Energy server embedded into *DIRIS Digiware D-70*, *DIRIS Digiware M-70* & *ISOM Digiware D-75*.

WEBVIEW-M





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1. DOCUMENTATION

All the documentation on the WEBVIEW range can be found on the SOCOMEC site at the following address: https://www.socomec.com/range-software-solutions_en.html?product=/webview_en.html&view=documentation

Related instruction manuals

Additional instruction manuals linked to the DIRIS Digiware system can be found on the Socomec website:

Instruction manual	Reference
DIRIS Digiware D - Multipoint display and interface with embedded webserver	548088
DIRIS Digiware M - Communication gateway with embedded webserver	548751
DIRIS Digiware - Power Metering and Monitoring System and associated current sensors	542875
Easy Config System - Configuration Software	551765
Product Upgrade Tool - Software for firmware upgrade	545534

2. BEFORE YOU START

Please familiarise yourself with these instructions before setting up and using WEBVIEW-M.

Below is the list of compatible browsers:

- Chrome v96 and above (recommended browser)
- Microsoft Edge
- Firefox v95 and above

We recommend using a 1920 x 1080 pixel screen format to best display the different contents.

The use of a different screen format may change how certain parts are displayed.

3. PREREQUISITES

Make sure the M-xx gateway / D-xx display operates under the latest firmware versions available which can be found on the Socomec website.

You can upgrade the firmware of the M-xx gateway / D-xx display either using the SOCOMEC Product Upgrade Tool software, by connecting a laptop to the Micro USB port of your M-xx gateway / D-xx display, or directly in the webserver of the M-xx gateway / D-xx display (see chapter "9.3. Diagnosis - System", page 36).

4. INTRODUCTION

4.1. About WEBVIEW

WEBVIEW monitors electrical parameters in real-time, tracks energy consumption levels and monitors the insulation of unearthed IT systems. It is integrated into the DIRIS A-40 Power Monitoring Device, the DIRIS Digiware M-70 communication gateway, DIRIS Digiware D-70 and ISOM Digiware D-75 / D-75h displays and the DATALOG H80/81 datalogger.

It is designed for technical users who want a simple, user-friendly and efficient tool to quickly analyse any malfunctions and guarantee energy performance.



With WEBVIEW, you can collect data from DIRIS Digiware devices, DIRIS A and DIRIS B Power Monitoring Devices, COUNTIS energy meters, ISOM Digiware insulation monitoring system, ATyS pM changeover switches and ATyS C55/C65 controllers, but also more generally any devices that communicate using the Modbus protocol (WEBVIEW-L only).

WEBVIEW is accessible from a simple Web browser on a PC or tablet.

4.2. Versions

There are different versions of the WEBVIEW software:

WEBVIEW versions	Host device	Functions
WEBVIEW-S	DIRIS A-40 Ethernet	Monitor Alarms and events Consumption Trends
WEBVIEW-M	DIRIS Digiware M-70/D-70 ISOM Digiware D-75 ISOM Digiware D-75h	Monitor Alarms and events Photoview Consumption Trends
WEBVIEW-L	DATALOG H80/H81	Monitor Alarms and events Photoview Consumption Trends

Please note: WEBVIEW-M manages average values based on the integration period configured in devices.

This user guide details the configuration and visualisation features of WEBVIEW-M.

The DIRIS Digiware M-50 gateway and D-50 display embed a WEB-CONFIG for the configuration only. Therefore, the explanations given in the Settings part (chapter 9) of this instruction manual are also applicable to the M-50 & D-50.

The webserver of the M-50 or D-50 does not offer measurement visualisation and analysis.

5. USER PROFILES

Several profiles are available:

- User (default)
- Advanced User
- Totem User
- Admin
- Cyber Security

Access to the User profile is open and requires no password.

The Advanced User, Admin and Cyber profiles are authorised to change settings and reset counters.

Profile	Default password			
User	 Visualisation of measurement data Access to diagnostics 	None		
Advanced User	Advanced User - Visualisation of data - Access to diagnostics + Password management of the Advanced User profile + Reset of counters			
Totem User	Totem User- Visualisation of measurement data - Access to diagnostics + Password management of the Totem User profile + Reset of counters + No disconnection			
Admin	Admin			
Cyber Security - Visualisation of measurement data - Access to diagnostics - Password management of all profiles - Access to configuration menu + Cyber Security configuration menu + Firmware upgrade		Cyber		

6. START UP

Like any Web application, the WEBVIEW-M software requires an Ethernet network connection.

Just enter the URL of the device in the Web browser to access WEBVIEW-M.

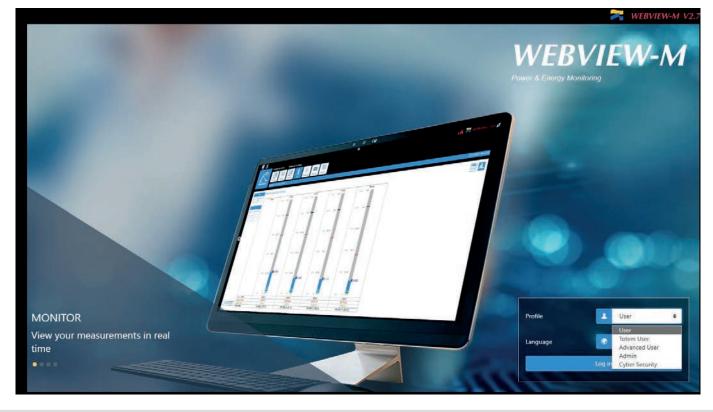
As a reminder, the default IP addresses of the devices embedding WEBVIEW are given in the table below:

WEBVIEW version	Host device	Default IP address	
WEBVIEW-M	DIRIS Digiware M-70	192.168.0.4	
	DIRIS Digiware D-70	192.168.0.4	
	ISOM Digiware D-75 / D-75h	192.168.0.4	

6.1. Accessing the application

To open the application, enter the login details on the WEBVIEW-M homepage:

- Profiles: User, Advanced User, Totem User, Admin and Cyber security
- Password: For Advanced User, Totem User, Admin and Cyber security profiles
- Language: select from the list of available languages



When connecting to the Admin, Advanced User or Cyber security profiles for the first time, the application forces the user to change default passwords.

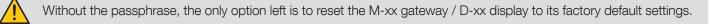
Totem User profile is locked by default. If the use of the Totem User profile is needed, you must connect with the Cyber Security profile, go to the "Profile" menu and unlock the Totem User profile.

It is highly recommended to change all default passwords right away, especially the password of the Cyber security profile which has the highest privileges including changing passwords for other profiles.

Once passwords have been changed, connect to the Cyber security profile, go to the "Profile" menu and click on "Generate the passphrase":

Image: Profile Image: Profile Profile You have logged on with	th the profile : Cyber Security		1 ▲ 🚬 WEBVIEW-M V2.7 🗴 2021/12/20 15:28:50
Profiles	Profile status	Passphrase	Actions
User			
Totem User			
Advanced User			
Admin			
Cyber Security		Generate the Passphrase	

Copy the passphrase, paste it somewhere and keep it safe. This will allow you to recover your password for the Cyber security account, should you lose it.



Profile You have logger	i on with the profile : Cyber Security	2021/12/20 1
Profile		
Profiles User	Passphrase	Actions
Totem User Advanced User	The passphrase is unique. Please store it in a safe location and keep it to yourself. Once used, you will have to generate a new one.	a
Advanced User Admin	SE5BCE5_E5BCE5_201221_154904_809ffc8729da17130914743302dfa139	
Cyber Security		(
	Close	

Once authenticated, the user is redirected to the home page displaying the different menus of WEBVIEW-M.

7. ERGONOMIC FEATURES

7.1. Left pane

Use the left pane of certain WEBVIEW-M pages to browse the data



Open left pane

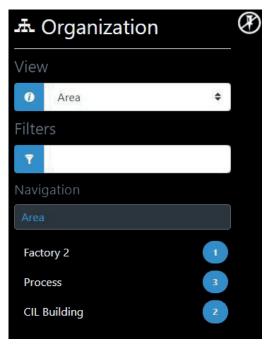


Close left pane

Pin left pane

7.2. Organisation

The Organisation heading on the left pane includes several sections:



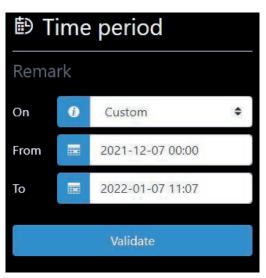
View: Dropdown list giving a selection of navigation modes, customised depending on the features:

Feature	Browsing mode		
Monitor	Area, use, fluid, Photoview		
Alarms and events	No left pane		
Photoview	No left pane		
Consumption	Hierarchy, use, fluid		
Trends	Area, use, fluid		

Filter: You can filter by name (e.g. I-35 - filters all I-35 devices) or you can filter by area name.

Navigation: Shows the results of the View selection and its filters, and lets you navigate in the network tree. Next to the name of the tree level is the number of loads or related circuits (e.g CIL Building - 2 loads)

7.3. Time period



The **Time period** section in the left pane allows you to select the time period for the display of measurement data. The user can either choose a predefined period (current year or month, etc.), or choose custom dates and times.

7.4. Favourites

★ Favorites			
Gas Meter 1	Ì		
Water Meter 1			
Voltage Monitoring			

Only available under the "Trends" menu, the Favourites allows you to save your frequently consulted measurement logs. (For example, the electrical parameters of a process or load curve correlated with one or several influence factors).

7.5. Optimising the page display



Click on this icon to show/hide the menu bar at the top of the page.

In the "Trends" menu, the user can show or hide the graph configuration while visualising the measurement logs.

8. NAVIGATING THROUGH THE DIFFERENT MENUS

8.1. Home Page



The homepage allows the following functions:

- 1. Go back to home page
- 2. Go to WEBVIEW-M settings

Monitor section: Real time monitoring of data measured by the devices.

- 3. Monitor: displays real time measurements and power quality analysis of the electrical installation
- 4. Alarms and Events: displays the list of active and finished alarms from SOCOMEC devices
- 5. **Photoview**: displays real-time measurements on customised background picture (building plan, electrical diagram, electrical panel etc.)

Analyse section: Analyses the data stored in the gateway/display

- 6. Consumption: displays consumption data
- 7. Trends: displays the measurement logs (historical data)
- 8. Shortcut to the active Alarms and Events menu
- 9. Log off

Important: The data collected and displayed on WEBVIEW-M depends on the technical features of the devices connected. The screens and tabs automatically adapt depending on the devices and their settings.

Example 1: An alarm is not shown if it has not been pre-configured with Easy Config System.

- Example 2: The **Quality** tab is hidden if the device measuring the load does not have the THD function; the same applies to the **Input/Output** tab which is hidden if the device does not have Inputs/Outputs.
- Example 3: The Monitor tabs of ATyS-p-M are customised according to the characteristics of the device

8.2. Monitor



The data displayed in the **Monitor** menu allows the analysis of the network (**Summary/Quality**) and the analysis of the load (**Quality/U/I/Power/Energy/Input/Output/Summary**).

These are real time values collected directly from the devices.

The device to be Monitored must be preselected in the left pane to display its measurements.

8.2.1. Monitoring SOCOMEC power monitoring devices

• Network analysis section - Summary

The "Summary" tab shows the type (3P+N) and Vectorial diagram of the network.

	₩ ★		💦 WEBVIEW-M V2.2 🙍
		ad analysis	29/07/2019 18 47:33
ľ			
	3P+N	Vominal U 400 V V 230 94 V F 50 Hz	
Ø	Vectorial diagram		
	V3 237.01 09	System U 410.43 V F 50 Hz V 236.98 V Quality Unb 0.17 % Vnb 0.17 %	
	V2 236.99 (N)		

• Network analysis section - Power Quality Monitoring

The "Quality" tab shows the total harmonic distortion (THDu and THDv) and individual harmonics U/V (up to 63rd) of the electrical network.

	∎ X							E WEBVIEW-M V2.2 🕻
	Monitor	Network analy		d analysis	Power	0123 Energy	Quality	
L,	MOTILOS	Others / I35 P	C10 15 / 135 PC1	0 15 : Load 3			6	29/07/2019 18:50:23
		THDu						
	THDu THDv Crest Factor U	Inst Max	THD U1-U2 % 1.12 56.23 31/10/2018, 09:53:34	THD U2-U3 % 1.01 56.81 31/10/2018, 09:53:34	THD U3-U1 % 1.19 56.95 31/10/2018, 09:53:34			
Ø	Crest Factor V	i -					Harmoni	ranks for voltage (U) (Fundamental)
		0.75 IEN 'EZN' 0.5 0.25		1	ŀ	J		
		0	2 3	4 S	6 7	8 9 1	0 11	III III III 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26-34 35-50 51-63 ● U12 ● U23 ● U31 ● U31 □ U31<

• Load analysis section - Summary

The "Summary" tab gives an overview of the load parameters with vector and power diagrams:

Network analysis Load analysis Summary Cuality Summary Others / 135 Général / General U1 MKG	Power Energy Quality	2907/2019 18:51 24
^{Load} 3P + N - 3CT (4NBL)	Vominal U 400 V V 230.94 V F 50 Hz I 63 A	
Vectorial diagram	System var U 410.56 V F 50 Hz I 12.348 A V 237.06 V Inb 52.18 % Inb 57.48 % Vnb 0.2 % Vnb 0.2 %	PF 0.971 S 8.015 VA P 7.780 W Q 1,929 var
	THD Sys 1 29.78 % U 119 %	

• Load analysis section - Current and voltage monitoring

The "U/I" tab shows instantaneous and average data of currents and voltages on bar graphs. Data can also be represented in tabular form.

X	Network analysis	Load analysis				MEBVIEW-M
	Summary Quality					
Monitor	Others / 135 Général /					29/07/2019
Inst	Currents monitori	ng				
Avg	l Inst	11 (A) 120% 75.6	12 (A) 1 20% 75.6	13 (A) 120% 75.6	IN (A) 120% 75.6	
V		100% 63	100% 63	100% 63	100% 63	
U]	75% 47.25	75% 47.25	75% 47.25	75% 47.25	
		50% 31.5	50% 31.5	50% 31.5	50% 31.5	
		25% 15.75	25% 15.75	25% 15.75	25% 15.75	
		0% 0	0% 0 6.726	0% 0	0% 0	
	I Nom.	63 A	63 A	63 A	63 A	
	1 Max.	26.817 A	22.246 A	47.516 A	36.388 A	
	Available	0 A 52.812 A (84%)	0 A 56.274 A (89%)	0 A 45.989 A (73%)	0.A 51.052 A (81%)	

• Load Analysis section - Power monitoring

The "Power" tab shows instantaneous and average power readings (P, Q, S), as well as cos (phi) and tan (phi) values. Data can also be represented in tabular form.



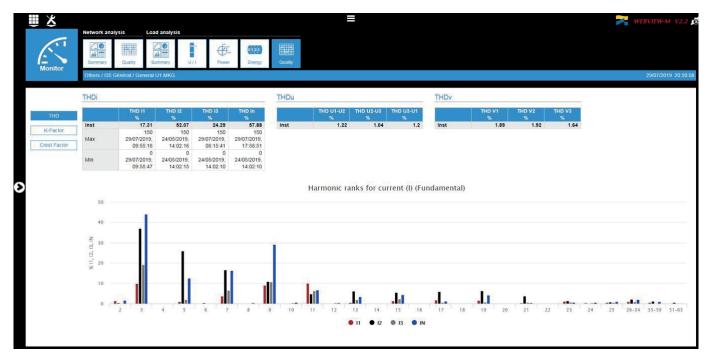
• Load Analysis section - Energy monitoring

The "Energy" tab shows the energy table (Ea+, Ea-, Er+, Er-, Es) and the breakdown over the tariff periods.

	Network analy	/sis	Load analysi	S			=				KEBVIEW-M V2.2
	Summary	Quality	Summary	U/I	Power	01/23 Energy Quality					
Monitor	Others / 135 G	iénéral / Gen	ieral U1 MKG								29/07/2019 20:48:57
General Energy				То	tal energy				Dural	ion Counter 1690 d 18	8 h 37 m
Tariff						Ea+ kWh	Ea- Wh	Er+ kvarh	Er- kvarh	Es kVAh	
					otal	140,115	0	33,377	4,476	157,673	
					ductive	850	678	33,377	0 4,476	5	
				C	apacitive	•	.*	0	4,470		
Ð				Pa	artial energy					ration Counter 851 d 7	7 h 10 m
						Ea+ kWh	Ea- Wh	Er+ kvarh	Er- kvarh	Es kVAh	
				Т	otal	74,636	0	18,636	2,074	86,744	

• Load Analysis section - Power Quality monitoring

The "Quality" tab shows the harmonic distortion rate (THDi) and individual harmonics I (up to 63rd) as well as the K factor values.



8.2.2. Monitoring ISOM Digiware devices (ISOM Digiware D-75 only)

In addition to Power Monitoring Devices (DIRIS Digiware range, DIRIS A and DIRIS B PMDs and COUNTIS energy meters), WEBVIEW-M embedded in the D-75 display also integrates devices from the ISOM Digiware range, in particular the ISOM Digiware L-60 Insulation Monitoring Device / locating current injector, and the ISOM Digiware F-60 insulation fault detection module.

Devices within the ISOM Digiware range are only compatible with the WEBVIEW-M embedded in the ISOM Digiware D-75 display and WEBVIEW-L embedded in the DATALOG H80/H81.

The various Monitoring pages are as follows:

• Network analysis section - Summary

The "Summary" tab displays the electrical network type (1P+N) and nominal values V and F.

	∎ <u>×</u>						🚰 WEBVIEW-M V2:2 🗭
	<u>_</u>	Insulation	Network analysis Input/Output				
	<u> </u>	Ω					
	12 >>	Insulation Monitoring	Summary Input/Output				
	Monitor	Others / CPI JDB1 / CPI	JDB1				7/30/2019 11:39:48 AM
	Network						
	2P			Nominal			
	26			U 24 V F 50 Hz			
Ø							

• Insulation section - Insulation

The "Insulation" displays real time, maximum, minimum and average insulation parameters (Rf, Cf and Zc).

	Network analysis (nput/Output				WEBVIEW-M V
Synthesis Parameters	s	Insulation measures	Rf kohm	Cf uF	Zc kohm
	2P		Rf kohm 329.3	Cf µF 0	kohm
Parameters Network Type Injection mode	2P Auto	Ω	kohm	μF	kohm
Parameters Network Type	2P	Ω Inst	kohm 329.3 8851.8	μF 0 2475	kohm
Parameters Network Type Injection mode Injection state	2P Auto IMD	D Inst Max	kohm 329.3 8851.8 7/2/2019, 12:03:14 0	μF 0 2475 9/24/2018, 17:05:30 0	

• Insulation section - Monitoring

The "Monitoring" tab displays the trend curve of the insulation parameters (Rf and Cf) over different periods (last hour, last day, last week, last month, last year). Data is also displayed in tabular format.



• Insulation - Circuits (for ISOM Digiware F-60 modules)

For each F-60, the "Circuits" tab for ISOM Digiware F-60 modules displays insulation parameters (IAn, IL, Rf and Cf).

Monitor		Network analysis			WEBVIEW-M V. 7/30/2019 11.45:
Circuits					
Circuits		Courant (IAN) mA	Courant (ΙΔS) mA	Rf inst. kohm	Cfinst. uF
Ω				400	μF 0
	•		mA	kohm	μF

8.2.3. Monitoring ATyS C55/C65 controllers

• "Status" tab

	₩¥						🗚 襗 WEBVIEW-M V2.4 🗴
	Monitor	the second se	I/O Control Exerciser				2020/01/02 094404
	Status						
0	-00009		urce 1 IP+N 235.87 V 50 Hz	o	Sour Avail Network Type V1 F		
		Load A W 0 0 TEST ON LOAD	Wh 0 TEST OFF LOAD	Remote Control A	uto Inhibit	Alarm	

• "Metering" tab

Unitor	Load analysis	Metering	6 Settings	Counters	X Timers	I/O Input/Output	Exerciser		≡					🗚 🎘 WEBVIEW-M V2.4 👩
	Benfled / ATyS	C65 / Load O	66					8						2020/01/02 09:47:15
	er values	_	Power va	alues										
	inergy		Source 1						Source 2					
	inergy.	_			S1 - Pow V/	er Level				S2 - Powe VA	r Level			
			Capacity					0	Capacity			0		
			Hysteresis					0	Hysteresis			0		
			General											
Ð					Active I W	Power				Apparent VA	Power			ve Power var
			P1					0	S1			.0	Q1	0
			P2					0	S2			0	Q2	0
			P3					0	53			0	Q3	0
			Total					0	Total			0	Total	0
					Power	Factor								
			u					0						
			L2					0						
			L3					0						
			Total					0						
D														

• "Settings" tab

Load analysis	ring Settings Counters Times I/O	=			3 🛦 🍃	WEBVIEW-M V
Monitor Benfled / ATyS C65 /						2020/01/02 09
Settings						
ieneral Settings		Source 1				
	Parameters		Lower			Upper
Network Type		P+N		Vac - Hz	(%)	Vac - Hz
hase Rotation		ABC Voltage Thresholds	85	195.5V	115	26
Iominal Voltage V		30V Voltage Hysteresis	95	218.5V	110	
lominal Frequency		OHz Frequency Thresholds	95	47.5Hz	105	5.
ype of Application	Main - Ge		97	48.5Hz	103	51
riority - TEST ON LOAD		No Voltage Unbalance Threshold		0		
riority - EXTERNAL ON LOAD		No Voltage Unbalance Hysteresis		0		
Priority - Supply Source	Sou	ce 1 Source 2				
Manual Retransfer		No				
witch technology	Conta	ictor	(%)	Vac - Hz	- (%)	Upper Vac - Hz
T ratio primary	4	A00			1000	CLOCKED WITH CO
T ratio secondary		5A Voltage Thresholds	85	195.5V	115	2
		Voltage Hysteresis	95	218.5V 47.5Hz	110	
		Frequency Thresholds	95	47.5Hz 48.5Hz	105	5:
		Frequency Hysteresis Voltage Unbalance Threshold	97		103	5.
		Voltage Unbalance Threshold		0		
		vortage unbalance Hysteresis		0		

• "Counters" tab

	≣ X										з🛕 襗 WEBVIEW-M V2.4 🙇
		Load analysis	Metering	6 Settings	(Counters		I/O Kerciser				
		Benfled / ATys	S C6S / Load C	66							2020/01/02 09:49:18
	Counters										
	counters										
4			Cycle Counte	er - Auto				GENSET Counters		Source Supp	10 July 10 Jul
	Full Cycle I-0-II-0-I					42			68	Load supplied from source I Load supplied from source II	15 d 22 h 46 m 2 s 1 d 16 h 2 m 4 s
	Switch to position 0 Switch to position I					82	and the second		4 d 8 h 12 m 32 s d 15 h 54 m 44 s	Load supplied from source II	1 d 16 h 2 m 4 s
	Switch to position I Switch to position II					36		1	d 15 n 54 m 44 s		
	Switch to position if					50					
		Cycle	e Counter - Re	smote Control							
	Full Cycle I-0-II-0-I					21					
Ð	Switch to position 0					62					
	Switch to position I					32					
	Switch to position II					51					

• "Timers" tab

Monitor		and the second se	Couput Exerciser				3 🔁 🎘 WEBVIEN	V-M V2.
Benfled / ATyS C65 / Load C66							2020/	01/02 09:50
Timers Source 1		_	Source 2			Positic		
S1 fail timer	1FT	35	Source 2	2FT	35	Dead band timer source 1	DBT1	
S1 availability/stabilization timer	IRT	1805	S2 availability/stabilization timer	2AT	55	Dead band timer source 2	DBT2	
S1 maintain request timer (cooldown timer)	107		S2 maintain request timer (cooldown timer)	2CT	180s			
Return to 0 from S1 Timer	10T	25	Return to 0 from S2 Timer	20T	105			
S1 Start Timeout Timer	1ST		S2 Start Timeout Timer	2ST	30s			
Load Shedding			In-Phase Transfer	ê.		Eleva	lor	
Pre-Transfer Load Shedding Duration	LSD	45	In-phase transfer delay	IPD	180s	Elevator delay	ELD	2
Post-Transfer Load Shedding Duration	LSR	15				Elevator reset timer	ELR	
Data center								
Data center compressor timer	DCT	205						

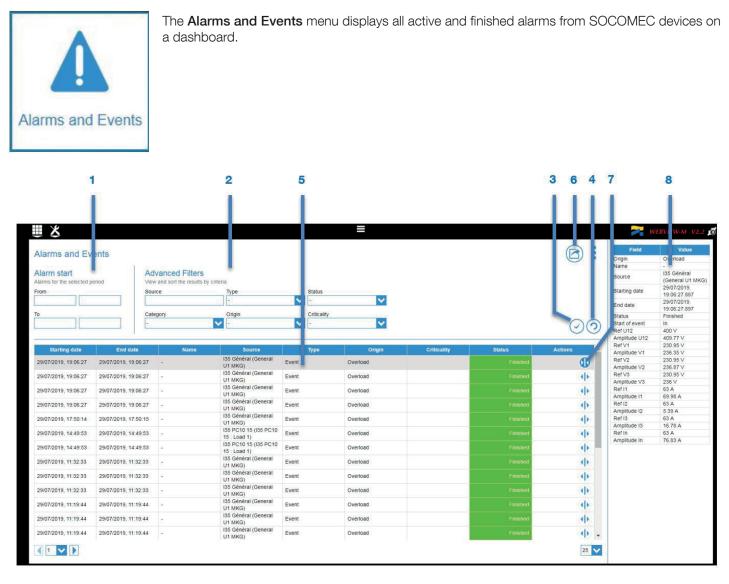
• "Input/Output" tab

Image: State Stat
Inputs Name Function Mode Status Input 1 AC1 - Device in position I Closed Imput 2 PO2 - Switch to position I Open Input 2 AC2 - Device in position I Closed Imput 2 PO1 - Switch to position I Open Input 3 REC - Device in "Remote control" mode Closed Imput 2 PO1 - Switch to position I Open Input 4 P52 - Go to position I Open Imput 3 Closed Imput 4 Dutput 4 LSD - Load shedding Open Input 5 IS2 - Inhibit source 2 Open Imput 5 DCT - Compressor Open Imput 5
Name Function Mode Stars Name Function Mode Stars Input 1 AC1 - Device in position 1 Closed Imput 2 Corperting Opput 1 PO2 - Switch to position 1 Opput 2 PO1 - Switch to position 1 Opput 2 PO1 - Switch to position 1 Opput 2 PO1 - Switch to position 1 Opput 3 R.T - Faults active Opput 3 PO1 - Switch to position 1 Opput 3 <t< th=""></t<>
Input 1 AC1 - Device in position I Closed Output 1 PO2 - Switch to position II Open Input 2 AC2 - Device in position II Closed Imput 2 PO1 - Switch to position II Open Open Input 3 REC - Device in "Remote control" mode Closed Imput 3 RLT - Faults active Open Open Input 4 PS2 - Go to position II Open Open Output 3 RLT - Faults active Open Open Input 5 IS2 - Inhibit source 2 Open Open Output 5 DCT - Compressor Open Open
Input 2 AC2 - Device in position II Closed Output 2 PD1 - Switch to position I Open Input 3 REC - Device in "Remote control" mode Closed Output 3 R.T - Faults active Open Open Input 4 PS2 - Go to position II Open Open Output 4 LSD - Load shedding Open Open Input 5 IS2 - Inhibit source 2 Open Open Open Output 5 DCT - Compressor Open Open
Input 3 REC - Device in "Remote control" mode Closed Output 3 FLT - Faults active Open Input 4 P52 - Go to position II Open Open Output 4 LSD - Load shedding Open
Input 4 P52 - Go to position II Open Output 4 LSD - Lead shedding Open Input 5 IS2 - Inhibit source 2 Open Open Output 5 DCT - Compressor Open
Input 5 152 - Inhibit source 2 Open Open Output 5 DCT - Compressor Open
Input 6 EDN - External order on load Open Output 6 GS2 - Genset start source 2 Open

• "Exerciser" tab

∰X								=				з🗛 🄀	WEBVIEW-M V2.4
Monitor		Metering	O Settings	Counters	Timers	I/O Input/Outpu	Exerciser						
And a state of the	Benfled / ATyS	C65 / Load C6	6										2020/01/02 09:53:40
Exerciser													
Exerciser													
Custom 1				•									
			Propert	У					RTC(Real time	clock)			
Exerciser Type Set							Not used	Atys Current Date/Time			2020/01/02 10:56:01		
Exerciser Schedule S							Yearly						
Exerciser Start Time Exerciser End Time							00/01/01 00:00:00						
						20	00/01/01 00:00:01						
	a Out												
Exerciser Duration Exerciser Genset Tim	neOut						0 s 2 h 48 m						

8.3. Alarms and events



The Alarms and Events page shows the following functions:

- 1. Selection of the Alarms and Events analysis period
- 2. Filtering **Alarms and Events** by data source (Configured devices), by type (Alarms or EN 50160 events, by alarm category and type, by status (active, finished, finished, not acknowledged etc.), by criticality
- 3. Validates the selection (period and filters)
- 4. Resets the selection (period and filters)
- 5. Displays the result of the selection
- 6. Exports alarm file (zip file with Alarms and Events files)
- 7. Opens the window showing details of the alarm selected (to the right of the screen)
- 8. Window showing alarm details

8.4. Photoview



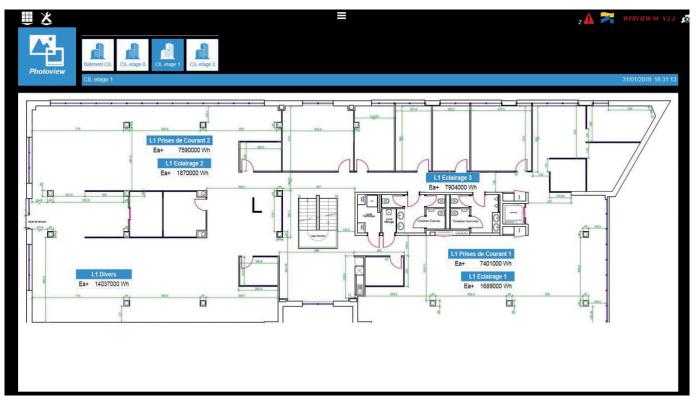
The **Photoview** menu allows you to create a custom dashboard by uploading a picture (site map, electrical panel, single-line diagram etc.) and to drag & drop real time measurements directly on the chosen picture.

Below is a Photoview page based on a picture of the SOCOMEC CIL building, including links to the different floors, pictograms of devices and measurement tables.



- 1. Tabs of the different Photoview pages created
- 2. Hypertext link to access another Photoview page: option to create a page tree view
- Text box
 Device icon
- 5. Table of measurements

Below is the Photoview page of the 1st floor of SOCOMEC CIL building, based on a picture of the floor plan and including various measurements related to this area.



When clicking on the various added elements (e.g. a measurement table), the user is redirected to the "Monitor" menu of the associated device.

Below is a second example of a Photoview page, showing a LV switchboard with the various measurements related to each outgoing feeders.



8.5. Consumptions

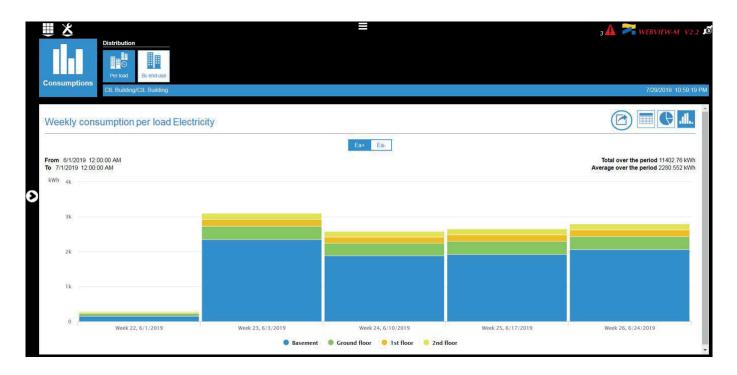


The **Consumptions** menu allows a representation of energy flows consumed by the different loads over specific time periods.

Open the left pane to organise the consumption visualisation by hierarchy, use or utility (fluid) and to choose the time period.

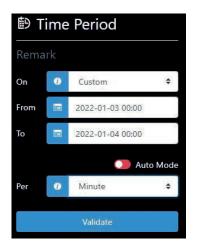
The **Consumptions** menu offers 2 predefined presentation modes: by load or by usage, based on the hierarchies which have been configured. If no hierarchy has been created, there will be no breakdown of consumptions. The interface will therefore propose a simple view of the consumptions and provide energy indexes recorded per device.

For example, a breakdown of the CIL building's energy consumptions by load for the week of 06/10/2019 to 06/16/2019



Clicking on a consumption bar displays more detailed time data: Month -> Week -> Day -> Hour

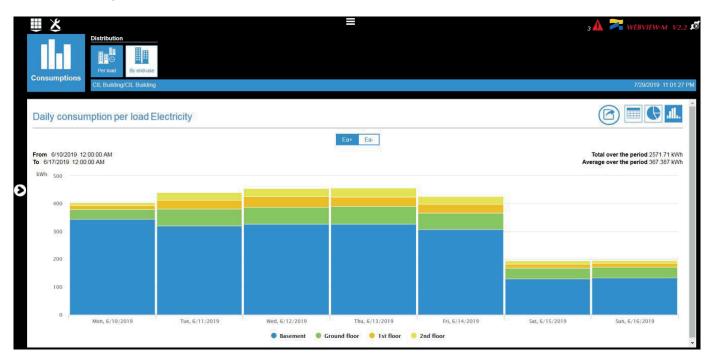
To display consumption curves with a resolution below the hour, open the left pane and in the "Time Period" section, disable "Auto mode" and select "Per minute":





To be able to display consumption per minute, make sure the integration period of consumption curves configured in Easy Config System on the M-70 gateway / D-70 display is consistent (below 60 minutes).

For example, clicking on the weekly bar displays daily consumptions.



By clicking on one of the load names ("Basement" in the example below), it can be removed from the graph. The total consumption value given in the top right corner is also updated when loads are selected / unselected:



Other graphical representations are available:

• Pie chart

Distribution	≡	з 🛕 襗 webview-м v2.2 🗷
Consumptions		
CIL Building/CIL Building		7/29/2019_11:14:58 PM
Daily consumption per load Electricity		
	Ea+ Ea-	
From 6/10/2019 12:00:00 AM To 6/17/2019 12:00:00 AM		Total over the period 2571.71 kWh
	Cround floor (14.0 %)	
	Basement Ground floor O Ist floor 2nd floor	

• Table view

aily consum	ption per load Ele	ctricity				6
				Ea+	Ea-	
	All areas Total kWh	Basement kWh	Ground floor kWh	1st floor kWh	2nd floor kWh	
Total	2571.71	1887.71	359	178	147	
Verage	367.387	269.672	51.285	25.428	21	
Ion, 6/10/2019	404.01	344.01	36	14	10	
ue, 6/11/2019	440.33	320.33	61	32	27	
Ved, 6/12/2019	455.68	326.68	61	38	30	
hu, 6/13/2019	456.79	326.79	64	34	32	
ri, 6/14/2019	426.12	308.12	59	32	27	
Sat, 6/15/2019	193.25	129.25	39	14	11	
Sun, 6/16/2019	195.53	132.53	39	14	10	

8.6. Trends



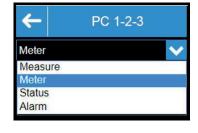
The **Trends** menu displays measurement logs (historical measurements) collected by the devices over the time period selected in the left pane.

First go to the left pane and select the measurements you want to show on the graph.

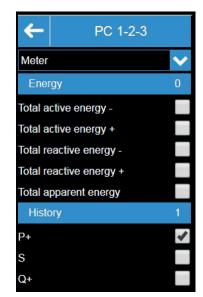
1. Select an area, then select a device within this area, and a circuit for this device (in our case a DIRIS Digiware I-35 module located in the "Factory 2" and measuring a circuit named "PC 1-2-3").

🛧 Organization	E
View	
Area	\$
Filters	
T	
Navigation	
Area > Factory 2 > 1-35@11	
PC 1-2-3	

2. Select the data category (Measure, Meter, Status, Alarm).

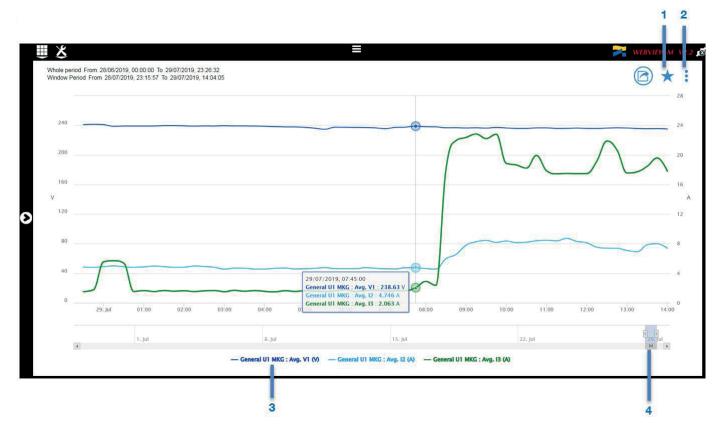


3. Check the type of data in the category. Please note that a variable is only proposed if it has been selected beforehand during the configuration of the equipment from the Easy Config System software.



When selecting the data types, the trends are automatically displayed, over the chosen time period, with scale information on both sides of the graph, according to the different units measured.

You can choose to show several parameters with different units (e.g. voltage, current, power), from one or multiple devices.



Create favourites: allows to freeze and save the data selection for later retrieval

d to favorites	
Favorite title	()
Favorite name	()

Configuration pane

Configuration



- 1. Enter a name and title for the favourite created
- 2. Open the configuration pane
- 3. Data displayed on the graph: show/hide the curves by clicking on the name of the data
- 4. Selection range within the time period: zoom in on a time period to see the range you want to analyse in detail

- 1. Change the display mode: several measurements on the same graph or several graphs superimposed on the same time period.
- 2. Change the scaling type: by default the graph starts from 0, but click on the selector to centre the graph around the minimum and maximum value.
- 3. Display of the data table for the chosen time period
- 4. Option to select or delete data

9. SETTINGS

Before being able to use the different features offered by WEBVIEW-M, the application must be configured. This section describes the different settings in detail.

You need to log in as Administrator (Admin) or Cyber security to access the configuration interface for Devices and Hierarchies.



- 1. Customise Profile: to change the passwords of the different profiles
- 2. Customise Application Customisation: to customise the interface of WEBVIEW (company logo and background pictures)
- 3. Customise Devices: to configure your measurement system's architecture and visualisation options
- 4. Diagnosis Diagnosis: displays information on the M-xx gateway / D-xx display and downstream devices. Helpful for troubleshooting
- 5. Diagnosis Protocols: to configure the communication protocols and network services of the M-xx gateway / D-xx display
- 6. Diagnosis System: to perform system actions on the M-xx gateway / D-xx display such as a back-up/restore of configuration and data, or a firmware upgrade
- 7. Security Cyber Security: only available with the Cyber security profile, it enables to implement a custom cyber-security policy to secure the access and transmission of data

9.1. Diagnosis - Diagnosis **₩**× 🗚 🌌 WEBVIEW-M V2.7 🔬 Diagnosis 0)7)1 Webview version : 2.7.11.6 (release/2.7) Edition : WEBVIEW-M Serial number : 53905124153 Host : 10.67.96.167 Total space : 3.7 GiB Hostname : SESBCES Host : 10.67.96.167 Used space : 62.9 Mil Maximum handled devices : 33 Subnet mask : 255,255,248.0 Firmware : 2.5.12.115 Created on : 12/1/2021, 11:38:00 AM Hardware date : 1/3/2022, 5:10:36 PM Gateway : 10.67.103.254 Details History/Alarms : Active State : Not started Last connection : 1/1/2000, 12:00:00 AM Profile version : 0 State : Inactive A State : Acti Address : 1 Frames sent : 37582 Frames received : 37497 Consumptions : Active SMTP : Inactive Frames sent : 9 Last SMTP activity : -Frames received : 0 SNTP : Last SNTP activity : -FTP : Inactive Last FTP activity : 1/1/2000, 12:00:00 AM

- 1. Global detailed analysis of the M-xx gateway / D-xx display's status and settings
- 2. Devices detailed list of devices connected to the M-xx gateway/D-xx display
- 3. To reboot the M-xx gateway/D-xx display
- 4. To reset communication information
- 5. To export the Syslog event file from the M-xx gateway / D-xx display. This file lists and timestamps all events that occurred

9.2. Diagnosis - Protocols

The "Protocols" menu allows you to configure all communication protocols and services of the M-xx gateway / D-xx display.



• Network Configuration

From the "Protocols" menu, the "Network configuration" tab allows you to modify the M-xx gateway / D-xx display's IP configuration:

₩¥			1 🔺 🄀	WEBVIEW-M V2.7
Protocols		Email		2021/12/20 17:40:54
Network Configuration				
IP Configuration	Prox	y (VLAN	
General	Enable	e Proxy	Enable VLAN filtering	
Enable DHCP				
Address	10.67.96.167			
Mask	255.255.248.0			
Gateway	10.67.103.254			
Advanced				
DNS	172.23.14.54			
Domain name	soc-grp.net			
Host name	SE5BCE5			

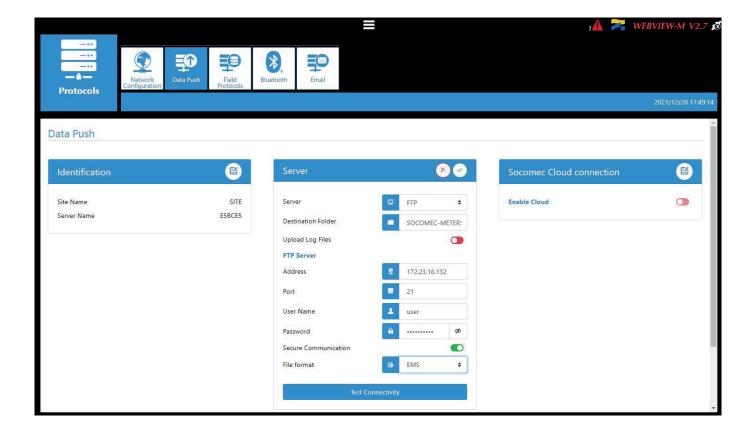
- Data Push
 - Identification
 - o Site name: This setting is essential to connect the M-xx gateway / D-xx display to a physical location within the project structure. Default Site name is "SITE" and must be changed (in EMS export mode only) or a system alarm (FTP error) will be triggered.
 - o Server name: Unique identifier of the M-xx gateway / D-xx display. The default server name is the NET ID, marked on the front face of the M-50/M-70 gateway and shown on the home screen of the D-50/D-70 display.

₩ ×				1 🗛 🚬 w	EBVIEW-M V2.7
Protocols		etooth Email			2021/12/20 16:54:18
Data Push					
Identification	ß	Server		Socomec Cloud connection	ß
Site Name Server Name	SITE ESBCES	Server Destination Folder Upload Log Files	None -	Enable Cloud	
Azure Cloud connection	e				
Enable Cloud					
4					

- Server
 - o Server: To send data files to a remote server, the Administrator selects the FTP(S) server
 - o Destination folder: Enter the remote server directory for receiving the files
 - o Upload log files: Select if you want the gateway/display to also send the log file to the remote server
 - o Address: Enter the IP address of the remote server
 - o Port: Enter the software port (usually 20 or 21 for FTP)
 - o User name: enter the login to access the remote server
 - o Password: enter the password to access the remote server
 - o Secure communication: open a secure session between the gateway and the remote server
 - o File format: there are 2 types of file to export the data (CSV and EMS see appendices 1 and 2). The CSV format is easier to use while EMS is better for importing data into external energy management software.
 - o Test connectivity: Test the FTP export function



Once the data push server has been configured, go to the «Devices» menu, then the «Planning» tab to configure the type of data to be exported as well as the export frequency of each data type. Refer to chapter 9.9 - "Datalogger" for more information.



- Field protocols
 - Communication: allows you to configure the different field protocols that the M-xx gateway / D-xx display can use to communicate to external energy management systems.

				n 🏊 襗 WEBVIEW-M V2.7 🔬
		etooth Email		2021/12/20 16:42:34
Communication				
Modbus over RS485	ß	BACnet	80	
Master Address Speed Stop Bit Parity	1 38400 1 None	BACnet Activation Virtual Network ID Main Instance ID	 ▲ 48357 ● 100 	
SNMP			e	
SNMP Activation				
SNTP				•

- Time: allows you to configure an SNTP server to automatically synchronise the clock of the M-xx gateway / D-xx display to an external computer.

					1 🗛 🌌	WEBVIEW-M V2.7
Netw Protocols		Field Bluetooth	Email			
						2021/12/20 17:54:22
SNMP						
SNMP Activation						
me						
ime						
ime SNTP						
2 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	8					
SNTP	2021/12/20 1					
SNTP Enable SNTP		•• 17:51:08				
SNTP Enable SNTP Current Date	2021/12/20 1	•• 17:51:08				
SNTP Enable SNTP Current Date Address	2021/12/20 1 2 0.pool.ntp.org	•• 17:51:08				
SNTP Enable SNTP Current Date Address Port	2021/12/20 1	•• 17:51:08				

• Email

This tab allows you to configure an SMTP server for email notifications in case of alarms on a slave device connected to the M-xx gateway / D-xx display, or an alarm on the gateway itself.

				s🛦 襗 WEBVIEW-M V2.7 🙍
Network	Data Push Field Protocols	Bluetooth		
PIOLOCOIS				2022/01/06 13:17:02
Email				
The second				
SMTP		80		
Activation				
Host	0.0.0.0			
Port	Ø 465			
Secured connection				
Activate Authentication	2 user			
Password	A	0 0		



Once the SMTP server has been configured, go to the "Devices" menu, "Notifications" tab to configure the email notification settings (source and recipient email address, notification frequency etc.). Refer to chapter 9.10 - "Notifications" for more information.

9.3. Diagnosis - System

The "System" menu allows to perform system actions such as a back-up/Restore or a firmware upgrade of the M-xx gateway / D-xx display.

• Back-up/Restore

The "Back-up/Restore" tab allows you to back up the configuration and measurements of your M-xx gateway / D-xx display on an external drive and to restore them on the same or on a different M-xx gateway / D-xx display in the event of an attack leading to a loss of data or malfunction.



It is recommended to back up your M-xx gateway / D-xx display on a regular basis to avoid undergoing a loss of data on WEBVIEW.

	O Upgrade	=		т 🔥 🔁 WEBVIEW-M V2.
System				2022/01/05 18;0
Backup			Reset	
Sackup Type	Topology And Settin	ngs. 🔶	Reset topology	Start reset
Vew password*	8	@ Ø		
Confirm password"	- A	0 ø		
commin password				
	word carefully. It will be required to restore y	our backup: Ok, I understand		
It is necessary to save your passy	word carefully. It will be required to restore y			

Backup part

- Backup Type: choose the type of back-up: topology and settings only or a full backup (topology + settings + data).
- Password: choose a password and save it somewhere safe. The same password will be required during the Restore process.

Restore part

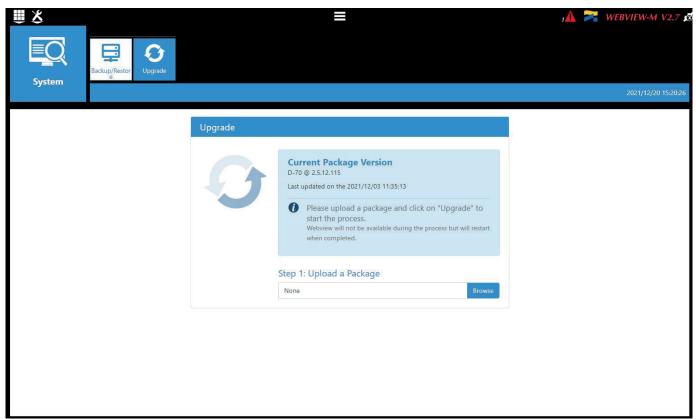
Upload your backup file, enter the password used during the backup process.

Reset part

You can reset the topology of the M-xx gateway / D-xx display. This will erase all devices previously added.

• Upgrade

The "Upgrade" tab allows to upgrade the firmware of the M-xx gateway / D-xx display.



Upload the desired firmware package (.dfu file) by clicking on the "Browse" button.

Wait until the package is loaded, and once package consistency check is finished, click on "Upgrade".

Once the upgrade is finished, the web page will reload automatically.

9.4. Security – Cyber Security

The Cyber Security menu is only available when logged in as Cyber security.



The Cyber Security menu allows you to:

- Define a custom security policy
- Secure the client-server communication (HTTPS, FTPS, SMTPS)
- Prevent flooding attacks by implementing a firewall in the gateway/display.

Their implementation is explained in paragraphs 9.4.1 through 9.4.4.

9.4.1. "Security Policy" tab

You can reduce the attack exposure of the gateway/display by disabling certain peripherals or services that are not essential to your use case:

Cyber Security				s A	2022/01/14 10:2407
Web server					
Cybersecurity Banner	8	Session	B		
Display Cybersecurity Banner Explains the legal risks in case of system hacking		Maximum Login Attempts Before Ban Ban Duration (seconds) Session Duration (seconds)	3 3600 86400		
Enabling Devices		Enabling Protocols			
Peripherals	1	Field Protocols		Data Push	
USB Bluetooth Mobile Devices Modbus slave over RS485	0	Modbus over Ethernet Writing SNMP BACnet	0000	Secome: Cloud Platform Connection Data Export FTPS Mandatory	
		Email			
		SMTP SMTPS Mandatory	5		

Cybersecurity Banner

Choose if you want to display the cybersecurity banner which explains the legal risks in case of system hacking. The message will be displayed on login page.

Session

You can customise the session policy (maximum login attempts before profile lockout, lockout duration and session duration).

Peripherals

- USB: disable the USB port
- Bluetooth Low Energy: disable the Bluetooth Low Energy
- RS485 port: authorise or disable Modbus communication on the RS485 port

Email

- Make the secure version of SMTP mandatory for email notifications in case of alarms

Field protocols

- Modbus Write function: authorise or disable to prevent people from changing settings over Modbus
- SNMP: activate or deactivate the SNMP protocol
- BACnet: activate or deactivate the BACnet protocol

Data push

- Socomec cloud platform: authorise or block the export of data to the Socomec platform
- Data export, FTPS mandatory: force the data export to an FTP server with a secure connection

9.4.2. "HTTPS" tab

The HTTPS tab allows you to upload a digital certificate to secure the web navigation:

U Security Policy	НТТР5	CAs Firewall			1 🛦 渚 WEBVIEW-M V2.7 🟚
Cyber Security	(FTP	CAs Firewall S/SMTPS)			2021/12/20 15:06:34
TLS/SSL					
	Upload Cert	ificate	8	Editing HTTPS Set	tings
	Certificate	None	Browse	Secured : No Port : 80	
	Private Key	None	Browse		
				Current Certificate No certificate uploaded	2

The M-xx gateway / D-xx display will accept a digital certificate under the .pem format. Once a digital certificate and private key has been uploaded, you can edit HTTPS settings to secure the web navigation.

 The M-xx gateway / D-xx display are compatible with RSA and ECDSA (Elliptic Curve Digital Signature Algorithm) digital certificates. The use of ECDSA digital certificates is recommended to optimise the speed of the web navigation.

• The private key size must not exceed 2048 Bits.

9.4.3. "CAs (FTPS/SMTPS)" tab

This tab allows a secure client (M-xx gateway / D-xx display) to server (FTP, SMTP) communication by adding the relevant certificate authorities within the client.

Some of the most common Certificate authorities are already included to the M-xx gateway / D-xx display, but you can add others if necessary.

		, ▲ ≍ 1	WEBVIEW-M V2.7 🗭
Cyber Security Policy HTTPS (CAS (FTPS/SMTPS)) Firew			2021/12/20 15:08:33
CAs (FTPS/SMTPS)			
Add a new certificate None	Browse		
Delivered to	Delivered by	Expiration	Actions
DST Root CA X3	DST Root CA X3	2021/09/30 14:01:15	•
GlobalSign	GlobalSign	2021/12/15 08:00:00	•
AlphaSSL CA - SHA256 - G2	GlobalSign Root CA	2024/02/20 10:00:00	•
Baltimore CyberTrust Root	Baltimore CyberTrust Root	2025/05/12 23:59:00	•
GlobalSign Root CA	GlobalSign Root CA	2028/01/28 12:00:00	•
COMODO RSA Certification Authority	COMODO RSA Certification Authority	2038/01/18 23:59:59	•
			10 🕈

Refer to appendix 3 for more information on how to find and upload a server's CA to a DIRIS Digiware M-xx gateway / D-xx display.

L

9.4.4. "Firewall" tab

This tab allows you to implement a firewall to protect against Deny-Of-Service attacks also called Flooding attacks by entering a max bandwidth in bit/s and a max number of requests per second:

Cyber Security (FTPS/SMTPS)	ewall				1 🔁 🔀 W	EBVIEW-M V2.7 🟚 2021/12/20 15:12:49
Firewall	7 <u>2</u>					
Firewall configuration	Whitelist					
Protection against denial-of-service	Enable Whitelist				A	dd a Rule
Max bandwidth (bit/s) 1000000	🚺 Whitelist chang	e will not cut opened session. A i	reboot of the gateway is I	needed.		
Max requests per second 2000	Rule Name	MAC Address	IP Address	Protocols	Ports	Actions
	Rule 2	*	*,*,*,*	HTTP	80	
	Rule 1	*	****	DHCP, DNS	67,53	

Firewall

A MAC address exceeding one of the above parameters while communicating to the gateway/display will be blocked for 30 seconds.

Whitelist

The Whitelist part allows to add rules to filter MAC Addresses / IP Addresses / Protocols / Ports which can or can't connect to the M-xx gateway / D-xx display.

Up to 10 rules can be set.



"*" in the MAC address column allows all MAC addresses.
192.168.*.* allows all IP addresses starting with 192.168.

9.5. Customise - Devices

This is where the Administrator configures his measurement system architecture.



9.6. Device creation

9.6.1. Sources tab

The "Sources" tab displays all devices in the M-xx gateway / D-xx display's topology.

Devices	Architecture			Notifications				2022/01/	/06 00:25
ources								Modbus	٠
search		\odot \odot						Select all the	e product
Reference	Name	Area	IP address	Modbus address	Network Type	NetworkID	Status	Actions	
-70	D-70		localhost	1	None / Unknown	E5BCE5			
35	I-35@4		localhost	4	3P+N	E34C91			
-30	U-30@6		localhost	6	3P+N	D503BA			0
5-10	10-10@7		localhost	7	None / Unknown	C0E45D		(1)(0)	0
35	1-35@8		localhost	8	3P+N	7E229C		(1)(0)	0
1.20 (] • [10-30@8		localbort		30+N	ATENEA		FRICA	10 •

When accessing the "Sources" menu for the first time, WEBVIEW will automatically load the devices present in the M-xx gateway / D-xx display's topology.

To load new devices present in the topology, you must click on in the bottom right corner for them to be added to WEBVIEW.

Devices can also be added manually to WEBVIEW, one at a time.

Everytime the auto-discovery process is launched from the DIRIS Digiware M-xx gateway or D-xx display, the topology in WEBVIEW must be synchronised by clicking on () in the bottom right corner.

9.6.2. Adding devices one at a time

Click on the "+" icon for manually adding devices one at a time. Adding an M-xx gateway or D-xx display will also add their entire topology (all devices connected downstream).

The Administrator selects the reference of the new device and fills out all the fields related to that device (name, area, IP address and Modbus address).

After validation, the device is added to the sources list and its loads, as configured in the device are added to the "Circuits" menu.

+ Add a device	
Reference	Name
D-50	¢ 0
Area	IP address
8	2 localhost
Modbus address	
•	0
	Cancel OK

The various SOCOMEC devices that are supported by WEBVIEW-M are given in the following list:

Gateways D-50	DIRIS Digiware	COUNTIS Ci	DIRIS A A-10	Switches ATyS p M
D-50v2	I-30	E03	A-20	C55
D-70	I-30 dc	E04	A-30	C65
G-30/G-40	I-31	E13	A-40	C66
G-50/G-60	I-33	E14	A-40 Ethernet	
M-50	I-35	E17	A-40 Profibus	DIRIS A Old
M-70	I-35 dc	E18	A14	A10
	1-43	E23	A17	A20
DIRIS B	I-45	E24	A17 2In	A20v2
B-10	I-60	E27	A17 THD	A40v2
B-30 RF	I-61	E28	A17 THD In	A40v3
B-30 RS485	IO-10	E33	A60	
	IO-20	E34	A80	
	S-130	E43		
	S-135	E44		
	S-Datacenter	E44R		
	U-10	E47		
	U-20	E48		
	U-30	E53		
	U-31 dc	ECI32		
	U-32 dc R-60	ECI3		

Once all devices have been added in WEBVIEW, the Admin profile allows to:

- Manage devices via the "Sources" tab.
- Manage measurement circuits / loads via the "Circuits" tab.
- Manage usages associated to circuits via the "Usage" tab.

Research ② ③ ○	W-M V2	MEBVIEW				Notifications	Data Logger	4		Salaria Sa	A STATISTICS AND A STATISTICS	
	2/01/06 00:	2022/4									SITE	Devices
D-70 D-70 localhost 1 None / Unknown ESBCES III 1-35 1-35@4 localhost 4 3P+N E34C91 IIII U-30 U-30@6 localhost 6 3P+N D503BA IIIII 10-10 ID-10@7 localhost 7 None / Unknown C0E45D IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	6	4 Modbus Sele 5							S S	0	1	
1-35 1-35 @4 Iocalhost 4 3P+N E34C91 IE U-30 U-30@6 Iocalhost 6 3P+N D503BA IE 10-10 Io-10@7 Iocalhost 7 None/Unknown C0E45D IE 1-35 1-35@8 Iocalhost 8 3P+N 7E229C IE 10-20 Iocalhost 9 3P+N 7E229C IE		Actions	Status	Network ID	Network Type	Modbus address	IP address	a	Area		Nar	Reference
1-35 1-35 @4 Iocalhost 4 3P+N E34C91 IE U-30 U-30@6 Iocalhost 6 3P+N D503BA IE 10-10 Io-10@7 Iocalhost 7 None/Unknown C0E45D IE 1-35 1-35@8 Iocalhost 8 3P+N 7E229C IE 10-20 Iocalhost 9 3P+N 7E229C IE	9 0	10(9		ESBCES	1 None / Unknown		localhost				D-70	D-70
IO-10@7 IO-10@7 Iocalhost 7 None / Unknown C0E45D IE I-35 I-35@8 Iocalhost 8 3P+N 7E229C IE I-0-10 In-20/m8 Incalhost 8 3P+N 7E229C IE	0	~~~~		E34C91	4 3P+N		localhost				I-35@4	1-35
I-35 I-35@8 Iocalhost 8 3P+N 7E229C Image: Colored	0 0			D503BA	6 3P+N		localhost				U-30@6	U-30
In.20 In.2008 In.2008	00			C0E45D	7 None / Unknown		localhost				IO-10@7	IO-10
X I.O. F	00	(2)0		7E229C	8 3P+N		localhost				-35@8	1-35
	11 10	(FR) (A		ATENCA	5 30_N		localhoet				1	1 10 1
)(+										V	U

From the "Sources" tab submenu, the Admin or Cyber security profiles can manage all devices:

- 1. Search a device by name, area, IP address
- 2. Confirm your selection and/or perform a search
- 3. Reset filter to show all devices
- 4. Switch to other sources (from Modbus devices to Bluetooth devices for example)
- 5. Select all the devices of the active page
- 6. Select all the devices of all the pages
- 7. Unselect all the devices of all the pages
- 8. Select a device
- 9. Refresh row (must be done if some settings have been changed in the device using Easy Config System)
- 10. Edit fields for this device
- 11. Set the number of rows per page
- 12. Add a device manually
- 13. Refresh all rows
- 14. Autodetect devices present in the M-xx gateway / D-xx display's topology
- 15. Delete all selected devices. The M-xx gateway / D-xx display cannot be deleted.
- 16. Go from one page to another

9.6.4. Manage measurement circuits - "Circuits" tab

	Architecture		Data Logger Notifi	cations			5	🛛 🏹 WEBVIEW-M V.
Devices		Grouits Usages Hierarchies		(P ications				
al la c	SITE							2022/01/14 16
ircuits		23						Modbus Sel 45rd
9. U	Area	Circuit	Fluid	Index	Usage	Load Type	Status	Actions
-70	Factory 1	D-70	Undefined	-	Undefined	com type	Statup	
-135@3	Cit. Building	PC 4-5-6	Electricity	Load 1	Undefined	3P + N - 3CT (4N81)		(B) [
35@8	Cafeteria	PC 7-8-9	Electricity •	Load 1	Undefined	• 3P + N - 3CT (4NBL)		۵ کې
30@10	Factory 1	U-30@10	Electricity	9	Undefined			
35(0)11	Factory 2	PC 1-2-3	Electricity	Load 1	Indear Lighting	3P + N - SCT (4NIIL)		70
35@12	Shops	PC 10-11-12	Electricity	Load 1	Undefined	3P + N - 3CT (4NBL)		
0-20@14	CII, Building	Humidity level	Undefined	÷	Undefined			
1 1 +	and accurate	×	1.4.4.4.4		فيتعتقيه			10
								(8)

From the "Circuits" tab, where the list of measurement circuits (circuits from the same device are grouped by colour) is displayed, the Administrator can:

- 1. Search by name, area, circuit
- 2. Confirm the selection and/or perform a search
- Reset filter to show all circuits
 Select all the circuits of the active page
 Select all the circuits of all the pages
- 6. Select a circuit
- 7. Edit the field of the selected circuit (name, flow and use)
- 8. Edit the fields of multiple selected circuits (flow and use)

9.6.5. Manage usages - "Usages" tab

Sources Circuit	* * * 4					
		P				
ces	ts Usages Hierarchies Photoviews	Planning Notifications				(004473)
SHE						2022/
	Usage Name	External Key 0	Status	Actions	8	
	Air conditioning	AirConditionning		(2)	1	
	Auxiliary (fan. pumps)	Auxiliary		(2)	0	
	Cold water	ColdWater		E		
	Custom usage	Custom			0	
	Hot water production	DomesticHotWater				
	Heating	Heating			0	
	Hot water	HotWater		(2)		
	4 10				10 •	

WEBVIEW comes with a list of predefined usages which can be associated to each measurement circuit from the "Circuits" tab.

Additional custom usages can also be created in the "Usages" tab, by clicking on the "+" icon. Each custom usage can be renamed to match the site characteristics.

Once custom usages have been created, they can be be associated to measurement circuits from the "Circuits" tab.

Usages are useful to group together consumptions from several loads or areas which belong to the same energy usage.

To view the breakdown of energy consumption, one or several hierarchies must be created.

9.7. Hierarchies

Hierarchies allow to organise measurement points in a tree structure, to have a practical overview of the loads.

A hierarchy generally represents a geographical organisation (site =>building=>areas) allowing to view the energy breakdown across the different areas, loads, and usages.

There are other display modes to choose from: by electrical chart, by the services of an organisation, etc.

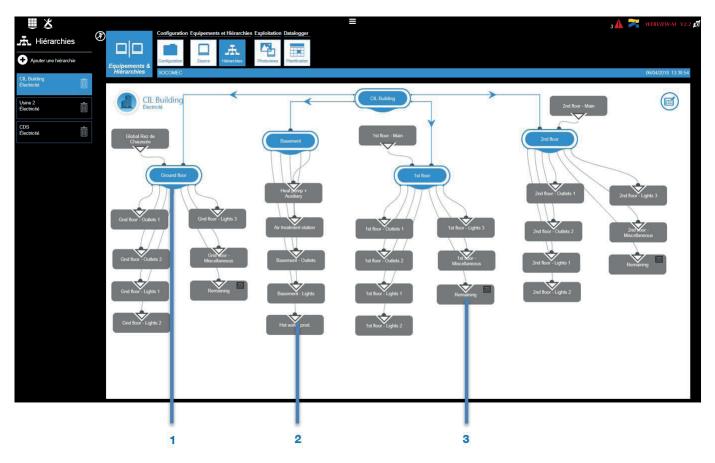
9.7.1. Rules for creating hierarchies

A hierarchy is made up of 3 elements, as follows:

- Node: Splits the tree into various hierarchical levels (max. 32 per hierarchy)
- Hierarchy: Create hierarchical parent/child links between different hierarchies so you can show more complex multi-level hierarchies, with multiple measurement points (example of a multi-level hierarchy: Campus Buildings Floors Corridors)
- Circuits: Correspond to the measurement points carried by a device (max. 50 per hierarchy)
- Non-measured point: Automatically calculates a non-measured circuit.

The rules for creating hierarchies are as follows:

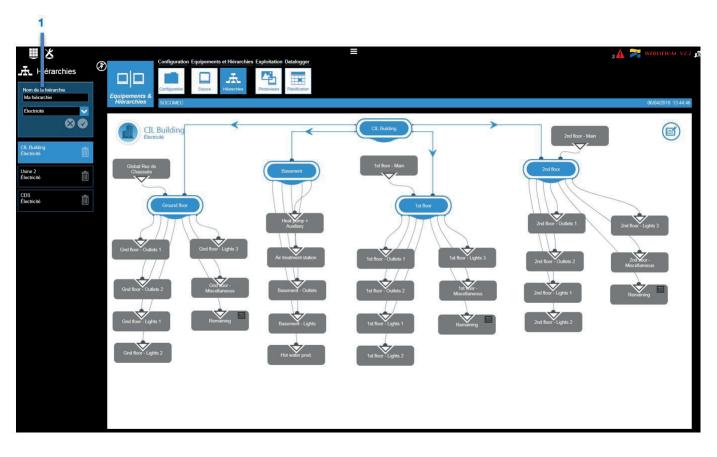
- A hierarchy is for a single utility type (e.g. electricity) and cannot include multiple utilities (water, gas, electricity)
- You can create up to 10 different hierarchies
- The hierarchies can be interlinked to create multi-level hierarchies (levels 1, 2, 3...). This is useful for large-scale power monitoring systems.



- 1. Node
- 2. Circuit
- 3. Non-measured point = (Global 1st floor) (all loads measured on Floor 1)

1. Creating a new hierarchy.

To create a new hierarchy, the Administrator enters a name and selects a utility type (1). After confirming, an empty hierarchy is created containing its main node only.



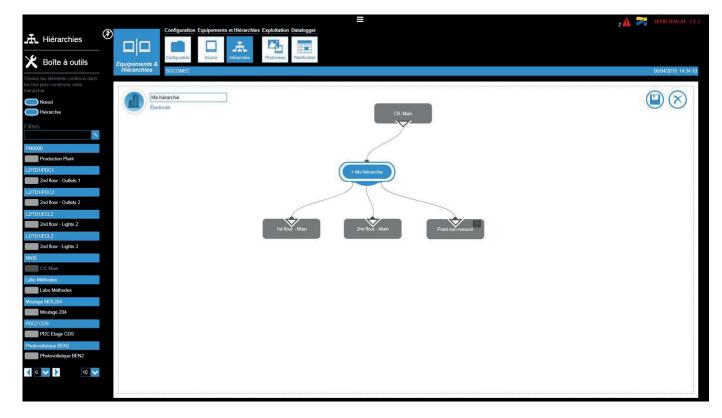
2. Building the hierarchy

To build the hierarchy, the Administrator has different modules to choose from in the left pane (Node, Hierarchy and Load). Just drag & drop the modules onto the hierarchy construction page and create links between them.

Click on a node to rename it.

You can create links between nodes and loads. Set them in the direction of flow, using the mouse to drag a link from the handle under the node, or drag a load to another node/load. A triangle appears on the measuring point indicating the direction of the energy flow.

When you create a link from a load (CIL Main) to a node (My hierarchy), the system automatically generates a Non-Measured Point that automatically computes the delta between the load associated with the node and all the loads attached to that node.



By dragging and dropping a "Hierarchy" module, the Administrator can create parent/child links between the current hierarchy (parent) and the already existing hierarchies (children).

─॑ (▲) (▲) (▲)	Link Towards Hierarchy Select a hierarchy CIL Building CIL Building TESG Usine 2	~
--------------------------	---	---

Once the hierarchy is created, you can visualise the energy consumption breakdown per load and per usage in the Consumption menu accessible from the home page.

9.8. Photoview

Photoview allows you to customise the display of the data using background images of the client (Building Map, single-line diagrams, picture of panel etc.).

Measurement data can be displayed in the form of a value chart, against the background image chosen by the Administrator. Once they are set up, Photoview pages can be viewed by all WEBVIEW-M users.

9.8.1. Rules on creating a Photoview page

Photoview pages can include the following elements:

- Measurement: table summarising the values the Administrator wants to display on the Photoview page
- Text: text field to add comments, titles or any notes the Administrator deems helpful
- Devices: Shows images of SOCOMEC devices on the Photoview page. Click on a hyperlink to go straight to the product monitoring menus (Monitoring)
- Link: creates links between your Photoview pages. You can recreate a multi-level hierarchy of Photoview pages: Campus -Buildings - Floors - Corridors

The rules for creating Photoview pages are as follows:

- One Photoview page can contain all the collected values, regardless of the utility type and associated usages
- You can create 21 Photoview pages
- You can link Photoview pages with hypertext links



- 1. Link
- 2. Text
- 3. Device
- 4. Measurement

1. Creating a Photoview page.

To create a Photoview page, the Administrator chooses a name for the page, selects a symbol to represent it and opens the selection window for the background picture.



2. Selecting the picture

Administrators can upload pictures from their computer, under the following conditions:

- The size of the image must not exceed 10 485 760 bytes
 - The resolution of the image must not exceed 1920 (w) x 1080 (h).



3. Creating the Photoview page

To build the Photoview page, the Administrator can use the various objects in the Toolbox in the left pane (measurement, text, devices and link). As an Administrator, just drag & drop objects to the Photoview page.

• Measurement

When a Measurement object Is added to the background picture, the following window appears. The Administrator can:

- o Select the device
- o Check parameters to display
- o Name the measurement table

	Measures Title 1st floor - Outle	ets 1									Selected Device L1/TD1/PD	
		U/I	Inst.	Avg	Power	Inst.	Ava	Energy	Total	Partial		Display title
	1st floor - Outlets	V1			PF1			Ea+				
	1	V2			PF2			Ea-				
		V3			PF3			Er+				
		U12			PF Tot.							
		U23			P1							
I_ ``		U31			P2							
		11			P3							
		12			P Tot.							
		13			Q1							
		In			Q2							
					Q3							-
						ОК			Cancel			

• Text

When a Text object is added to the background picture, the following window appears. The Administrator can: o Enter the text to display

o Choose the font and background colour

	Text	
	Text	
· +	Color	
	Background color	
	ОК	Cancel
	ОК	Cancel

• Devices

When a Device object is added to the background picture, the following window pops up. The Administrator can:

- o Add a device ("Drop by product") or all the devices from one location ("Drop by location")
- o Choose a display mode: the icon of the selected device or just a clickable area, which can be adjusted and positioned anywhere onto the background picture.

All icons and clickable areas contain a hypertext link to the monitoring page for that device (Monitoring).

Devices Drop by Device Drop by Localization Display mode Display clicon Clickable area	
135 PC10 15	~
ОК	Cancel

• Link

When a Link object is added to the background picture, the following window appears. The Administrator can create a link to another Photoview page.

2	Link Photoview	
	CIL 2nd floor	✓
\sim	ОК	Cancel

Creating links is useful if you have a main switchboard equipped with meters or power monitoring devices, that feeds several subpanels also equipped with meters.

9.9. Datalogger

The Datalogger section is used to collect, store and export data to a third-party server.

Under the "Devices" menu, the "Planning" tab allows you to set the export schedule: the type of data and the export frequency for each data type:

Architecture	Exploitation Data Logge	r Notifications	1 🛦 🏹 WEBVIEW-M V2.7 🧟
Devices	Usages Hierarchies Photoviews Planning	P	
SITE			2021/12/20 17:29:30
Meters	Measurement	Load Curves	
Deactivated	O Deactivated	O Deactivated	
 ● Every ● 1 ● Hours 	Every Every Hours +	Every Every Hours +	
○ Every	○ Every Days \$	C Every Days \$	
0 Hours 0 Minutes	0 Hours 0 Minutes	0 Hours 0 Minutes	

The M-xx gateway / D-xx display exports data files for each type of selected variable:

- Energy index (Ea+/-, Er+/-, Es)
- Measurements: U, I, F, PF etc.
- Load curves: demand power (P+/-, Q+/-, S)

For each type of variable, you can define how often files are sent: every X minutes / hours or at a specific date/time within the day/week.

To understand how to read and use the exported files, refer to annexes 1 and 2.

9.10. Notifications

Arc	hitecture			Exploitation		Data Logger	Notifications			51	🚰 WEBV	TEW-M V	2.7 🗴
	Sources	Circuits	Usages	Hierarchies	Photowiews	Pianning	Notifications						
Devices str	Ē										3	022/01/06 13	84151
Alarms Notification	ns			80									
Source Email Address			gateway@socc	omec.com									
Destination email address	1	1		0									
Destination email address	2	1											
Destination email address	3	1											
Language		۲	English	•									
Criticity		4	Critical	۰									
Minimum sending frequer (minutes)	ncy	0	60										

- Source email address: email address used by the M-xx gateway / D-xx display to send emails.
- Destination email address 1: email address #1 to which email notifications will be sent.
- Destination email address 2: email address #2 to which email notifications will be sent.
- Destination email address 3: email address #3 to which email notifications will be sent.
- Language: language in which emails are sent.
- Criticality of alarms to send: choose to send "information" or "Non critical" or "Critical" alarms.
- Maximum waiting time: Time to wait to receive the email notification after the alarm is triggered on a device. This allows to limit the number of emails sent by the M-xx gateway / D-xx display, especially when the alarm repeatedly changes state

ANNEX I. EXAMPLE OF A DATA FILE EXPORTED TO A REMOTE SERVER – CSV FORMAT

Device name	IP Address	Modbus Address	Begin date	End date
135_102	0.0.0.0	102	2000-01-01T00:00:00	2018-09-26T09:55:00
Load Name	Security lighting Circulation	Security lighting Circulation	Security lighting Storage Metrol	Security lighting Storage Metrol
Usage	Heating	Heating	Heating	Heating
Nature	Elec	Elec	Elec	Elec
Measured value	EA+	EA-	EA+	EA-
Unit	Wh	Wh	Wh	Wh
Scale	1.000000	1.000000	1.000000	1.000000
2018-09-26T09:50:00	0	0	0	0
2018-09-26T09:40:00	0	0	0	0
2018-09-26T09:30:00	0	0	0	0
2018-09-26T09:20:00	0	0	0	0
2018-09-26T09:10:00	0	0	0	0
2018-09-26T09:00:00	0	0	0	0
2018-09-26T08:50:00	0	0	0	0
2018-09-26T08:40:00	0	0	0	0
2018-09-26T08:30:00	0	0	0	0
2018-09-26T08:20:00	0	0	0	0
2018-09-26T08:10:00	0	0	0	0
2018-09-26T08:00:00	0	0	0	0
2018-09-26T07:50:00	0	0	0	0
2018-09-26T07:40:00	0	0	0	0
2018-09-26T07:30:00	0	0	0	0
2018-09-26T07:20:00	0	0	0	0
2018-09-26T07:10:00	0	0	0	0
2018-09-26T07:00:00	0	0	0	0
2018-09-26T06:50:00	0	0	0	0
2018-09-26T06:40:00	0	0	0	0
2018-09-26T06:30:00	0	0	0	0
2018-09-26T06:20:00	0	0	0	0
2018-09-26T06:10:00	0	0	0	0
2018-09-26T06:00:00	0	0	0	0
2018-09-26T05:50:00	0	0	0	0
2018-09-26T05:40:00	0	0	0	0
2018-09-26T05:30:00	0	0	0	0
2018-09-26T05:20:00	0	0	0	0
2018-09-26T05:10:00	0	0	0	0
2018-09-26T05:00:00	0	0	0	0
2018-09-26T04:50:00	0	0	0	0
2018-09-26T04:40:00	0	0	0	0
2018-09-26T04:30:00	0	0	0	0
2018-09-26T04:20:00	0	0	0	0
2018-09-26T04:10:00	0	0	0	0
2018-09-26T04:00:00	0	0	0	0
2018-09-26T03:50:00	0	0	0	0
2018-09-26T03:40:00	0	0	0	0
2018-09-26T03:30:00	0	0	0	0
2018-09-26T03:20:00	0	0	0	0
2018-09-26T03:10:00	0	0	0	0
2018-09-26T03:00:00	0	0	0	0

ANNEX II. EXAMPLE OF A DATA FILE PUBLISHED TO THE RE-MOTE SERVER – EMS FORMAT

In EMS format, the exported files are named as follows:

Site name_Server name_Device name_Data type_Date_Time.csv

Example: If a file is exported with the name **socomec_E5C801_I35_LoadCurve_2019-01-18_15-15-10.csv**, that is, a file exported on January 18th, 2019, at 3:15pm, it contains load curve data from a device called "I35" connected to an M-50/M-70 gateway or D-70/D-75 display whose server name is E5C801 and the site name is "socomec".

Reading the file:

1	Α	В	C	D	E	F	G	Н		J	K	L
1	Data Type	TimeZone	Datation	Transfer Cycle (sec)	Pooling T	i Version	Site name	Server n	ame			
2	Avg	UTC	Local	600	N/A		1 socomec	E5C801				
3												
4	Index Key	Key	Туре	Name	Fluid	Use	Coef	Unit	Path	Device Id	Index	Data Id
5	0	socomec E5C801 14 1 ANA 100006	ANA	THD I1 of PC 1-2-3 of I-35@4	ELEC	Use2	100	%	1	14		1 100006
6	1	socomec E5C801 14 1 ANA 100007	ANA	THD I2 of PC 1-2-3 of I-35@4	ELEC	Use2	100	%	1	14		1 100007
7	2	socomec E5C801 14 1 ANA 100008	ANA	THD I3 of PC 1-2-3 of I-35@4	ELEC	Use2	100	%	1	14		1 100008
8	3	socomec E5C801 14 1 ANA 10023	ANA	I1 AVG of PC 1-2-3 of I-35@4	ELEC	Use2	1000	A	1	14		1 10023
9	4	socomec E5C801 14 1 ANA 10024	ANA	12 AVG of PC 1-2-3 of I-35@4	ELEC	Use2	1000	A	1	14		1 10024
10	5	socomec E5C801 14 1 ANA 10025	ANA	13 AVG of PC 1-2-3 of I-35@4	ELEC	Use2	1000	A	1	14		1 10025
11									0.002			
12	Index Key	Date	Value	Quality					1			
13	0	2019-01-18T15:14:00	234	192								
14	0	2019-01-18T15:13:00	237	192								
15	0	2019-01-18T15:12:00	190	192								
16	0	2019-01-18T15:11:00	201	192								
17	0	2019-01-18T15:10:00	200	192								
18	0	2019-01-18T15:09:00	198	192	2							
19	0	2019-01-18T15:08:00	210	192								
20	0	2019-01-18T15:07:00	231	192								
21	0	2019-01-18T15:06:00	211	192								
22	0	2019-01-18T15:05:00	199	192								
23	1	2019-01-18T15:14:00	20001	192								
24	1	2019-01-18T15:13:00	21605	192								
25	1	2019-01-18T15:12:00	19804	192								
26	1	2019-01-18T15:11:00	20901	192								

The csv file is split into two parts:

- A header section shown in red (1). It provides a unique identification for each variable exported, based on the multiple parameters including the site name and the server name, the data type, the data ID, the device ID.
- The green section (2) contains logged and timestamped data. Each line is identified by a simplified key, an Index Key, which returns to the unique key in cells B5 to B10 in the above image.

The final data of cells C13 to C26 comes from the matching coefficient (cells G5 to G10) and the matching unit (cells H5 to H10).

Example for line 13 of the previous image:

The THD I1 of the circuit PC1-2-3 of the module I-35@4 is equal to 2.34% on January 18th, 2019, at 3.14 pm.



When integrating into a third-party energy monitoring software, remember to **always use the unique ID** from column B in the header section (1) as the import code and not just use the simplified code from column A in section (2). If multiple gateways and/or displays are used and exported to the same remote server, they cannot be separated with the simplified code and you may lose data.

ANNEX III. FIND AND ADD A SERVER'S CA (CERTIFICATE AU-THORITY) TO AN M-XX GATEWAY / D-XX DISPLAY

Requirements:

- 1. An unfiltered internet connection
- 2. OpenSSL software installed

Instructions

> Use the following command:

openssl s_client -connect <server>:<port> -build_chain

> Example for Gmail (SMTP):

openssl s_client -connect smtp.gmail.com:465 -build_chain

> Check the last line of the certificate chain in the command output:

```
$ openssl s_client -connect smtp.gmail.com:465 -build_chain
CONNECTED(00000268)
---
Certificate chain
0 s:CN = smtp.gmail.com
i:C = US, 0 = Google Trust Services LLC, CN = GTS CA 1C3
1 s:C = US, 0 = Google Trust Services LLC, CN = GTS CA 1C3
i:C = US, 0 = Google Trust Services LLC, CN = GTS CA 1C3
i:C = US, 0 = Google Trust Services LLC, CN = GTS Root R1
2 s:C = US, 0 = Google Trust Services LLC, CN = GTS Root R1
i:C = BE, 0 = GlobalSign nv-sa, OU = Root CA, CN = GlobalSign Root CA
```

> Go the corresponding company's website and find the page where you can download the root certificates.

For Gmail, GlobalSign Root CA: https://support.globalsign.com/ca-certificates/root-certificates/globalsign-root-certificates

> Download the PEM (or Base64) certificate.

If the certificate is given as text, copy the text in between BEGIN CERTIFICATE and END CERTIFICATE into a text file and save it with a .pem extension, as shown in the example below:

R1 GlobalSign Root Certificate

GlobalSign Root R1

SHA1 • RSA • 2048

Valid until: 28 January 2028

Serial #: 04:00:00:00:00:01:15:4b:5a:c3:94

Thumbprint: b1:bc:96:8b:d4:f4:9d:62:2a:a8:9a:81:f2:15:01:52:a4:1d:82:9c

Root R1 was GlobalSign's first root certificate embedded in browsers (back in 1999, Netscape and Windows 98), making Root R1 GlobalSign's oldest and most ubiquitous root certificate. The original use case was for personal certificates, but this quickly expanded as GlobalSign's business and expertise broadened. Due to its hash algorithm, GlobalSign will begin scaling back Root R1 use.

View in Base64

Does my browser trust this certificate?

Download Certificate (Binary/DER Encoded)

-----BEGIN CERTIFICATE-----

MIIDdTCCAI2gAwIBAgILBAAAAAABFUtaw5QwDQYJKoZIhvcNAQEFBQAwVzELMAkG A1UEBhMCQkUxGTAXBgNVBAoTEEdsb2JhbFNpZ24gbnYtc2ExEDAOBgNVBAsTB1Jv b3QgQ0ExGzAZBgNVBAMTEkdsb2JhbFNpZ24gUm9vdCBDQTAeFw05ODA5MDExMjAw MDBaFw0yODAxMjgxMjAwMDBaMFcxCzAJBgNVBAYTAkJFMRkwFwYDVQQKExBHbG9i YWxTaWduIG52LXNhMRAwDgYDVQQLEwdSb290IENBMRswGQYDVQQDExJHbG9iYWxT aWdulFJvb3QgQ0EwggEiMA0GCSqGSlb3DQEBAQUAA4IBDwAwggEKAoIBAQDaDuaZ jc6j40+Kfvvxi4Mla+pIH/EqsLmVEQS98GPR4mdmzxzdzxtlK+6NiY6arymAZavp xy0Sy6scTHAHoT0KMM0VjU/43dSMUBUc71DuxC73/OIS8pF94G3VNTCOXkNz8kHp 1Wrjsok6Vjk4bwY8iGlbKk3Fp1S4bInMm/k8yuX9ifUSPJJ4ltbcdG6TRGHRjcdG snUOhugZitVtbNV4FpWi6cgKOOvyJBNPc1STE4U6G7weNLWLBYy5d4ux2x8gkasJ U26Qzns3dLlwR5EiUWMWea6xrkEmCMgZK9FGqkjWZCrXgzT/LCrBbBIDSgeF59N8 9iFo7+ryUp9/k5DPAgMBAAGjQjBAMA4GA1UdDwEB/wQEAwIBBjAPBgNVHRMBAf8E BTADAQH/MB0GA1UdDgQWBBRge2YaRQ2XyolQL30EzTSo//z9SzANBgkqhkiG9w0B AQUFAAOCAQEA1nPnfE92012/7LqivjTFKDK1fPxsnCwrvQmeU79rXqoRSLbICKOz yj1hTdNGCbM+w6DjY1Ub8rrvrTnhQ7k4a+YviiY776BQVvnGCv04zcQLcFGUI5gE 38NfINUVyRRBnMRddWQVDf9VMOyGj/8N7yy5Y0b2qvzfvGn9LhJIZJrglfCm7ymP AbEVtQwdpf5pLGkkeB6zpxxxYu7KyJesF12KwvhHhm4qxFYxIdBniYUr+WymXUad DKqC5JIR3XC321Y9YeRq4VzW9v493kHMB65jUr9TU/Qr6cf9tveCX4XSQRjbgbME HMUfpIBvFSDJ3gyICh3WZIXi/EjJKSZp4A==

-----END CERTIFICATE-----

- > Connect to the webserver (WEBVIEW for M-70 / D-70 and WEB-CONFIG for M-50 / D-50) under the Cyber Security profile.
- > Go to the Cyber Security menu:



> Click on the "CAs (FTPS/SMTPS)" tab:

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Cyber Security Policy			2021/12/20 15:08:33
CAs (FTPS/SMTPS)			
Add a new certificate None	Browse		
Delivered to	Delivered by	Expiration	Actions
DST Root CA X3	DST Root CA X3	2021/09/30 14:01:15	•
GlobalSign	GlobalSign	2021/12/15 08:00:00	•
AlphaSSL CA - SHA256 - G2	GlobalSign Root CA	2024/02/20 10:00:00	•
Baltimore CyberTrust Root	Baltimore CyberTrust Root	2025/05/12 23:59:00	•
GlobalSign Root CA	GlobalSign Root CA	2028/01/28 12:00:00	•
COMODO RSA Certification Authority	COMODO RSA Certification Authority	2038/01/18 23:59:59	•
			10 🕈

> Add the previously downloaded PEM file :

Cyber Security Policy Policy HTTPS (FTPS/SMTPS)	Firewall	,A 🏲 V	WEBVIEW-M V2.7
CAs (FTPS/SMTPS)	Browse		
Delivered to	Delivered by	Expiration	Actions
DST Root CA X3	DST Root CA X3	2021/09/30 14:01:15	•
GlobalSign	GlobalSign	2021/12/15 08:00:00	•
AlphaSSL CA - SHA256 - G2	GlobalSign Root CA	2024/02/20 10:00:00	•
Baltimore CyberTrust Root	Baltimore CyberTrust Root	2025/05/12 23:59:00	•
GlobalSign Root CA	GlobalSign Root CA	2028/01/28 12:00:00	•
COMODO RSA Certification Authority	COMODO RSA Certification Authority	2038/01/18 23:59:59	•
			10 \$





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