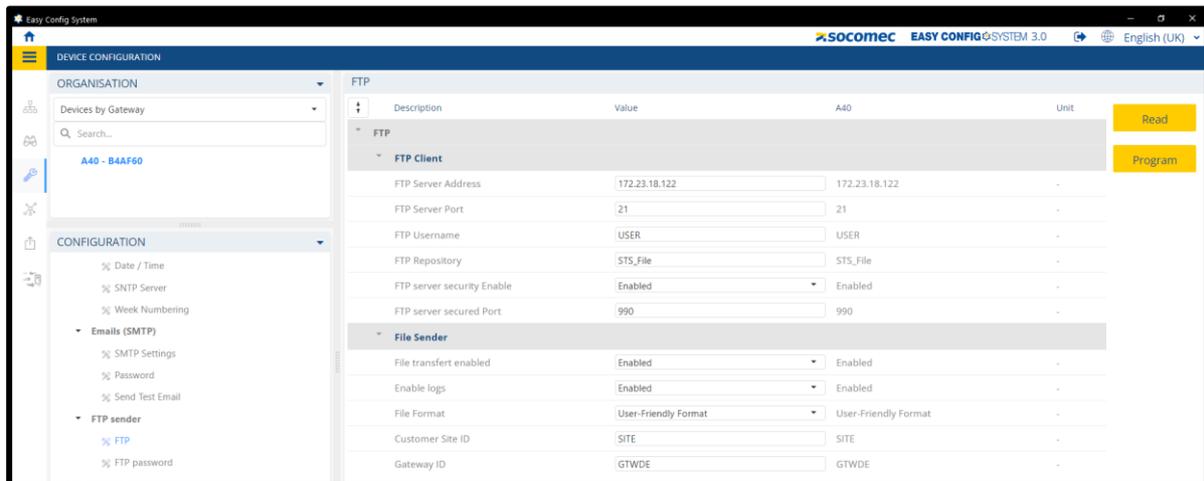
After having set the parameters, you just have to validate by clicking on "Save" (icon with the floppy disk)

FTP SERVER CONFIGURATION WITH WEBVIEW-S

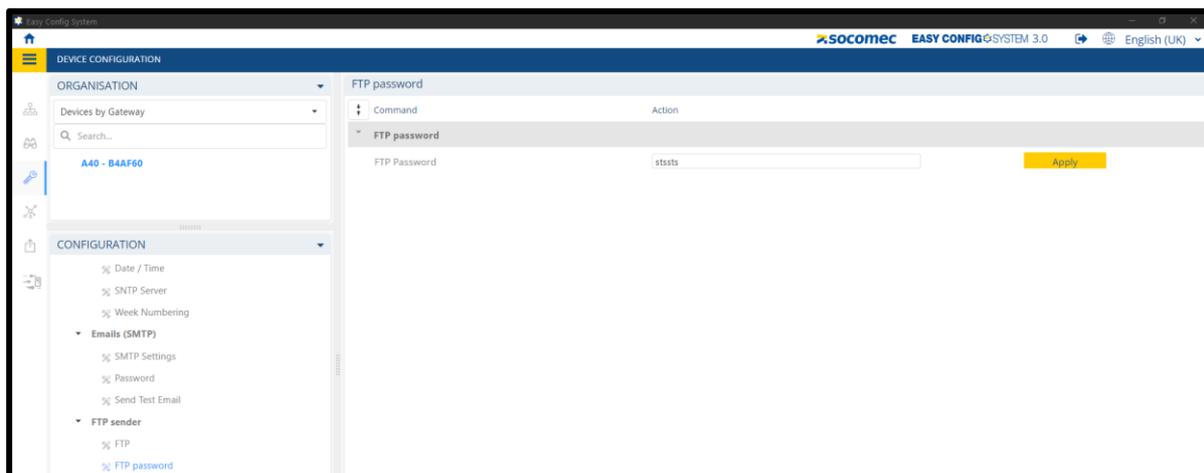
Step 1: Open the Easy Config System configuration software and connect via USB or Ethernet to the Diris A-40. Then click on the FTP menu



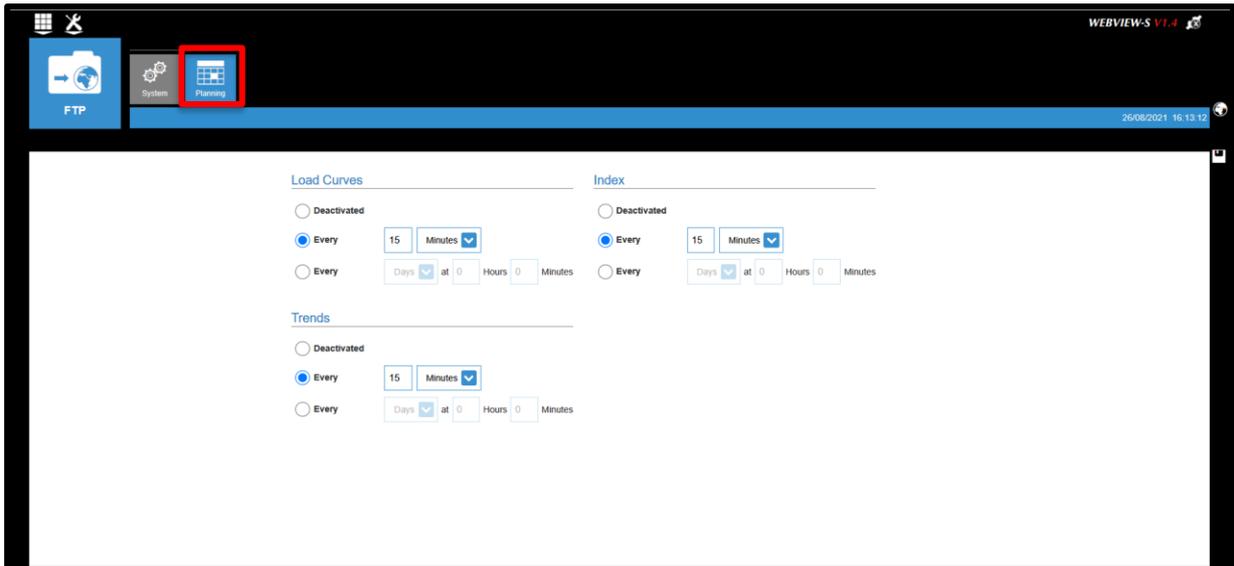
Step 2: In the FTP menu, activate "FTP" and fill in the parameters of the FTP server (IP address, user name, password and port). You must also specify the path of the destination directory. There is a difference here with the Webview-L, you can choose the type of file (CSV or EMS). Click then on « program » to save your settings



Step 3: Click on the “FTP password” menu to enter the password for connecting to the FTP server and click on “apply”



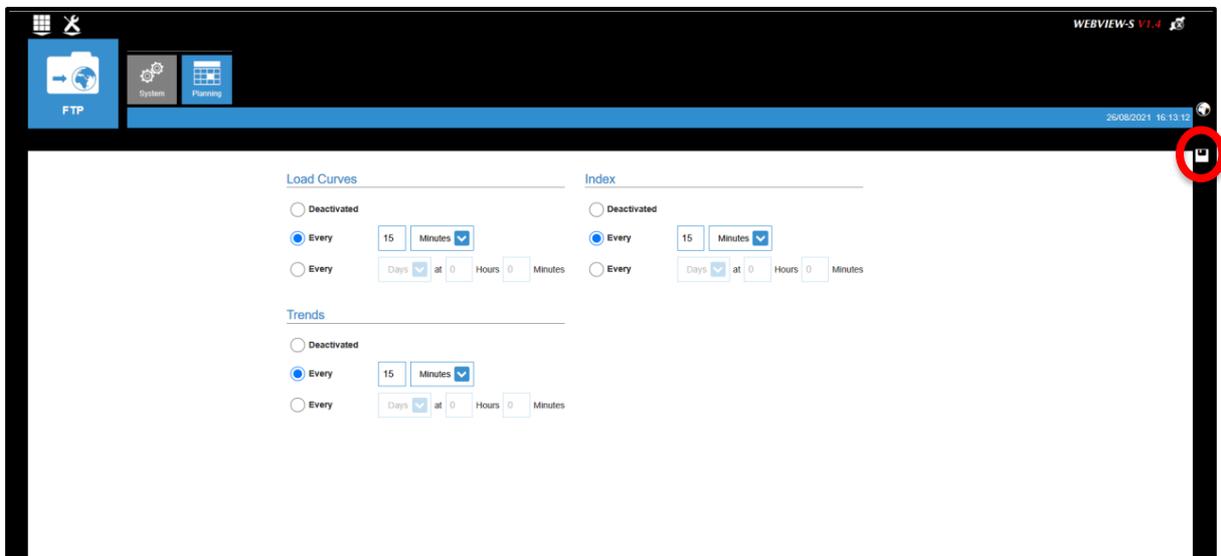
Step 4: Connect to the Webview-S web server and go to the settings in the “FTP” menu, “Planning” tab

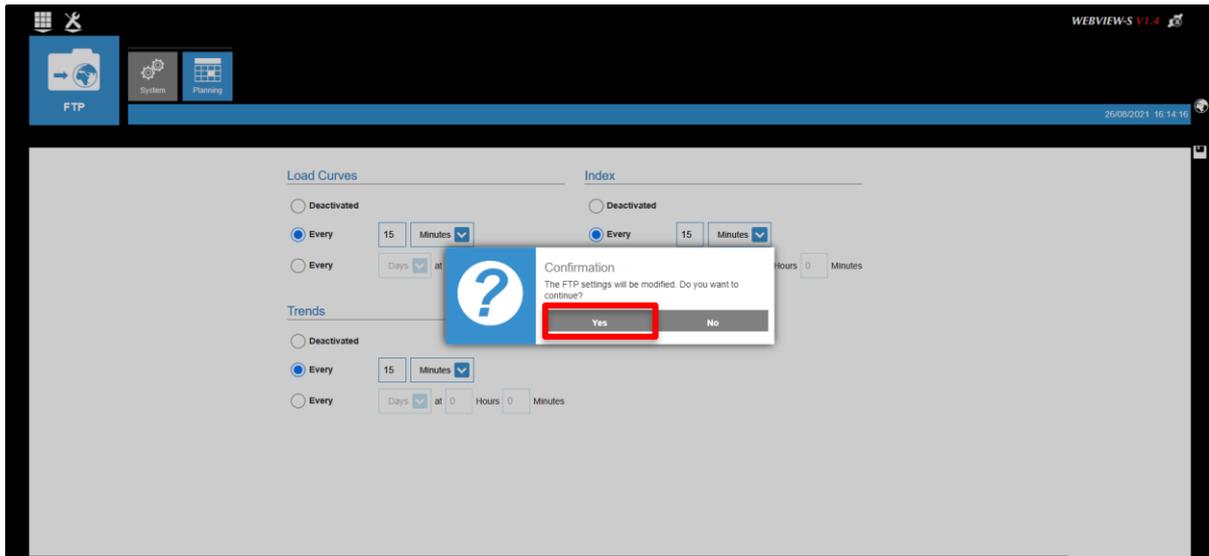


Step 5: on the planning page, you can set up the sending. It is important to know that with Webview-S it is possible to send 3 types of files:

- An **index file**, i.e. the consumptions (EA+, EA-, ER+, ER- and ES)
- A **measurement file**, i.e. the data that is products measured (average value)
- A **load curve file**, i.e. the load curves parameterized in the products

After setting the parameters for sending, simply validate by clicking on "Save" (icon with the diskette) and then confirm the modification



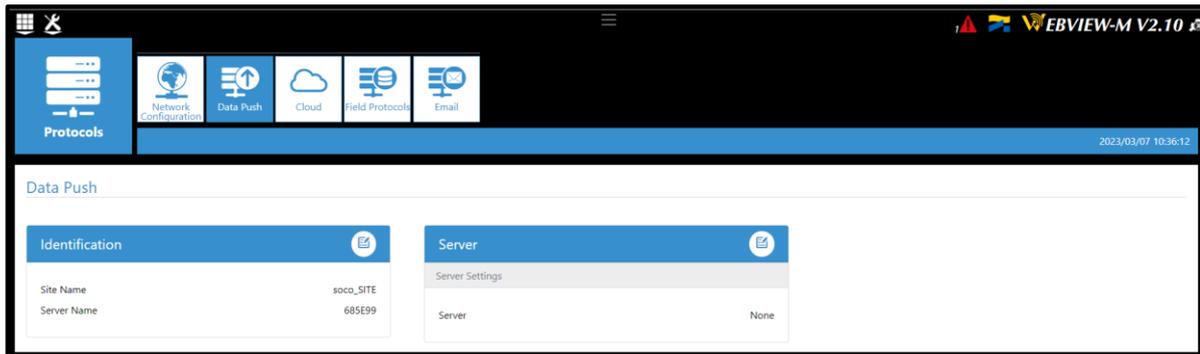


FTPS SERVER CONFIGURATION WITH WEBVIEW-M/WEB-CONFIG

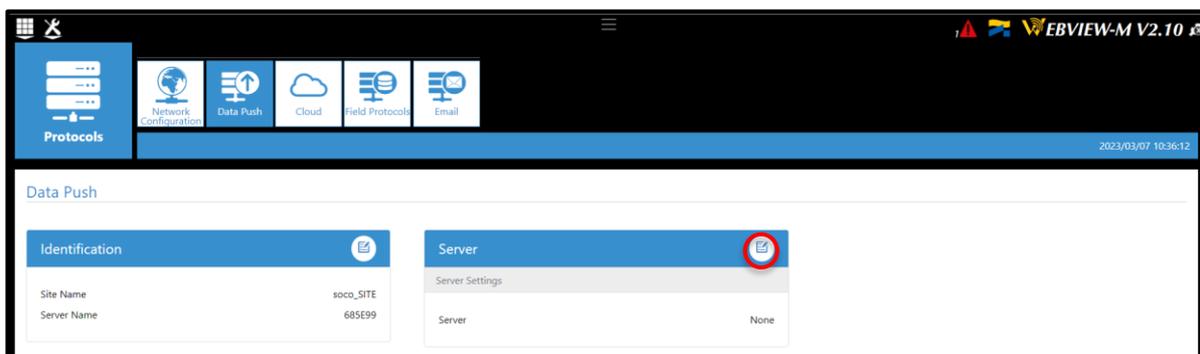
Step 1: Connect to Webview-M or Web-Config in “cybersecurity” mode. Then go to the “Protocols” menu in the settings



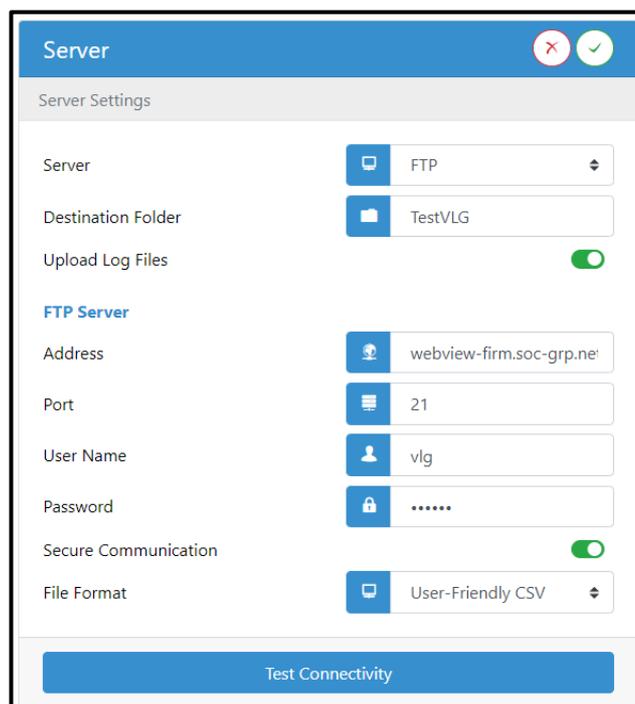
Step 2: Go to the “send data” tile



Step 3: Click on the “modify” icon in the “server” box



Step 4: Choose "FTP" as the type of server, enter the FTPS server connection parameters (IP address or hostname, user name, password and port) and activate secure communication to switch to FTPS mode. It is also necessary to specify the path of the destination directory as well as the transfer mode (active or passive) and the file format (CSV, adapted EMS or custom CSV)



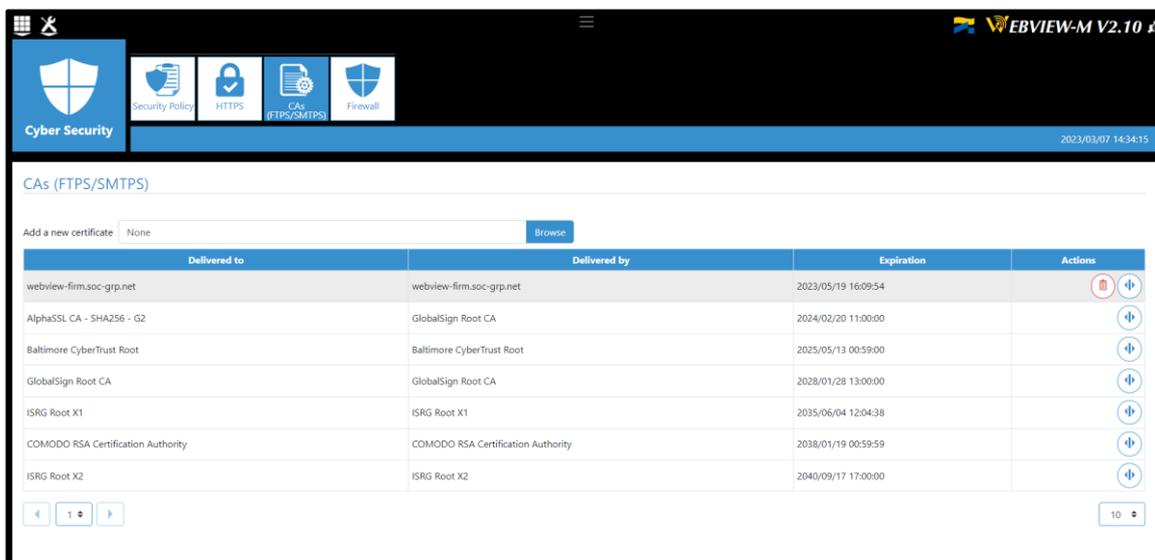
Then click on “validate” at the top right. You can perform a connection test before validation.

Step 5: Return to the main page and click on the "Cyber security" menu. It is in this menu that we will integrate the authentication certificate for communication in FTPS.

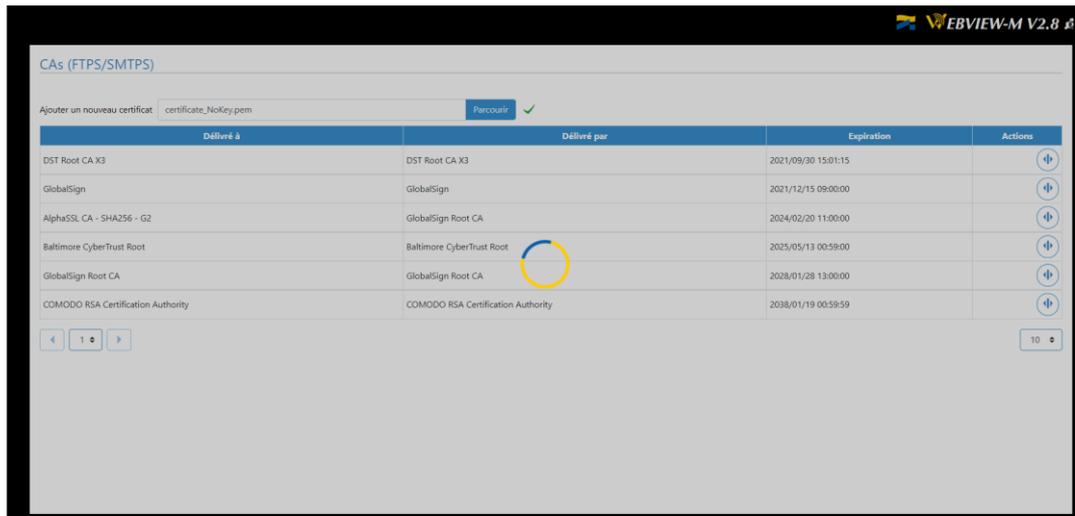


Step 6: Click on the “CAs(FTPS/SMTPS)” tile and click on “Browse” to choose the certificate to integrate.

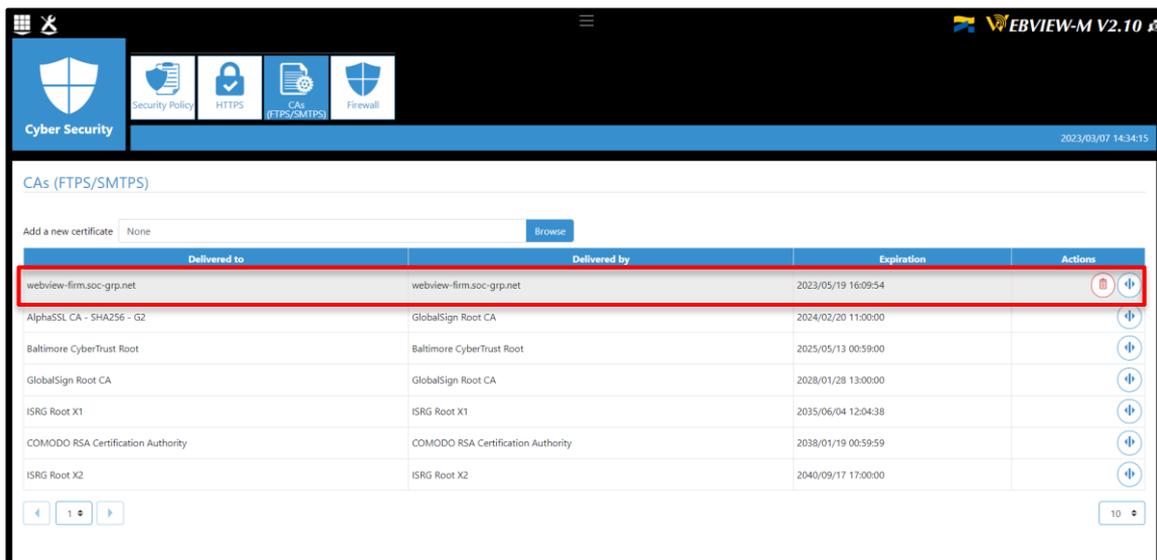
Note : The authentication certificate is generated by the IT department. It must be in .pem format



Once the certificate is integrated, the Diris Digiware D or M gateway will restart.



Note bis: The name of the integrated certificate must be the same as that configured for the address of the FTPS server



The screenshot shows a 'Server' configuration window with a blue header and a 'Server Settings' section. The settings are as follows:

Setting	Value
Server	FTP
Destination Folder	TestVLG
Upload Log Files	<input checked="" type="checkbox"/>
FTP Server	
Address	webview-firm.soc-grp.net
Port	21
User Name	vlg
Password
Secure Communication	<input checked="" type="checkbox"/>
File Format	User-Friendly CSV

A red rectangular box highlights the 'Address' field and its value. At the bottom of the window is a blue button labeled 'Test Connectivity'.

Step 7: Refer to step 7 and 8 of the chapter “ [Configuring the FTP server with webview-M/Web-Config](#) ” to plan the sending tasks.



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