

Energy server embedded in DATALOG H80

WEBVIEW-L 2.15



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1. DOCUMENTATION

All documentation about the WEBVIEW range is available on the Socomec website at the following address:

https://www.Socomec.com/range-software-solutions_en.html?product=/webview_en.html&view=documentation

Default IP address for H80 units:

- LAN1 port: Fixed IP 192.168.0.3
- LAN2 port: DHCP

2. PRELIMINARY OPERATIONS

It is highly recommended to become thoroughly acquainted with the contents of this manual before configuring and using WEBVIEW-L

Below is the list of compatible browsers:

- Chrome v30 and later (recommended browser)
- Chrome v89 and later
- Firefox v24 and later

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.

To enable access to the various WEBVIEW-L functions, the following protocols and ports must be enabled on the network:

- From users to WEBVIEW-L
 - TCP 80 port (default) for web browsing (HTTP)
 - TCP 443 port (default) for secure web browsing (HTTPS)
 - TCP 3389 port for RDP (Remote Desktop Protocol), if necessary
- From WEBVIEW-L to devices
 - TCP 502 and 503 ports for Modbus queries
 - Port 1900 for SSDP
- From WEBVIEW-L to any FTP/HTTP server for file transfer
 - TCP 21 port for FTP commands
 - TCP 20 port for active mode FTP data
 - TCP 22 port for SFTP file transfer
 - Server TCP ports for passive mode FTP data (use with N'View): 49152-49260
 - TCP 990 port for FTPS commands
 - TCP 989 port for active mode FTPS data
 - TCP 80 port for HTTP file transfer
 - TCP 443 port for HTTP file transfer
- From WEBVIEW-L to an SNTP server for temporal synchronisation
 - TCP 123 port

3. INTRODUCTION

3.1. About WEBVIEW

WEBVIEW is real-time software to monitor facilities, track energy consumption and check the insulation of IT electrical networks. It is integrated into the DIRIS A-40 measuring unit, the DIRIS Digiware D-70 communication gateway, the DIRIS Digiware D-70 and ISOM Digiware D-75 displays, and the DATALOG H80 datalogger.

It is designed for technical users who want a simple, ergonomic and efficient tool to analyse any malfunctions of facilities quickly and ensure energy efficiency.

WEBVIEW-S

Single device

WEBVIEW-M

Up to 32 devices

WEBVIEW-L

Up to 500 devices



DIRIS A-40



ISOM Digiware D-75



DIRIS Digiware D-70



DIRIS Digiware M-70



DATALOG H80

WEBVIEW collects data from the range of DIRIS Digiware devices, DIRIS A and DIRIS B measuring units, COUNTIS energy meters, ISOM Digiware insulation checking 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.

3.2. Versions

There are different versions of the WEBVIEW software:

WEBVIEW versions	Hosting	Functions
WEBVIEW-S	DIRIS A-40 Ethernet	Monitor Alarms and events Consumption Data logging
WEBVIEW-M	DIRIS Digiware M-70/D-70 ISOM Digiware D-75 ISOM Digiware D-75h	Monitor Alarms and events Photoview Consumption Data logging
WEBVIEW-L	DATALOG H80	Monitor Alarms and events Photoview Consumption Data logging

WEBVIEW-L is available in two versions:

- WEBVIEW-L100: up to 100 devices
- WEBVIEW-L - 547986E - SOCOMEC

- WEBVIEW-L200: up to 200 devices
- WEBVIEW-L500: up to 500 devices

This operating manual describes the functions and configuration services of the WEBVIEW-L version hosted in DATA-LOG H80.

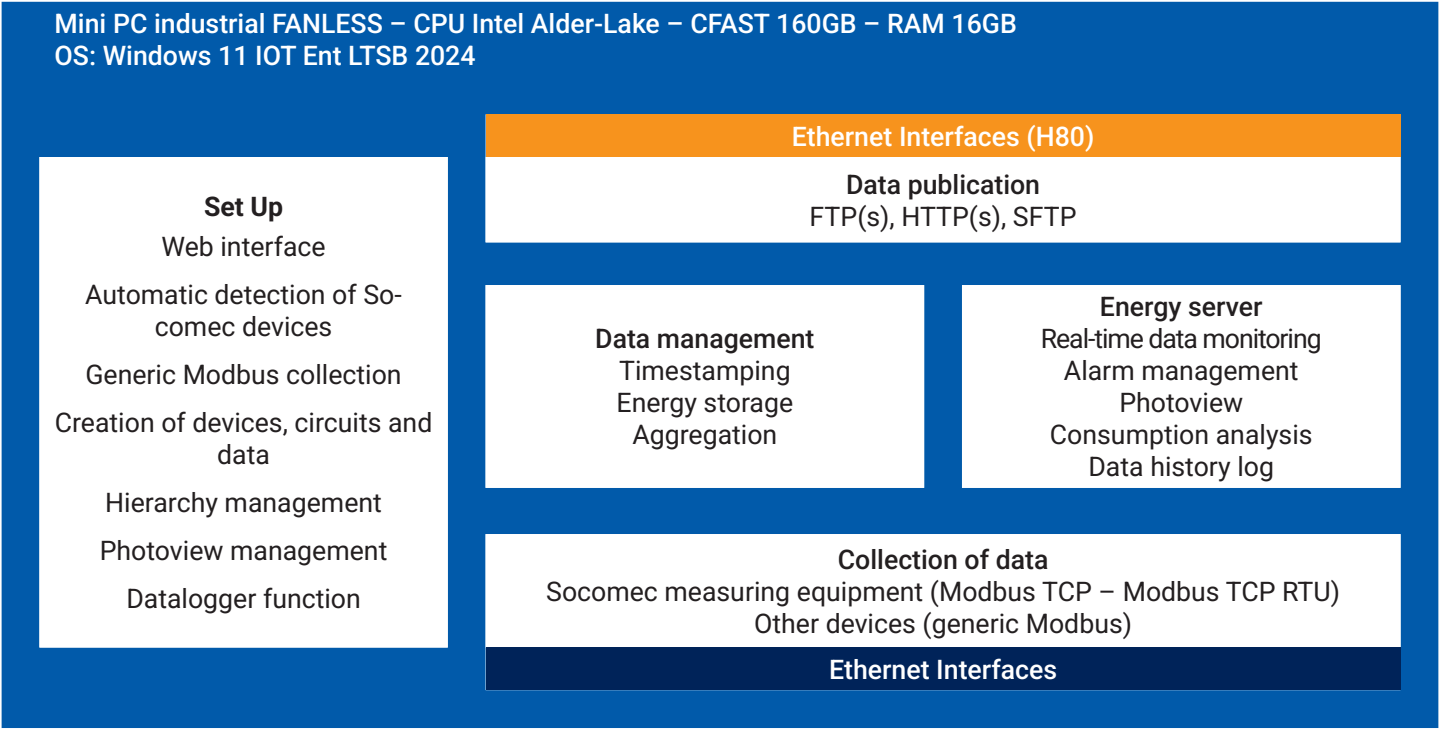
3.3. Overview of DATALOG H80

WEBVIEW-L is hosted in DATALOG H80, a Socomec datalogger.

DATALOG H80, installed at the core of the energy ecosystem:

- Collects energy data automatically from meters and multi-fluid measuring units
- Timestamp, secure, store and incorporate energy data
- Analyse and utilise data
- Publish data to a system or an external application

The diagram below summarises the major functions of DATALOG H80 hosting the WEBVIEW-L energy server:



3.3.1. Detailed description of the H80:

FANLESS industrial mini PC comprising:

- CPU - Intel ATOM Dual-Core x7211E running up to 3.2 GHz
- RAM - 16GB DDR5
- CFAST slot + CFAST FLASH card 160 GB, type iSLC Top –40° to 85°C
- Ports: 3 selectable COM ports (RS232, RS422, RS485), 2 USB3.2 Gen2 ports, 2 USB2.0 ports, 2 HDMI outputs, 2 2.5GbE LAN ports
- 2 Ethernet LAN ports: fixed IP address Lan 1 port, DHC LAN 2 port
- Licence and OS - Microsoft Windows 11 Enterprise 2024 LTSC installed
- Power supply 12 Vdc (lockable plug) Supplied with AC/DC adaptor for Europe
- RAILDIN support
- MariaDB 10.3.12.0
- InfluxDb 1.7.10
- NodeJS 10.7.0
- RabbitMQ 3.7.12 Erlang 21.2
- Acquisition module libraries compiled for minimum .NetFramework 4.6.1

The DATALOG H80 is guaranteed for 1 year.

3.4. Technical management of DATALOG H80

For commissioning and technical operation of WEBVIEW-L, the administrator may need to modify the system configuration of DATALOG H80.

Several tutorials to assist the administrator are available in an appendix to this document:

- Changing the configuration of the IP address and name of the DATALOG H80, see Appendix A 1 - 2.1.3, page 61.
- Procedure for backing up and restoring the WEBVIEW-L configuration and data, see Appendix A 2 - 1, page 67.

4. USER PROFILES

Several profiles are available:

- User (default)
- Advanced User
- Totem User:
- Admin
- Cyber security

Access to the 'User' profile is open and no password is required.

Select Advanced User, Admin and Cybersecurity profiles to configure settings and reset counters.

		Profile				
		User	Advanced User	Totem User:	Admin	Cyber security
Access	Display measurement data	✓	✓	✓	✓	✓
	Access diagnostics	✓	✓	✓	✓	✓
	Password management for the Admin profile				✓	✓
	Password management for all profiles					✓
	Resetting counters		✓	✓	✓	✓
	No disconnection			✓		
	Configuration menu				✓	✓
	Cybersecurity configuration menu					✓
	Firmware update via Web server					✓
	Entering passwords	None	UserAdvanced	UserTotem	Admin	Cyber



Note: By default, passwords are case-dependent.

5. START UP

Like all Web applications, the WEBVIEW-L software needs an Ethernet network connection.
Simply enter the URL of the device in the browser to access WEBVIEW-L.



Note: The default IP address for DATALOG H80 units is 192.168.0.3

5.1. Accessing the application

To log in to the application, the user has to complete the fields in the authentication window on the WEBVIEW-L homepage:

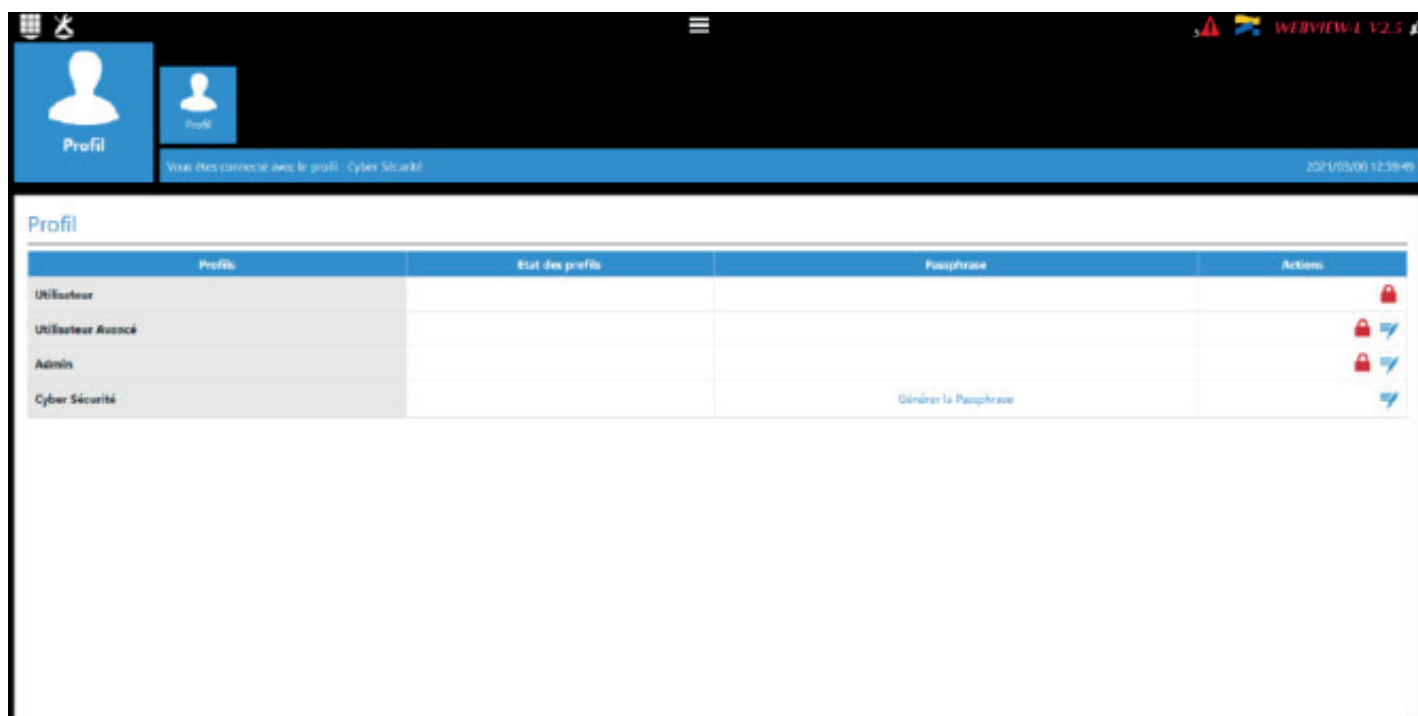
- Profiles: Totem User, Advanced User, Administrator or Cybersecurity
- Password: For User, Totem User, Advanced User, Administrator and Cybersecurity profiles
- Language: select from the list of available languages



When logging in to the Admin, Totem User, Advanced User or Cybersecurity profiles for the first time, the default passwords must be changed. If these passwords are not changed, the "Password alert" alarm remains active.

It is highly recommended to change all passwords immediately, especially the password for the Cybersecurity profile that has the highest privileges, particularly changing passwords for other accounts.

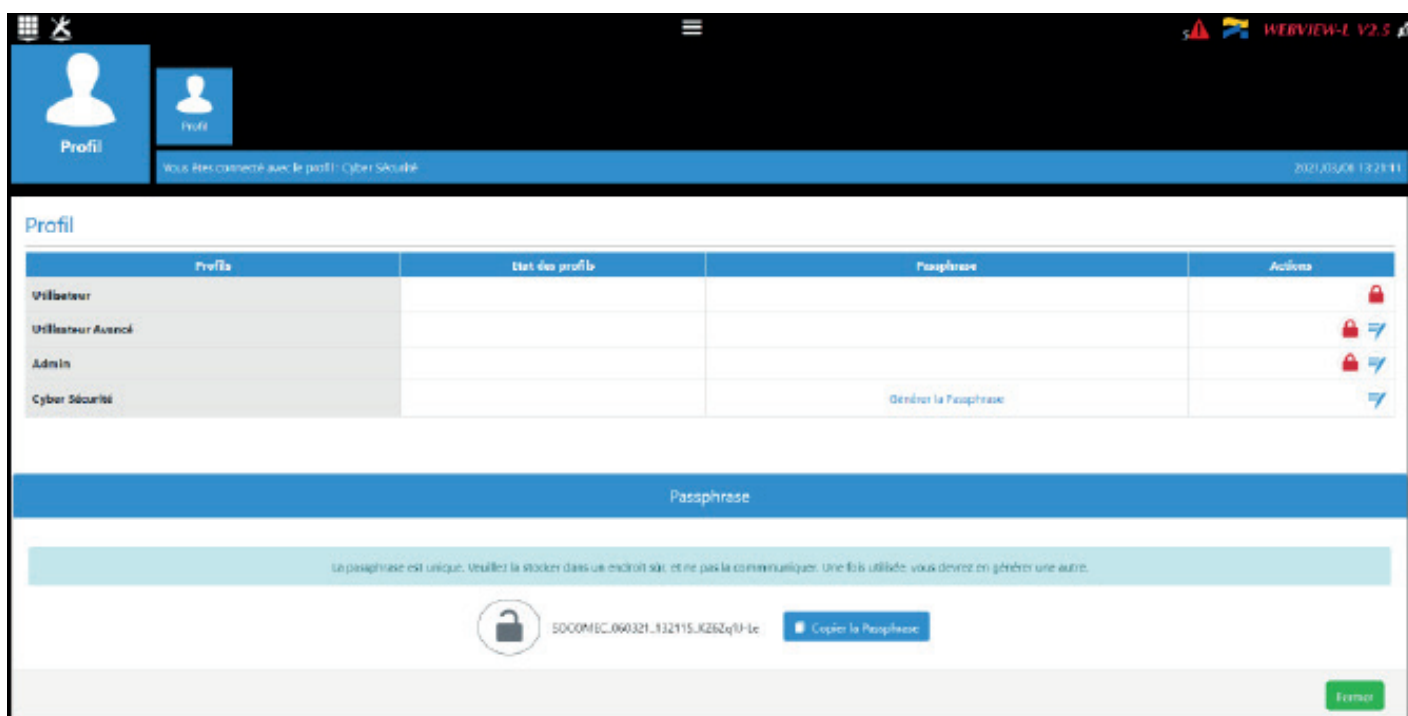
Once passwords have been changed, log in to the Cybersecurity profile, go to the “Profile” menu and click “Generate the passphrase”:



Copy the passphrase using the “Copy passphrase” button to the right of the key, paste it and keep it in a safe place. This will allow you to recover the password for the Cybersecurity account, should it be lost.



Profile lockout policy: By default, after 3 failed log-in attempts to the Admin, Totem User, and Advanced User profiles (the maximum number of log-in attempts and the lockout period can be configured in the Cyber settings); for Cybersecurity, the profile is locked for 1 hour.



After authentication, the user is taken to the WEBVIEW-L functions page. The user can either access one of the available functions or configure WEBVIEW-L, if they have the appropriate permissions.

6. ERGONOMIC FEATURES

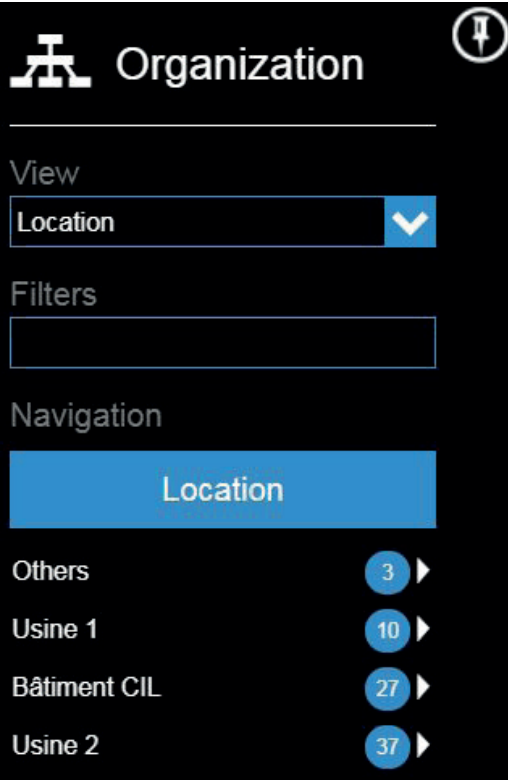
6.1. Side menu

The side menu on the left of some WEBVIEW-M function pages are used to browse the data

-  Open the side menu
-  Close the side menu
-  The side menu can be pinned

6.2. Organisation

The Organisation heading on the side menu includes several sections:



View: Dropdown list allowing selection of a browsing modes, customised depending on the functions:

Function	Browsing mode
Monitor	Zone, Use, Fluid, Photoview
Alarms and events	No side menu
Photoview	No side menu
Consumption	Hierarchy, use, flow
Data logging	Zone, Use, Fluid

Filter: You can filter by name (e.g. I35 - filters all I35 devices) or by zone name.

Browse: Displays the results of the View selection and filters, and enables browsing in the network folder tree. Beside the name of the tree level is the number of associated feeders (e.g. CIL Building - 27 loads)

6.3. Time period



The Time Period option in the side menu gives you a selection of analysis periods that are either predefined (current year or month, etc.), or customised between specific dates.

6.4. Favourites



Only available under Logs, the Favourites option displays frequently viewed measurement logs (e.g. the electrical settings for a process or consumption curve correlated to one or more influencing factors).

6.5. Various options to optimise the page display



Clicking this icon allows the user to show/hide the menu bar at the top of the page.



In the Logs option, the user can show or hide curve configuration to view the measurements log.

7. USING THE OPTIONS

7.1. Home screen



The home screen gives access to the following options:

1. **Back to homepage**
2. **Access WEBVIEW-L configuration functions**

Monitor section: Realtime monitoring of data measured by the devices.

3. **Monitor**: Go to the measuring options and power grid reports
4. **Alarms and Events**: Shows the list of Socomec device alarms
5. **Photoview**: Shows measurements on an image (building plan, electrical diagram, plan, etc.)

Analysis section: Analysis of data stored in **DATALOG H80**

6. **Consumption**: View consumption data
7. **Logs**: View measurement logs
8. Shortcut to **alarm** data
9. Log out

 **Important:** The data stored in WEBVIEW-L are conditioned by the technical specifications of devices and data collected. The screens are dynamic and change automatically depending on the devices and their settings.

Example 1: An alarm is not displayed if it was not already configured using 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** view, which is hidden if the device does not have Inputs/Outputs.

Example 3: The ATyS-p-M **Monitor** menus are customised to suit the features of the device.

7.2. Monitor



The data shown in the **Monitor** menu is used to analyse the network (**Summary / Quality**) and the load report (**Quality / U/I / Power / Energy / Input/Output / Summary**).

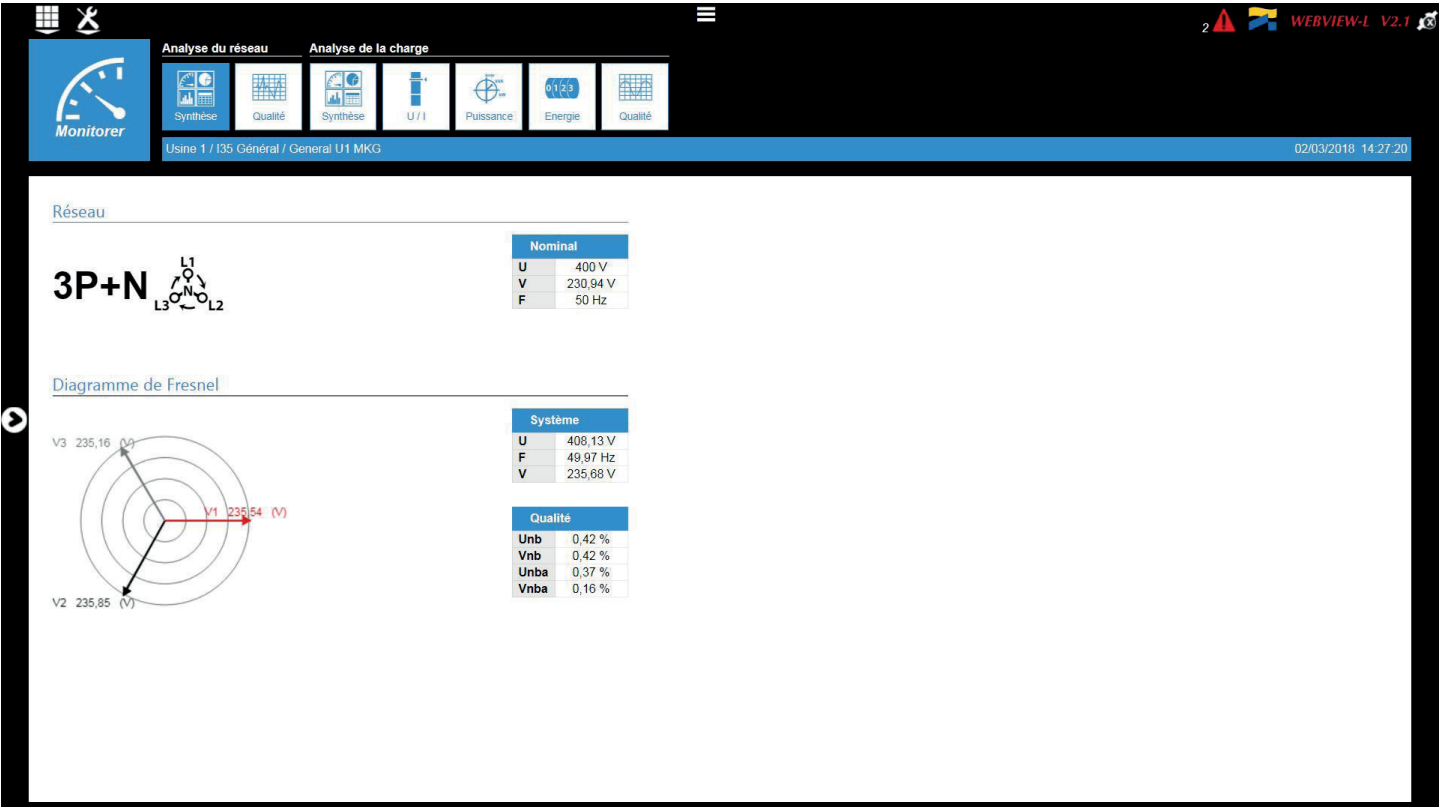
These are real-time values, collected from the devices.

To show the data, first select the device you want to **Monitor** from the side menu.

7.2.1. Monitoring Socomec measuring devices

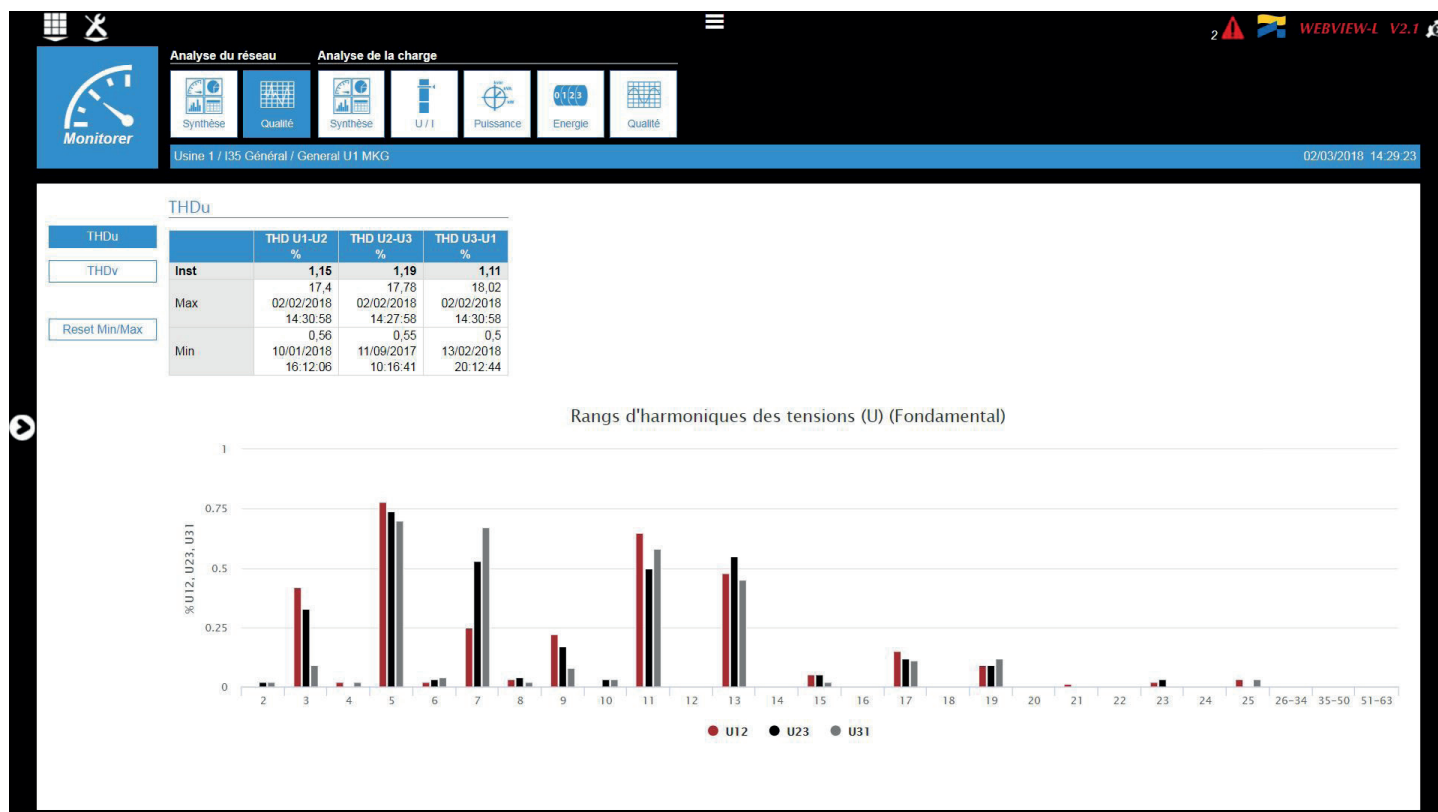
- **Network Analysis page - Summary**

The tab shows the type (3P+N) and Fresnel diagram of the network



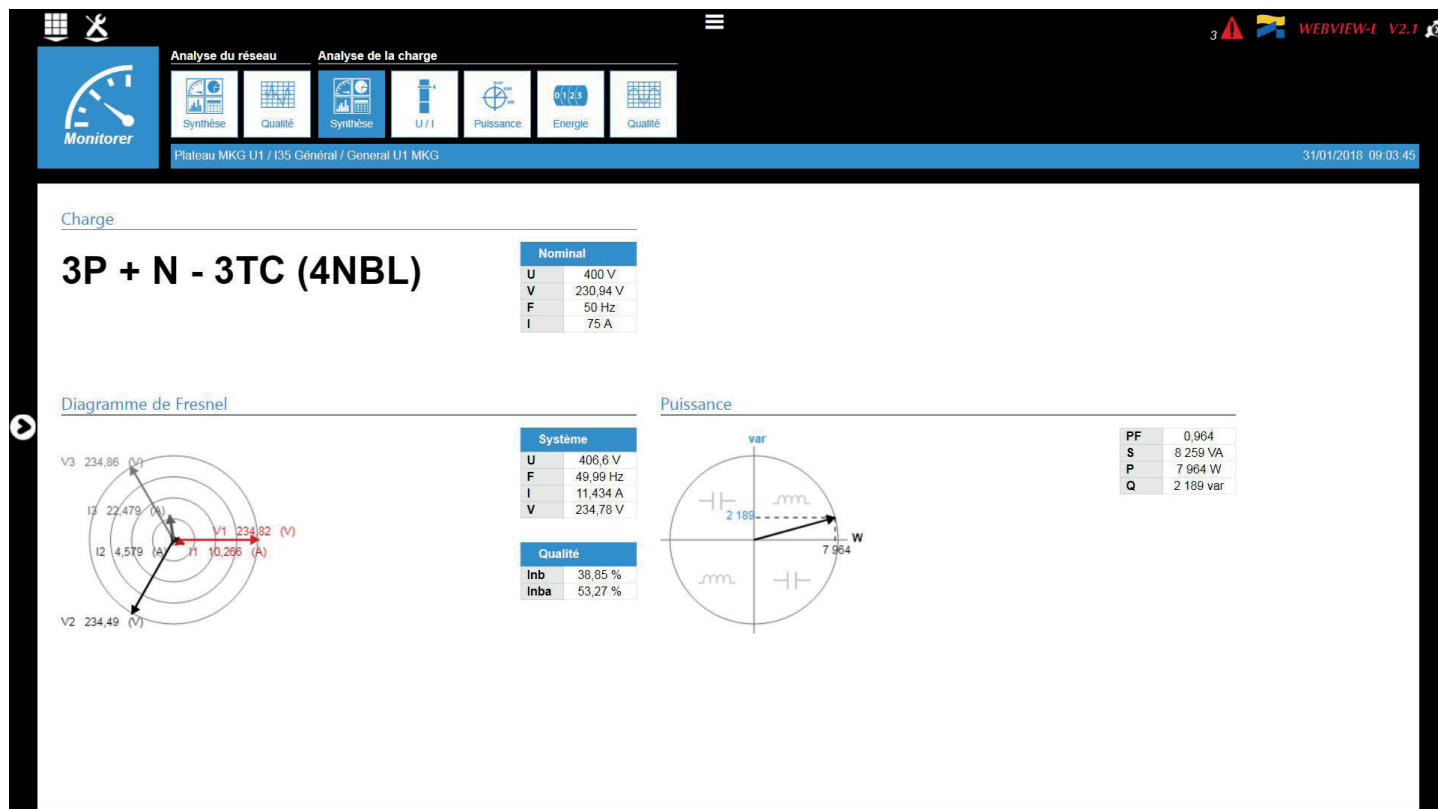
• Network Analysis page - Quality monitoring

This page shows the levels of harmonic distortion (THDu and THDv) and harmonic orders U (up to order 63) of the network.



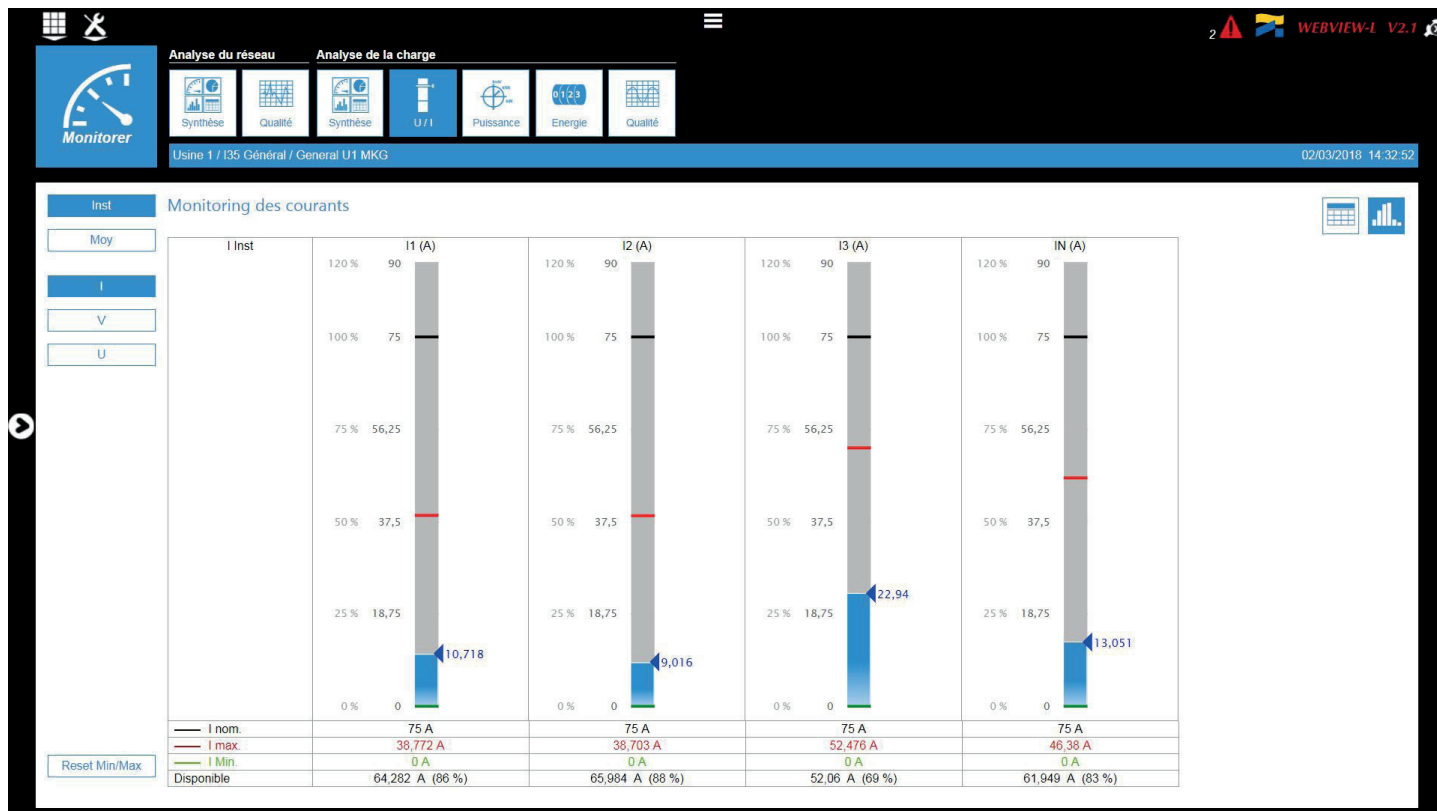
• Load Analysis page – Summary

This page shows the types of load, the Fresnel diagram and power represented using four quadrants.



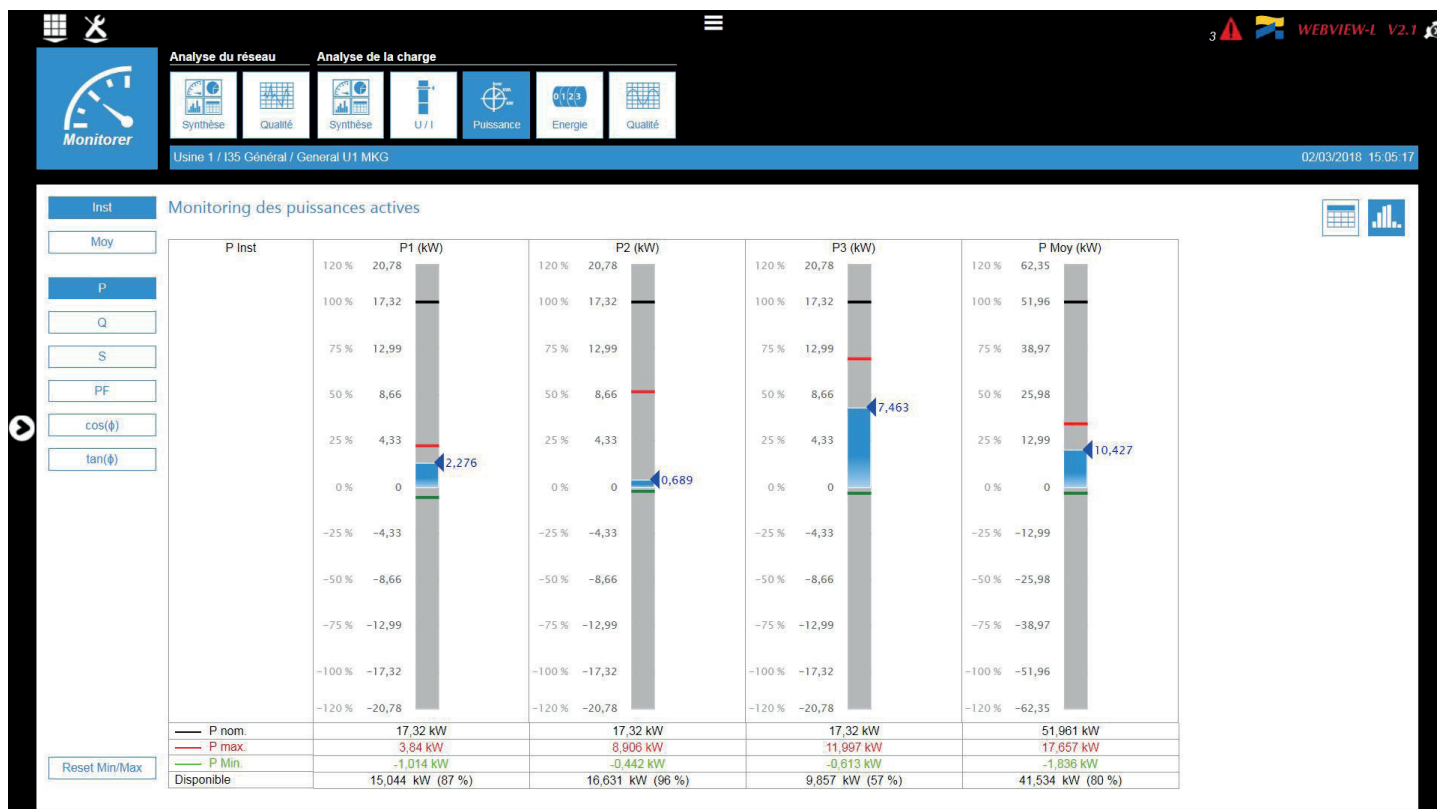
• Load Analysis page – Current and voltage monitoring

This page uses gauges to display snapshot data as well as mean currents and voltages. You can also have this data shown in a chart.



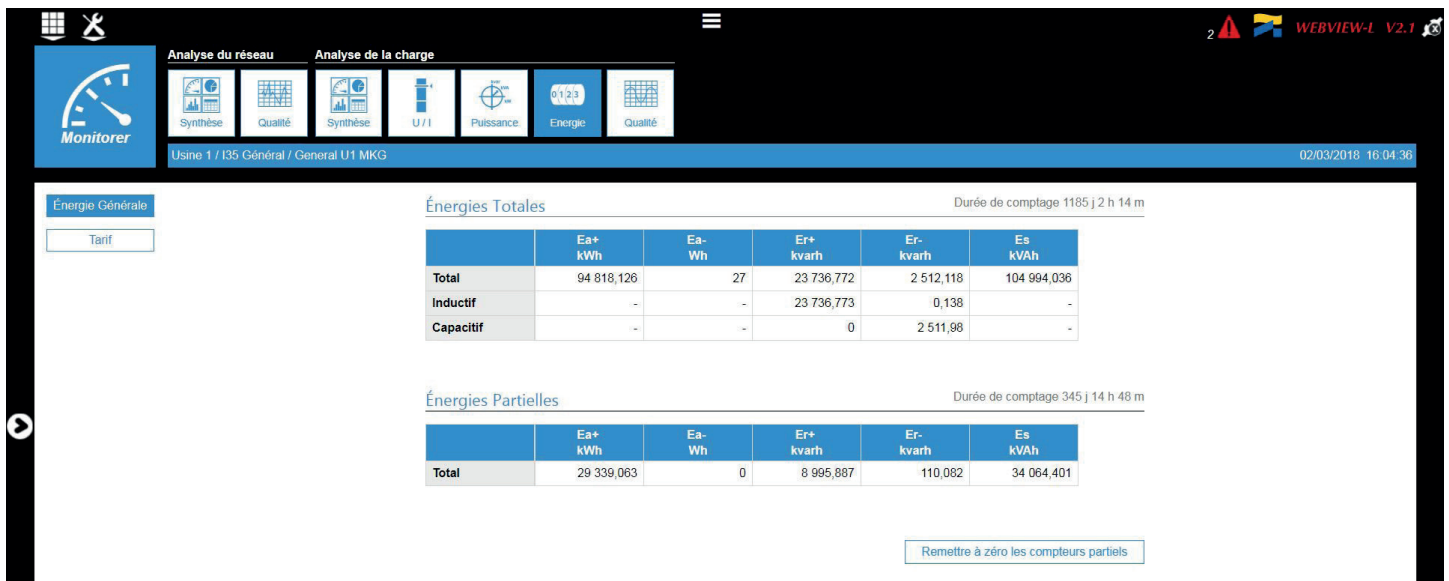
• Load Analysis page – Power rating monitoring

This page uses gauges to display snapshot data and mean power ratings (P, Q, S), including cos (phi) and tan (phi) values. You can also have this data shown in a chart.



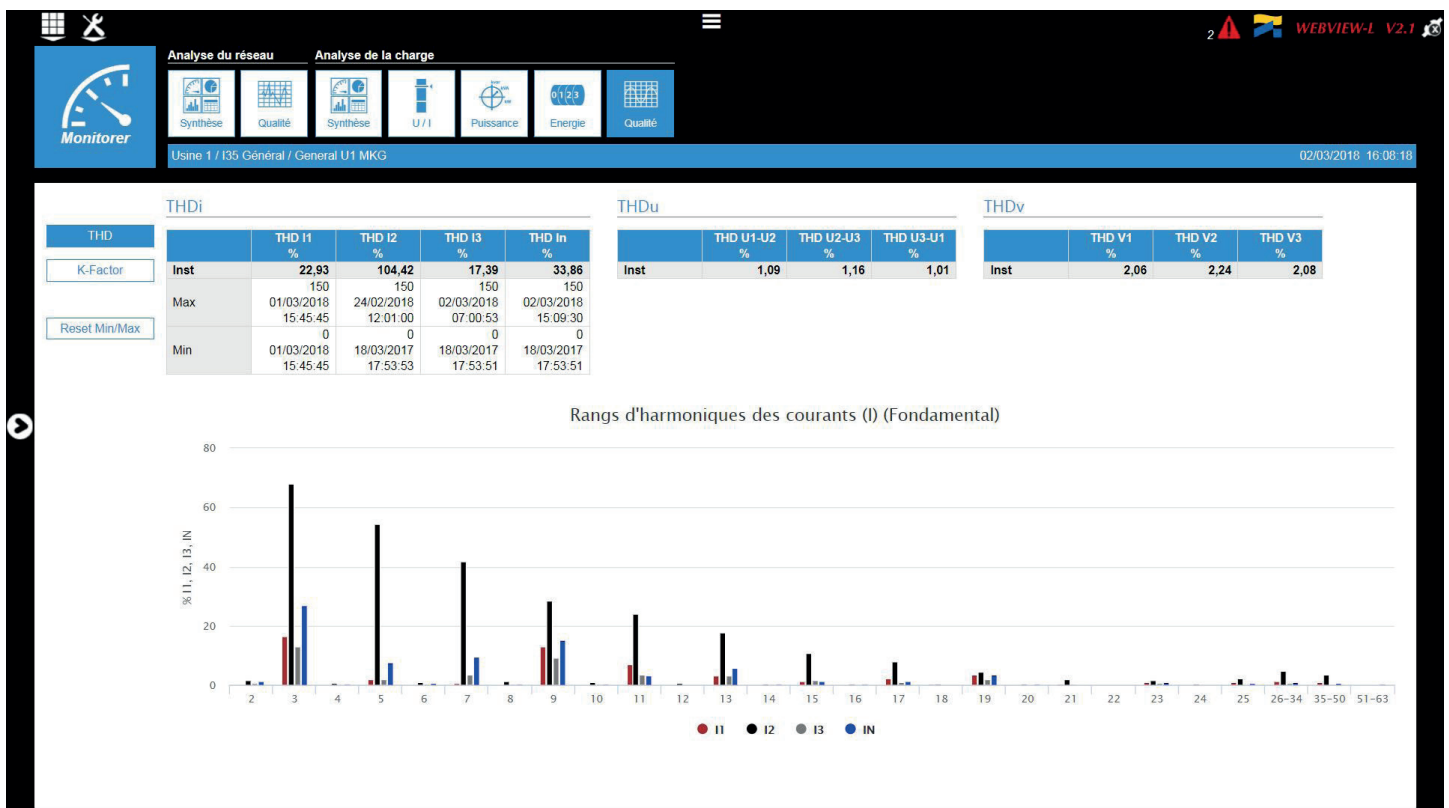
• Load Analysis page – Energy monitoring

This page shows the energy table (Ea+, Ea-, Er+, Er-, Es) and their distribution on tariff periods.



• Load Analysis page - Quality monitoring

This page shows the levels of harmonic distortion (THDi) and harmonic orders I (up to order 63) including K-Factor values.



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

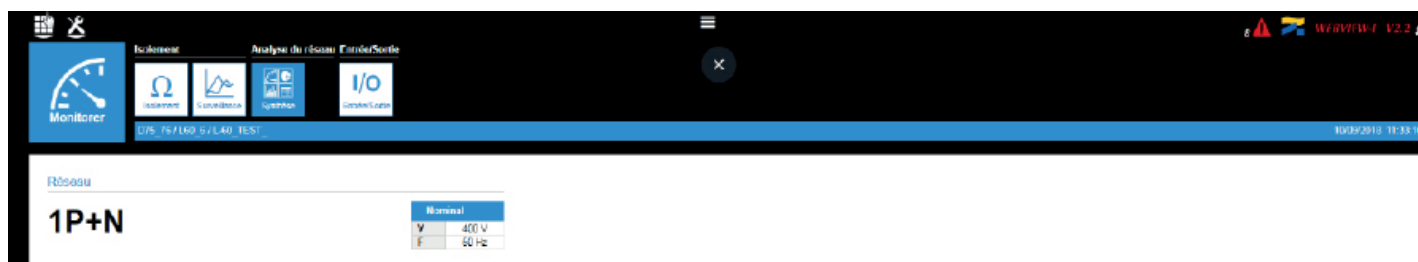
In addition to measuring devices (the DIRIS Digiware range, DIRIS A and DIRIS B measuring units and COUNTIS energy meters), WEBVIEW also incorporates devices from the ISOM Digiware range, in particular the L-60 Permanent Insulation Control and location signal injection module, and the F-60 insulation fault detection module.

This ISOM Digiware range of equipment is compatible only with the WEBVIEW-M hosted on the ISOM Digiware D-75 display and WEBVIEW-L of DATALOG H80.

The various pages available in the "Monitor" option are:

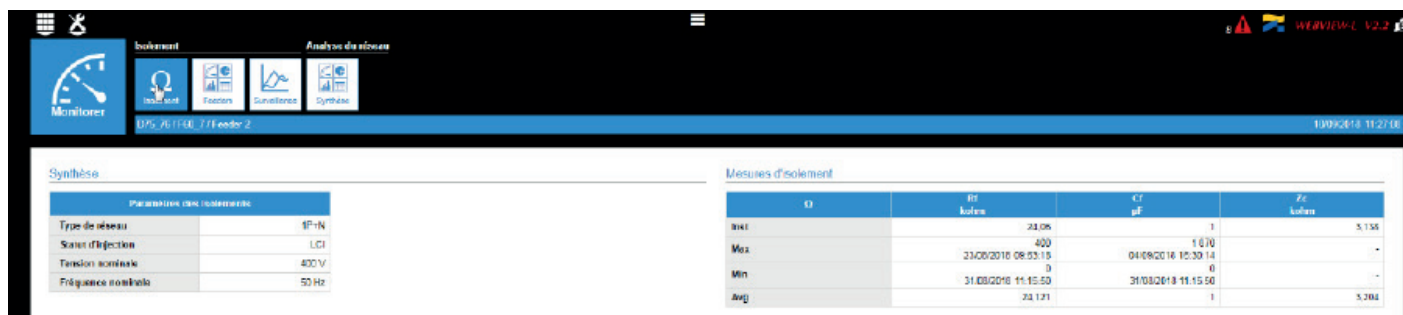
- **Network Analysis page – Summary**

This page shows the type (1P+N) and nominal values V and F.



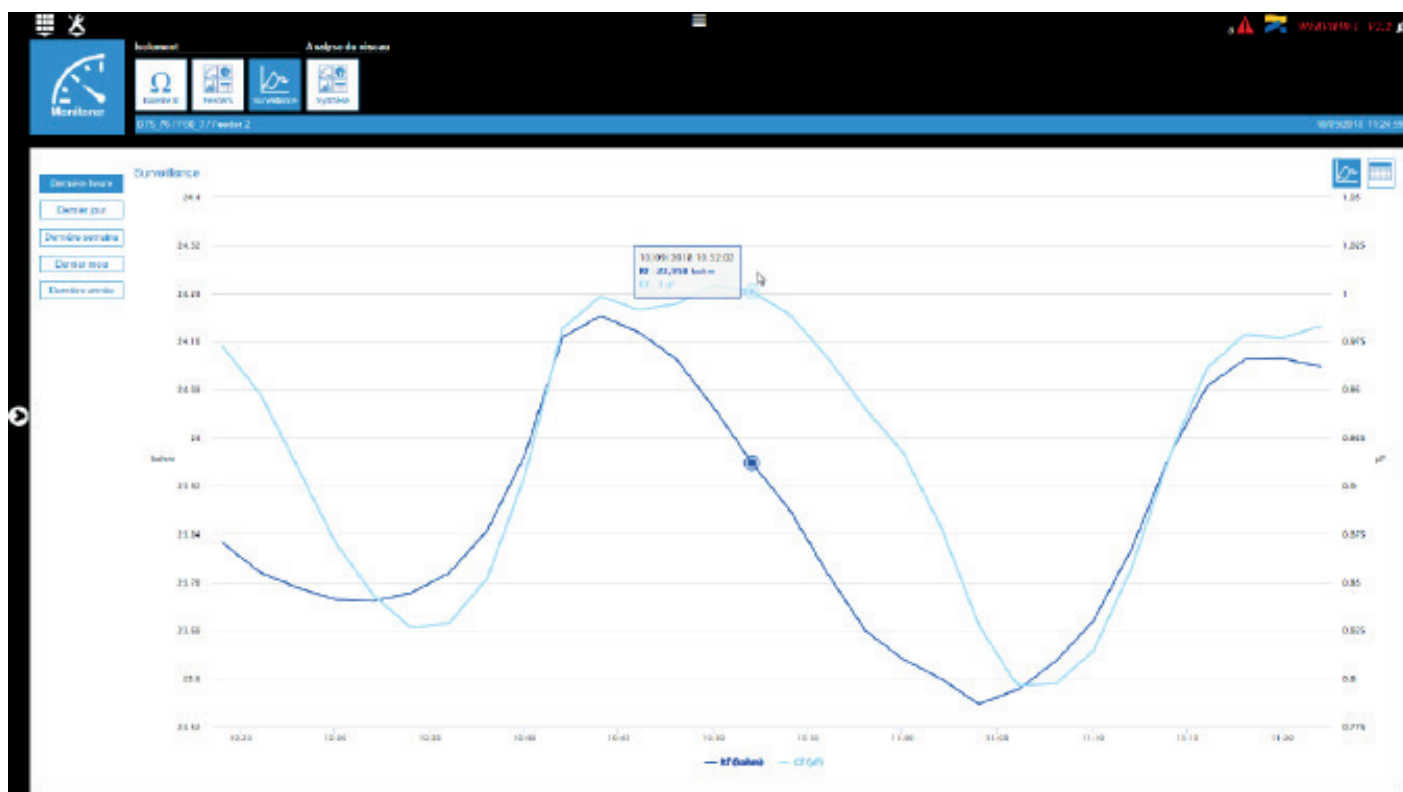
- **Insulation page**

This page shows the real-time, maximum, minimum and average values for insulation readings Rf, Cf and Zc.



- **Surveillance page**

The "Surveillance" page shows the curve of the Insulation Parameters Log (Rf and Cf) over different periods (last hour, last day, last week, last month, last year). The data are also available in a table.



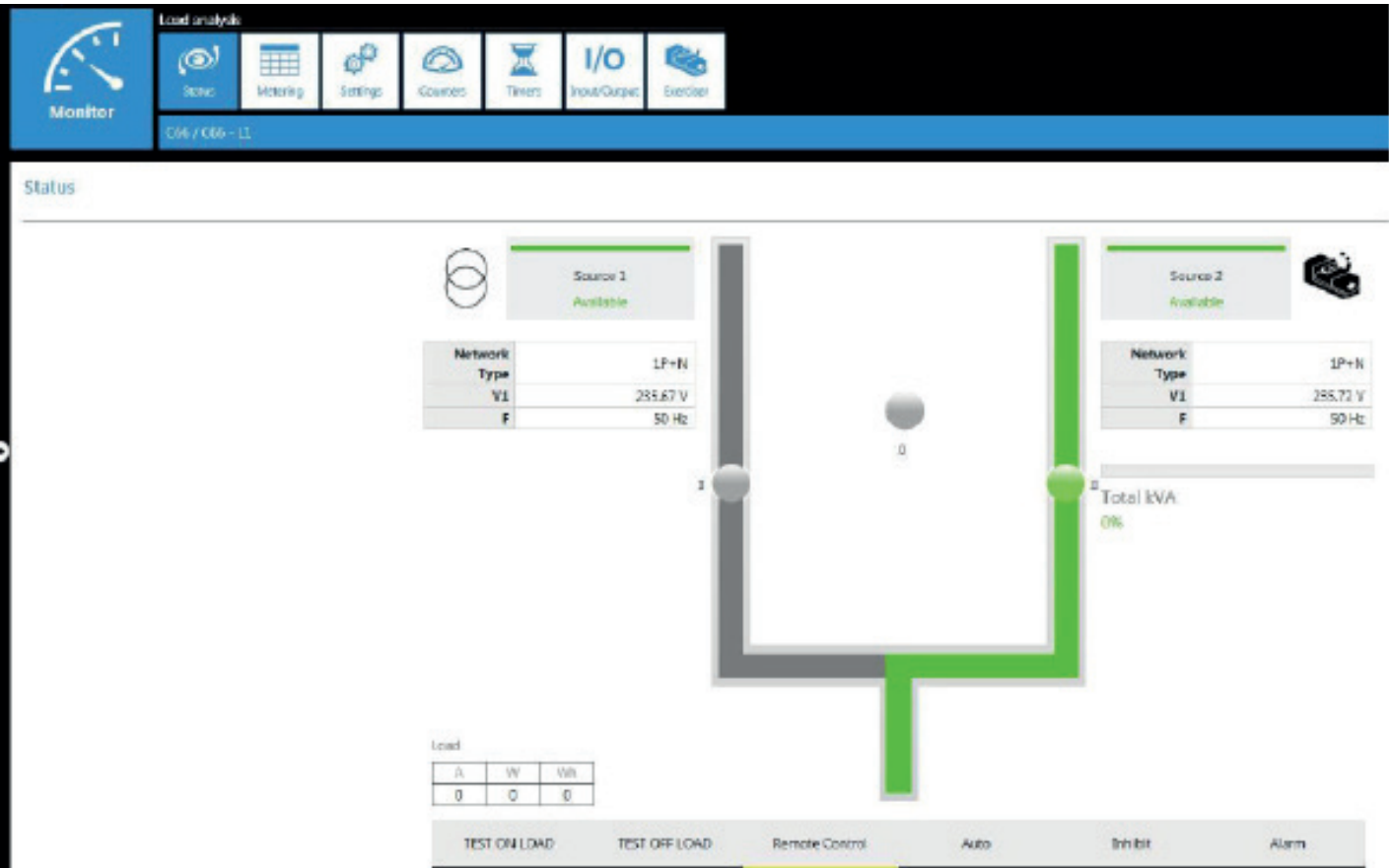
- **Feeders page (for F-60)**

The "Feeders" page for ISOM Digiware F-60 modules shows, for each F-60 circuit, the values for current ($I_{\Delta n}$ and I_L) and insulation (Rf and Cf) parameters.

Feeders					
	Current (Rf)	Current (Cf)	Rf ins.	Cf ins.	
	mA	mA	Index	Index	
Feeder 1, T1, T7	-	0.021	400	0	01/01/1970 01:00:00
Feeder 2	-	8.318	24.08	1	01/01/1970 01:00:00
Feeder 3	-	0.025	400	0	01/01/1970 01:00:00

7.2.3. Monitoring the ATyS-p-M transfer switch

- "Status" page



7.2.4. Monitoring devices connected by generic Modbus

As an example, the table of monitoring data for a device connected by generic Modbus (Socomec product from old ranges not appearing in the list of devices offered or non-Socomec devices communicating by Modbus with functions 3 and 4).



7.3. Alarms and events



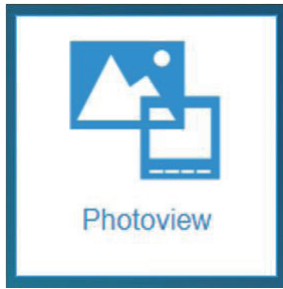
The **Alarms and Events** option shows alarms reported from Socomec devices in a dashboard.

The screenshot shows the 'Alarms and Events' interface. The top section includes a header 'Alarmes et Événements' and a sub-header 'Début d'alarme'. Below this are filters for 'De' (From) and 'À' (To) dates, and a 'Filtres avancés' (Advanced filters) section with dropdowns for 'Source', 'Type', 'Statut', 'Catégorie', 'Nature', and 'Criticité'. The main area is a table of alarms with columns: 'Date de début', 'Date de fin', 'Nom', 'Source', 'Type', 'Nature', 'Criticité', 'Statut', and 'Actions'. The table lists various alarms, including 'Problème détection capteur', 'Capteur courant déconnecté', 'Capteur courant déconnecté', 'Association VI', 'Association VI', 'Association VI', 'Association VI', 'Association VI', 'Erreur de synchronisation horaire', and 'Association VI'. The status column shows 'Terminé, acquiescé' and 'Actif'. The bottom right shows a 'Champ' (Field) and 'Valeur' (Value) section with a table of alarm details.

The **Alarms and Events** screen gives access to the following options:

1. Selection of the **Alarms and Events** analysis period
2. Filter **Alarms and Events** by data source (configured devices), by type (EN 50160 Alarms or Events, by category and alarm type, by status (active, ended, not reset...), by criticality
3. Confirm your selection (period and filters)
4. Reset your selection (period and filters)
5. Display the result of the selection
6. Export the alarms file (.zip file containing **Alerts and Events** files)
7. Open the detail window for the alarm chosen (on the right of the screen)
8. Window displaying detail of the alarm

7.4. Photoview



The **Photoview** option is used to customise the data display against the customer's background pictures (Photo or Building plan, Electrical diagram, Plans, etc.).

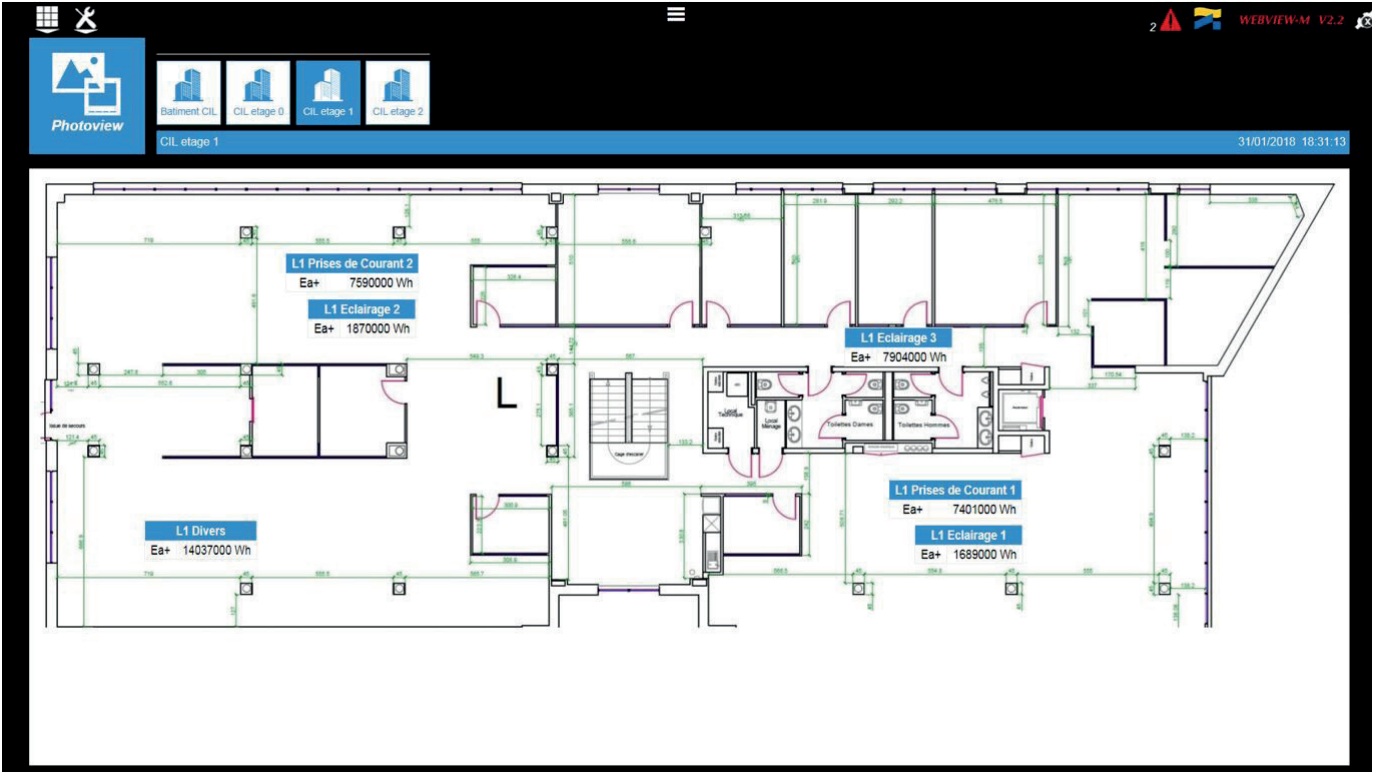
Here is a **Photoview** page based on a picture of Socomec's CIL building, including links to the different floors and images of devices and measurements.



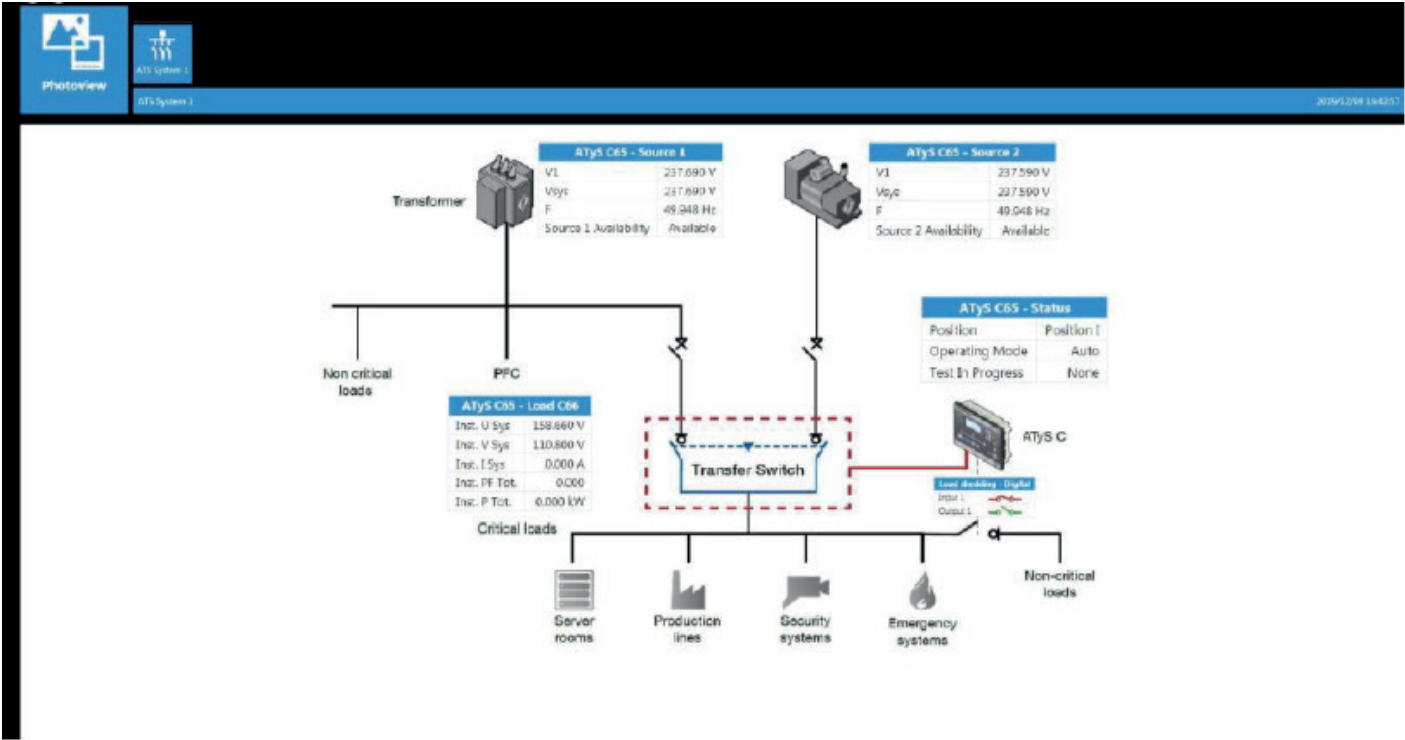
1. Tabs of different Photoview pages
2. Hypertext link to access another Photoview page: option to create a page tree view
3. Informative text
4. View images of the different devices
5. Show the measurements table

Here is the Photoview page for the first floor of Socomec's CIL Building, based on the image of the floor plan and including various information about measurements related to this space.

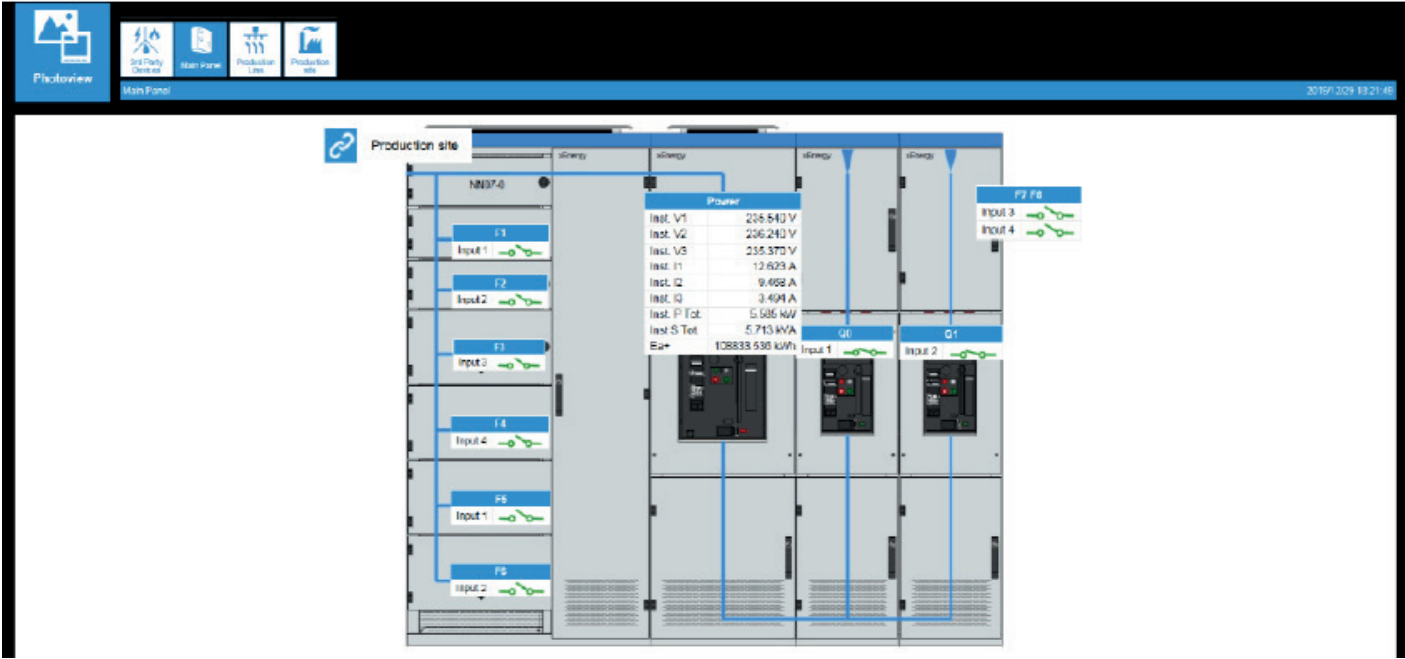
By clicking the different items (e.g. a table of measurements), the user has direct access to the "Monitor" menu for the associated device.



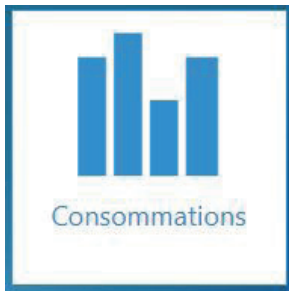
Other types of Photoview can be created, using electrical diagrams:



Or photos of electrical distribution panels



7.5. Consumption

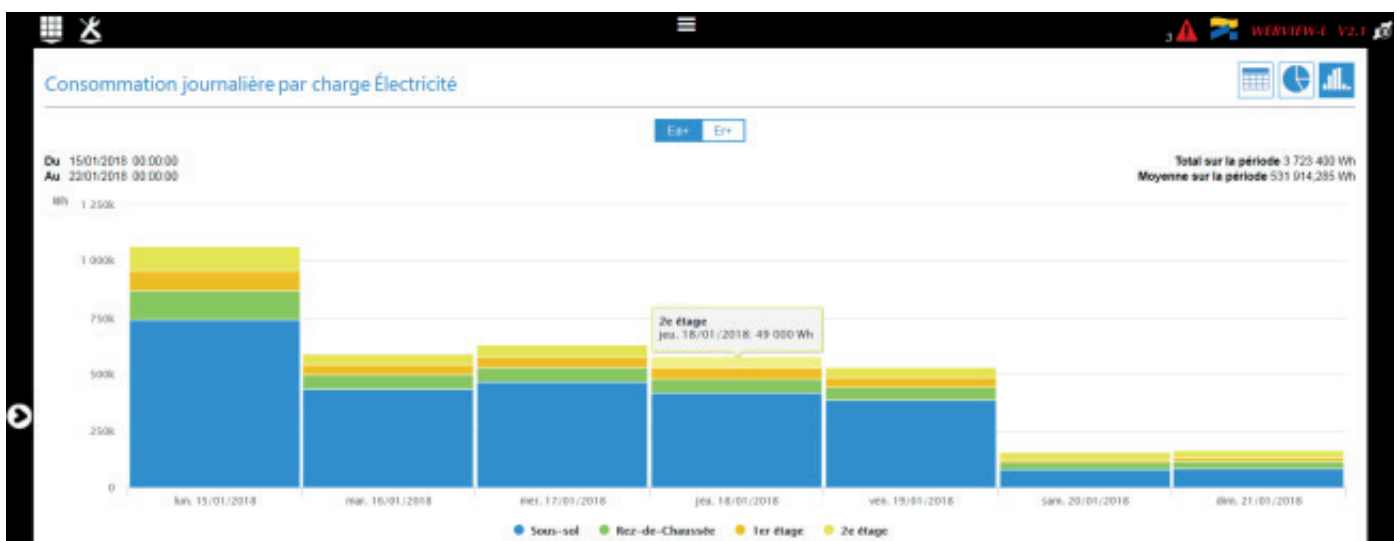


The **Consumption** function allows the energy flows consumed to be represented by the various loads in the defined time periods.

To display consumption data, first select the level from the browsing folder tree and define the analysis period (see side menu).

The **Consumption** menu offers 2 preset display modes: by load or by use, based on the hierarchies configured. If there is no hierarchy, the consumption will not be broken down. In this case, the interface gives a simple view of the consumption and you can use indices per device.

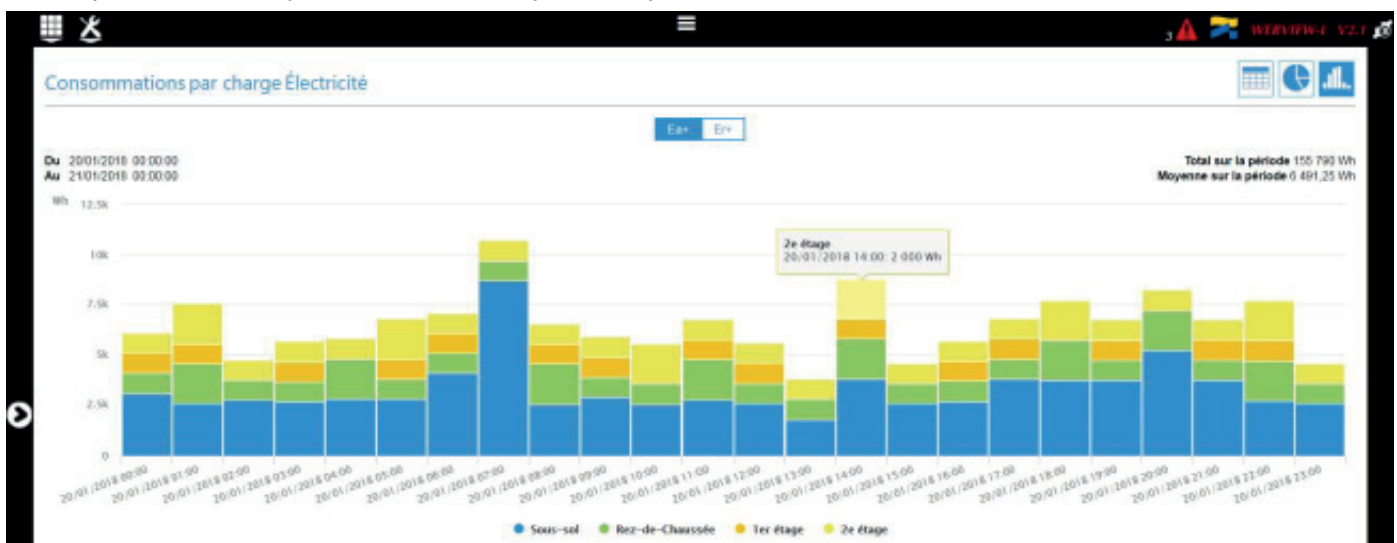
You can choose to see the loads, consumptions of the CIL building for the week from 15/01/2018 to 22/01/2018, for example.



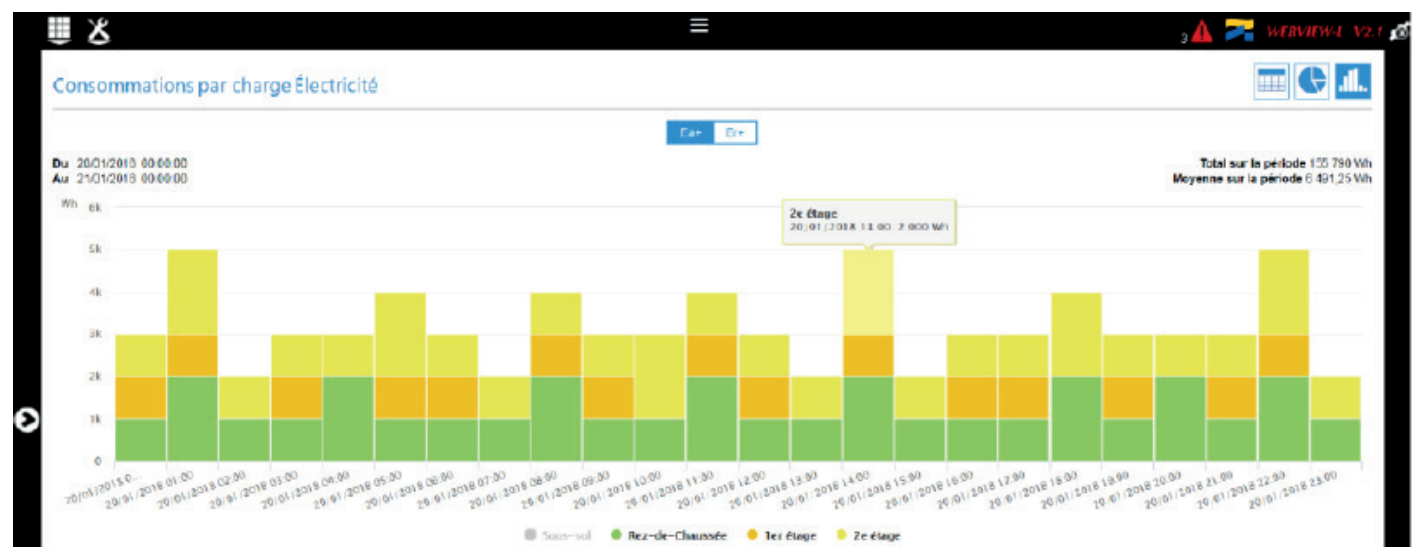
Click the consumption bar for access to more detailed time data:

Month -> Week -> Day -> Hour

For example, click the daily bar to access hourly consumption.



By clicking one of the headings for a load (in this example: Basement), it is hidden from view.



The left window is used to change the display resolution of consumption curves:

Organisation

Période temporelle

Observation

Sur

Personnalisé

Du

01/04/20 00:00

Au

06/03/21 16:00

Mode Auto

Par

Mois

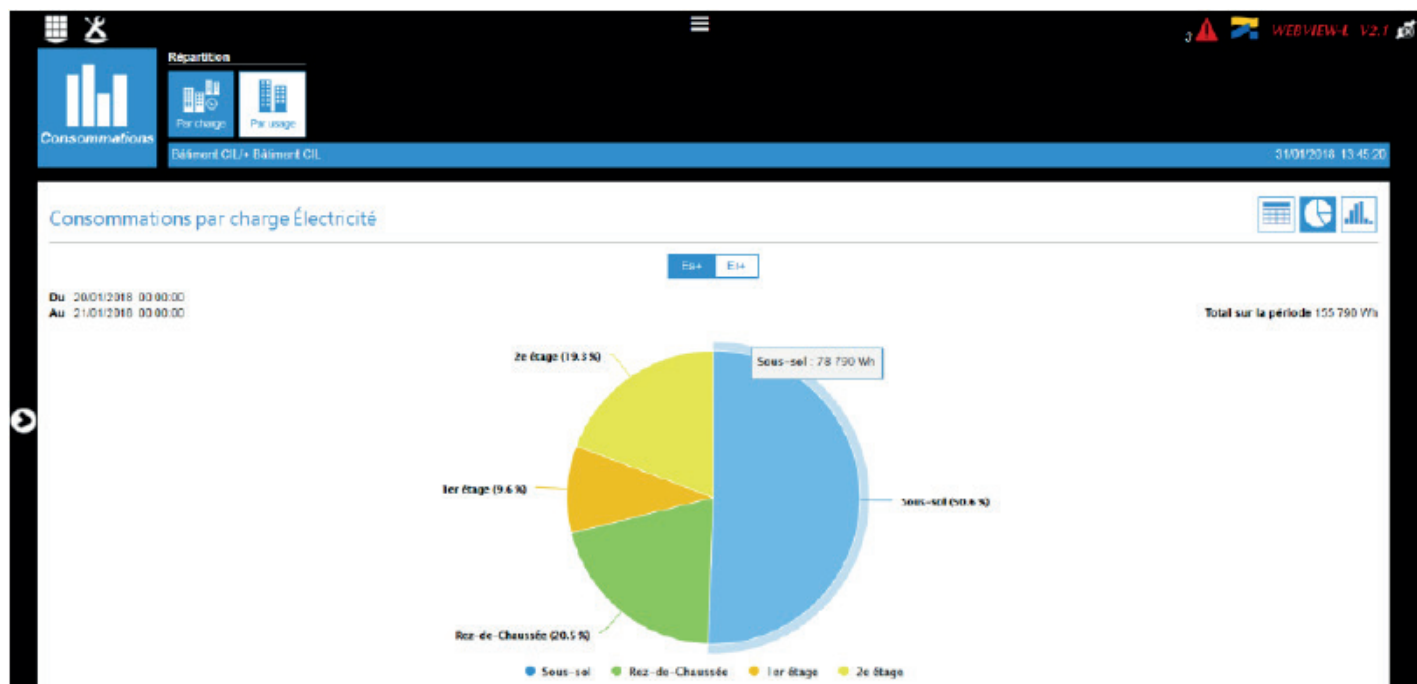
Mois

Semaine

Jour

Other consumption display options are offered:

- As a pie chart



- Table

Consommations par charge Électricité

Du 20/01/2018 00:00:00
Au 20/01/2018 08:00:00

	Toutes Zones	Sous-sol	Rez-de-Chaussée	1er étage	2e étage
	Total Wh	Wh	Wh	Wh	Wh
Total	155 790	78 790	32 000	15 000	30 000
Moyenne	6 491,25	3 282,916	1 333,333	625	1 250
20/01/2018 00:00	6 070	3 070	1 000	1 000	1 000
20/01/2018 01:00	7 550	2 550	2 000	1 000	2 000
20/01/2018 02:00	4 730	2 730	1 000	0	1 000
20/01/2018 03:00	5 650	2 650	1 000	1 000	1 000
20/01/2018 04:00	5 780	2 780	2 000	0	1 000
20/01/2018 05:00	6 770	2 770	1 000	1 000	2 000
20/01/2018 06:00	7 050	4 050	1 000	1 000	1 000
20/01/2018 07:00	10 600	8 600	1 000	0	1 000
20/01/2018 08:00	6 530	2 530	2 000	1 000	1 000

7.6. Logs



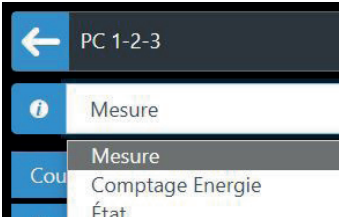
The **Logs** menu represents the various measurements that are collected by devices and logged by time periods selected in the side menu.

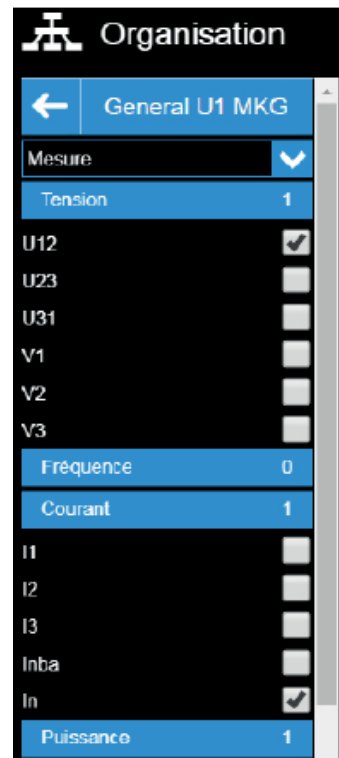
The first step is to select the measurements to be displayed in the diagram from the side menu.

1. Select the data source (here, module I35 General from Building U1 MKG)



2. Select the data category (Measurement, Energy Metering, State, Alarm)

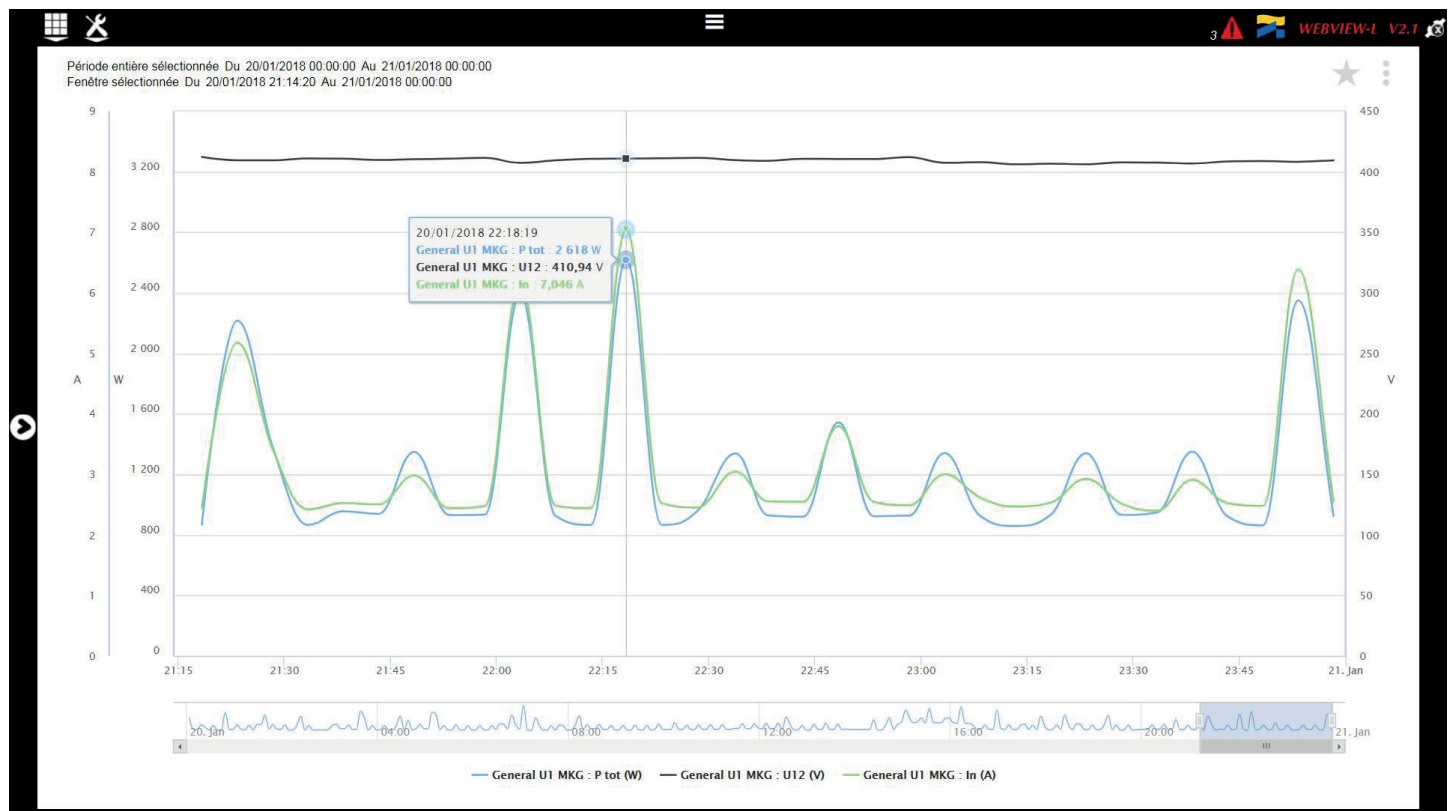




3. Check the data type in the category.

After selecting data types, the curves are plotted automatically over the chosen time period, showing the scales on either side of the graph, based on the different units measured.

It is possible to display data of different types and units (e.g. Voltage, Current, Power, etc.), drawn from one or more devices.



Create favourites: used to save the data selection to view later

Ajouter un favori

Titre du favori

Nom du favori

1. Enter a title and name for the favourite created
2. Open the configuration window
3. List of data displayed: show/hide the curves by clicking the name of the data
4. Selection range in the time period: zoom in and move about in a time period to select the range you want to analyse more accurately

Settings window

Configuration

Options d'affichage

Mode de rendu    1

Mise à l'échelle auto   2

Afficher le tableau de données   3

Options des données

General U1 MKG : P tot  

General U1 MKG : U12    4

General U1 MKG : In  

1. Select the type of graph: several measurements on the same graph or several graphs, one above the other, over the same time period
2. Scale the different graphs: by default, the graph starts from 0, but clicking the selector centres the graph around the minimum and maximum value
3. Display the data table for the range selected
4. Option to deselect or delete data

8. CONFIGURATION

You need to set up WEBVIEW-M to make the most of its features.

This section describes the different settings in detail.

Access to the configuration interface requires logging in using Administrator (Admin) or Cybersecurity mode.

Click the icon :



1. Customise - Profile: Used to change the password for the Admin profile
2. Customise - To customise the application: Used to customise: the logo/login screen/homepage
3. Customise - Devices: Used to configure devices, measurement circuits and data reported on the WEBVIEW-L application
4. Diagnostics - Diagnostics: Used to display the state of services and performance indicators of the DATALOG H80
5. Diagnostics - Protocols: Used to configure settings for: network configuration / data transmission / Cloud connection / sending alarm e-mails
6. Diagnostics – System: Used to Backup / Restore / Reset the topology and configuration
7. Billing configuration – Used to configure the billing tool for Socomec MID measuring units
8. Database – Database: Used to access data stored in the DATALOG H80 database and perform data imports/exports
9. Security – Cybersecurity: Used to configure the Cybersecurity settings for the session and incorporate TLS/SSL certificates

8.1. Diagnostics



1. General tab: Detailed analysis of DATALOG H80 settings
2. Indicators: Displays performance of DATALOG H80 (processor load, RAM)
3. Storage: Displays the storage capacity and indicators of the CFast card in the DATALOG H80, Devices tab - Detailed list of devices connected to the DATALOG H80
4. Export the diagnostic file from DATALOG H80
5. Restart the device
6. Export data map
7. Export diagnostics

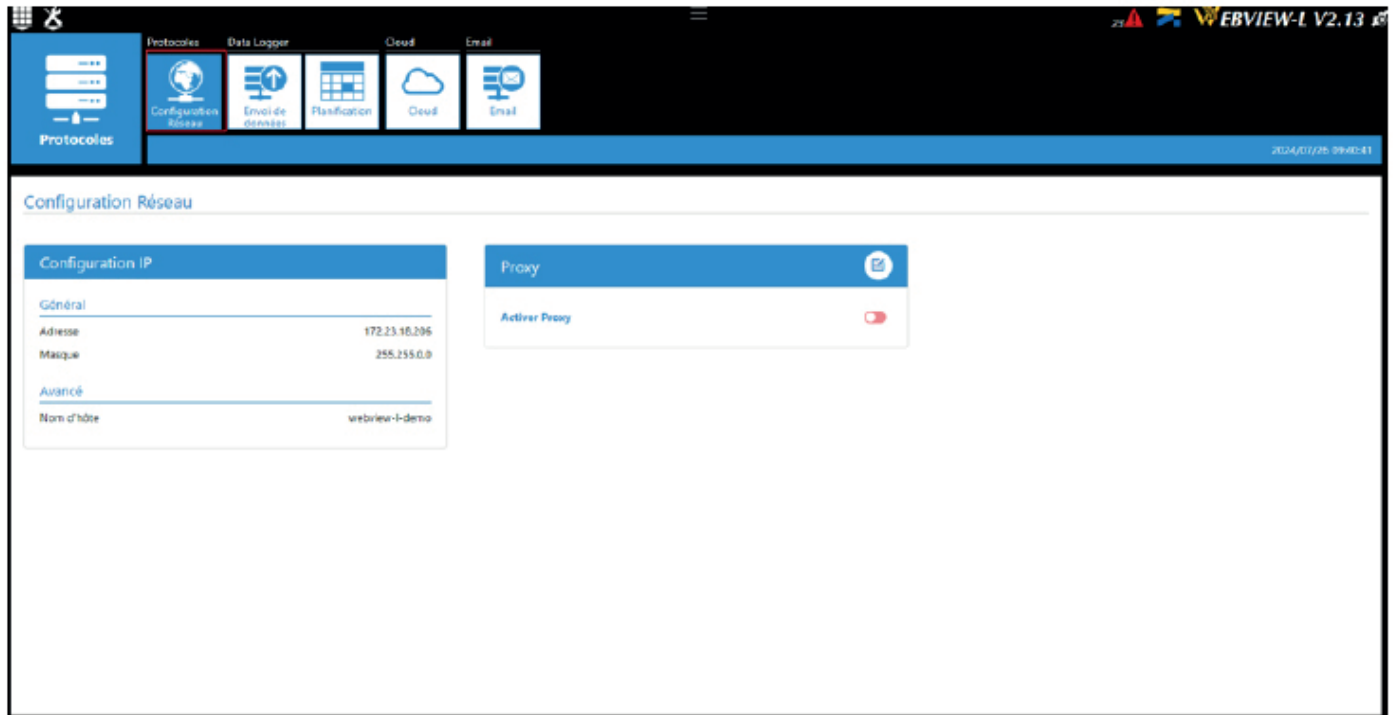
8.2. Diagnostics - Protocols

The "Protocols" menu is used to configure all communication protocols and services used by the gateway/display.



- **Network Configuration**

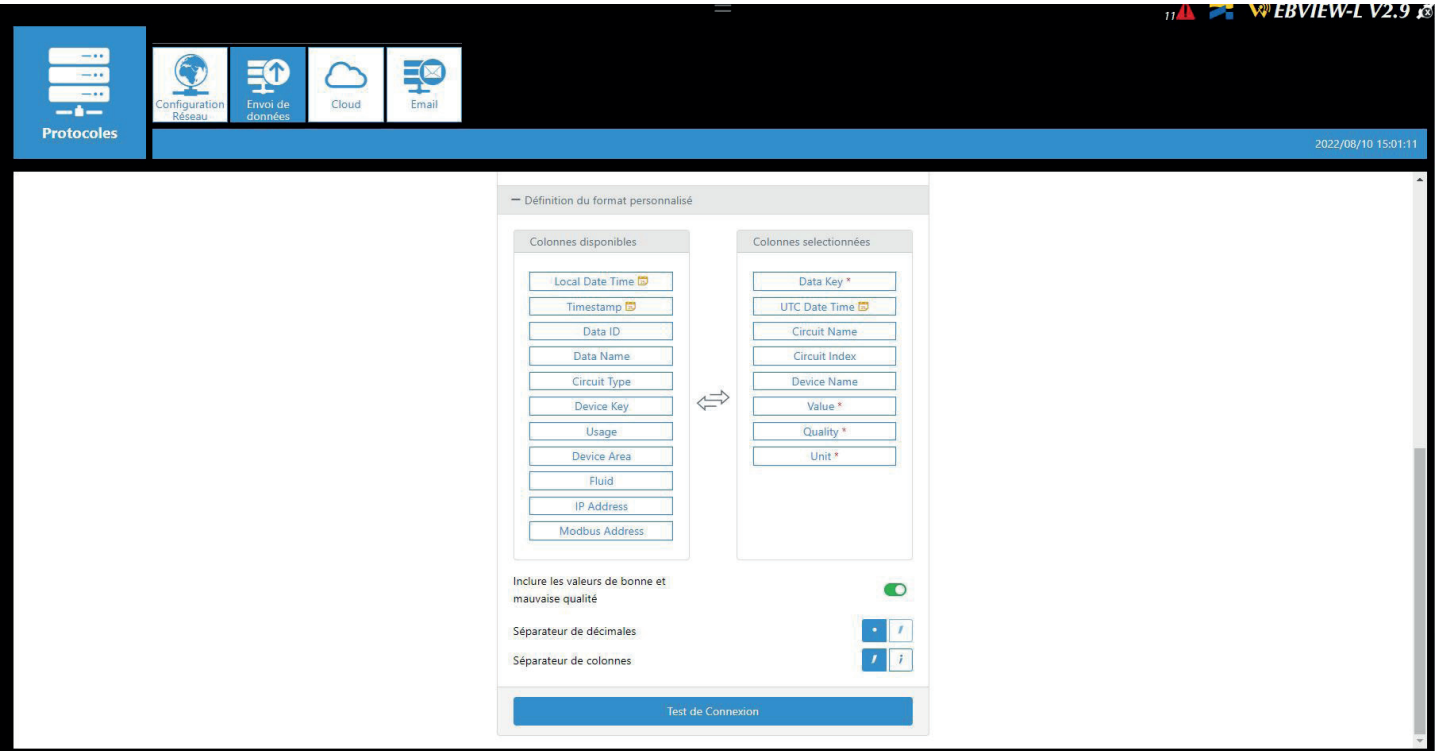
From the "Protocols" menu, the "Network Configuration" tab is used to change the IP configuration of the M-xx gateway / D-xx display:



- Data transmission

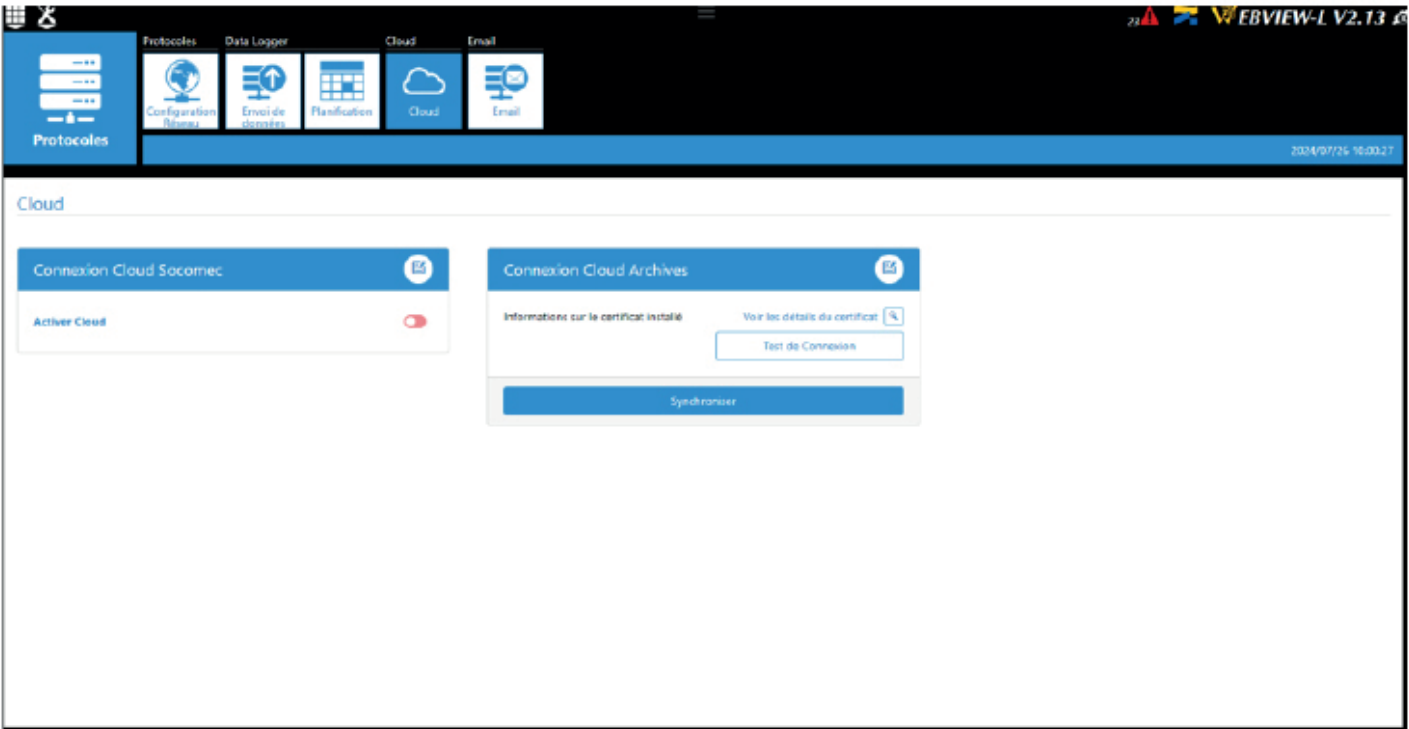
- Under the "Identification" heading:
 - Site name: This setting is essential to connect DATALOG H80 to a physical place in the project architecture
 - Server name: Unique identification of DATALOG H80
- Under the "Server" heading
 - Server: To send data files to a remote server, the administrator can select an HTTP(S), FTP(S) or SFTP server or a Cloud server. Files can also be sent locally to the hard drive by selecting "Local".
 - Destination directory: Enter the remote server directory for receiving the files
 - Download the log files: Check if the DATALOG H80 must also transfer the log file to the remote server
 - Address: Enter the IP address of the remote server
 - Port: Specify the software port (usually: 80 for HTTP and 20 or 21 for FTP)
 - User name: Enter the user name the access the remote server
 - Password: enter the password to access the remote server
 - Secure communication: Activate a secure session between DATALOG H80 and the remote server
 - Transfer mode (for an FTP server only): Choose between active or passive transfer mode depending on whether it is the DATALOG H80 that establishes the TCP connection (passive mode) or the remote server (active mode).
 - Authentication mode (for an HTTP server only): Choose between the "Basic" mode (standard authentication method) or the "NTLM" mode (NT LAN manager: the protocol for Microsoft systems)
- File format: data can be exported in .csv files with several data organisation layouts (refer to Appendices 4-1 and 4-2 for more details):
 - EMS oriented: identification of data points with a unique identifier, facilitating data import into energy management software.
 - Customised CSV: option to fully customise layout of the .csv file (data to show/hide, order of columns, column/decimal separators). This makes it possible to be compatible with any third-party energy management system.

The layout of the customised .csv file is defined by dragging an item from the "Available columns" area on the left and dropping it in the "Selected columns" area on the right. The command can also be modified in the "Selected columns" area.



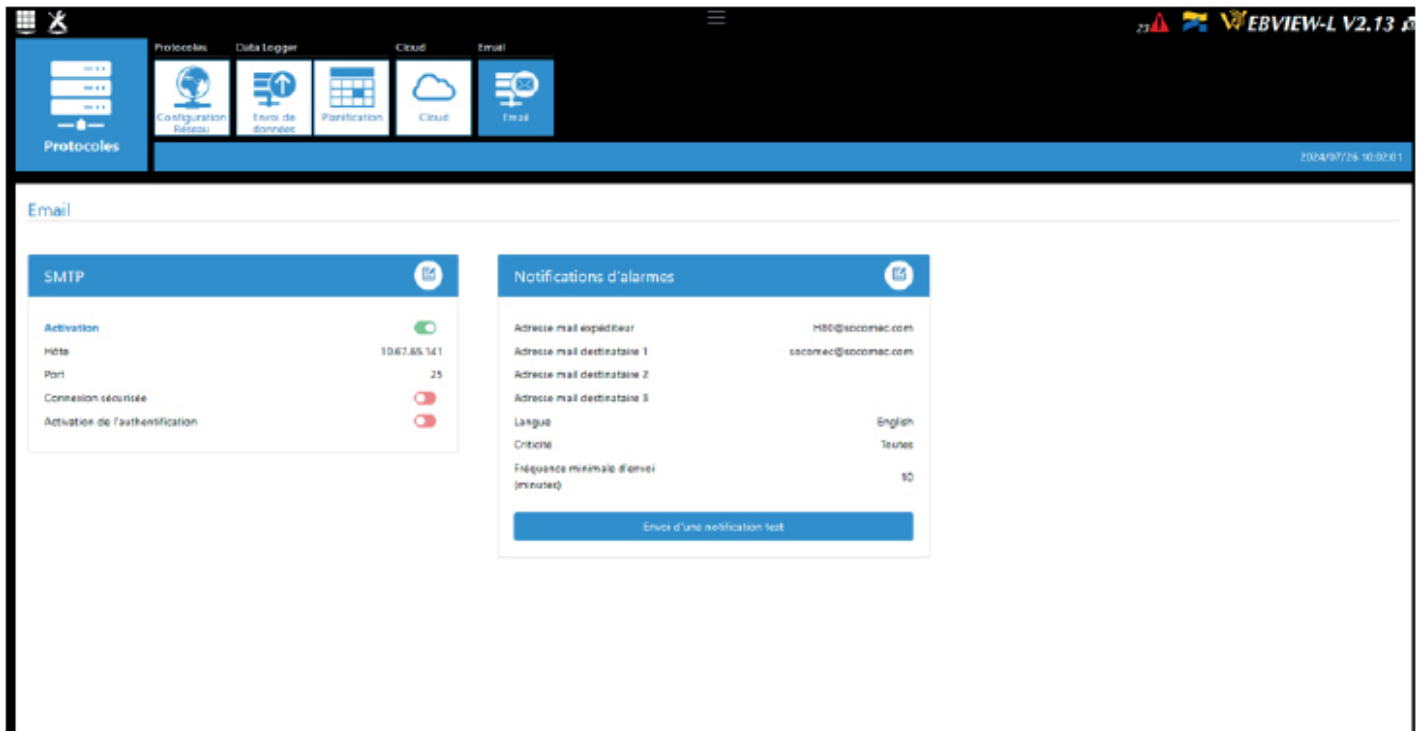
⚠ Once the data transmission server has been configured, go to the "Devices" menu, then the "Scheduling" tab to configure the data to be sent and the frequency each data item is sent. Refer to section 8.10 "Datalogger" for more information.

• Cloud



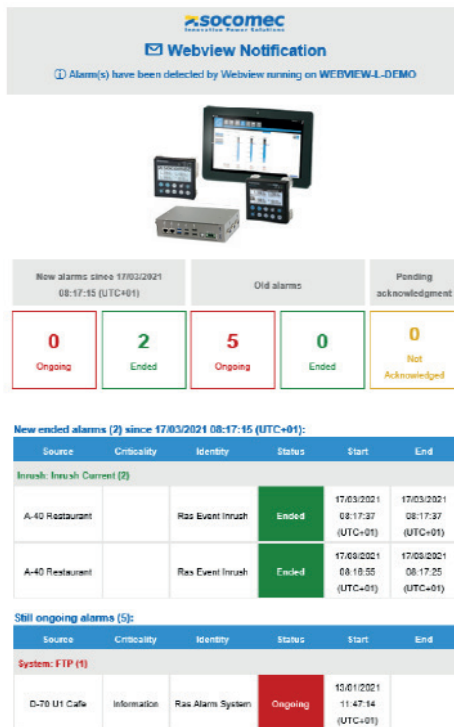
• E-mail

This tab is used to configure an SMTP server for sending notification e-mails about an alarm on a slave or the DATALOG H80:



Then just enter the notification settings:

- Sender e-mail address: choose the e-mail of the H80 sending the report
- Recipient 1-3 e-mail address(es): it is possible to choose up to 3 recipients for e-mail reports.
- Languages: Select the display language for the report.
- Criticality level: Select which alarm criticality levels should be included in the report.
- Sending frequency (min): Select the frequency for sending reports, in minutes.



The report is set out in 2 parts:

- 1) A summary indicating the number of alarms that appeared since the last report was sent (active or finished alarms), which alarms are still active and which alarms are awaiting reset.
- 2) A table listing all new alarms that have appeared (actives and finished) with more information about the alarm type, device involved, start date, end date, etc.

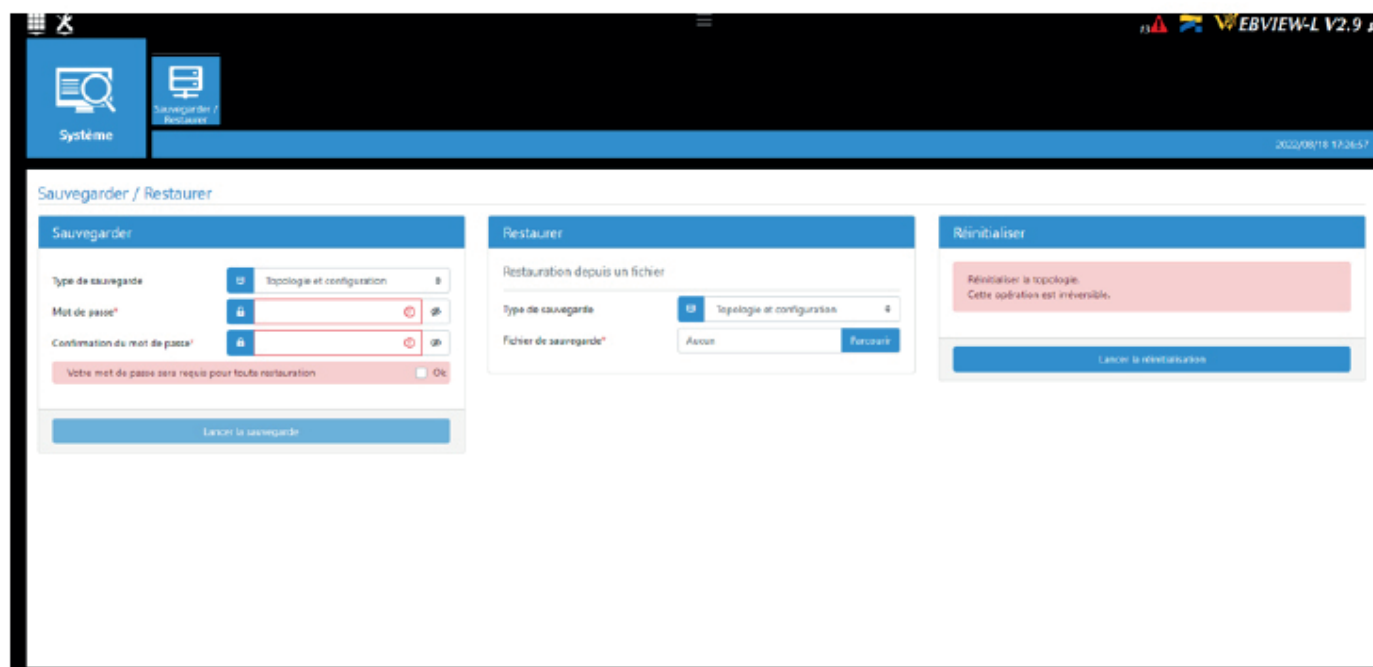
! Once the SMTP server has been configured, go to the "Devices" menu, then "Notifications" tab to configure e-mail notifications (sender and recipient e-mail addresses, notification frequency, etc.).

8.3. Diagnostics – System:

The "System" menu is used to Backup, Restore and Reset the topology and configuration of the DATALOG H80.



- Backup / Restore



- Backup: Used to backup the topology and configuration. Backup must be confirmed by a password containing a minimum of 10 characters, one upper case, one lower case, one number and a special character. You must then acknowledge that the password will be required to restore the configuration to be able to run the backup. A backup file will be generated in .zip file format.

Sauvegarder

Dernière sauvegarde du 2022/08/18 17:41:53 - Topologie et configuration

Type de sauvegarde: Topologie et configuration

Mot de passe*

Confirmation du mot de passe*

Votre mot de passe sera requis pour toute restauration

- Restore: Used to restore the topology and configuration from a backup. The file must be uploaded by clicking the "Browse" button. You then have to enter the password used during backup then click "Confirm".

Restaurer

Restoration depuis un fichier

Type de sauvegarde: Topologie et configuration

Fichier de sauvegarde*: backup-partial-webview_20 Parcourir

Mot de passe*

Vérifier

- After checking, click "start restore".

Restaurer

Restoration depuis un fichier

Type de sauvegarde: Topologie et configuration

Date de la sauvegarde: 2022/08/18 17:41:49

WEBVIEW ne sera pas disponible pendant le processus et redémarrera à la fin de la restauration

Annuler Lancer la restauration

- Reset: Used to reset the topology and configuration.

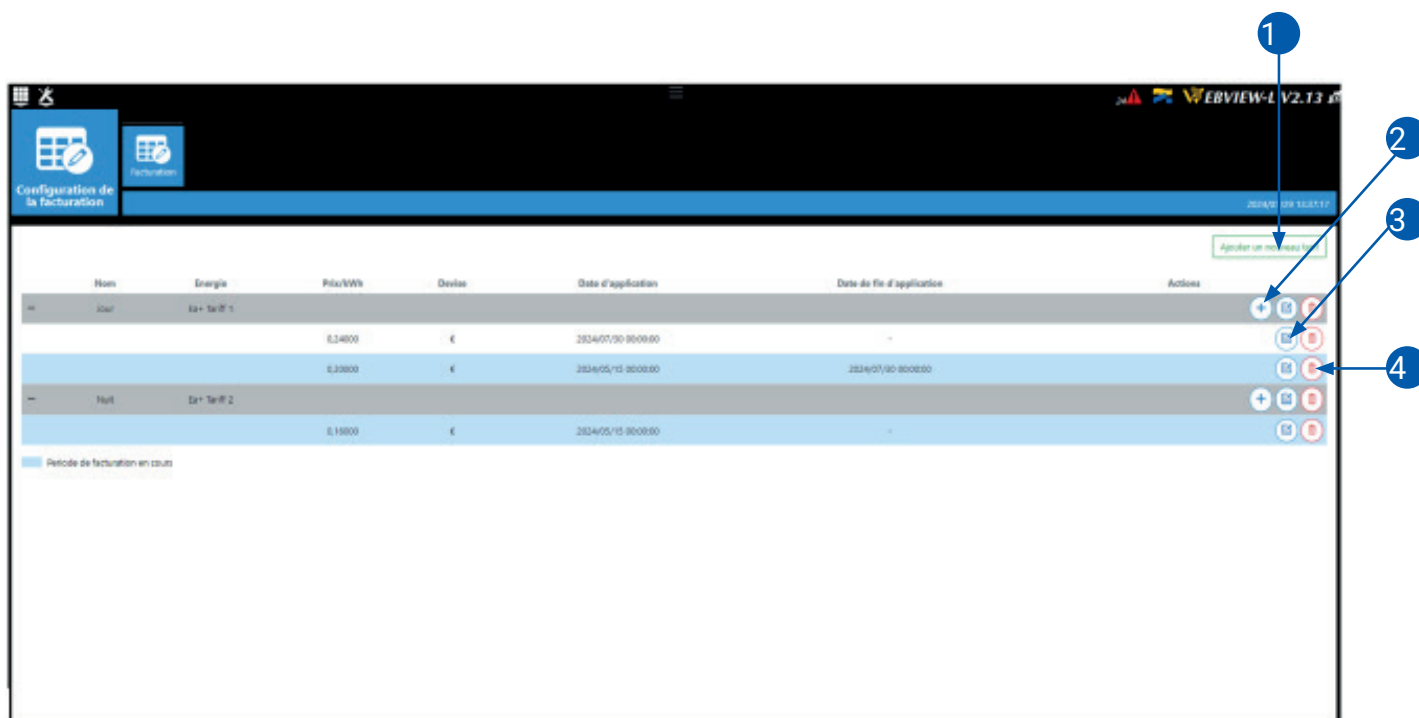
Réinitialiser

Réinitialiser la topologie.
Cette opération est irréversible.

Lancer la réinitialisation

8.4. Diagnostics - Billing configuration

The "Billing configuration" menu links a currency to a time period with Socomec MID metering devices with a tariff function. Tariffs must have previously been configured on devices.



1. **Add a new tariff** : Used to add a new tariff based on Ea+ or Ea- energy (from tariff 1 to tariff 8), name it and select a currency. Creating a tariff requires creating an initial billing period and linking it to a coefficient.
2. **Add a new billing change**: Used to add a new billing period on a tariff with a new coefficient.
3. **Edit settings**: Used to edit the configuration of a billing period and a coefficient.
4. **Delete**: Used to delete the configuration of a billing period and a coefficient.

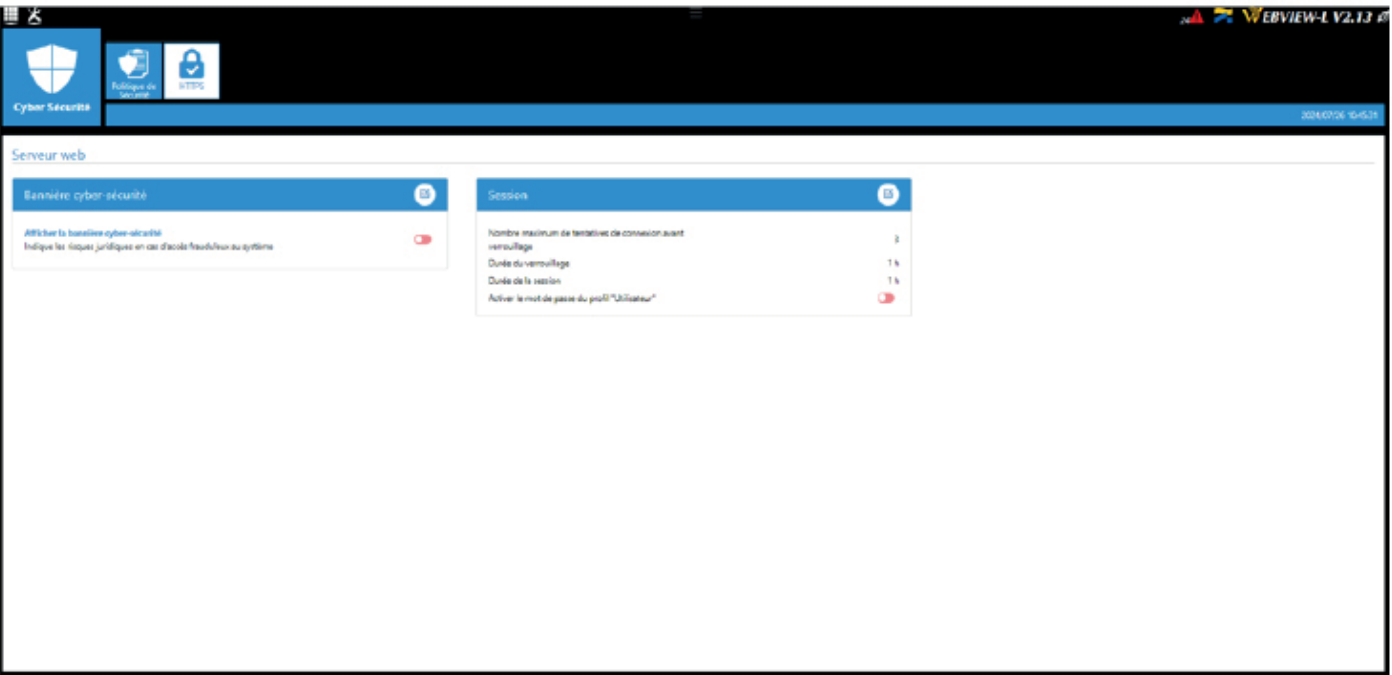
8.5. Security – Cybersecurity

The Cybersecurity menu is only available for the Cybersecurity profile.



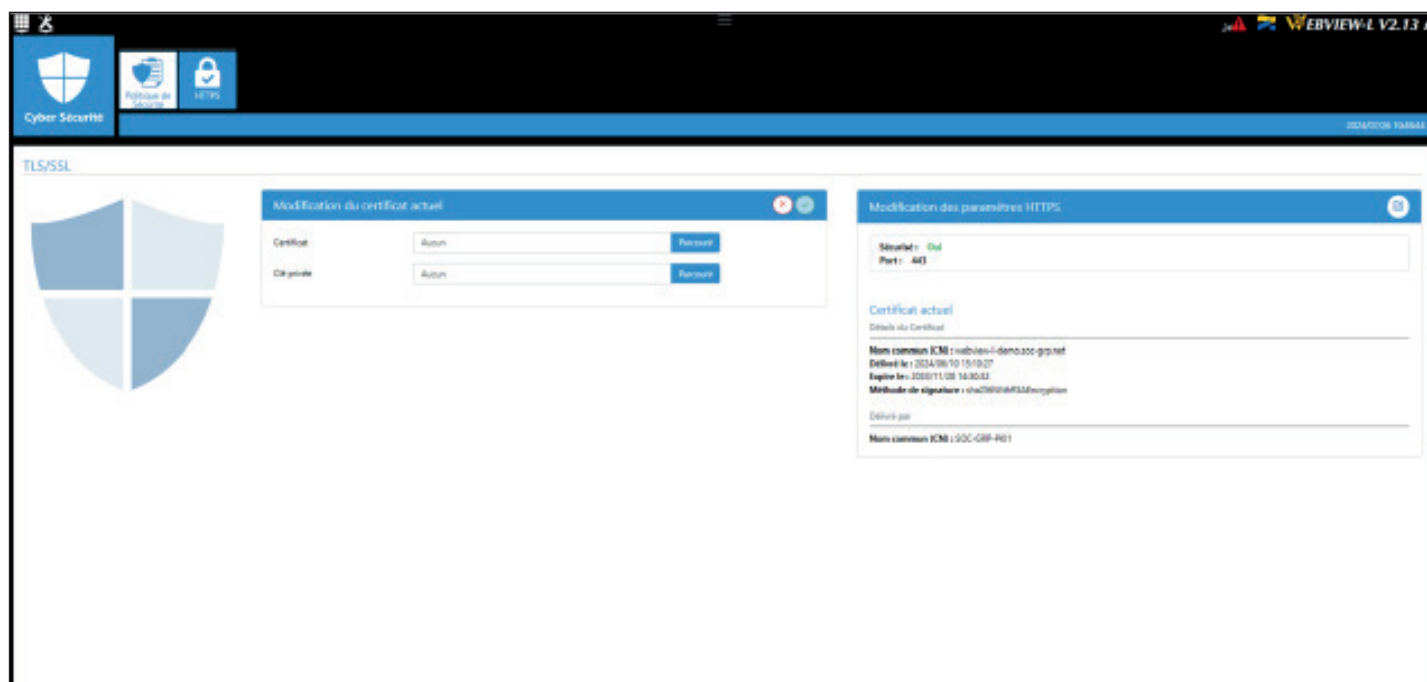
- **Security Policy**

This menu allows you to set up a cybersecure banner in the event of fraudulent login and manage connection to the web-server (maximum number of login attempts, lockout period, session length, activate a password for the "User" profile)



- HTTPS

This menu is used to secure web client-server communication (HTTPS) by loading a digital certificate:



The gateways/displays accept a digital certificate in .pem format. Once a digital certificate and private key have been downloaded, the HTTPS settings can be edited to secure web browsing.

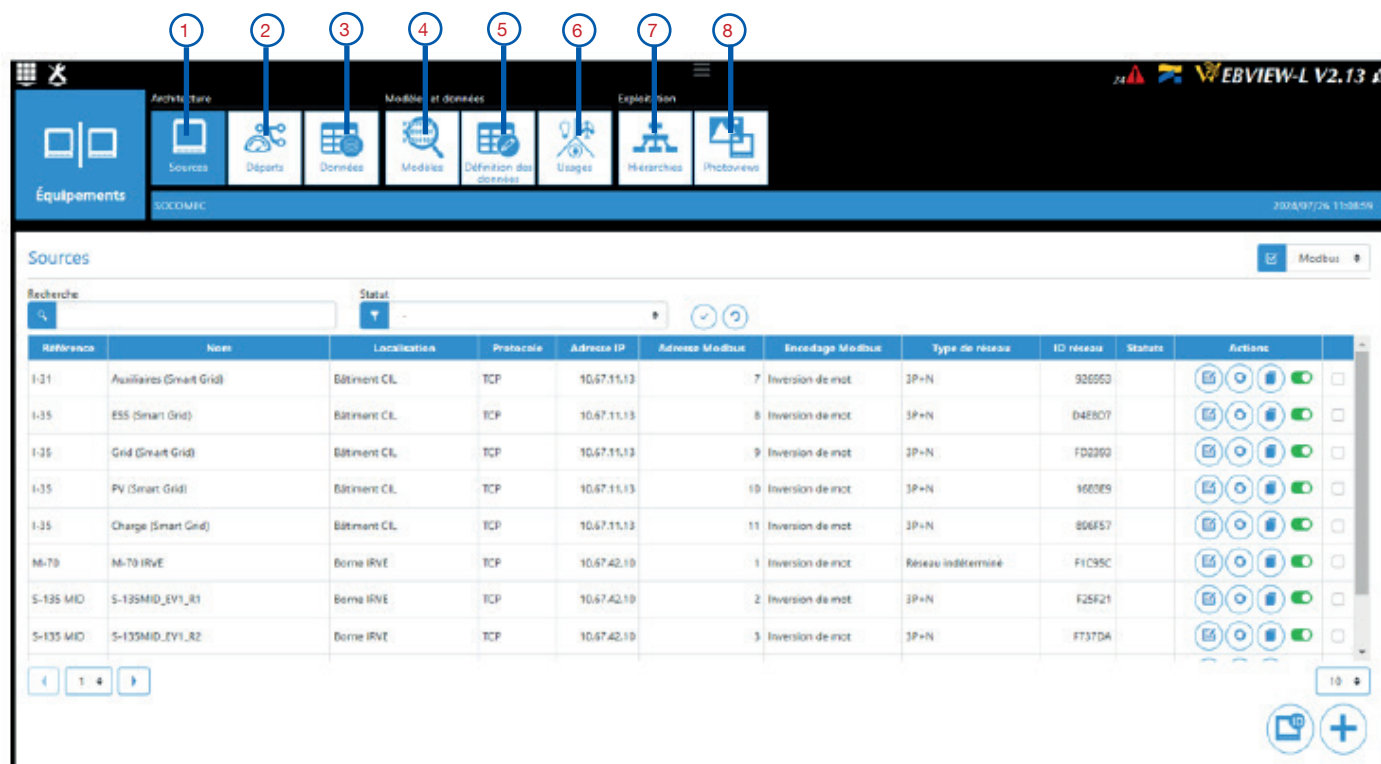


DATALOG H80 is compatible with RSA and ECDSA (Elliptic Curve Digital Signature Algorithm) digital certificates. The use of ECDSA digital certificates is recommended to optimise web browsing speed.

8.6. Device

The administrator configures the DATALOG H80 in this area.

By accessing their configuration area, the administrator can either create a new configuration (note that this deletes the configuration previously stored in DATALOG H80), or modify the existing configuration.



1. Architecture tab – Source: To create data sources
2. Architecture tab – Feeder: To create circuits/loads and data to be collected
3. Architecture tab – Data: For creating data
4. Models and data tab – Models: For managing data models
5. Models and data tab – Data definition: For creating data
6. Models and data tab – Uses: Used to display the list of standard uses and create new custom uses
7. Operation tab - Hierarchies: Manage hierarchies
8. Operating tab - Photoviews: For managing Photoview pages

See details in Appendix "A 2 - 3. Adding a generic Modbus device", page 84.

8.7. Organising data for configuring WEBVIEW-L

To manage up to 500 devices, it was necessary to define a data organisation facilitating WEBVIEW-L configuration. The administrator must understand several concepts and definitions to configure WEBVIEW-L.

8.7.1. Data model

In order not to have to configure each data collected individually for all the products or sources of data connected to WEBVIEW-L, we created data models. These are models grouping several data items based on predefined logic or logic specific to the administrator. These models are then assigned to one or more circuits/loads to simplify the configuration of data collection.

By default, WEBVIEW-L offers 6 predefined models containing fixed, non-modifiable data:

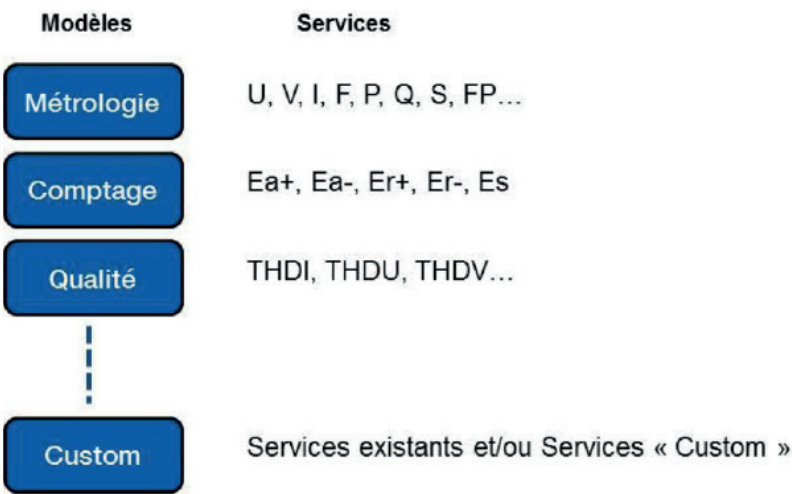
- Energy Metering model grouping together 5 data items: Ea+, Ea-, Er+, Er- and Es
- Metrology model grouping together 15 data items: U12, U23, U31, V1, V2, V3, I1, I2, I3, In, Ptot, Qtot, Stot, PFtot and the frequency
- Quality model grouping together 10 data items: THDI1, THDI2, THDI3, THDIn, THDU12, THD23, THD31, TDDV1, THDV2, and THDV3
- Load Curve model grouping together 5 data items: positive active power, negative active power, positive reactive power, negative reactive power, apparent power
- Insulation model grouping together 2 data items: IIsomCfInst, IIsomRfInst
- RCM model grouping together 2 data items: IIdnInst, IIpelInst

→ Définition des modèles

Nom	Lecture	Envoi fichiers	Historique local	Statut	Actions
Comptage Energie	00 h 20 m 00 s	Non	Oui		5
Metrologie	00 h 05 m 00 s	Non	Oui		15
Qualité	00 h 10 m 00 s	Non	Oui		10
Courbe de Charge	01 h 00 m 00 s	Non	Oui		5
Isolément	00 h 05 m 00 s	Non	Oui		2
RCM	00 h 05 m 00 s	Non	Oui		2

However, if these predefined models are not suitable for the administrator, it is possible to create "Custom" models and incorporate into it the data they wish to collect (existing data or "Custom" data).

Organisational diagram for data models



8.7.2. Data collected

By default, WEBVIEW-L integrates a list of standard data (see list in appendix 2). These are the principal data items available in Socomec devices. These data items can be used for collection from Socomec devices or generic Modbus devices (subject to these devices managing these data items). However, if the administrator wishes to collect other data not included in the list (e.g. pressure measurement data in bar), a "Custom" data item can be created and added to a "Custom" model.

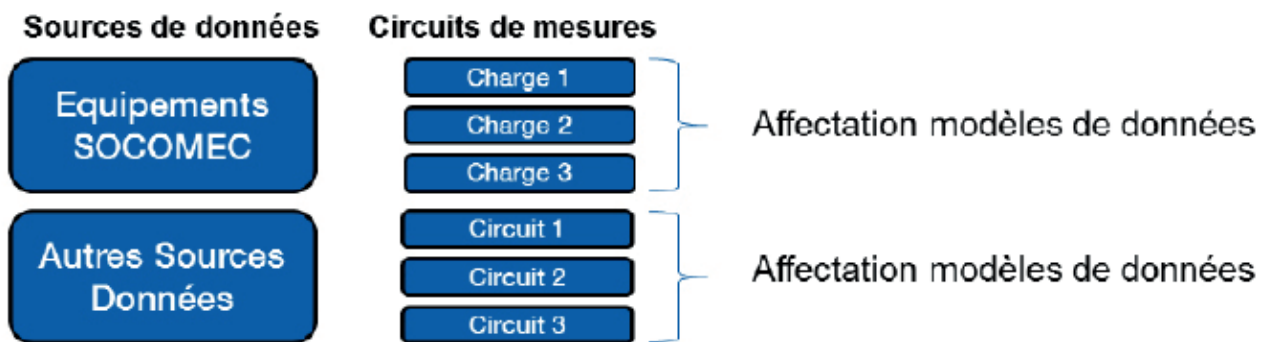
8.7.3. Data sources

The data sources define all devices which can be connected to WEBVIEW-L and for which data can be collected. Firstly, these are Socomec measuring devices, but also ATyS-p-M transfer switches and potentially any device communicating with the Modbus protocol.

8.7.4. Measurement circuit

For an "Electrical" fluid, the measurement circuits correspond to the different loads associated with a device (e.g. the 6 single-phase loads associated with a DIRIS Digiware I60 device). But this may also be metering cubic metres in "Gas" or "Water" fluid circuits. To collect the data, the administrator links one or more data models to each circuit.

8.7.5. Organisation diagram for data sources and measurement circuits



8.7.6. Automatic detection of Socomec devices

To simplify the configuration of Socomec devices connected to WEBVIEW-L, the administrator can use the "Auto-detection" function. The purpose of this function is to run a detection procedure for all Socomec communication gateways (DIRIS G, DIRIS Digiware D-50, DIRIS Digiware D-70, etc.), but also devices behind these gateways, connected to the same Ethernet network as the H80 hosting WEBVIEW-L. This detection makes it possible to feed all information configured in the various devices detected back to WEBVIEW-L. This avoids re-entering data already available in the products (product name, location, IP address, Modbus address, name of circuits, fluid, use, etc.).

Please note: For auto-detection of Socomec devices to work, all devices (communication gateways and measurement devices) must be preconfigured.

8.7.7. Generic Modbus products

Generic Modbus devices all communicate with the Modbus protocol (other than Socomec devices stored in WEBVIEW-L) and can feed data back to WEBVIEW-L. These may be other brands of measurement devices, previous generation Socomec devices for which the data are not stored in WEBVIEW-L or potentially any other device communicating by Modbus. In order to configure these products, their Modbus specifications need to be known and entered (Modbus register address of data collected, read function, frame type, etc.).

8.8. Hierarchies

Use the hierarchies to organise the measuring points in the form of a tree, to give you a practical overview of the loads. The hierarchy generally represents a geographical organisation (site => building => areas) so you can see the distribution flow across the different areas.

Other display modes are possible: by electricity distribution panel, by the services of an organisation, etc.

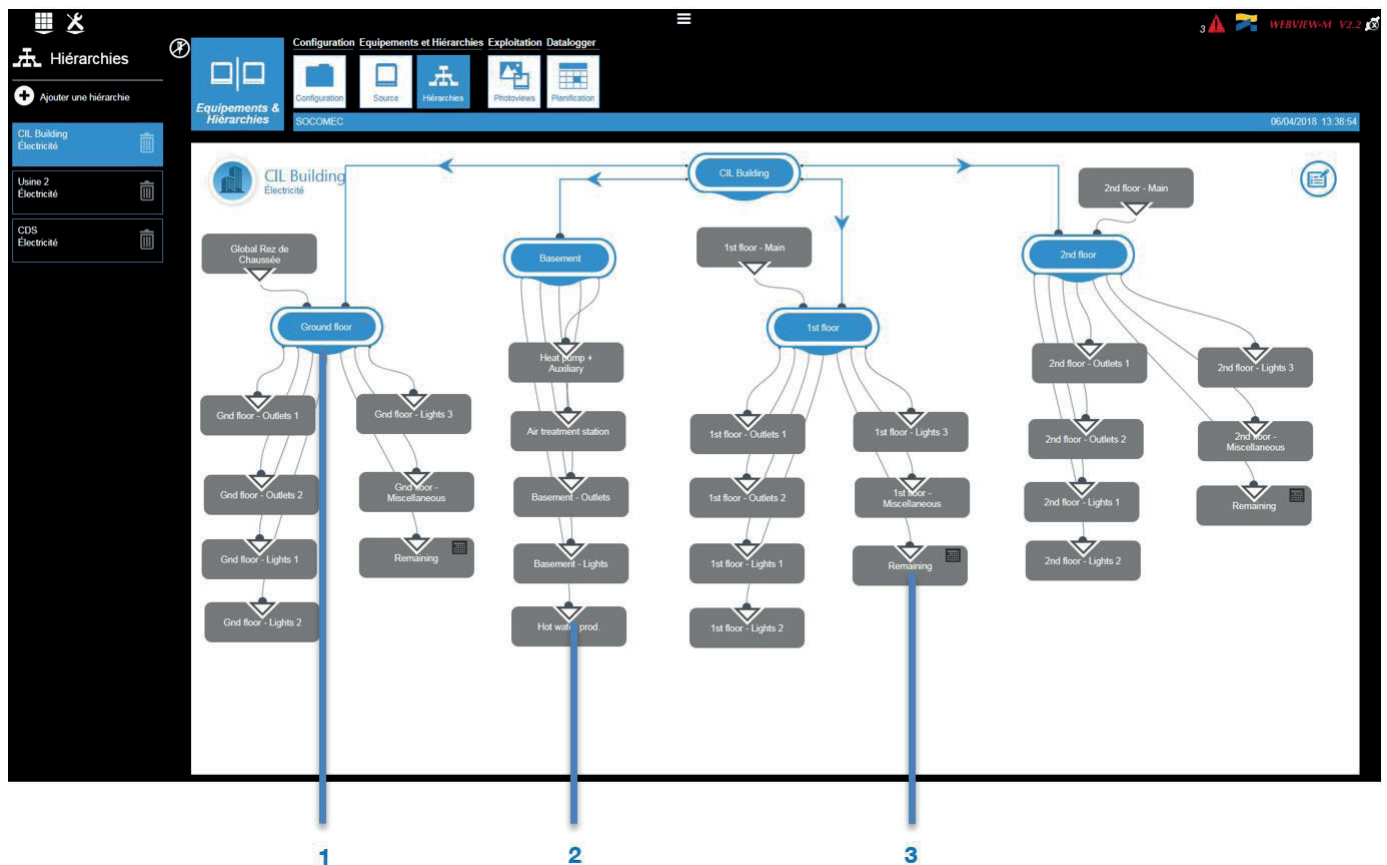
8.8.1. Rules for creating hierarchies

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

- Node: This forms the tree structure over several hierarchical levels (max. 32 per hierarchy)
- Hierarchy: Used to create hierarchical "parent/child" links between different hierarchies to be able to display more complex multi-level, hierarchies with multiple measuring points (example of a multi-level hierarchy: Campus - Buildings - Floors - Corridors)
- Feeder: Corresponds to the measuring points available by device (max. 50 per hierarchy)
- Non-measured point: Automatic calculation of a non-measured feeder.

The rules for creating hierarchies are as follows:

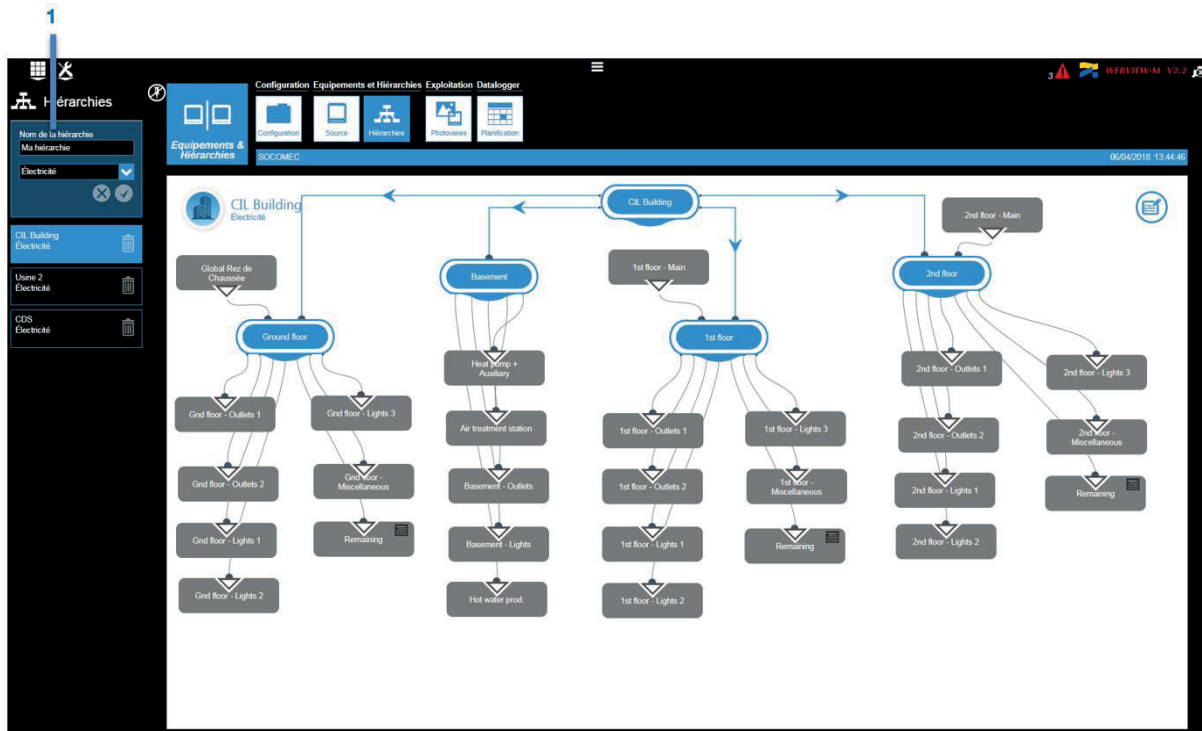
- A hierarchy is single flow (e.g. Electricity) and cannot combine several flows (water, gas, electricity)
- You can create up to **60 different hierarchies**
- The hierarchies can be interlinked to create multi-level hierarchies (Level 1, 2, 3, etc.). This is useful for large-scale networks.



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

1. Creating a new hierarchy.

To create a new hierarchy, the administrator enters a name and selects a flow (1). Once confirmed, an empty hierarchy is created containing its main node.



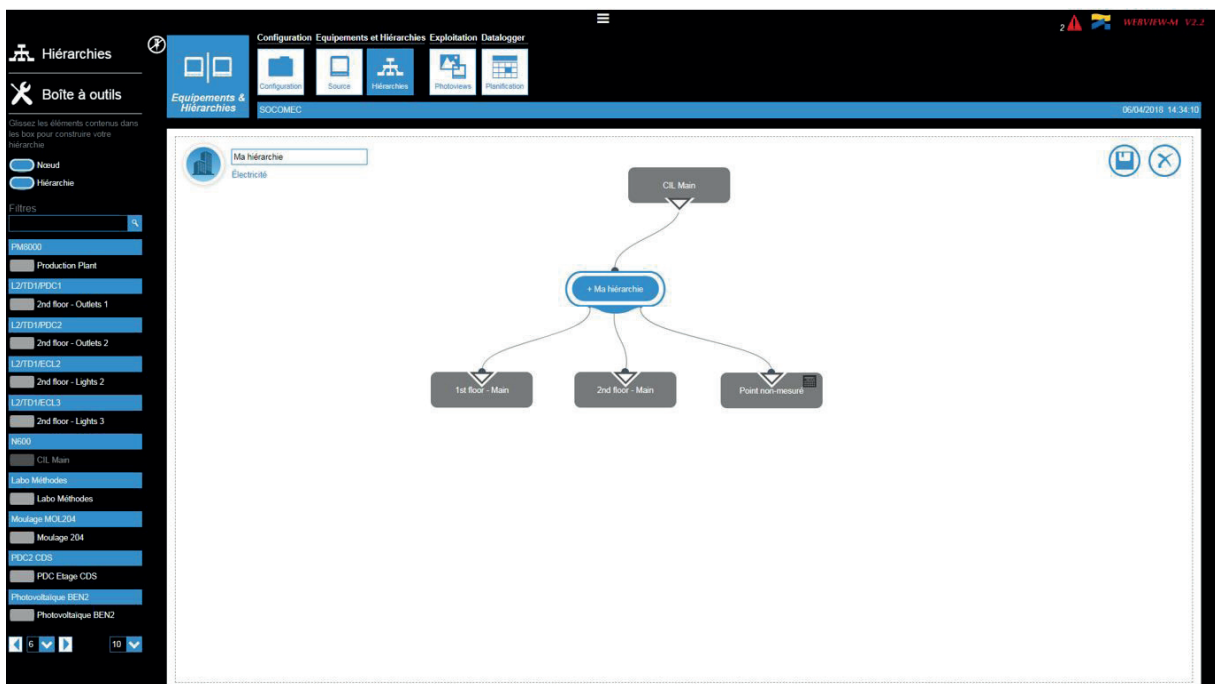
2. Building the hierarchy

To build the hierarchy, the administrator has different modules in the left-hand menu (Node, Hierarchy and Load). The administrator just "drags & drops" the modules onto the hierarchy construction page and create links between them.

Click on a Node to rename it.

Links can be created between nodes and loads. They should be created in the direction of flow, using the mouse to drag a link from the handle under the node, or to drag a load to another node or 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 (difference) between the load associated with the node and all the loads attached to that Node.



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

Sélectionner une hiérarchie

Usine 2

Usine 2

CDS

Once the hierarchy is created, the distribution of consumption can be viewed by load and by use in the "Consumption" menu.

8.9. Photoview

The Photoview option is used to customise the data display against the customer's background pictures (Photo or Building plan, Electrical diagram, Plans, etc.).

All data collected can be displayed as a table of values, overlaid on the background picture chosen by the administrator. Once they are set up, Photoview pages can be views by all WEBVIEW-M users.

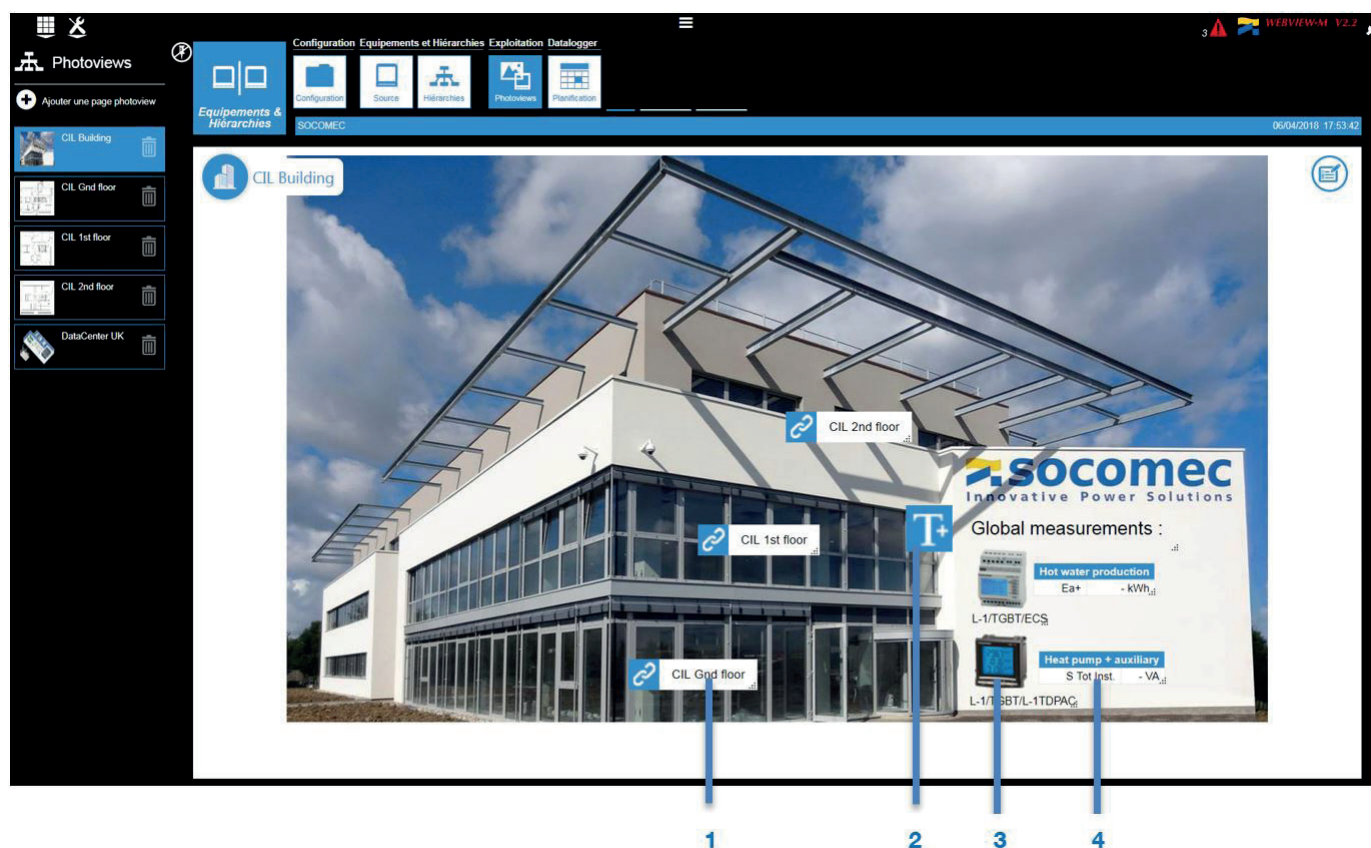
8.9.1. Rules on creating a Photoview page

Photoview pages can include the following elements:

- Measurement: Table grouping together 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
- Equipment: Display pictures of Socomec devices on the Photoview page. Click a hyperlink for direct access to the device monitoring pages (Monitor option)
- 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:

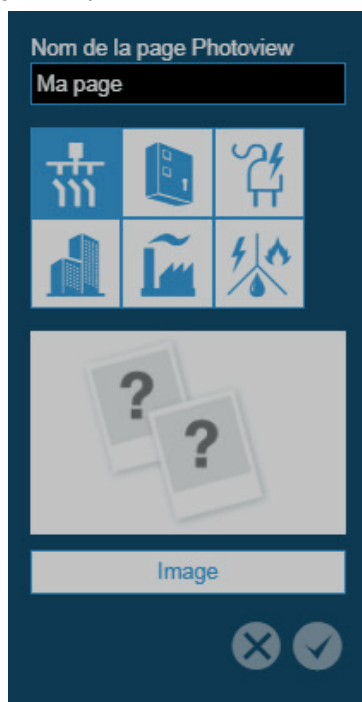
- One Photoview page can contain all the collected values, no matter what the flows and associated uses
- 60 Photoview pages can be created
- Photoview pages can be interconnected using hypertext links



1. Link
2. Text
3. Equipment
4. Power monitoring

1. Creating a Photoview page.

To create a Photoview page, the administrator enters a name for the page, selects an icon to represent it and opens the window to select the background picture.



The screenshot shows a web form for creating a Photoview page. At the top, there is a label "Nom de la page Photoview" and a text input field containing "Ma page". Below this is a grid of six icons representing different industrial or commercial settings: a person, a server rack, a lightning bolt, a building, a factory, and a lightning bolt with a flame. Under the icons is a large rectangular area with two overlapping photo icons and question marks, indicating where to select a background image. Below this area is a button labeled "Image". At the bottom right are two circular buttons: one with an 'X' and one with a checkmark.

2. Selecting the picture

Administrators can browse the files from their computer to select the chosen pictures, under the following conditions:

- The image file must not be bigger than 10,485,760 bytes,
- The image resolution must not exceed 1920 (W) x 1080 (H).



3. Creating the Photoview page

To create the Photoview page, the administrator has various objects in the "Toolbox" in the left-hand menu (Measurement, Text, Devices and Link). The administrator can simply "drag&drop" to add objects to the Photoview page.

- **Measurement**

The window below appears when adding a "Measurement" object to the picture. The administrator can:

- o Select the device
- o Check the settings to be displayed
- o Give a title to the table of values

network	U	Inst.	Moy	Qualité	Inst.
Alarmer	V1	☒		THD U1-U2	☐
General U1 MKG	V2	☒		THD U2-U3	☐
	V3	☒		THD U3-U1	☐
	Usys	☐	☐	THD V1	☐
	Vsys	☐	☐	THD V2	☐
	Unb	☐	☐	THD V3	☐
	Vnb	☐	☐		
	Unba	☐	☐		
	Vnba	☐	☐		

- **Text**

The window below appears when adding a "Text" object to the picture. The administrator can:

- o Enter the text to be displayed
- o Choose the colour of the text and background

Texte

Texte

Mon Texte

Couleur

Couleur de fond

OK Annuler

• Equipment

The window below appears when adding a "Device" object to the picture. The administrator can:

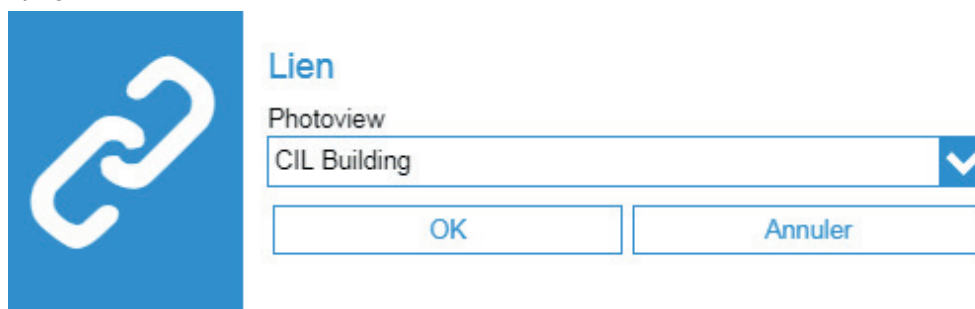
- Add one device ("Add by equipment item") or all the devices for one location ("Add by location")
- Select the display mode: the icon for the selected device or just a clickable area, which can be adjusted and positioned anywhere in the picture

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



• Link

The window below appears when adding a "Link" object to the picture. The administrator can create a link to another existing Photoview page.



Creating links is useful when a main panel, fitted with meters or other measuring devices, feeds several distribution boards also fitted with meters.

8.10. Scheduling

The purpose of the Scheduling feature is to collect, store and send data to a third-party server.

This page is used to configure the type of data aggregation and the transmission frequency by data category.

The screenshot displays the 'Scheduling' configuration page in the WEBVIEW-L V2.1 interface. The page is organized into a grid of configuration panels for different data categories: Index, Mesure, Alarmes, Courbe de charge, and État. Each panel contains a 'Type d'aggregation' dropdown menu (currently set to 'Un fichier') and a 'Fréquence' section with radio buttons for 'Désactivé', 'Tous les' (with time intervals), and 'Tous les' (with day and time). The top navigation bar includes 'Configuration', 'Exploitation', and 'Défauts'. The top right corner shows 'WEBVIEW-L V2.1' and a date/time stamp '09/09/2018 21:30:37'.

DATALOG H80 publishes data files for each type of selected variable (Index, Measurement, Alarms, Load Curves, Status)

For each variable type, the administrator defines:

- The type of aggregation: a single file for all devices or a file for each device
- The frequency of sending files: every X minutes/hours or on a specific day and at a specific time of the day/week

ANNEX 1.

A 1 - 1. Changing the configuration of the IP address and name of the DATALOG H80

This appendix describes how to change the configuration of the default IP address and WEBVIEW server name

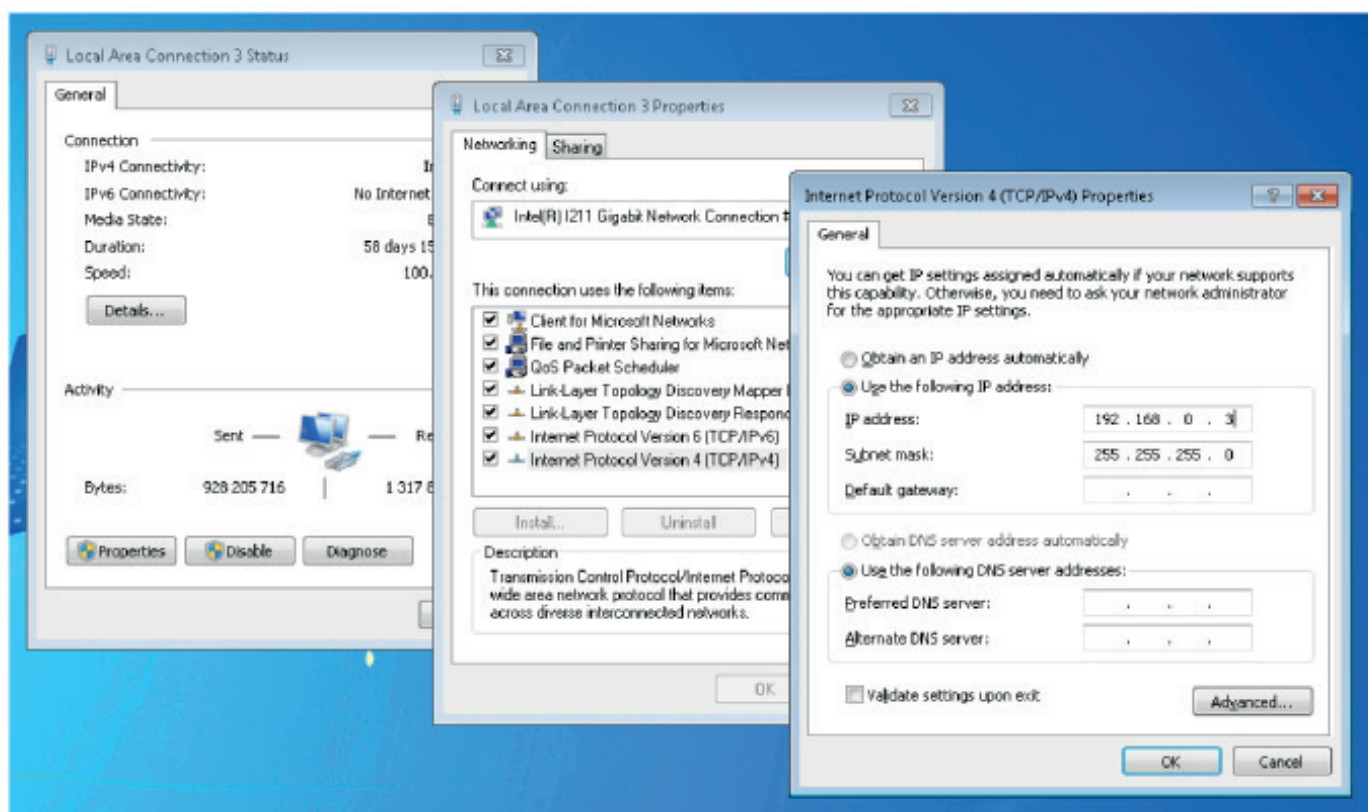
A 1 - 1.1. IP address

A 1 - 1.1.1. Default IP address

By default, the WEBVIEW server is configured with the following fixed IP address on the LAN1 port:

IP address: 192.168.0.3

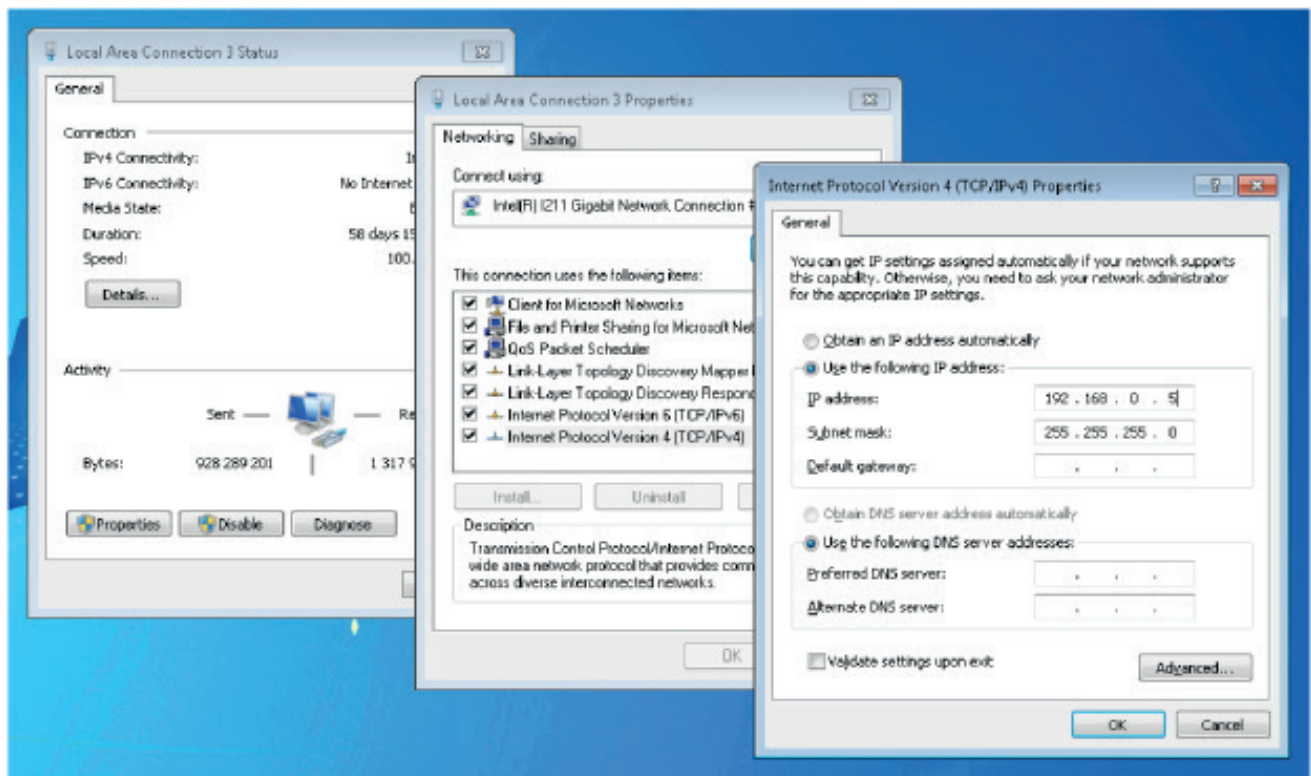
Subnet mask: 255.255.255.0



A 1 - 1.1.2. Changing the default IP address

To change the configuration of the default IP address:

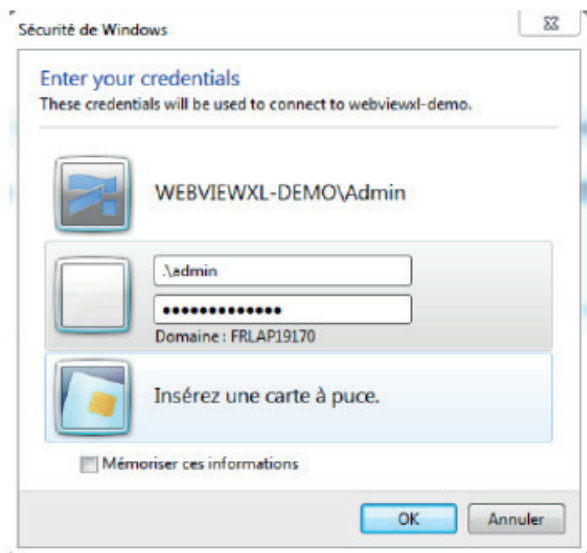
Configure your PC with an IP address "192.168.0.xxx" (e.g. 192.168.0.5) and a subnet mask 255.255.255.0



- Connect your PC to the LAN1 port of DATALOG H80 using an Ethernet cable
- Launch the Remote Desktop Connection script ("mstsc" command)

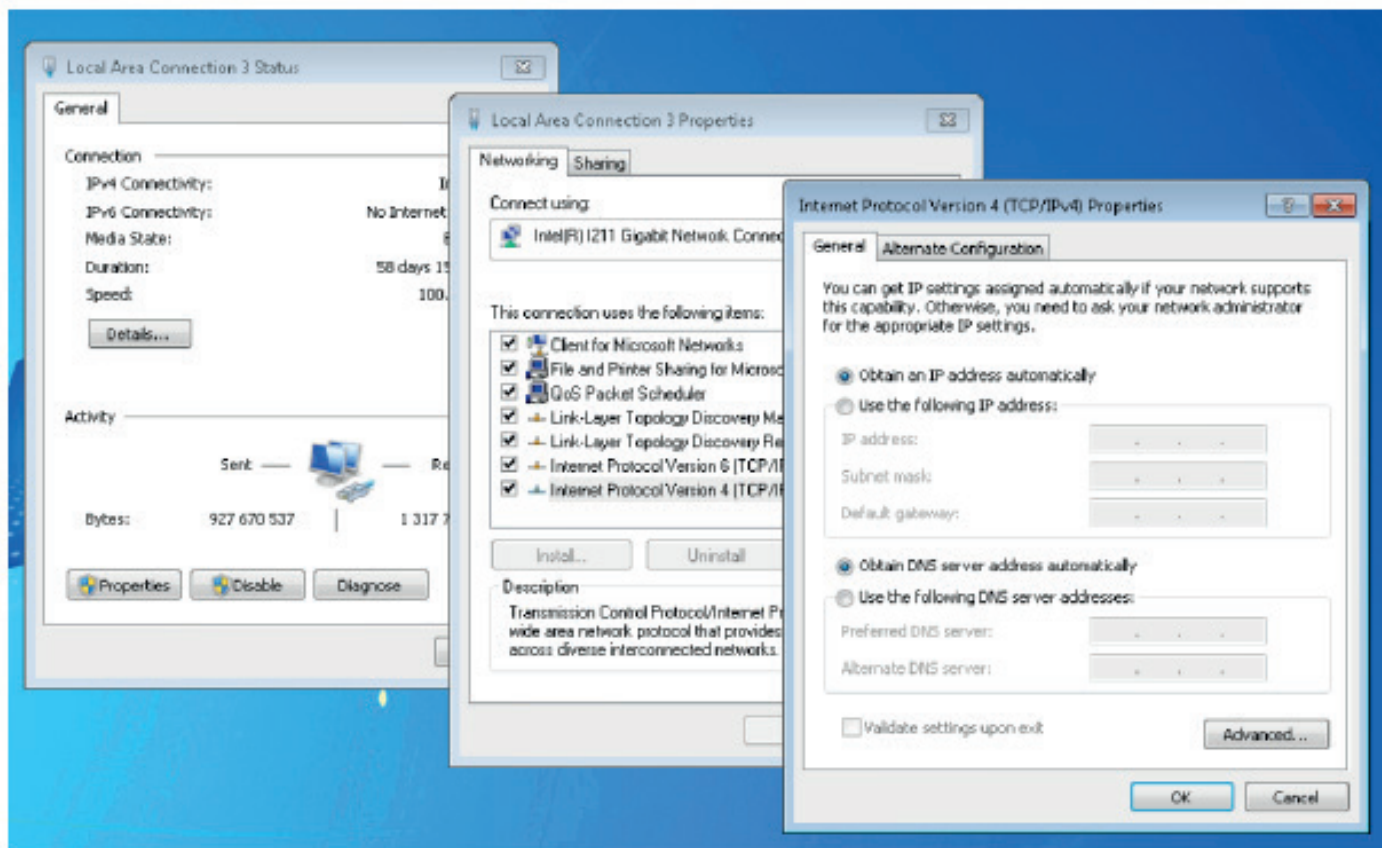


- Enter the ".\admin" login and password "AdminPassword"



- Change the network configuration of the WEBVIEW server by changing the IP address of the H80 or by selecting "Obtain an IP address automatically"

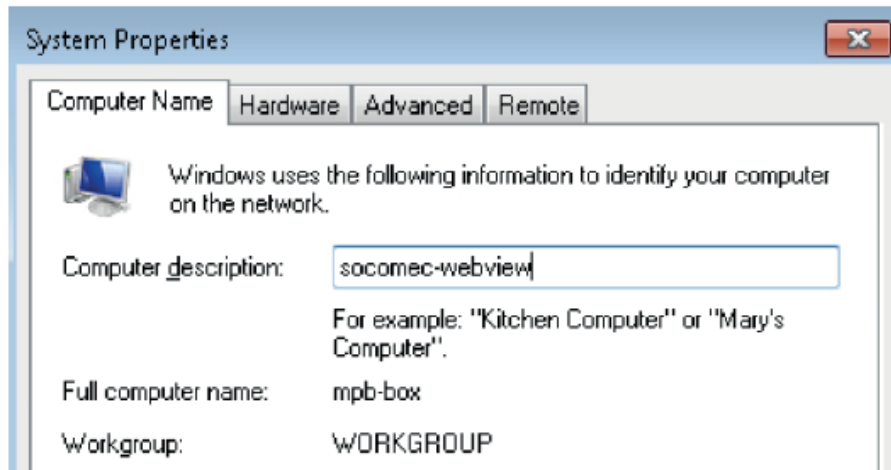
By default, the LAN1 port is configured with fixed IP address 192.168.0.3 and the LAN2 port is configured as DHCP



A 1 - 1.2. Server name

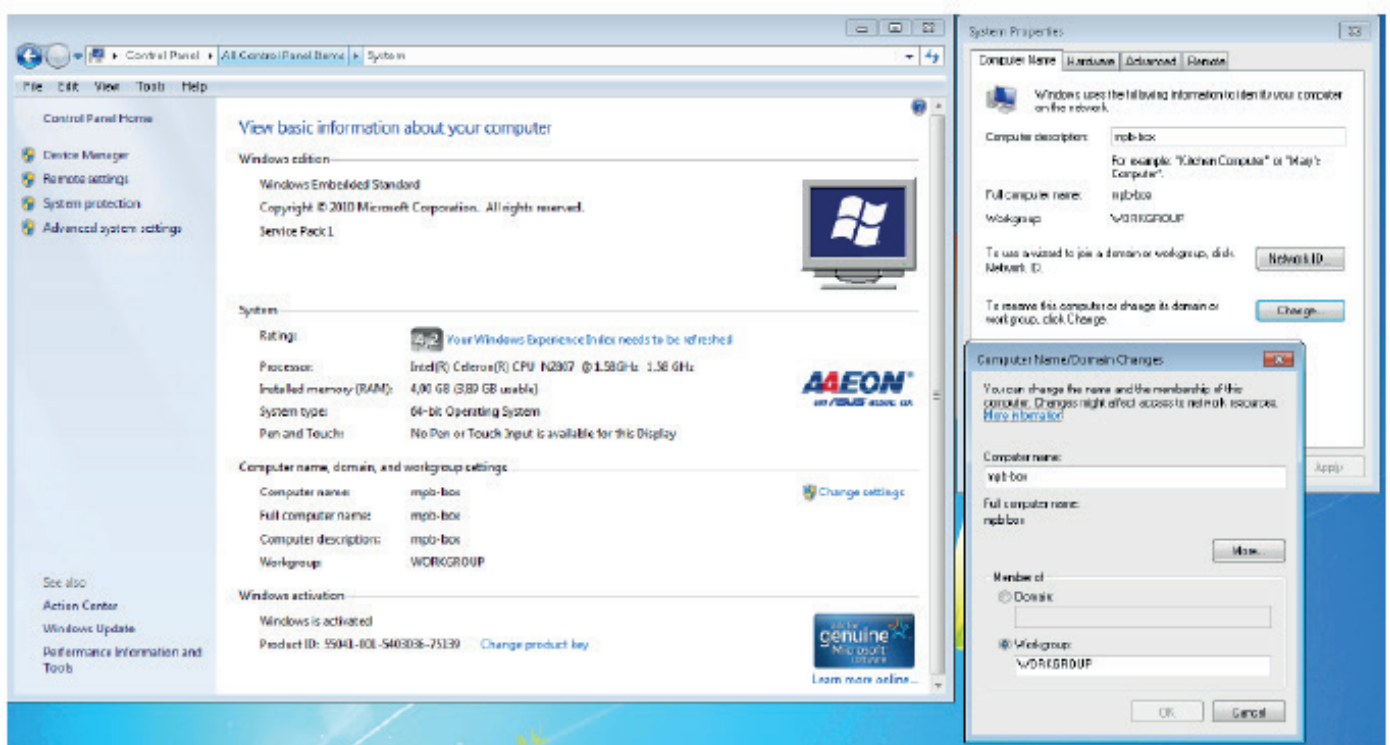
A 1 - 1.2.1. Default server name

You can define a server name associated with the DATALOG H80 IP address. The default server name is "Socomec-webview"



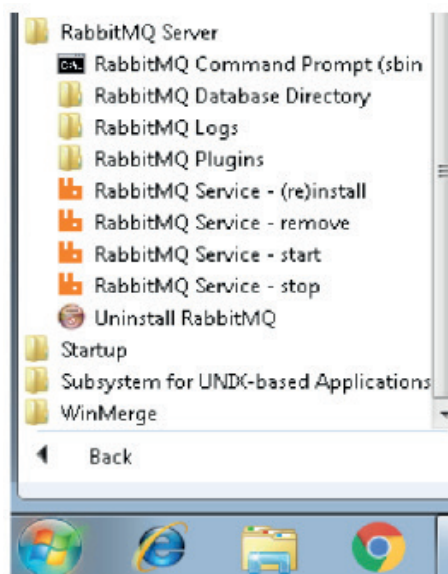
A 1 - 1.2.2. Changing the default server name

- Open the "Control Panel"
- Click the "System" icon
- Check "Change settings"
- Click "Change"
- Change the name of the computer in "Computer name"
- Click OK to reboot the computer

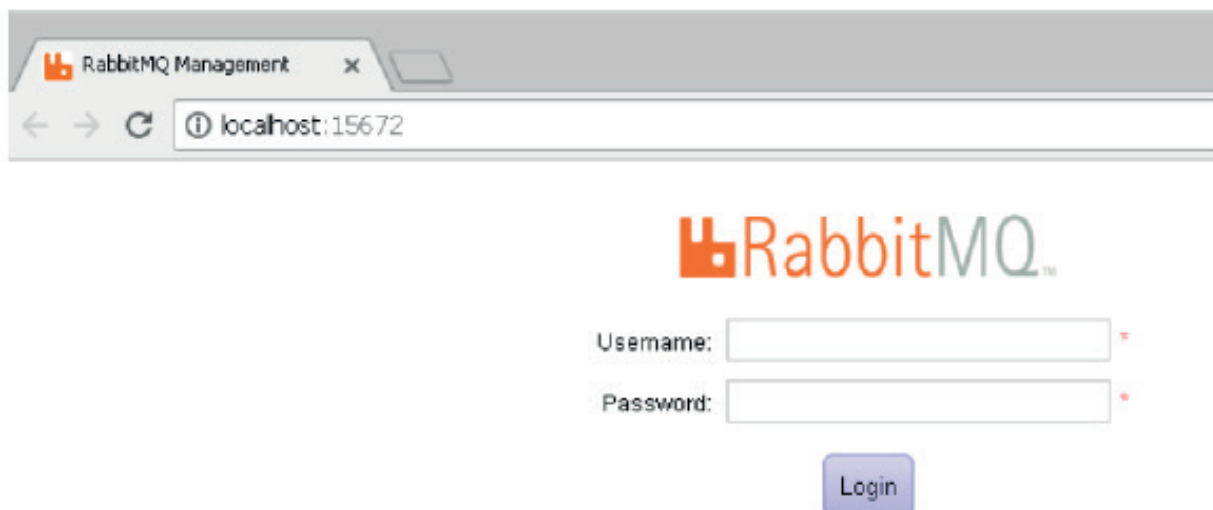


A 1 - 1.2.3. Updating the configuration of the RabbitMQ server

- Open "All programs" / "RabbitMQ server"
- Run the command "RabbitMQ Service - (re)install"



- Start the RabbitMQ portal, <http://localhost:15672>, to check the status of the RabbitMQ server: the login window should be displayed:



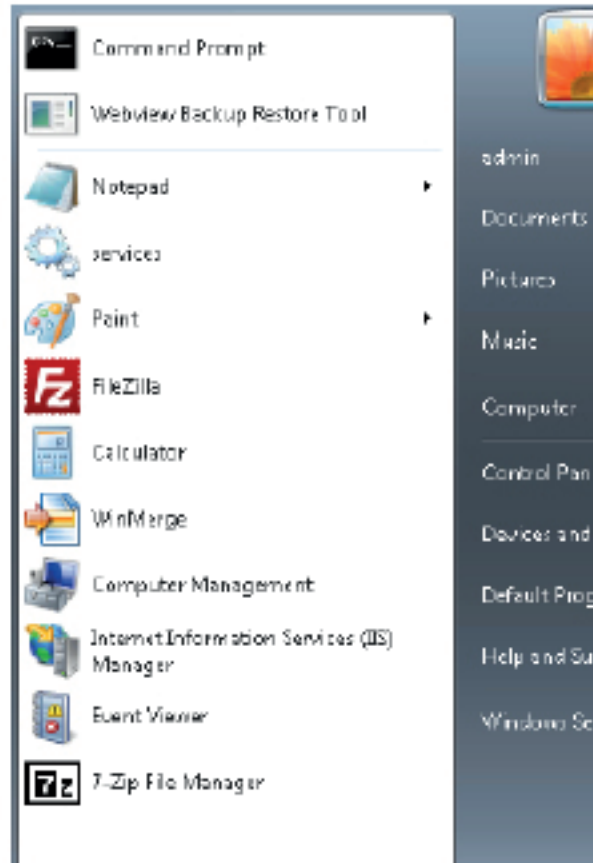
A 1 - 2. Procedure for backing up and restoring WEBVIEW-L configuration and data

This appendix describes how to backup and restore WEBVIEW-L data and configuration.

A 1 - 2.1. Backup and restore tool

A 1 - 2.1.1. Running the backup and restore tool

Above WEBVIEW-L version 2.2, a shortcut is available in the Start menu to run the application:



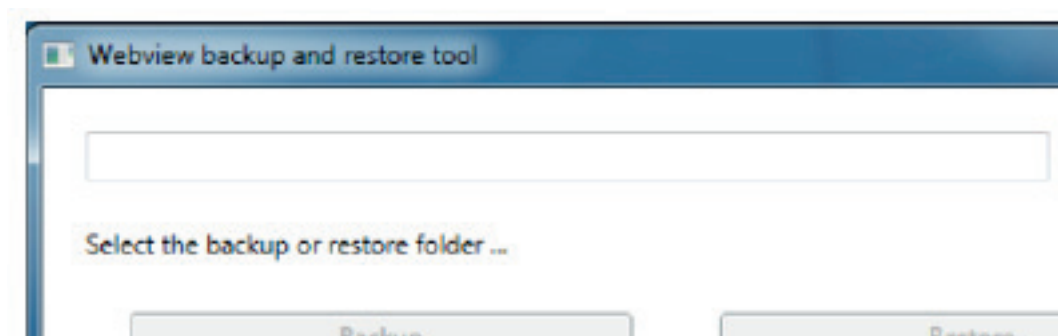
For previous versions, the application must be started: "C:\Program Files (x86)\Socomec\Webview\BackEnd\backup-restore\Webview.BackupRestore.exe"

A 1 - 2.1.2. Backing up data and configuring the application

This operation will backup the current WEBVIEW-L configuration and database.

CAUTION: During backup, the database is unavailable. This means that no data are stored in the database during the backup phase.

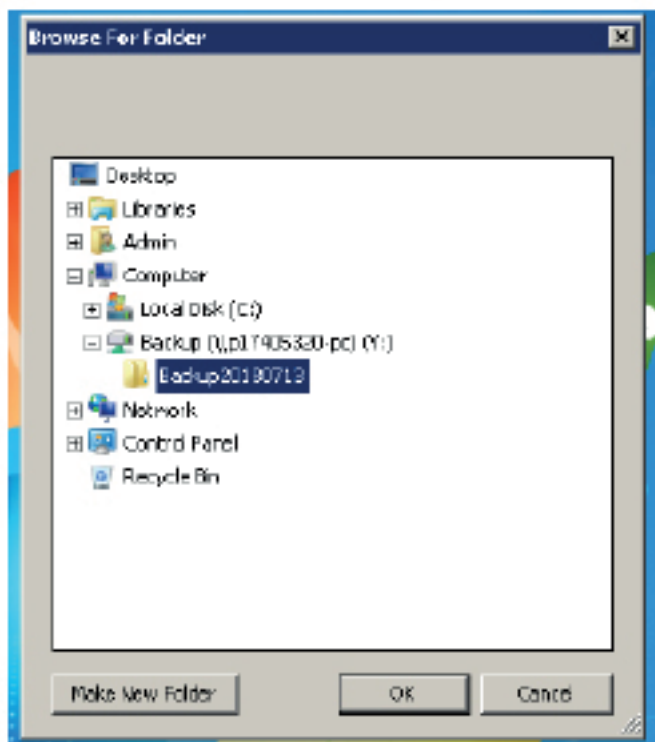
- Click the "Select folder" button to select the backup file:



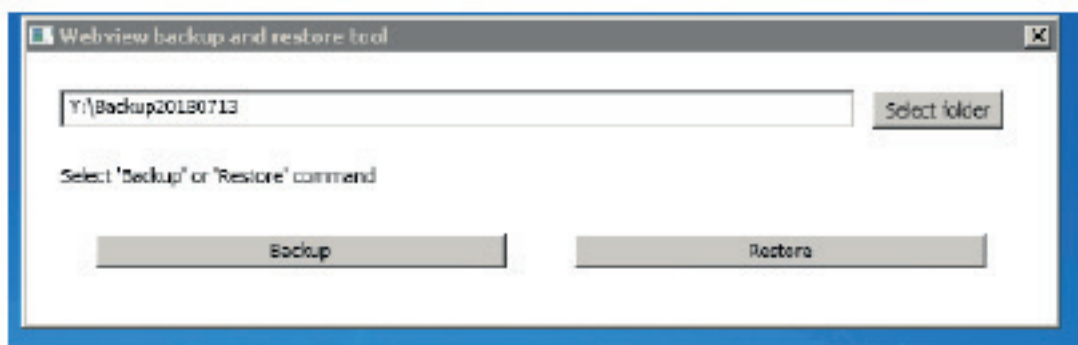
It is highly recommended to choose an external directory such as an external hard drive connected by USB to the H80 or a network directory to which the H80 will have sufficient permissions.

Do not select a local directory (in the H80) as this would fill the device memory and would not keep the exported data secure if the H80 malfunctioned.

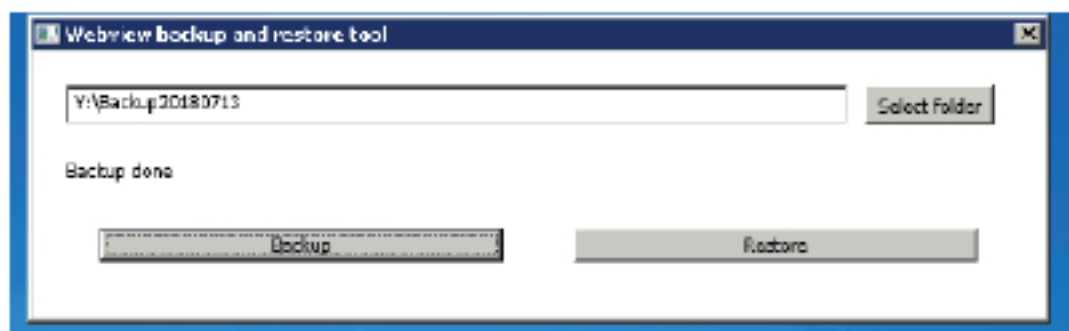
- Select the backup folder:



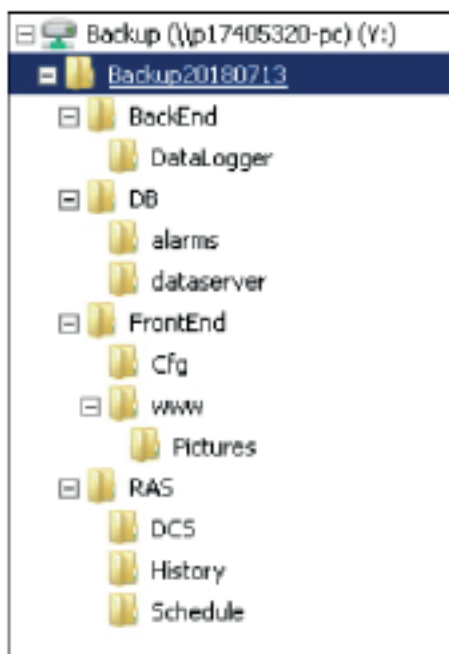
- Click the "Backup" button to begin backup. The backup can take several minutes, depending on the size of the database to be backed up:



- Wait until the message "Backup done" is displayed:

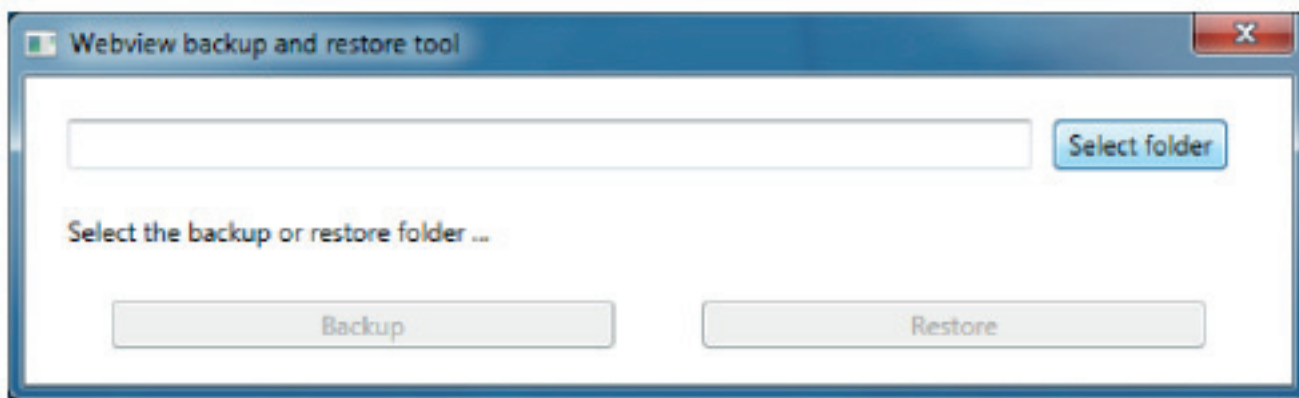


- The following folder is created in the backup folder:

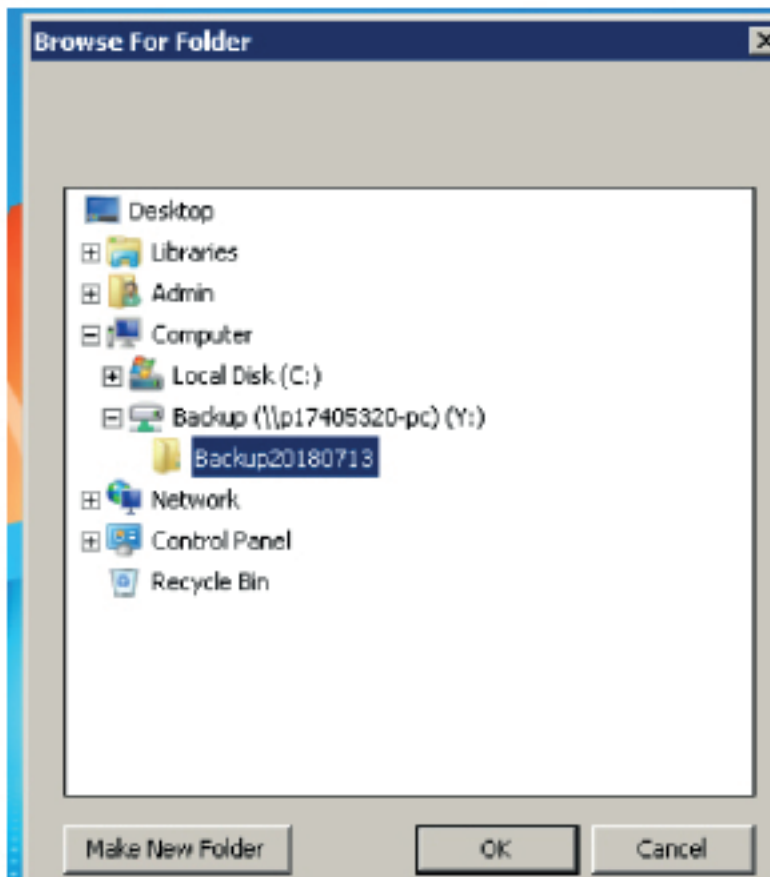


A 1 - 2.1.3. Restoring WEBVIEW-L configuration and data

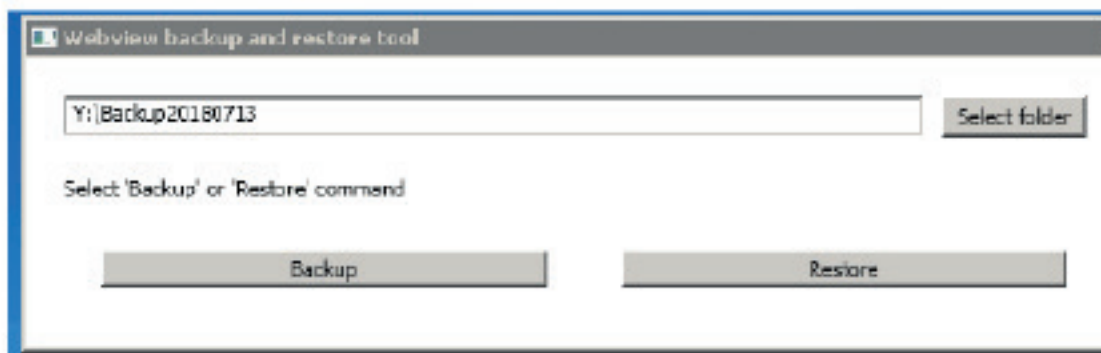
- Click the "Select folder" button to select the restore file:



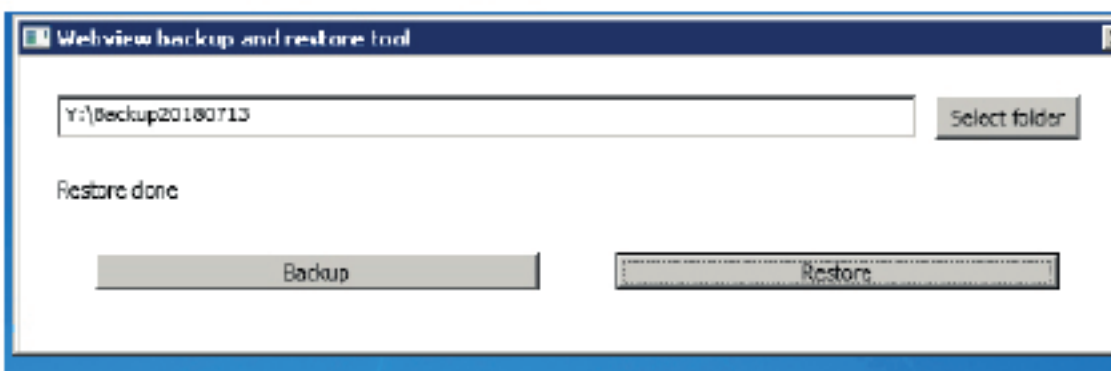
- Select the restore folder:



- Click the "Restore" button to begin the restore. The restore can take several minutes, depending on the size of the database to be restored:



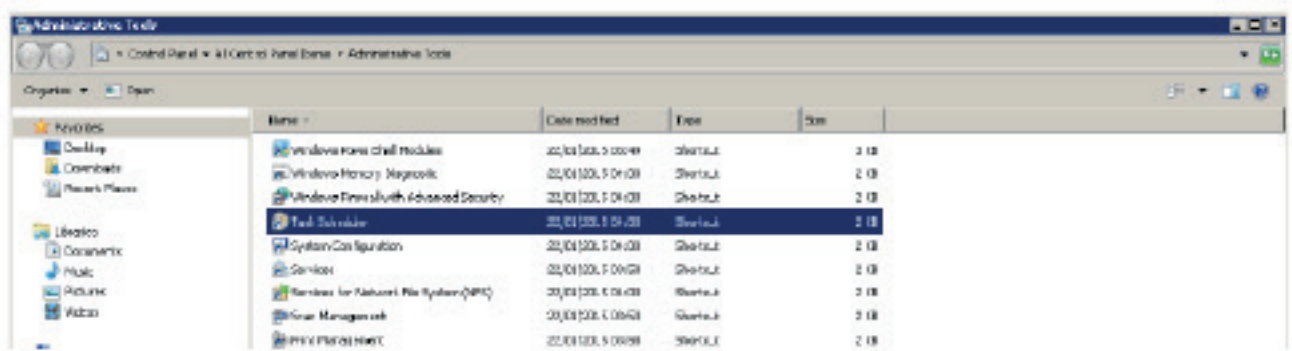
- Wait until the message "Restore done" is displayed:



A 1 - 2.2. Scheduling a backup task (to restore in the event of a problem)

The "Windows Task Scheduler" feature allows you to run a task automatically to backup the WEBVIEW-L configuration data. A new timestamped folder is created for each backup.

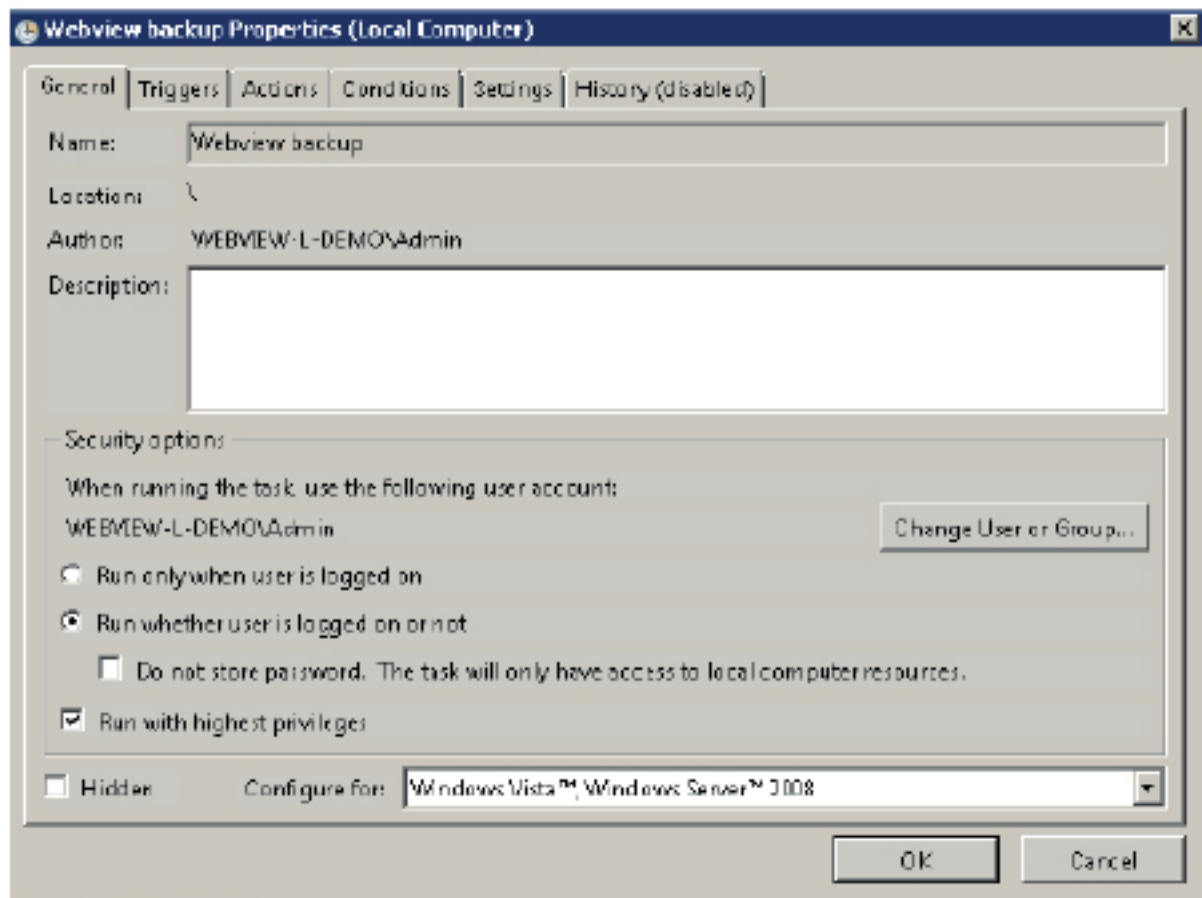
- From the Start menu, go to "Control Panel" then click "Administrative Tools".
- Start the "Task Scheduler" function:



- Create the task by clicking "Create Task..." from the right panel.

The task created must now be configured.

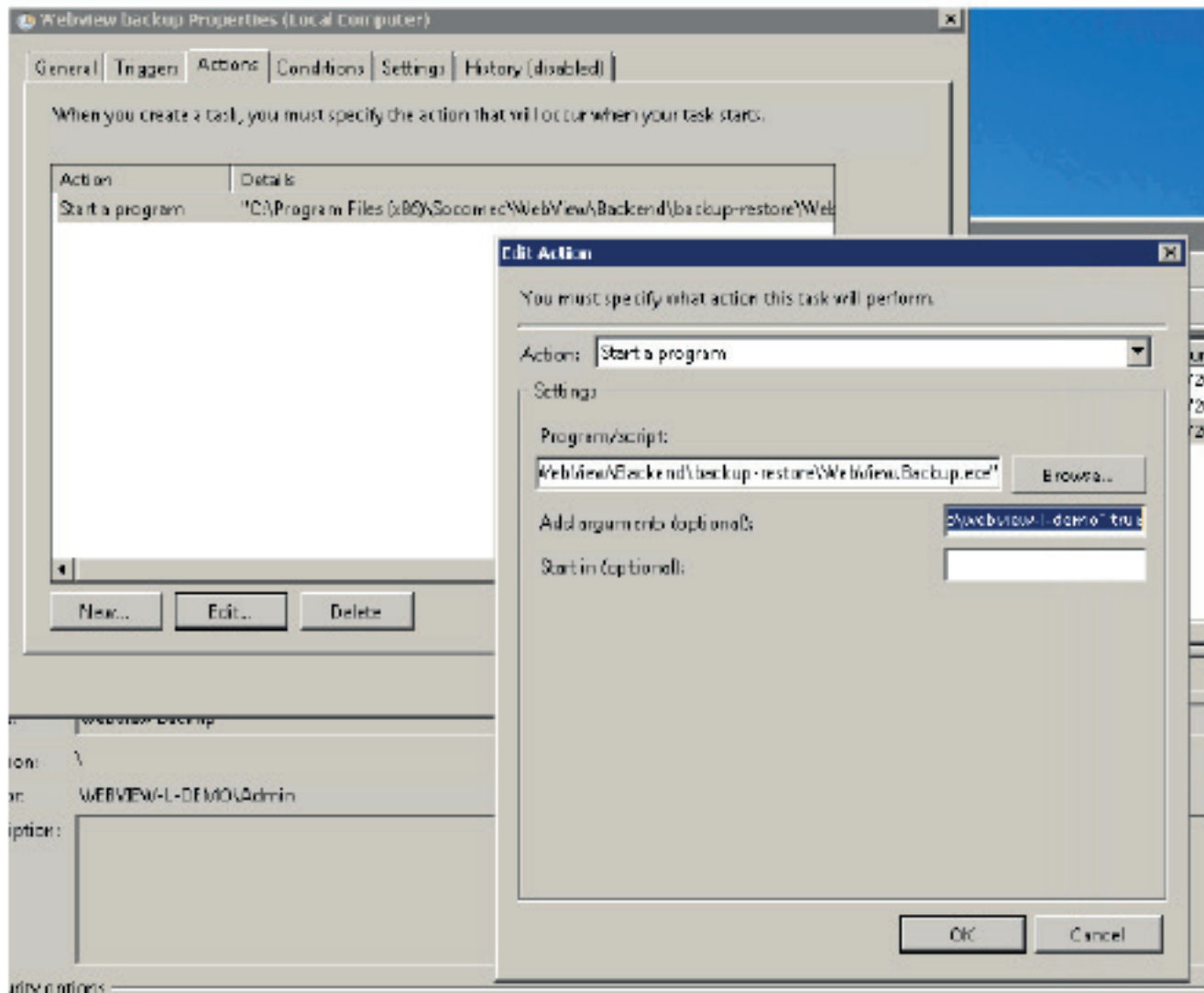
Configuration of the "General" tab



- Name: enter the backup file name
- Select "Run whether user is logged on or not"
- Select "Run with highest privileges"

Configuration of the "Actions" tab

- Create a new action by clicking "New".
 - In Action, select "Start a program"
 - In "Program/script", type:
"C:\Program Files (x86)\Socomec\Webview\Backend\backup-restore\Webview.Backup.exe"
 - In "Add arguments (optional)", type: "\\p17405320-pc\backup" true
- "\\p17405320-pc" is the backup root directory

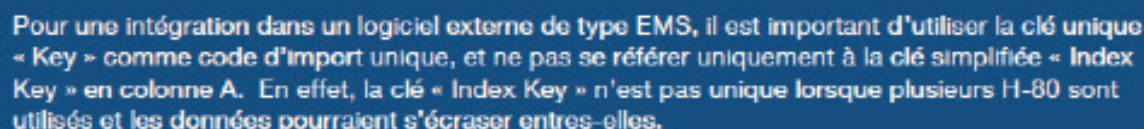


It is important to ensure that DATALOG H80 has the necessary write permissions in the directory chosen.

A 1 - 3.1. Example of file in EMS format

The .csv file is split into 2 parts:

- A "header" section groups information specific to each variable exported. This variable is identified by a unique "Key" in column B.
- A section grouping timestamped measurement data.



A 1 - 3.2. Example of data file published in custom .csv format to the remote server

A	B	C	D	E	F	G	H	I
Data Key	UTC Date Time	Value	Quality	Unit	Circuit Name	Circuit Index	Usage	Modbus Address
23a0d323-94de-4ca7-8f08-a7a50779f002	2022-08-10T13:54:03	983417	192	Wh	TD2 Prise General 1	0	Outlet	50
69abd806-174c-44d6-b0cc-8a33d308416f	2022-08-10T13:54:03	2149150.9	192	VAh	TD2 Prise General 1	0	Outlet	50
76b5b112-4a2d-4cec-9ae7-736ab75eb769	2022-08-10T13:54:03	2028.1	192	varh	TD2 Prise General 1	0	Outlet	50
a3c29099-9584-4404-afb2-0df60e2d236a	2022-08-10T13:54:03	12.8	192	Wh	TD2 Prise General 1	0	Outlet	50
f52cd8e6-22eb-46b4-93c0-c19a12808fbf	2022-08-10T13:54:03	1550722	192	varh	TD2 Prise General 1	0	Outlet	50
97ed0f96-54de-43dc-b702-95404e0afbb1	2022-08-10T13:54:03	376517.8	192	Wh	TD2 RDC AL12 CF02	0	None	57
73be4345-8ca2-48ff-bcb9-c1d11dcaa9e5	2022-08-10T13:54:03	1438144.7	192	varh	TD2 RDC AL12 CF02	0	None	57
d7942ce3-f0e6-4a2c-bfff-fcac99660f28	2022-08-10T13:54:03	7.5	192	varh	TD2 RDC AL12 CF02	0	None	57
ad3426be-7f65-4da8-8d22-d8efed227b0b	2022-08-10T13:54:03	48.6	192	Wh	TD2 RDC AL12 CF02	0	None	57
7970a660-14eb-427f-afd1-94f9d2531848	2022-08-10T13:54:03	1599702.1	192	VAh	TD2 RDC AL12 CF02	0	None	57
c10f40cc-3142-48d8-ae07-2edf76627ff5	2022-08-10T13:54:03	16446.5	192	varh	TD2 Prise General 2	0	Outlet	51
ee3b3f28-215d-4259-8e9d-08a6b62f0680	2022-08-10T13:54:03	174462.1	192	varh	TD2 Prise General 2	0	Outlet	51
3e8571be-eb79-4931-a7cc-00308562ad90	2022-08-10T13:54:03	973267.2	192	Wh	TD2 Prise General 2	0	Outlet	51
b4a38fcd-11e9-409a-b57d-ab404cb0e2c4	2022-08-10T13:54:03	1308770.4	192	VAh	TD2 Prise General 2	0	Outlet	51
06720696-53ee-4b58-93fc-96a2194d59d7	2022-08-10T13:54:03	2212.1	192	Wh	TD2 Prise General 2	0	Outlet	51
84eba1a8-fb01-4d6a-9c32-d98b84d2feb2	2022-08-10T13:54:03	0.3	192	varh	TD2 RDC Pdc 32A (2)	0	Outlet	55
d38a2ee9-ad7d-4502-8561-07e5e65e2348	2022-08-10T13:54:03	43.6	192	VAh	TD2 RDC Pdc 32A (2)	0	Outlet	55
c8d6910c-220c-4651-ad09-ddd64b1662dd	2022-08-10T13:54:03	0.8	192	varh	TD2 RDC Pdc 32A (2)	0	Outlet	55
c4df1381-f494-4907-8e6c-077a88188b7b	2022-08-10T13:54:03	8.3	192	Wh	TD2 RDC Pdc 32A (2)	0	Outlet	55
3949a8b8-cdd9-48b1-86b1-fbb5bc19bd14	2022-08-10T13:54:03	3.3	192	Wh	TD2 RDC Pdc 32A (2)	0	Outlet	55

ANNEX 2.

A 2 - 1. List of all standard data managed in WEBVIEW-L

Name	Group	Unit(s)
IV1Inst	voltage	V (mV, V, kV, MV)
IV2Inst	voltage	V (mV, V, kV, MV)
IV3Inst	voltage	V (mV, V, kV, MV)
IU12Inst	voltage	V (mV, V, kV, MV)
IU23Inst	voltage	V (mV, V, kV, MV)
IU31Inst	voltage	V (mV, V, kV, MV)
IUSysInst	voltage	V (mV, V, kV, MV)
IVSysInst	voltage	V (mV, V, kV, MV)
IVnInst	voltage	V (mV, V, kV, MV)
IFreqInst	frequency	Hz (Hz)
INetworkFreqInst	frequency	Hz (Hz)
II1Inst	current	A (mA, A, kA, MA)
II2Inst	current	A (mA, A, kA, MA)
II3Inst	current	A (mA, A, kA, MA)
IInInst	current	A (mA, A, kA, MA)
IISysInst	current	A (mA, A, kA, MA)
IIPEInst	current	A (mA, A, kA, MA)
IP1Inst	power	W (W, kW, MW, GW)
IP2Inst	power	W (W, kW, MW, GW)
IP3Inst	power	W (W, kW, MW, GW)
IPSumInst	power	W (W, kW, MW, GW)
IQSumInst	power	var (var, kvar, Mvar)
IQ1Inst	power	var (var, kvar, Mvar)
IQ2Inst	power	var (var, kvar, Mvar)
IQ3Inst	power	var (var, kvar, Mvar)
IS1Inst	power	VA (VA, kVA, MVA)
IS2Inst	power	VA (VA, kVA, MVA)
IS3Inst	power	VA (VA, kVA, MVA)
ISSumInst	power	VA (VA, kVA, MVA)
IpF1Inst	pf	- (-)
IpF2Inst	pf	- (-)
IpF3Inst	pf	- (-)
IpFSumInst	pf	- (-)
IHarmonicsTHDI1Inst	thd	% (%)
IHarmonicsTHDI2Inst	thd	% (%)
IHarmonicsTHDI3Inst	thd	% (%)
IHarmonicsTHDINInst	thd	% (%)
IHarmonicsTHDU12Inst	thd	% (%)
IHarmonicsTHDU23Inst	thd	% (%)
IHarmonicsTHDU31Inst	thd	% (%)
IHarmonicsTHDV1Inst	thd	% (%)
IHarmonicsTHDV2Inst	thd	% (%)
IHarmonicsTHDV3Inst	thd	% (%)
IInstInternalTemperature	temperature	°C (°C)

Name	Group	Unit(s)
IIInstExternalTemperature1	temperature	°C (°C)
IIInstExternalTemperature2	temperature	°C (°C)
IIInstExternalTemperature3	temperature	°C (°C)
IEaPIInst	energy	Wh (Wh, kWh, MWh)
IErPIInst	energy	varh (varh, kvarh, Mvarh)
IEaNInst	energy	Wh (Wh, kWh, MWh)
IErNInst	energy	varh (varh, kvarh, Mvarh)
IEaPPartialInst	energy	Wh (Wh, kWh, MWh)
IErPPartialInst	energy	varh (varh, kvarh, Mvarh)
IEaNPartialInst	energy	Wh (Wh, kWh, MWh)
IErNPartialInst	energy	varh (varh, kvarh, Mvarh)
IEsInst	energy	VAh (VAh, kVAh, MVAh)
IEsPartialInst	energy	VAh (VAh, kVAh, MVAh)
IImpulseMeters	energy	- (-)
IPPositiveHistory	history	W (W, kW, MW, GW)
IPNegativeHistory	history	W (W, kW, MW, GW)
IQPositiveHistory	history	var (var, kvar, Mvar)
IQNegativeHistory	history	var (var, kvar, Mvar)
ISHistory	history	VA (VA, kVA, MVA)
IIInputMeterValuesHistory	history	- (-)
IIInputState1	states	- (-)
IIInputState2	states	- (-)
IIInputState3	states	- (-)
IIInputState4	states	- (-)
IIInputState5	states	- (-)
IIInputState6	states	- (-)
IIInputState7	states	- (-)
IIInputState8	states	- (-)
IIInputState9	states	- (-)
IIInputState10	states	- (-)
IProductAlarm1	alarm	- (-)
IProductAlarm2	alarm	- (-)
IProductAlarm3	alarm	- (-)
IProductAlarm4	alarm	- (-)
IProductAlarm5	alarm	- (-)
IProductAlarm6	alarm	- (-)
IProductAlarm7	alarm	- (-)
IIInstExternalTemperature4	temperature	°C (°C)
IIInstExternalTemperature5	temperature	°C (°C)
IIInstExternalTemperature6	temperature	°C (°C)
IIInstExternalTemperature7	temperature	°C (°C)
IIInstExternalTemperature8	temperature	°C (°C)
IDCIrmsInst	current	A (mA, A, kA, MA)
IDCIdcInst	current	A (mA, A, kA, MA)
ILoadDCVrmsInst	current	A (mA, A, kA, MA)
ILoadDCVrmsInst	voltage	V (mV, V, kV, MV)
ILoadDCVdcInst	voltage	V (mV, V, kV, MV)
ILoadDCVacInst	voltage	V (mV, V, kV, MV)
IHarmonicsTHDVSysInst	thd	% (%)

Name	Group	Unit(s)
IHarmonicsTHDUSysInst	thd	% (%)
IHarmonicsTHDISysInst	thd	% (%)
INetworkTHDV1Inst	thd	% (%)
INetworkTHDV2Inst	thd	% (%)
INetworkTHDV3Inst	thd	% (%)
INetworkTHDU12Inst	thd	% (%)
INetworkTHDU23Inst	thd	% (%)
INetworkTHDU31Inst	thd	% (%)
INetworkTHDVSysInst	thd	% (%)
INetworkTHDUSysInst	thd	% (%)
IUnbalInst	voltage	% (%)
IVnbalInst	voltage	% (%)
IInbalInst	current	% (%)
IlinvInst	current	A (mA, A, kA, MA)
IhomInst	current	A (mA, A, kA, MA)
IUdirInst	voltage	V (mV, V, kV, MV)
IUinvInst	voltage	V (mV, V, kV, MV)
IVdirInst	voltage	V (mV, V, kV, MV)
IVinvInst	voltage	V (mV, V, kV, MV)
IVhomInst	voltage	V (mV, V, kV, MV)
IPredActivePowerNeg	power	W (W, kW, MW, GW)
IPredActivePower	power	W (W, kW, MW, GW)
IPredReactivePowerNeg	power	var (var, kvar, Mvar)
IPredReactivePower	power	var (var, kvar, Mvar)
IPredApparentPower	power	VA (VA, kVA, MVA)
IAnalogicInputMeters1	input	- (-)
IAnalogicInputMeters2	input	- (-)
IAnalogicInputMeters3	input	- (-)
IAnalogicInputMeters4	input	- (-)
IAnalogicInputMeters5	input	- (-)
IAnalogicInputMeters6	input	- (-)
IAnalogicInputMeters7	input	- (-)
IAnalogicInputMeters8	input	- (-)
IAnalogicInputMeters9	input	- (-)
IAnalogicInputMeters10	input	- (-)
IU12Source1Inst	voltage	V (mV, V, kV, MV)
IU23Source1Inst	voltage	V (mV, V, kV, MV)
IU31Source1Inst	voltage	V (mV, V, kV, MV)
IV1Source1Inst	voltage	V (mV, V, kV, MV)
IV2Source1Inst	voltage	V (mV, V, kV, MV)
IV3Source1Inst	voltage	V (mV, V, kV, MV)
IFreqSource1Inst	frequency	Hz (Hz)
IU12Source2Inst	voltage	V (mV, V, kV, MV)
IU23Source2Inst	voltage	V (mV, V, kV, MV)
IU31Source2Inst	voltage	V (mV, V, kV, MV)
IV1Source2Inst	voltage	V (mV, V, kV, MV)
IV2Source2Inst	voltage	V (mV, V, kV, MV)
IV3Source2Inst	voltage	V (mV, V, kV, MV)

Name	Group	Unit(s)
IFreqSource2Inst	frequency	Hz (Hz)
IProductAlarm8	alarm	- (-)
INetworkV1Inst	voltage	V (mV, V, kV, MV)
INetworkV2Inst	voltage	V (mV, V, kV, MV)
INetworkV3Inst	voltage	V (mV, V, kV, MV)
INetworkU12Inst	voltage	V (mV, V, kV, MV)
INetworkU23Inst	voltage	V (mV, V, kV, MV)
INetworkU31Inst	voltage	V (mV, V, kV, MV)
INetworkVnInst	voltage	V (mV, V, kV, MV)
INetworkVdirInst	voltage	V (mV, V, kV, MV)
INetworkVinvInst	voltage	V (mV, V, kV, MV)
INetworkVhomInst	voltage	V (mV, V, kV, MV)
INetworkUdirInst	voltage	V (mV, V, kV, MV)
INetworkUinvInst	voltage	V (mV, V, kV, MV)
INetworkVnbalInst	voltage	% (%)
INetworkUnbalInst	voltage	% (%)
INetworkDCVrmsInst	voltage	V (mV, V, kV, MV)
INetworkDCVdcInst	voltage	V (mV, V, kV, MV)
INetworkDCVacInst	voltage	V (mV, V, kV, MV)
ISomRfInst	isom	ohm (ohm, kohm)
ISomRfAvgInst	isom	ohm (ohm, kohm)
ISomRfMinInst	isom	ohm (ohm, kohm)
ISomRfAvgMinInst	isom	ohm (ohm, kohm)
ISomRfMaxInst	isom	ohm (ohm, kohm)
ISomRfAvgMaxInst	isom	ohm (ohm, kohm)
ISomCfInst	isom	F (μF, F)
ISomCfAvgInst	isom	F (μF, F)
ISomCfMinInst	isom	F (μF, F)
ISomCfAvgMinInst	isom	F (μF, F)
ISomCfMaxInst	isom	F (μF, F)
ISomCfAvgMaxInst	isom	F (μF, F)
ISomZcInst	isom	ohm (ohm, kohm)
ISomZcAvgInst	isom	ohm (ohm, kohm)
ISomYInst	isom	- (-)
ISomYAvgInst	isom	- (-)
ISomGInst	isom	- (-)
ISomGAvgInst	isom	- (-)
ISomIDeltaNInst	isom	A (mA, A, kA, MA)
ISomIDeltaSInst	isom	A (mA, A, kA, MA)
IIdnInst	rcm	A (mA, A, kA, MA)
IIpeInst	rcm	A (mA, A, kA, MA)

A 2 - 2. Cybersecurity recommendations and best practices (*)

Like any device connected to an Ethernet network, DATALOG H80 must be protected against all risks of cyber-attack or data loss/destruction.

(*) DATALOG H80 provides cybersecurity features to prevent these attacks and help users implement and ensure the most robust IT protection possible. Some recommendations are listed in the following paragraphs. Ensure they are in line with your corporate IT security policy:

- **Awareness of the security policy:** Users and administrators of DATALOG H80 and WEBVIEW-L must be aware of and trained in proper IT security practice (information and compliance with corporate security policy, authentication procedure management, password reliability, online session management, phishing risks, etc.).
- **Network security:** The IT system architecture must be able to safeguard resources, by segmenting the network according to their degree of sensitivity and using a variety of protective devices (firewall, demilitarized zone, VLAN, network antivirus software, etc.).

Contribution of DATALOG H80 to cybersecurity:

User obligation to use secure versions of standard communication protocols:

- FTPS/SFTP: secure data export
- SMTPS: secure notification of alarms by e-mail
- HTTPS: secure browsing on the Web server (WEBVIEW-L) by downloading TLS/SSL certificates

See paragraph 8.4 for more information about adding digital certificates

- **Device security:** Device security depends on the network environment, but also user behaviour. Elementary measures are highly recommended to protect the environment (filtering authorised workstations by MAC address, opening service ports, selecting authorised applications, etc.). Greater caution is required for managing removable media (external hard drive, USB flash drive, wireless communication equipment, etc.). Finally, for a server like the DATALOG H80, it should be protected by controlling and restricting physical access to the rooms and cabinets hosting the device.

Contribution of DATALOG H80 to cybersecurity:

DATALOG H80 units running under Windows 11 have antivirus software installed and configured so as not to conflict with the applications needed for WEBVIEW-L to operate correctly (Windows Defender).

- **Data security:** Data security covers several aspects, particularly data confidentiality, integrity, authenticity and availability. Special care is required with data security and archiving procedures on backup devices, both inside and outside the company.

Contribution of DATALOG H80 to cybersecurity:

It is possible to export data, such as energy indexes, load curves and measurement logs, manually or automatically, for backup purposes. It is also possible to save the topology (mapping of slaves connected to the DATALOG H80) from the embedded web server. Confidentiality is addressed by providing 256-bit AES encryption (AES 256) for personal data such as passwords along with product. This means it would take 2,256 combinations to decipher the encryption key.

- **Access and authentication management:** Managing access to resources and data is a crucial aspect of the IT systems security policy. Each user requires an account and access rights corresponding to their profile. Access to IT system resources is controlled by a user authentication process, based on a minimum of a username and secure password. The password management procedure, specifying the systematic modification of default passwords and their validity period, is included in the IT security policy.

Contribution of DATALOG H80 to cybersecurity:

Several profiles can access the Web application. The highest-level profile is "Cybersecurity", used to manage user access to the Web application based on their needs.

Profiles are password protected. The Socomec DATALOG H80 includes certain measures to reduce the risk of password theft:

- Login information (password) is encrypted.
- The password must meet minimum security requirements (at least 10 characters, including at least one upper case, one lower case, one number and one special character).
- The password must be changed at least once a year.
- After 3 failed identification attempts, the account is locked for 1 hour – a "passphrase" is provided to recover a lost password.

A 2 - 2.1. Precautions for use of DATALOG H80:

• Access to configuration files

Some configuration files are critical. Access to the file-system is reserved exclusively for authorised and trusted people.

Including:

- Private keys to log in to the Cloud, the H80 credentials, can be retrieved.
- Loss/theft of this key and the related certificate could make it impossible to export data to the Cloud or theft of the H80 identity.
- The database including hashed passwords) can be retrieved.
- Private configuration files (including FTP, HTTP credentials, etc.) can be retrieved.

• Antivirus software

It is not recommended to install additional antivirus software and/or antivirus software other than that installed by default on the DATALOG H80.

As applicable, support for this antivirus software and its potential impact are the customer's responsibility.

Potential impacts associated with using other Antivirus software are:

- Filling the disk space used by this "customer" antivirus software, its updates, logs, etc., which could reduce the disk capacity (and therefore the space available for WEBVIEW data).



It is the customer's responsibility to implement measures to monitor/clean these types of files.

- Reduced working life of the internal storage system.
- Locking of files, in Windows/the file system during their analyses.



It is essential to configure the antivirus software so that the files/folders used by WEBVIEW are ignored/white-listed by scans.

- An antivirus conflict with the network ports used by WEBVIEW.
- Additional calls on the CPU and RAM during scans could affect WEBVIEW performance.

- **Operating system**

The operating system must be able to access updates available on the internet. To do so, DATALOG H80 must have outward access to the internet.

By default, the operating system must be updated using the customer's infrastructure.

Socomec declines all liability in the event of attack if the operating system could not be updated.

- **Update of software components used by WEBVIEW-L**

New WEBVIEW-L versions are made available, explicitly including updates to software components used by WEBVIEW-L.

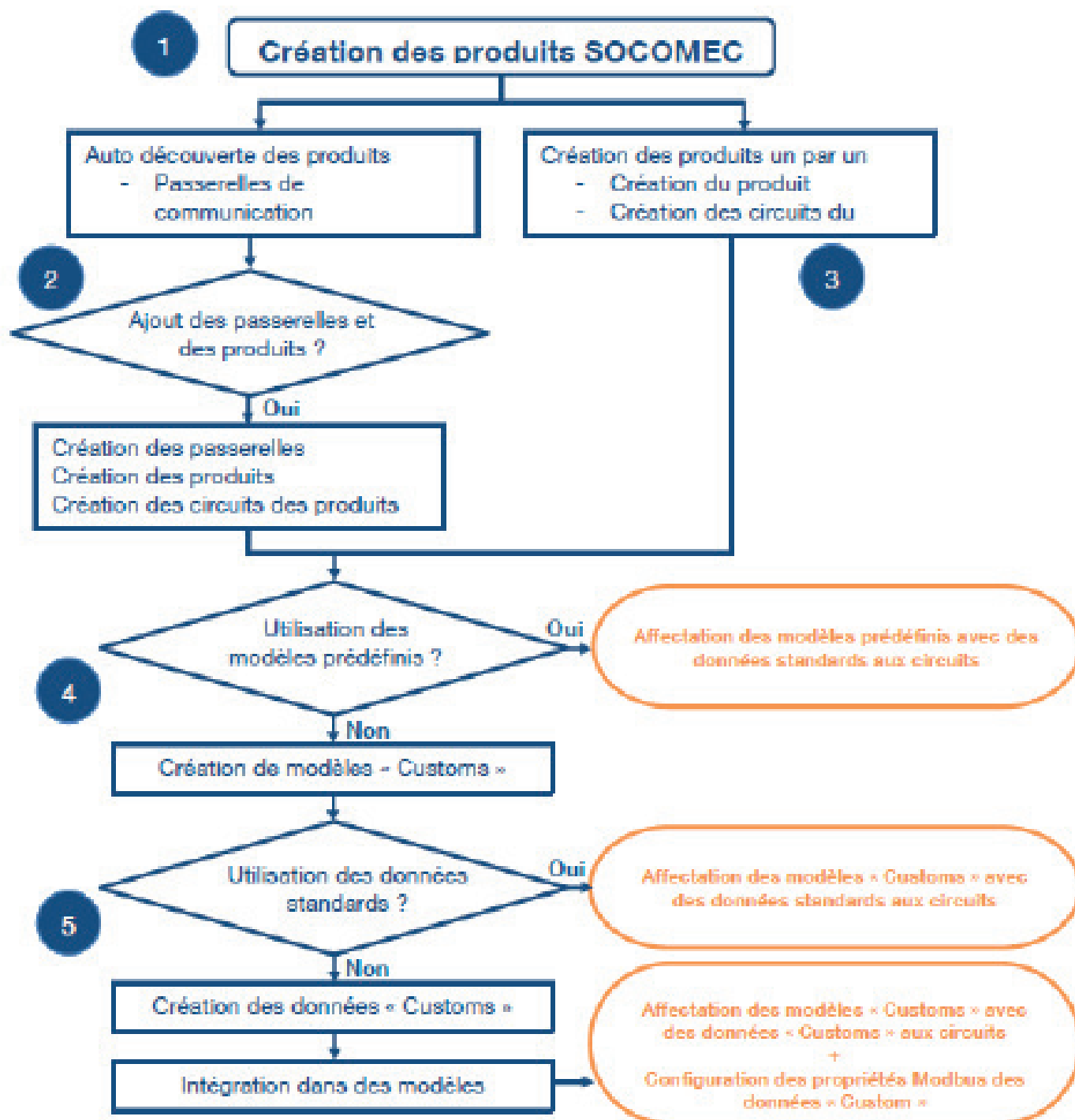
It is recommended that the customer should not undertake these updates of software components.

Socomec declines all liability in the event of attack if the precautions for use had not been taken.

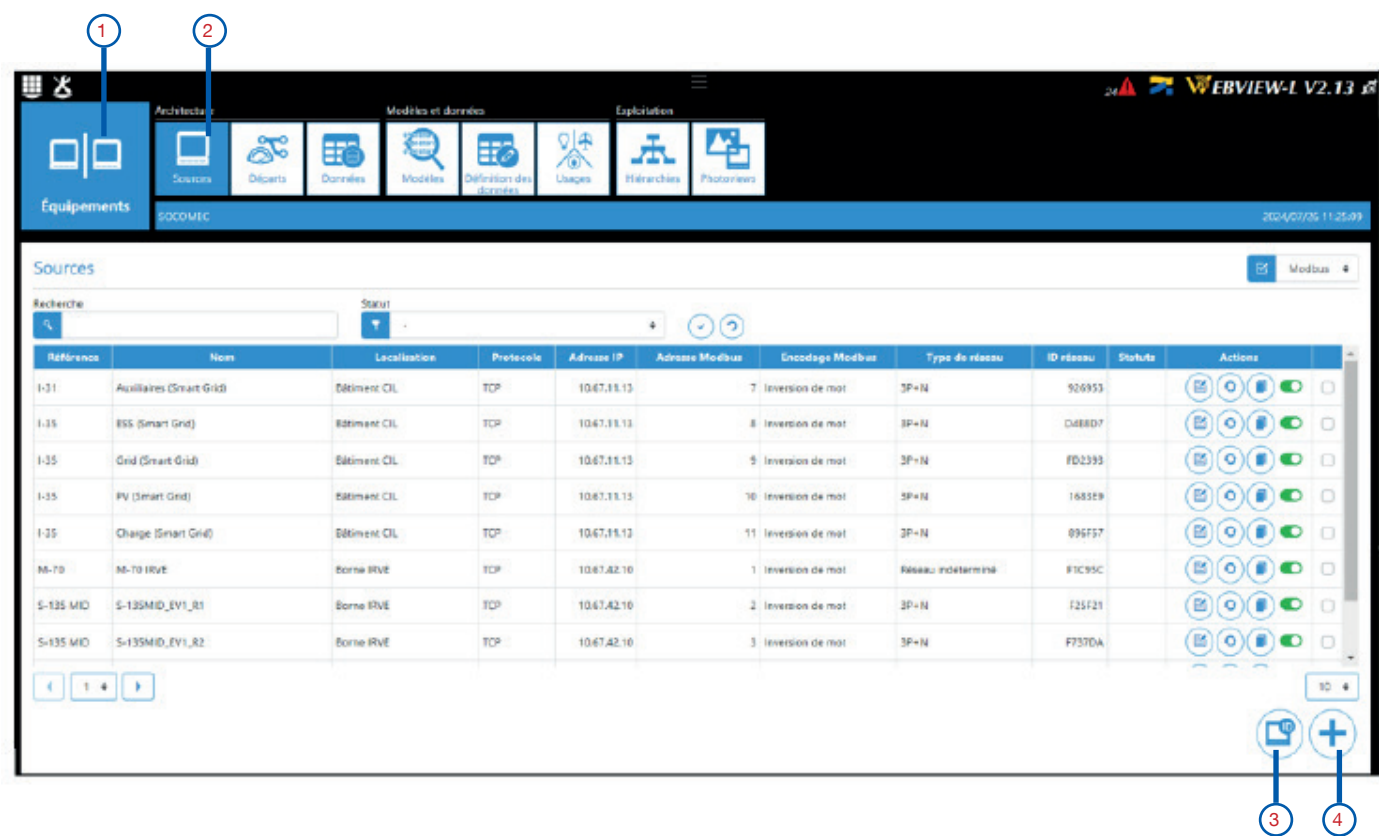
A 2 - 2.2. Adding Socomec devices

To create Socomec devices in WEBVIEW-L, the administrator has 2 options available:

- Creating Socomec devices using the "Auto-detect" function
- Creating devices one at a time



A 2 - 2.3. Socomec device creation page



To open the page to create Socomec devices

- 1. Select the "Devices & Hierarchies" page in the "Configuration" section
- 2. Select the "Sources" page
- 3. Select the "Data Source" submenu
- 4. Click the icon for the "Auto-detect Socomec devices" option
- 5. Click the icon for creating devices one at a time

A 2 - 2.4. Creating Socomec devices using the "Auto-detect" function

The communication gateways discovered by the "Auto detect" function are displayed at the bottom of the page (one line per gateway), with the number of Socomec devices behind each gateway.



The administrator can select the gateways detected with the associated devices and add them to the list of data sources. This operation can also create the associated measurement circuits for each device (e.g. to create an A-40, the system will create a single measurement circuit, whereas for an I-35 it will create 3 measurement circuits). The information associated with these measurement circuits (name, fluid and usage), if available with the devices, are automatically fed back to WEBVIEW-L.

A 2 - 2.5. List of devices

The administrator selects the reference for the device to be created and completes the various fields associated with this device (Name, Zone, Protocol, IP address and Modbus address).

After confirming the line, the device is added to the list of data sources. As with the "Auto-detect" option, the related measurement circuits are created with the information entered in the devices.

+ Ajout d'équipements

Référence I-35	Nom Eclairage Sous-Sol
Localisation Bâtiment CIL	Protocole TCP
Adresse IP 10.67.8.21	Adresse Modbus 12

Annuler
OK

The various references of Socomec devices that can be created in this way are:

Passerelles

D-50	I-60
D-50v2	I-61
D-55	IO-10
D-55h	IO-20
D-70	S-130
D-75	S-135
G-30/G-40	S-Datacenter
G-50/G-60	U-10
DIRIS B	U-20
B-30 RF	U-30
B-30 RS485	U-31 dc
B10	U-32 dc
DIRIS Digiware	COUNTIS
D-15h	E03
D-40	E04
I-30	E13
I-30 dc	E14
I-31	E23
I-33	E24
I-35	E33
I-35 dc	E34
I-43	E43
I-45	E44

E44R
E53
ECI2
ECI3
DIRIS A
A-10
A-20
A-30
A-40
A-40 Ethernet
A-40 Profibus
A14
A17
A17 2In
A17 THD
A17 THD 2In
A60
A80
ISOM Digiware
F-60
K-40
K-40h
L-60
L-60h

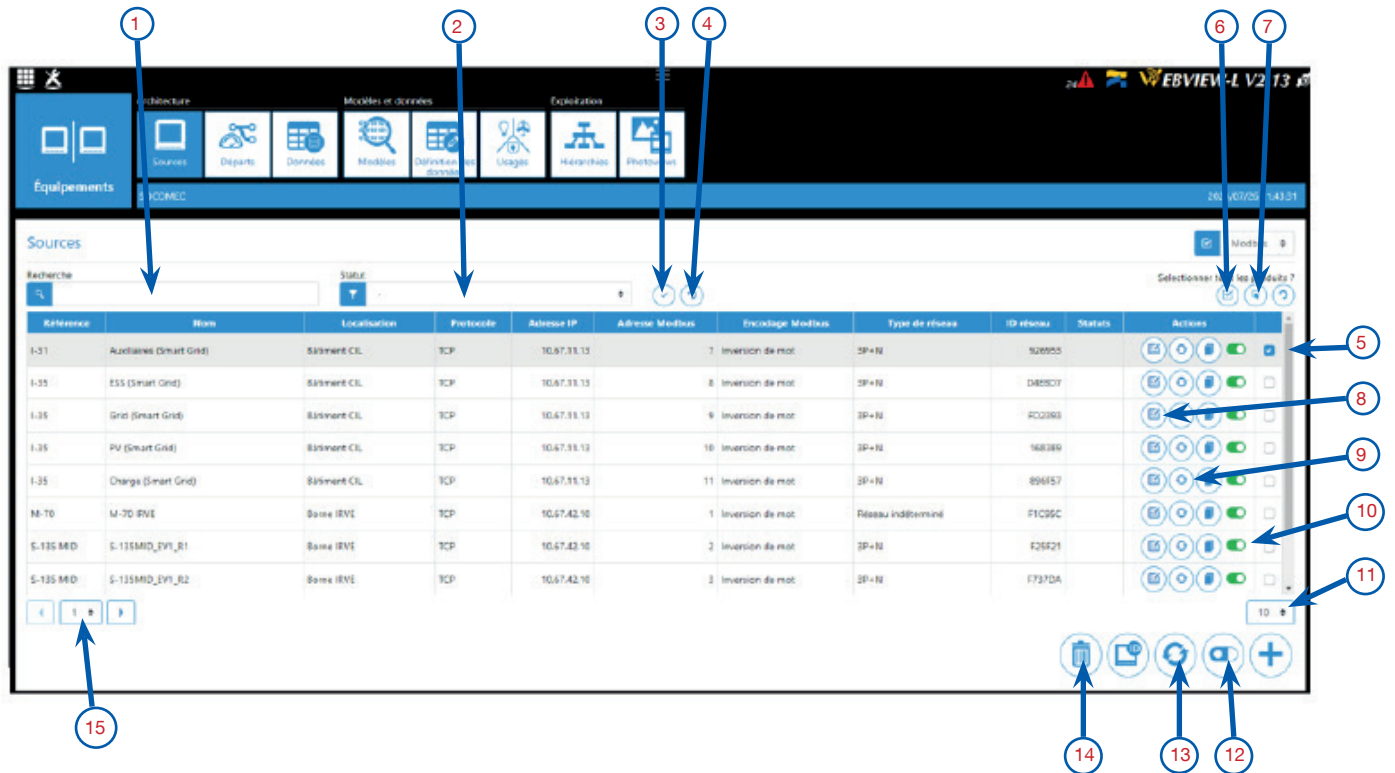
Autre

ATySpM
Produit modbus générique
Anciens Diris A
A10
A20
A20v2
A40v2
A40v3
UPS
Delphys BC
Delphys GP
Delphys MP
Delphys MX
Itys Pro
Masterys
Masterys BC+/GP4
Modulys GP
Modulys XL

Once the devices have been created, the administrator has access to:

- Device management – "Source" page – "Data source" tab
- Circuit / load measurement – "Source" page – "Measurement circuit" tab
- Collected data management – "Source" page – "Data" tab

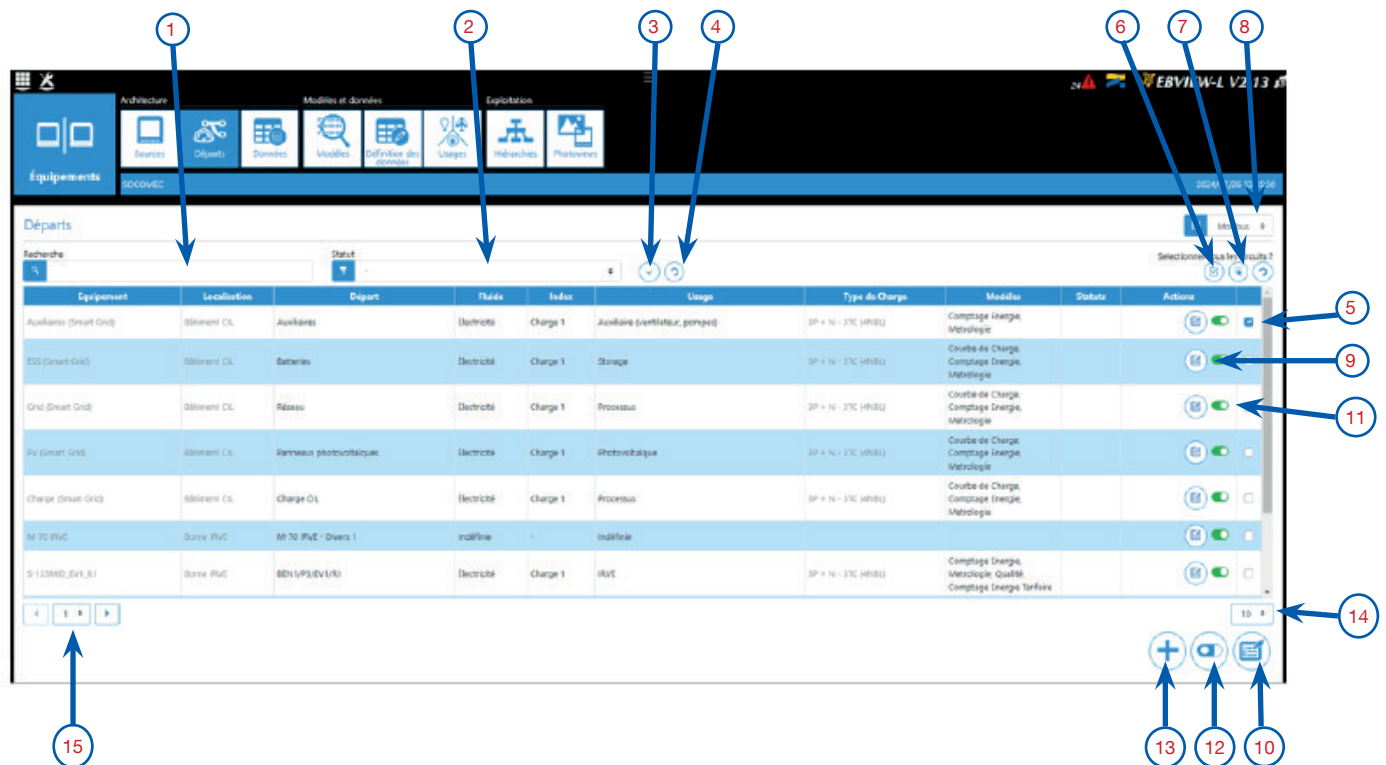
A 2 - 2.6. Product management – "Source" page



In these "Data source" pages, the administrator can manage all information associated with the devices:

1. Search by name, area, IP address
2. Select the products by status (Enabled/Disabled)
3. Confirm your selection and/or perform a search
4. Show all devices
5. Select a device
6. Select all the devices of the page
7. Select all the devices of all the pages
8. Edit fields for the selected device
9. Refresh row
10. Disable the product
11. Set the number of rows per page
12. Disable all selected products
13. Refresh all rows
14. Delete all devices selected
15. Go from one page to another

A 2 - 2.7. Output management



In the page listing the various device outputs (circuits of the same device are grouped by colour), the administrator can:

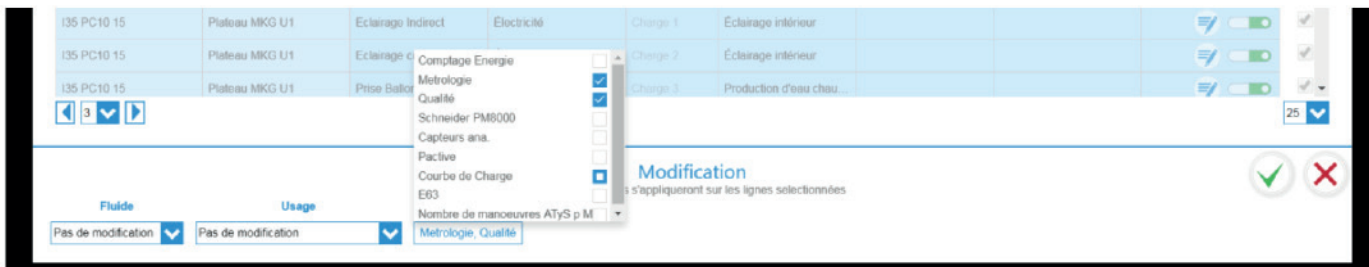
1. Search by name, area, circuit
2. Select the circuits by status (Enabled/Disabled)
3. Confirm your selection and/or perform a search
4. Show all circuits
5. Select a circuit
6. Select all the circuits of the page
7. Select all the circuits of all the pages
8. Select Modbus or Bluetooth devices
9. Modify the fields of the circuit selected (name, fluid, usage and models)
10. Modify the fields of the circuits selected (fluid, usage and models)
11. Disable the circuit
12. Disable all selected circuits
13. Add a circuit (for generic Modbus products only)
14. Set the number of rows per page
15. Go from one page to another

To ensure the data from data circuits are logged, the administrator **must** assign one or more data models to each circuit (predefined or "custom" model):

- using an individual assignment by selecting a "5" circuit:

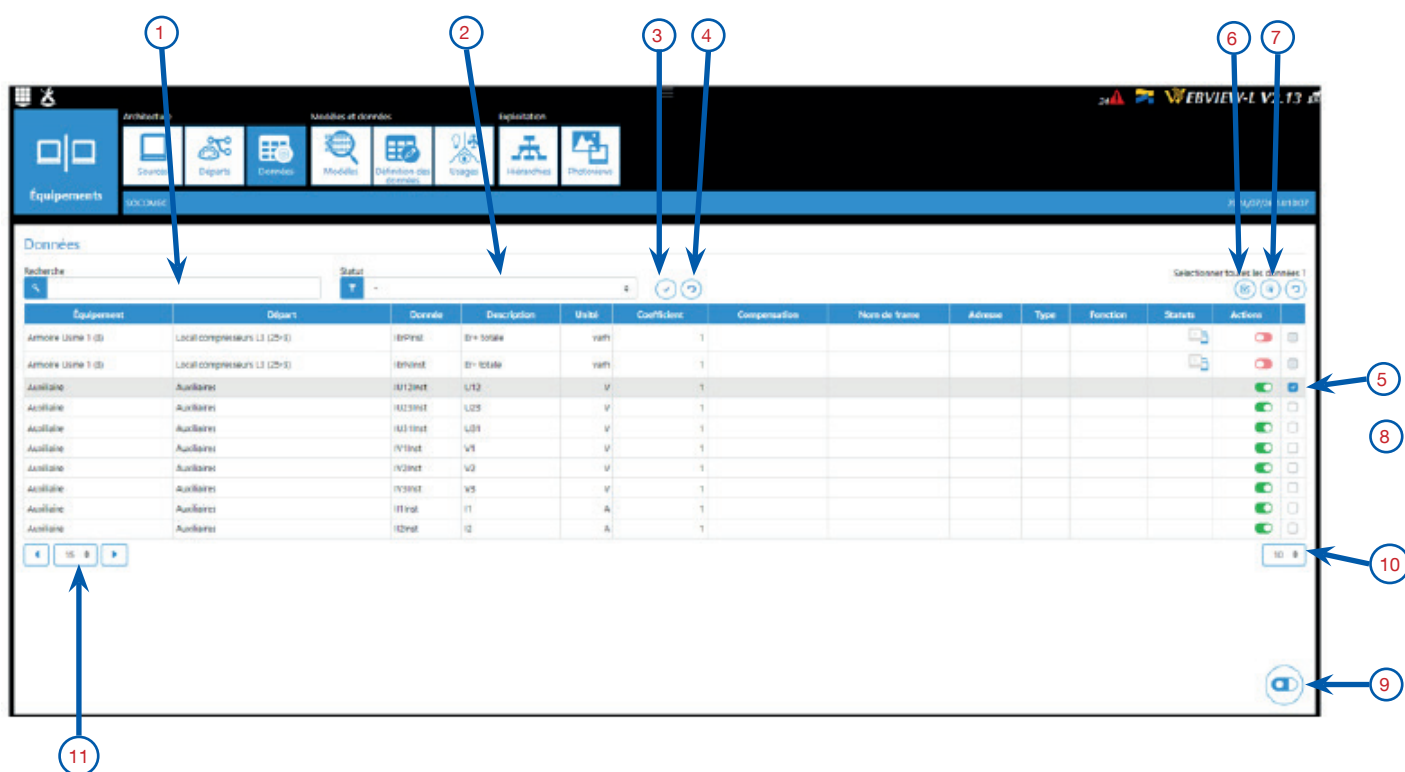
D70 MKG U1	Plateau MKG U1	172.23.16.219@1 Dri...	Indéfinie	-	Indéfinie	Comptage Energie	☐		
I35 Général	Plateau MKG U1	General U1 MKG	Électricité	Charge 1	Processus	Metrologie	☒		
I35 Général	Plateau MKG U1	I35 Général - Divers	Indéfinie	-	Indéfinie	Qualité	☐		
I35 PC10 15	Plateau MKG U1	Eclairage Indirect	Électricité	Charge 1	Éclairage intérieur	Schneider PM5000	☐		
I35 PC10 15	Plateau MKG U1	Eclairage circulation	Électricité	Charge 2	Éclairage intérieur	Capteurs ana.	☐		
I35 PC10 15	Plateau MKG U1	Prise Ballon ECS	Électricité	Charge 3	Production d'eau c	Passive	☒		
						Courbe de Charge	☐		
						E63	☐		
						Nombre de manoeuvres ATyS p M	☐		
						Metrologie, Courbe	☐		

- or by selecting several "6" or "7" circuits and assigning the "9" model(s).



See "Managing data models" below

A 2 - 2.8. Managing collected data

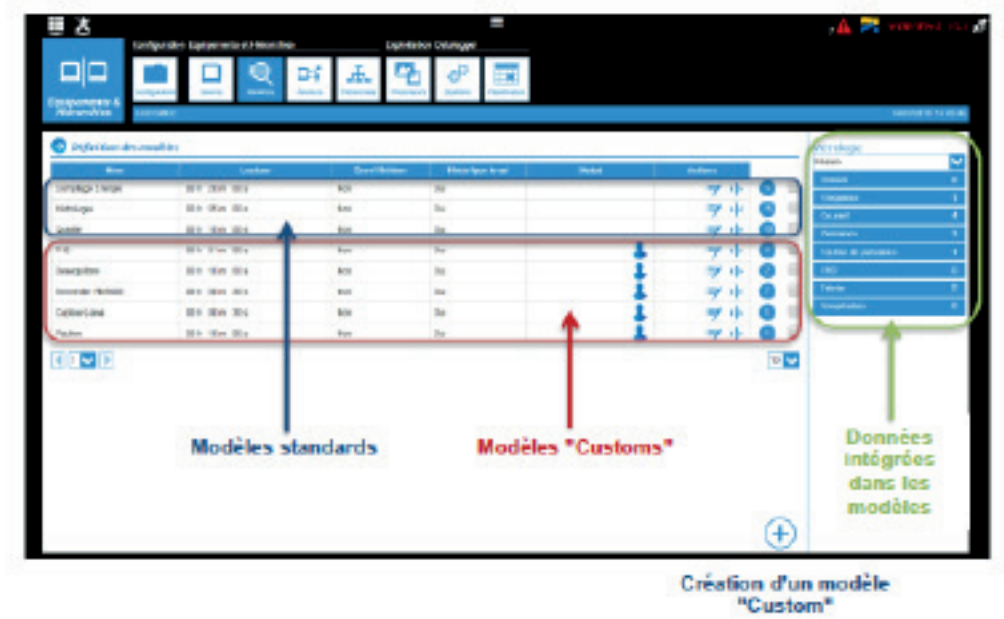


In the page listing all data assigned to the data source measurement circuits, the administrator can:

1. To search, filter by device, name, data, frame name or Modbus register
2. Select the data by status (Enabled/Disabled)
3. Confirm your selection and/or perform a search
4. Display all data
5. Select data
6. Select all the data on the page
7. Select all the data on all pages
8. Disable a data
9. Disable all the data selected
10. Set the number of rows per page
11. Go from one page to another

A 2 - 2.9. Creating data models

By default, WEBVIEW-L includes 4 predefined models (Energy Metering, Metrology, Quality, Load Curve), but if the predefined models are not suitable, administrators can create their own "Custom" models.



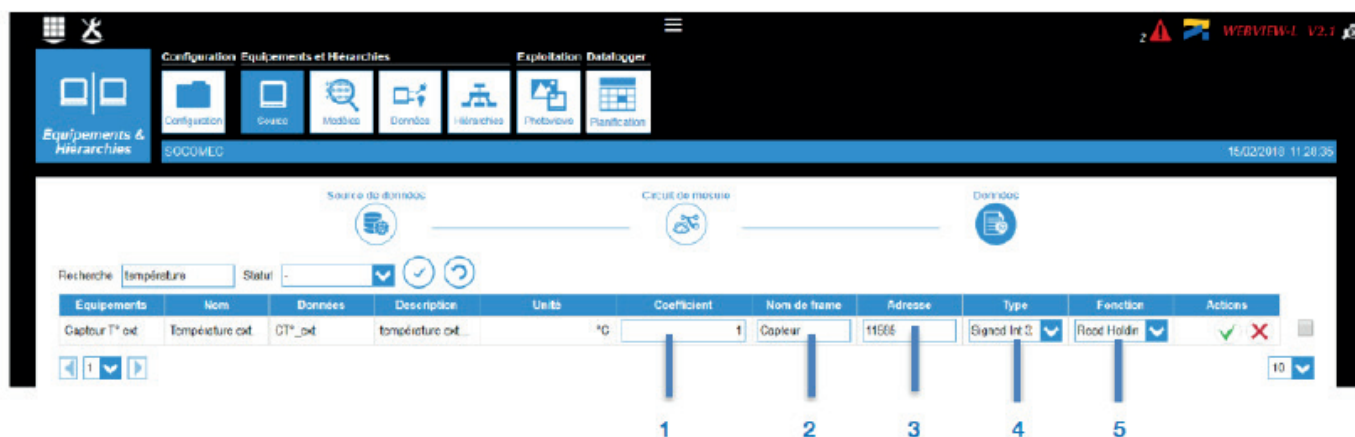
A 2 - 2.9.1. Creating "Custom" data

By default, WEBVIEW-L includes the principal data items available in the Socomec devices. These data are organised as follows:

Data Type	Group	No. of data
Power monitoring	Voltage	48
	Frequency	4
	Current	12
	Rect.	17
	Power Factor	4
	THD	21
	Input	10
	Temperature,	9
	Insulation	20
	RCM	2
	Energy	11
	History	6
Statuses	Statuses	10
Alarm	Alarm	8

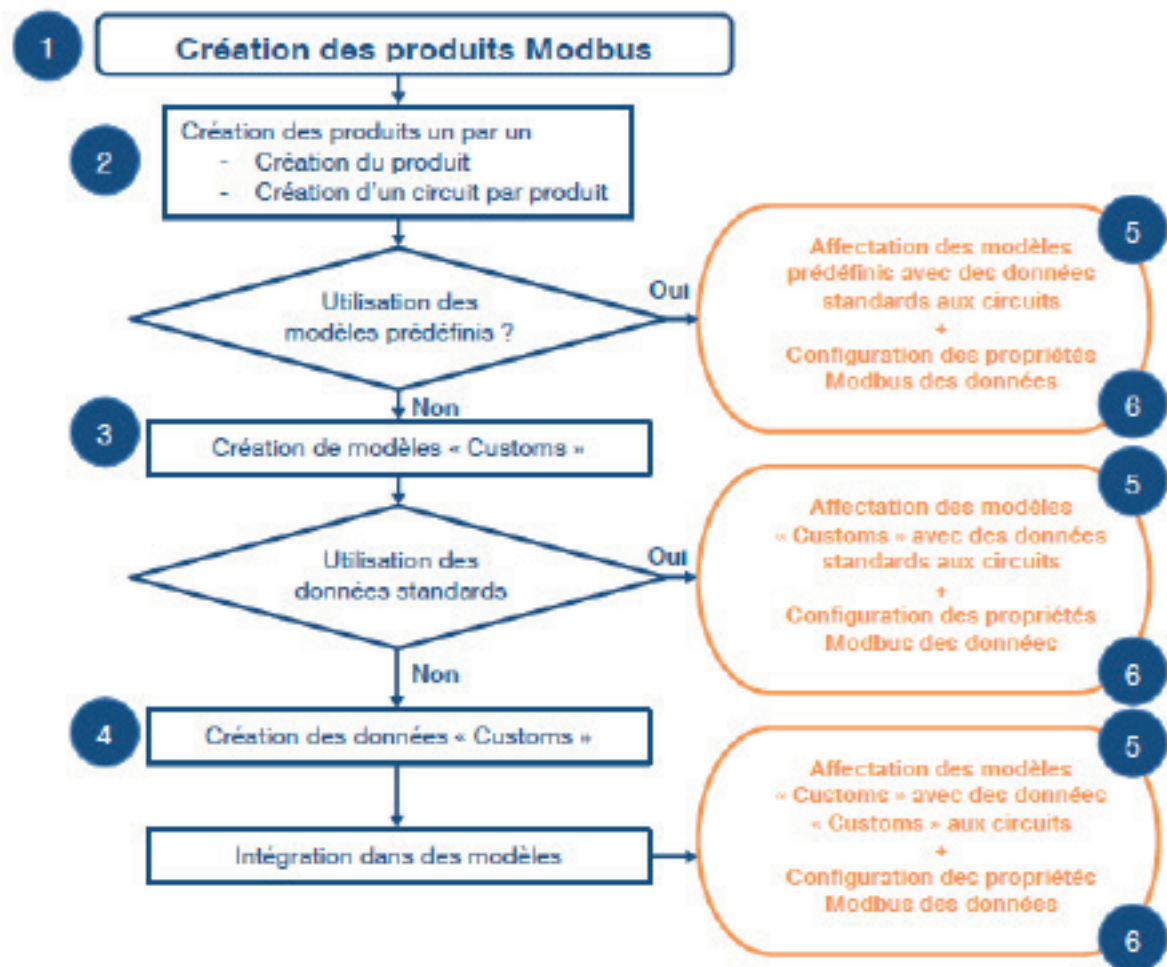
(See Appendix 6, the list of all standard data managed in WEBVIEW-L)

If the standard data are not suitable, administrators can create their own "Custom" data. For example, by creating a temperature data item.

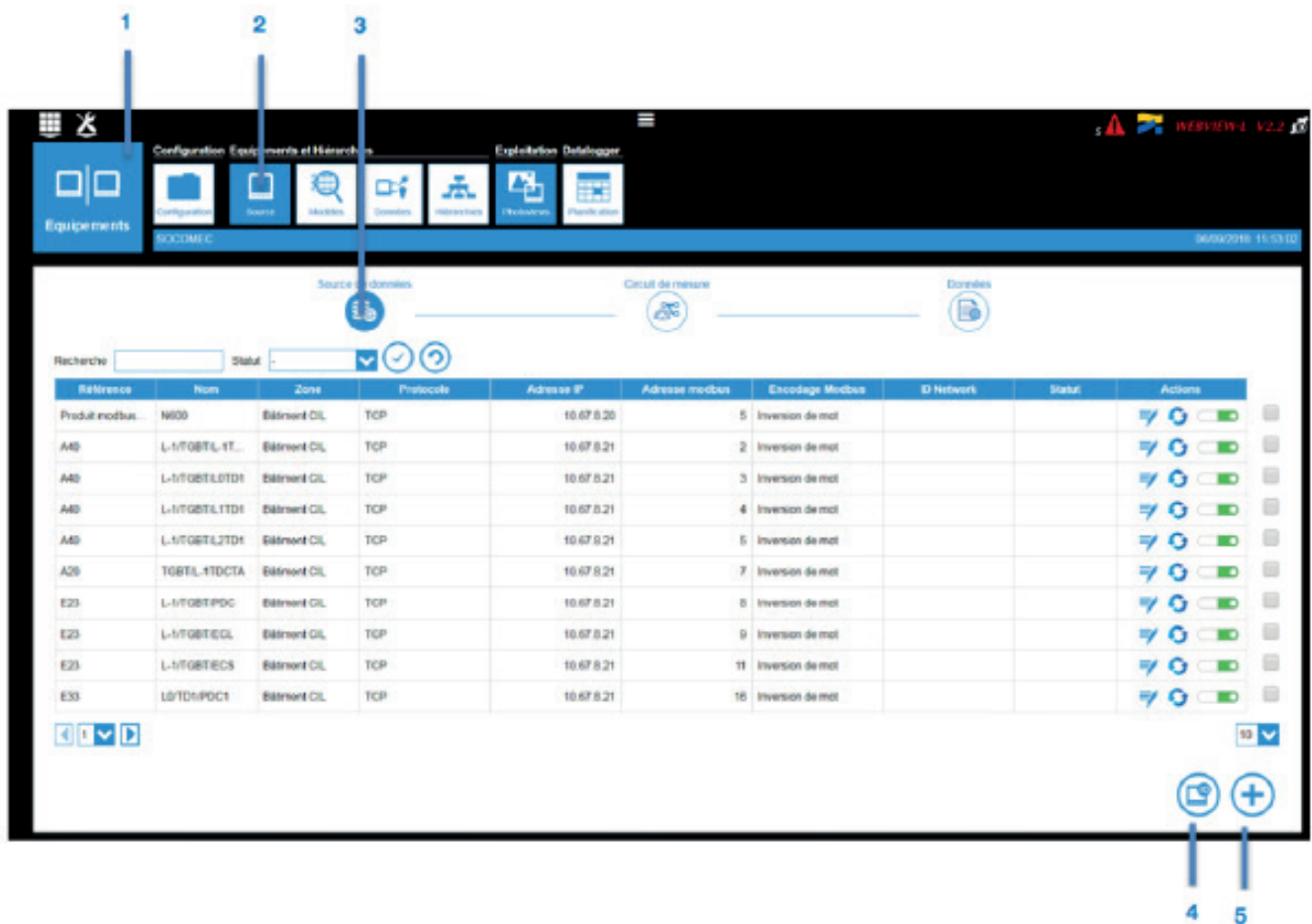


1. Specify the unit conversion coefficient (e.g. to convert a "Custom" data item expressed in kW to W – enter 1000 in the "Coefficient" field)
2. This "Frame Name" field groups and collects all "Custom" data from the same Modbus table using a single query. You must enter a name of your choice for all the "Custom" data items of the Modbus table. (This action limits the Modbus requests and therefore considerably shortens the WEBVIEW-L response times).
3. Indicate the address of the Modbus register for the "Custom" data item
4. Indicate the type of coding of the Modbus frame
5. Indicate the Modbus function

A 2 - 3. Adding a generic Modbus device



A 2 - 3.1. Device creation page



To open the page to create Socomec devices

1. Select the "Devices & Hierarchies" page in the "Configuration" section
2. Select the "Source" page
3. Select the "Data source" submenu
4. Click the icon for the "Auto-detect Socomec devices" option
5. Click the icon for creating devices one at a time

A 2 - 3.2. Creating generic Modbus products one by one

The administrator clicks on the icon for creating devices one at a time, selects the "Generic Modbus devices" reference and completes the various fields associated with this device (Name, Zone, Protocol, IP Address, Modbus Address and Modbus Coding).

For this last field, the administrator must specify the type of Modbus Encoding for the generic device, and in particular specify if the data have to be read by reversing the bytes and/or words.

After validating the line, the product is added to the list of data sources and an associated measurement circuit is created.

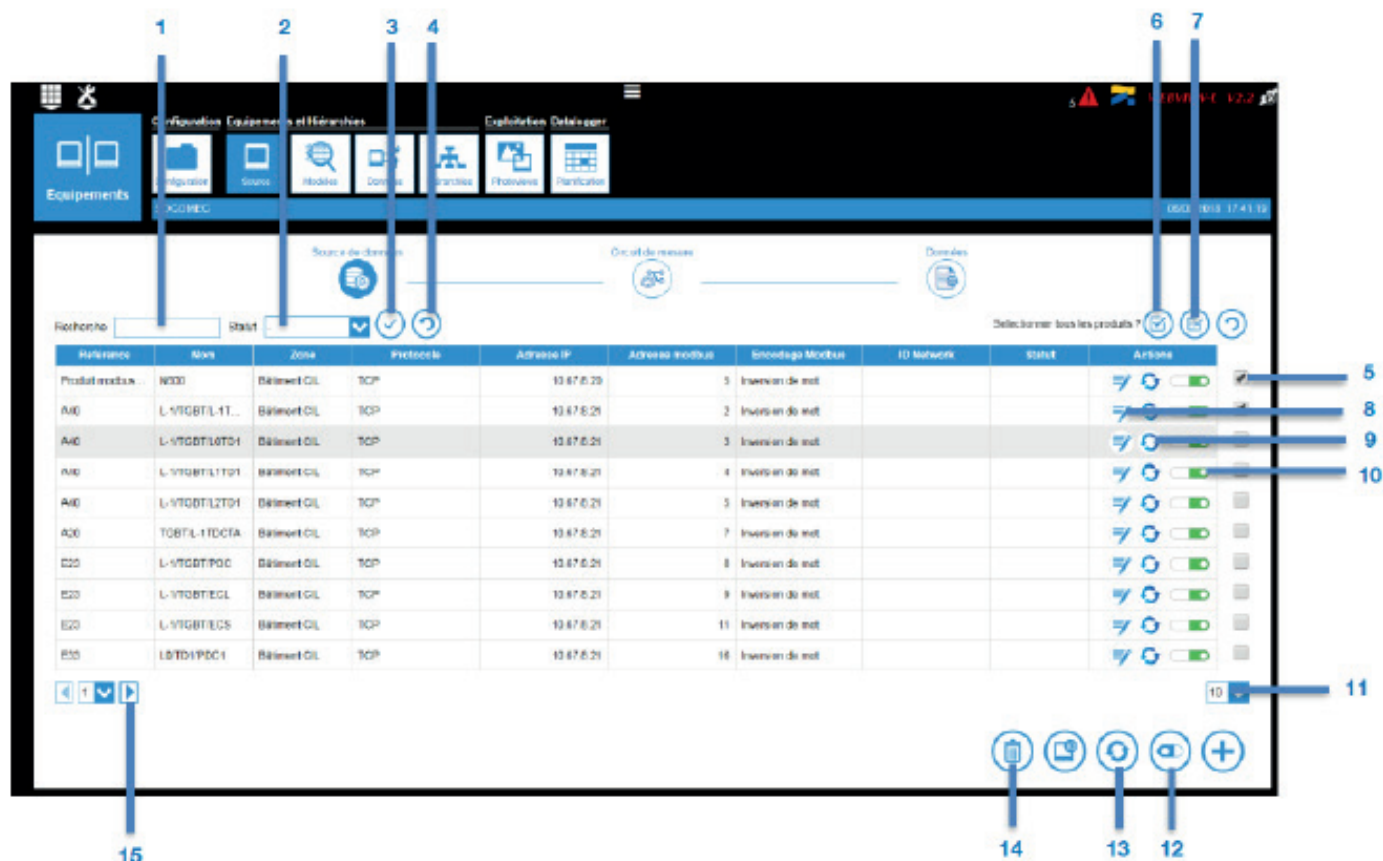
The screenshot shows the 'Ajout de produits' form. The form includes fields for Reference, Nom, Zone, Protocole, Adresse IP, and Adresse modbus. The 'Protocole' field is set to 'TCP'. The 'Adresse modbus' field is empty. The 'Inversion d'octet' and 'Inversion de mot' checkboxes are checked.

Once administrators have created the generic devices, they can access:

- Device management – "Source" page – "Data source" tab
- Circuit / load measurement – "Source" page – "Measurement circuit" tab

The information from the "Data" tab will be entered later after creating "Custom" data items.

A 2 - 3.3. Device management – "Source" page – "Data source" tab



In these "Data source" pages, the administrator can manage all information associated with the devices:

1. Search by name, area, IP address
2. Select the products by status (Enabled/Disabled)
3. Confirm your selection and/or perform a search
4. Show all devices
5. Select a device
6. Select all the devices of the page
7. Select all the devices of all the pages
8. Edit fields for the selected device
9. Refresh row
10. Disable the product
11. Set the number of rows per page
12. Disable all selected products
13. Refresh all rows
14. Delete all devices selected
15. Go from one page to another

A 2 - 3.4. Measurement circuit management

The screenshot shows a web application interface for managing measurement circuits. The interface includes a top navigation bar with icons for various functions. Below the navigation bar, there are search and filter options. The main area displays a table of measurement circuits with columns for Name, Zone, Circuit, Fluid, Index, Usage, Models, Status, and Actions. The table is filtered by 'Electricité' and 'Charge 1'. The interface also includes a sidebar on the left and a bottom bar with pagination and action buttons.

Nom	Zone	Circuit	Fluide	Index	Usage	Modèles	Statut	Actions
HE00	Bâtiment C.E.	Chauffage C.E.	Electrique	-	Indéfini	Comptage Energie...		✓ ✕
L4708TEFC3	Bâtiment C.E.	Eau Chaude Sanitaire	Electrique	Charge 1	Production d'eau chaude	Passive, Comptage En...		⚙️ ⏻
L4708TEFC3	Bâtiment C.E.	TOUTES Divers	Indéfini		Indéfini			⚙️ ⏻
L4701PDC1	Bâtiment C.E.	RAC Pises de Cours...	Electrique	Charge 1	Pise de courriel	Passive, Comptage En...		⚙️ ⏻
L4701PDC1	Bâtiment C.E.	L4701PDC1 - Divers	Indéfini		Indéfini			⚙️ ⏻
L4701PDC2	Bâtiment C.E.	RAC Pises de Cours...	Electrique	Charge 1	Pise de courriel	Passive, Comptage En...		⚙️ ⏻
L4701PDC2	Bâtiment C.E.	L4701PDC2 - Divers	Indéfini		Indéfini			⚙️ ⏻
L4701ECL1	Bâtiment C.E.	RAC Eclairage 1	Electrique	Charge 1	Eclairage intérieur	Passive, Comptage En...		⚙️ ⏻
L4701ECL1	Bâtiment C.E.	L4701ECL1 - Divers	Indéfini		Indéfini			⚙️ ⏻
L4701ECL2	Bâtiment C.E.	RAC Eclairage 2	Electrique	Charge 1	Eclairage intérieur	Passive, Comptage En...		⚙️ ⏻

In the page listing the various device measurement circuits (groups circuits of the same device by colour), the administrator can:

1. Search by name, area, circuit
2. Select the products by status (Enabled/Disabled)
3. Confirm your selection and/or perform a search
4. Show all circuits
5. Select a circuit
6. Select all the circuits of the page
7. Select all the circuits of all the pages
8. Modify the fields of the circuit selected (name, fluid, usage and models)
9. Modify the fields of the circuits selected (fluid, usage and models)
10. Disable the circuit
11. Disable all selected circuits
12. Add a circuit (for generic Modbus products only)
13. Set the number of rows per page
14. Go from one page to another
15. Creating data models

A 2 - 3.5. Creating data models

By default, WEBVIEW-L includes 4 predefined models (Energy Metering, Metrology, Quality, Load Curve), but if the predefined models are not suitable, administrators can create their own "Custom" models.

Nom	Lecture	Envoi fichiers	Historique local	Statut	Actions
Camptech Charge	00 h 20 m 00 s	Non	Oui		[Edit] [Delete] [Add]
Metrologie	00 h 05 m 00 s	Non	Oui		[Edit] [Delete] [Add]
Quatre	00 h 10 m 00 s	Non	Oui		[Edit] [Delete] [Add]
PTD	00 h 01 m 00 s	Non	Oui		[Edit] [Delete] [Add]
Deséquilibre	00 h 10 m 00 s	Non	Oui		[Edit] [Delete] [Add]
Schneider PM8000	00 h 08 m 30 s	Non	Oui		[Edit] [Delete] [Add]
Capteurs ana.	00 h 08 m 30 s	Non	Oui		[Edit] [Delete] [Add]
Pactive	00 h 10 m 00 s	Non	Oui		[Edit] [Delete] [Add]

- Adding a model

Ajouter de modèles
Ajouter un modèle à la liste

1. Nom: Mois modèle Customs

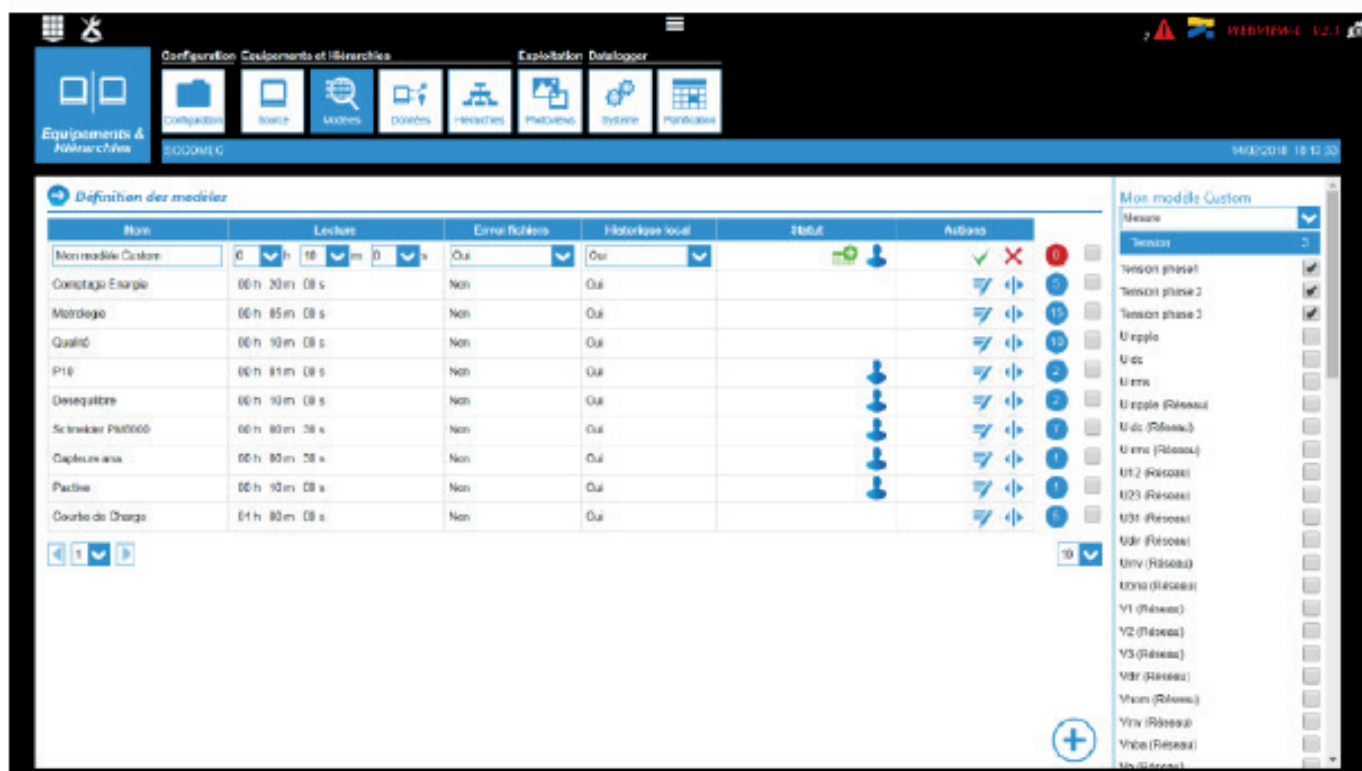
2. Lecture: 0 h 10 m 0 s

3. Envoi fichiers: Oui

4. Historique local: Oui

1. Indicate the name of the "Custom" model
2. Define the data logging period (in hours, minutes and seconds)
3. Datalogger function: Send data to a third party server
4. Log data history for the "Logs" and "Consumption" functions

As soon as the "Custom" model has been created, the administrator can select the data to be assigned to this new model by clicking the "Edit" button  on the line for the relevant model.



A 2 - 3.6. Creating "Custom" data

By default, WEBVIEW-L includes the principal data items available in the Socomec devices. These data are organised as follows:

Data Type	Group	No. of data
Power monitoring	Voltage	48
	Frequency	4
	Current	12
	Rect.	17
	Power Factor	4
	THD	21
	Input	10
	Temperature,	9
	Insulation	20
	RCM	2
Metered Energy	Energy	11
	History	6
Statuses	Statuses	10
Alarm	Alarm	8

(See Appendix 2, the list of all standard data managed in WEBVIEW-L)

If the standard data are not suitable, administrators can create their own "Custom" data. For example, by creating a temperature data item.

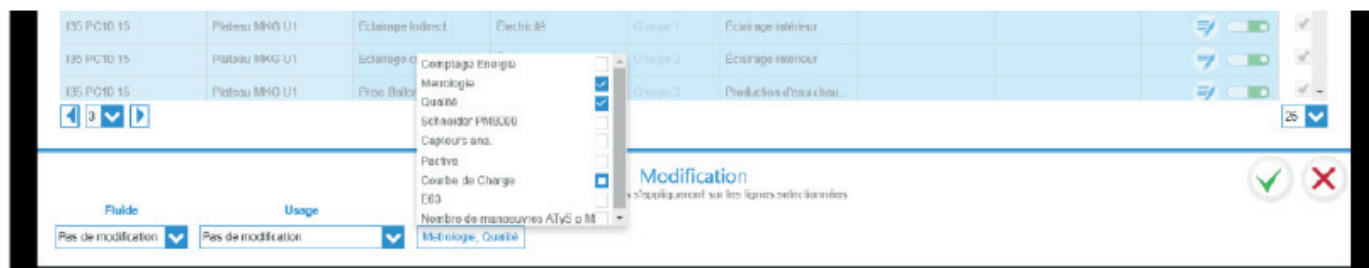
The administrator must assign the data models to the measurement circuits in the "Measurement circuit" tab on the "Source" page.

They can be assigned:

- circuit by circuit,

ID	Plaque	Modèle	Unité	Charge	Processus	Données	Actions
070 MKG U1	Plaque MKG U1	172.23.16.216@1 Dir...	Indéfini	-	Indéfini	Conclure Exercice	
I35 Général	Plaque MKG U1	General U1 MKG	Électricité	Charge 1	Processus	Metrologie	
I35 Général	Plaque MKG U1	I35 Général - Divers	Indéfini	-	Indéfini	Qualité	
I35 PC10 15	Plaque MKG U1	Eclairage indirect	Électricité	Charge 1	Eclairage intérieur	Schneider PM5000	
I35 PC10 15	Plaque MKG U1	Eclairage circulation	Électricité	Charge 2	Eclairage intérieur	Captteurs ana.	
I35 PC10 15	Plaque MKG U1	Plac. Ballon ECS	Électricité	Charge 3	Production d'eau ch...	Pactue	

- or by selecting several circuits and assigning the model(s).



The administrator also has to configure the Modbus properties in the "Data" tab on the "Source" page (see below):

Equipements	Nom	Données	Description	Unité	Coefficient	Nom de frame	Adresse	Type	Fonction	Actions
Captteur T° ext	Température ext	CT°_ext	température ext...	°C	1	Captteur	11605	Signed Int 3	Read Holding	

1. Specify the unit conversion coefficient (e.g. to convert a "Custom" data item expressed in kW to W – enter 1000 in the "Coefficient" field)
2. This "Frame Name" field groups and collects all "Custom" data from the same Modbus table using a single query. You must enter a name of your choice for all the "Custom" data items of the Modbus table. (This action limits the Modbus requests and therefore considerably shortens the WEBVIEW-L response times).
3. Indicate the address of the Modbus register for the "Custom" data item
4. Indicate the type of coding of the Modbus frame
5. Indicate the Modbus function



WEBVIEW-L communique selon le protocole Jbus. Si le produit générique ajouté communique selon des tables Modbus, il est donc important de décrétement de 1 les registres Modbus de ce produit avant de les renseigner dans WEBVIEW.

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Innovative Power Solutions