



MANUAL INTEGRATOR

Version 1.52.7



The intelligent building manager

WEOZ™

YOUR SOLUTION FOR EFFICIENT SPACES



#legrandImprovingLives

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PRESENTATION OF THE ECOSYSTEM

PRESENTATION OF THE ECOSYSTEM

PRESENTATION OF ORGANISATIONS AND ROLES

Organisations are groups of sites, users and automation rules.

An Organisation is defined by an Organisation name, a country, a contact and administrative information.

As an integrator of the WEOZ solution, you can manage several Organisations with different roles within them:

THE POSSIBLE ROLES WITHIN ORGANISATIONS ARE :

1. **Owner** : Total control over the Organisation and all sites.
2. **Administrator** : Manages the day-to-day operations of the Organisation.
3. **Billing Manager** : Management of billing and payment parameters.
4. **User** : Read-only permissions on Organisation, but can have elevated permissions on some sites.

THERE ARE ALSO ROLES WITHIN THE SITES CREATED IN THE ORGANISATIONS WHICH ARE :

1. **Administrator** : Full control over a site.
2. **Manager** : Manages the day-to-day operations of a site.
3. **User** : View data and initiate actions.
4. **Viewer** : Simple consultation of site data.

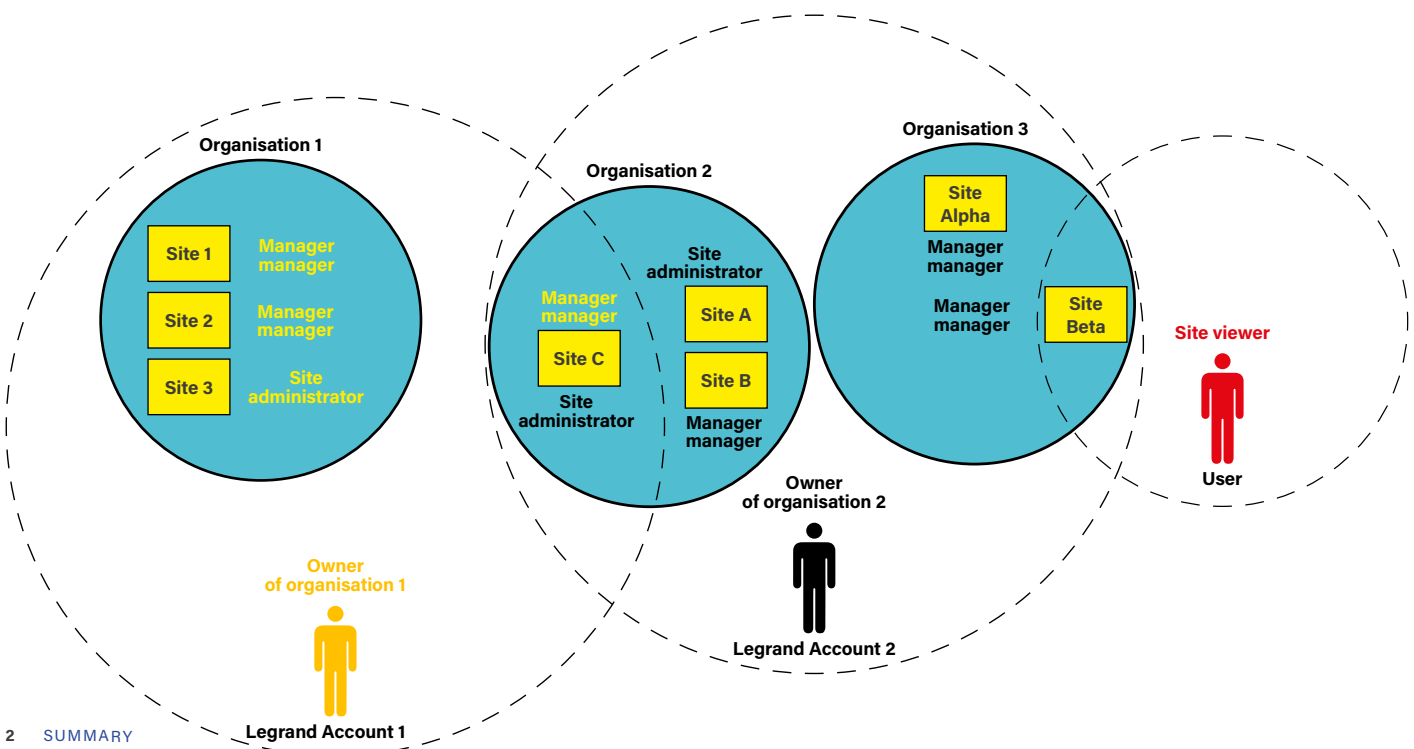
Roles are assigned when a user is invited to an Organisation or a site.

It is possible to combine a role in an Organisation and a role in a site:

Example: Owner of Organisation X and Administrator of a site belonging to Organisation Y.

It is also possible to belong to several Organisations and hold different roles in each one.

The permissions linked to each role are described in the rights matrix within this chapter.

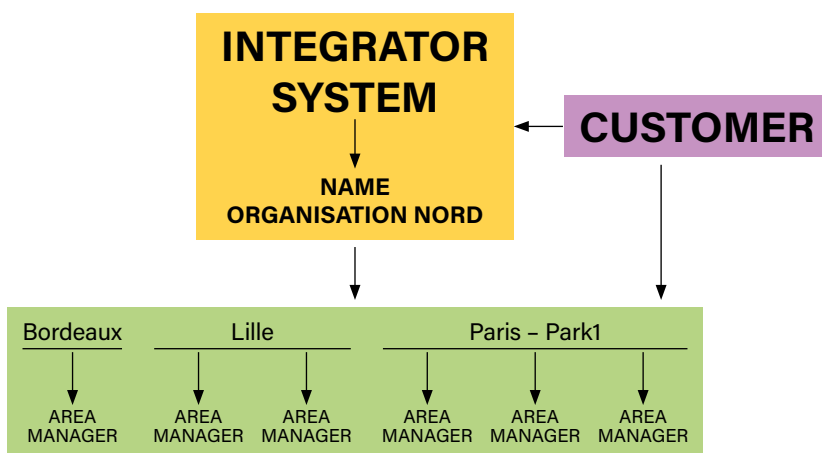


CREATING AN ORGANISATION

THERE ARE TWO WAYS OF CARRYING OUT A PROJECT ON BEHALF OF YOUR CUSTOMER:

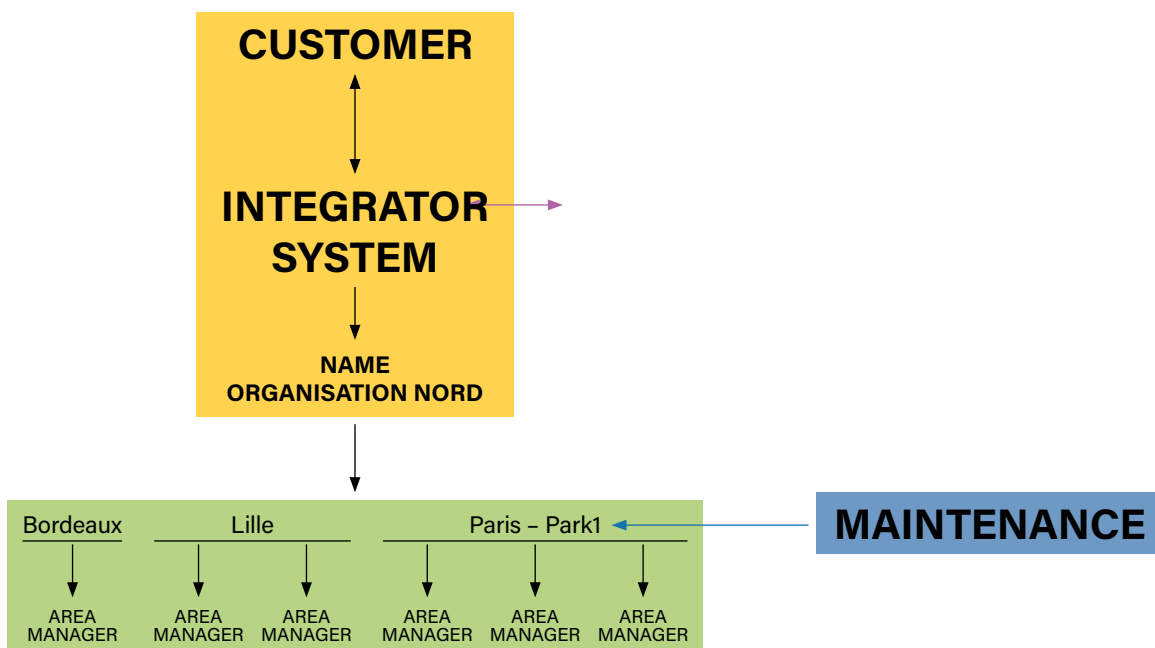
CASE 1 - You want to keep your customer's project in your organisation and be invoiced for the licences

- 1 Create your Organisation and fill in your company details
- 2 Create your Customer site(s)
- 3 You can invite your Customer to your Organisation or invite them to be a Site Administrator



CASE 2 - Your customer wants you to set up their organisation and they want to be invoiced for the licences

- 1 Create your Customer's Organisation and fill in your customer's details
- 2 Create your Customer's site(s)
- 3 You can decide to stay or leave your Customer's Organisation
- 4 Your Customer can invite a Maintainer to be a Site Administrator



PRESENTATION OF THE ECOSYSTEM

USER RIGHTS MATRIX

Resource / Capacity	Owner of the organisation	Organisation Administrator	Organisation Billing Manager	Organisation User
Organisation				
Create	Anyone can create their own organisation			
Read	✓	✓	✓	✓
Modify/Edit	✓	✓	✗	✗
Delete	✓	✗	✗	✗
Member of the organisation				
Invite	✓	✓	✗	✗
Read	✓	✓	✓	✓
Update	✓	✓	✗	✗
Remove	✓	✓	✗	✗
Change role	✓	✓	✗	✗
Area Manager				
Read	✓	✓	✓	✓
Register	✓	✓	✗	✗
Unsubscribe	✓	✓	✗	✗
Synchronize	✓	✓	✗	✗
Synchronize en masse	✓	✓	✗	✗
Link to site	✓	✓	✗	✗
Factory reset	✓	✓	✗	✗
Area Manager identity details				
Read	✓	✓	✗	✗

	Administrator of the site	Manager site	User of the site	Viewer of the site
	Anyone can create their own organisation			
	✓	✓	✓	✓
	✗	✗	✗	✗
	✗	✗	✗	✗
	✓	✓	✗	✗
	✓	✓	✗	✗
	✗	✗	✗	✗
	✓	✗	✗	✗
	✓	✗	✗	✗

PRESENTATION OF THE ECOSYSTEM

USER RIGHTS MATRIX (CONTINUED)

Resource / Capacity	Owner of the organisation	Organisation Administrator	Organisation Billing Manager	Organisation User
Site				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗
Managing site users				
Invite	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Remove	✓	✓	✗	✗
Change role	✓	✓	✗	✗
Managing site roles				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗

	Administrator of the site	Manager site	User of the site	Viewer of the site
	X	X	X	X
	✓	✓	✓	✓
	✓	✓	X	X
	X	X	X	X
	✓	✓	X	X
	✓	✓	✓	✓
	✓	✓	X	X
	✓	✓	X	X
	✓	✓	X	X
	✓	✓	X	X
	✓	✓	✓	✓
	✓	✓	X	X
	✓	✓	X	X

PRESENTATION OF THE ECOSYSTEM

USER RIGHTS MATRIX (CONTINUED)

Resource / Capacity	Owner of the organisation	Organisation Administrator	Organisation Billing Manager	Organisation User
Location				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗
Create en masse	✓	✓	✗	✗
Mass update	✓	✓	✗	✗
Mass delete	✓	✓	✗	✗
Device				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗
Trigger	✓	✓	✗	✗
Create en masse	✓	✓	✗	✗
Mass update	✓	✓	✗	✗
Mass delete	✓	✓	✗	✗
Mass release	✓	✓	✗	✗
Create link	✓	✓	✗	✗
Remove link	✓	✓	✗	✗
Rule				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗
Activate	✓	✓	✗	✗
Disable	✓	✓	✗	✗
Create en masse	✓	✓	✗	✗
Mass update	✓	✓	✗	✗
Mass deletion	✓	✓	✗	✗

	Administrator of the site	Manager site	User of the site	Viewer of the site
	✓	✗	✗	✗
	✓	✓	✓	✓
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✓	✓	✓
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✓	✓	✗
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✓	✓	✗
	✓	✗	✗	✗
	✓	✗	✗	✗
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	✓	✓	✓	✓
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✓	✗	✗
	✓	✓	✗	✗
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✗	✗	✗

PRESENTATION OF THE ECOSYSTEM

USER RIGHTS MATRIX (CONTINUED)

Resource / Capacity	Owner of the organisation	Organisation Administrator	Organisation Billing Manager	Organisation User
Scheduler event				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗
Subscription				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗
Application				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗
Rule template				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗

	Administrator of the site	Manager site	User of the site	Viewer viewer
	✓	✓	✗	✗
	✓	✓	✓	✓
	✓	✓	✗	✗
	✓	✓	✗	✗
	✓	✗	✗	✗
	✓	✓	✓	✓
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✗	✗	✗
	✓	✓	✓	✓
	✓	✗	✗	✗
	✓	✗	✗	✗

PRESENTATION OF THE ECOSYSTEM

USER RIGHTS MATRIX (CONTINUED)

Resource / Capacity	Owner of the organisation	Organisation Administrator	Organisation Billing Manager	Organisation User
Custom function				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗
Report template				
Create	✓	✓	✗	✗
Read	✓	✓	✗	✗
Update	✓	✓	✗	✗
Delete	✓	✓	✗	✗

	Administrator of the site	Manager site	User of the site	Viewer of the site

1. MANAGEMENT OF THE INTEGRATIVE SPACE

1.1 CREATING AN INTEGRATOR/INSTALLER ACCOUNT

Create an account via the following URL:
<https://portal.buildingmanager.legrand.com/>



Click on "Register":



1.2 CONNECTION TO THE BUILDING MANAGER PORTAL

Connect to the Building Manager portal via the following URL :

<https://portal.buildingmanager.legrand.com/>.

If you already have a Legrand account (for example to connect to "with Netatmo" products), you can use it.



1.3 CREATING AN ORGANISATION

If you are the first person in your organisation to log in, you will be asked to click on the link to create your organisation:



If you are a member of this organisation, you can simply join by requesting access from the administrator.


1.3 CREATING AN ORGANISATION (CONTINUED)

Once you've clicked on the link, a pop-up window will open asking you to enter information about your integration company.



To create a new organisation, it is necessary to obtain approval from the Legrand teams.

During this period, you will no longer be able to access your sites or add new Area Managers.

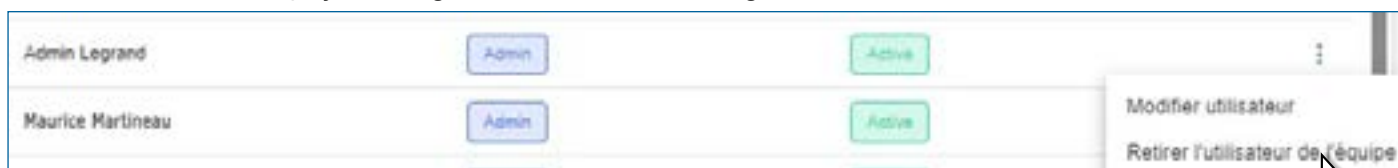
You will then be taken to your organisation's page, where you can modify the information in the Organisation section by clicking on .

1.3 CREATING AN ORGANISATION (CONTINUED)

In the Organisation section, the button allows you to invite a member of your organisation. For more information, see the rights matrix in the introductory chapter *Ecosystem overview*.

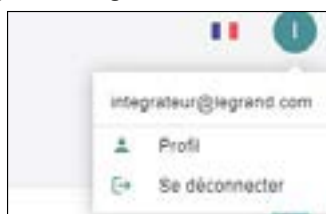
Enter the email address that the invited member used to create their Building Manager portal access account, and set their accreditation level (see *Rights matrix*).

You can remove a member of your integration team at any time (useful in the event that a subcontractor needs access to the portal and information on certain sites), by accessing the user's details and clicking on :



1.4 ACCOUNT MANAGEMENT

From the "Profile" menu or by clicking on your logged-in user name, you can view and modify your personal information. You can also delete your Legrand account at any time by clicking on the Legrand Account tab.



Check the information you have entered and confirm (you can change this information later).

2. CREATION AND MANAGEMENT OF SITES

To optimise time on site, it is advisable to prepare the project in advance. The Area Manager can be connected for the first time and updated at the same time.

2.1 CREATION OF A SITE


The Building Manager portal allows you to manage several sites.


In the drop-down menu on the left of the screen, click on the  Sites . If this is your first visit to this tab, you will be prompted to create a new site.


If you have already created sites, you can add new ones using the  button at the top right of the screen.


Nouveau site

Type* Nom*

Etape 0 Nom* 

Etape 1 Nom* 

Etape 2 Nom* 



Labels

Adresse*

Pays* Ville* Code postal*

Latitude Longitude Fuseau Horaire*

2.1 CREATION OF A SITE (CONTINUED)

Indicate the type of building and the number of storeys (including basements and ground floors).
Outdoor areas can be considered as levels or locations.

The next screen allows you to give customised names to the levels.

The last step asks you to enter the physical location of your site (postal address).



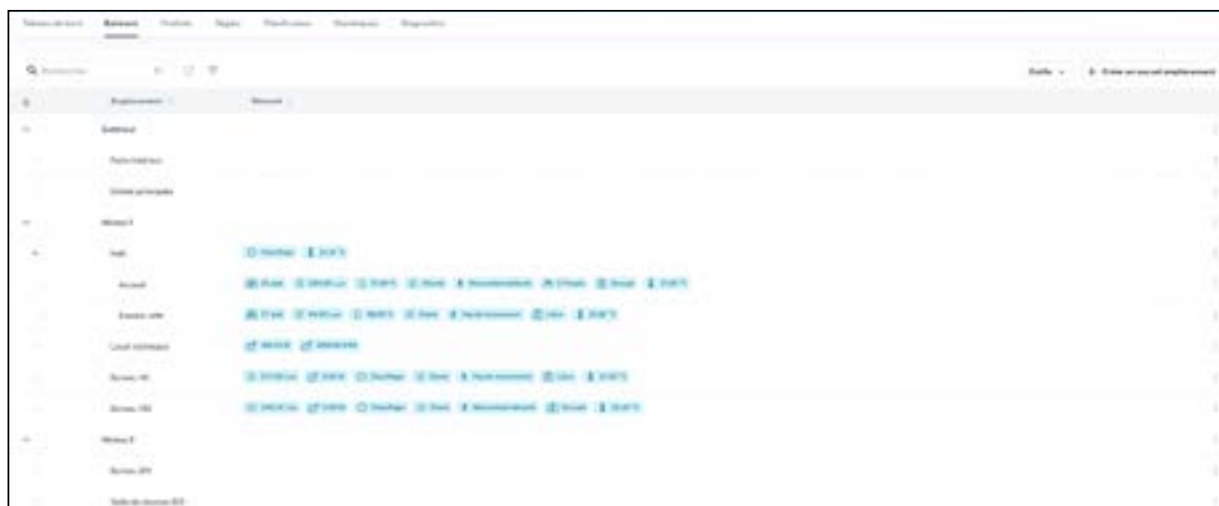
Important: entering the site location information is an essential step, particularly for the time zone, as Area Managers connected to this site will automatically synchronise to this time zone. What's more, by selecting the country, you can dynamically adapt the list of available products (range of equipment or measurement products) to suit the country's specific offering.

Check the information and validate to finish creating the site.

You can access the details of the site by clicking on it.

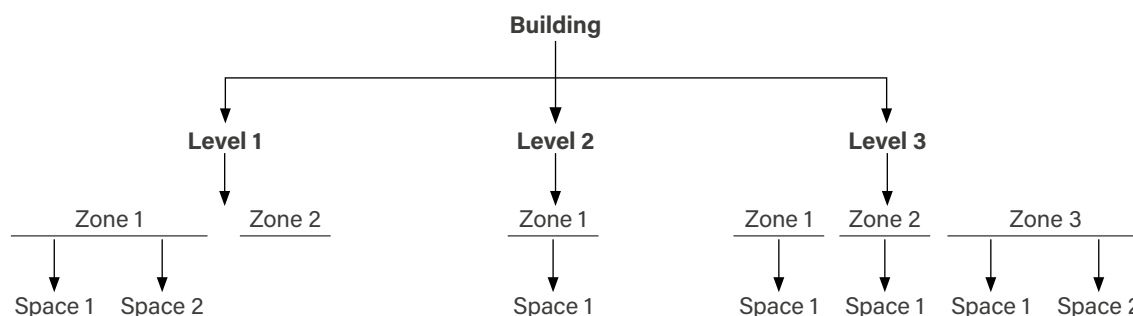
2.2 HIERARCHICAL STRUCTURE OF THE BUILDING

The second tab **Batiment** lets you view and modify the hierarchical structure of your building. From the outset, you will see the levels that were defined when the site was created. You can then add locations to these levels, allowing you to create the different spaces, meeting rooms and any other elements of the site to be used.



To change the hierarchical structure of the building, click on to the right of the parent location, then add a location. You can :

- Add zones to a given level,
- Add spaces to a given zone.



2.3 SITE PRODUCT DECLARATION

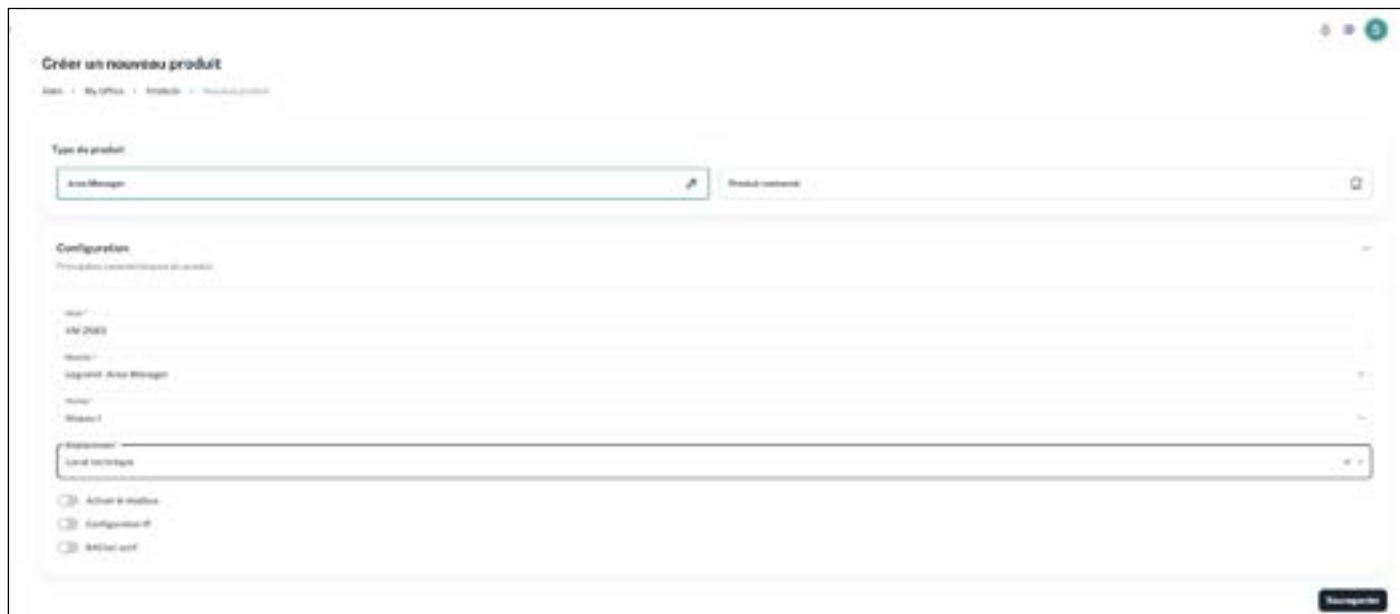
Once the building structure has been defined, the **PRODUITS** tab is used to declare the products that will be installed. Click on  to add a product.



This will take you to a new page for adding a new product.

2.3.1 DECLARE AN AREA MANAGER

Start by declaring an Area Manager to which the products will be attached:



2.3.1 DECLARE AN AREA MANAGER (CONTINUED)

Enter :

- The name (an identification number)
- The level and location of the Area Manager

You will see your Area Manager appear in the list of products on your site. This declaration remains virtual until the Area Manager is physically connected, declared as belonging to this site, and synchronised with the Building Manager portal.

In addition to wireless communication protocols, the Area Manager is also capable of Modbus communication.

All Area Managers are natively equipped with this protocol, but it must be activated and configured according to the elements to be controlled. Modbus can be configured at any time.

To activate Modbus, tick the box Activer le modbus.

New fields will appear, inviting you to enter the various characteristics of your Modbus configuration. This information must be completed and must be identical on each of your Modbus devices, with the Area Manager positioned as the Master.

Réglages Modbus	
Mesure Legrand	
Adresse*	RTU
Adresse*	19200
Adresse*	Accueil
Adresse*	1
Nom*	Mesure Legrand
Port	Jdev/Strmou2
Type canal	S

IP Configuration to connect to Airzone via local API

From the Area Manager menu, you can enable the IP Configuration function to connect the Area Manager to Airzone products via local APIs.

Parameters to set :

Réglages IP	
Réglages IP	
Nom*	Réglages IP
Adresse IP*	192.168.1.10
Port*	3000

Connection name (example: local Airzone API)

Local IP address of the Airzone system

Port: 3000

Addressing to be respected when adding an Airzone API model

Format: X:Y

X = Airzone system number


Y = zone number

Example: 1:5 for system 1 and zone 5.

2.3.2 DECLARE A PRODUCT

Click on the line of the Area Manager already declared to create the product in the Area Manager zone.



You can also click on  to create a new product and choose its location.



To ensure that product data is displayed correctly in the building view, make sure that all the products declared in the same location are associated with a single Area Manager.

Click on  on **PRODUITS**.



2.3.2 DECLARE A PRODUCT (CONTINUED)

You will arrive on a "New product" page. You will need to enter the model and name of the product.

Modbus products will only be proposed if the function has been activated on the Area Manager, and you will also need to fill in the slave ID field.



Créer un nouveau produit

Accueil > MyOffice > Produits > Configuration

Configuration
 Paramètres caractéristiques de produit

Nom :
 Modèle :
 Série :
 ID Slave :

Sélectionnez le produit connecté
 Configuration associée à l'ensemble de données

Produit :
 Rechercher

Nom :
 Modèle de montage IPH100
 ID Slave : 1

Propriétés

2.3.2 DECLARE A PRODUCT (CONTINUED)

By selecting the "Advanced filters" option, you can filter the available models by brand, communication protocol and part numbers (labels).

Select the model.

The product properties appear:

- **The name** of the property (can be modified, for example "Opening contact")
- An **"Active" box** allows you to deactivate a property (an inactive property will no longer be usable for management rules)
- A **"Cache" box** used to prevent information being fed back to the part, the property will be hidden but still usable in the management rules
- **The option of excluding it from the location property** to prevent it from being included in the calculation of the average for the zone property
- **Minimum difference threshold** allows you to limit the amount of information fed back, and works as an absolute value to limit the difference in temperature fed back to 0.5 or 1°C for example, as well as a percentage

We recommend that you only keep data that is useful for the proper operation of your site (e.g. consumption, temperature).

To modify the product properties, click on  .




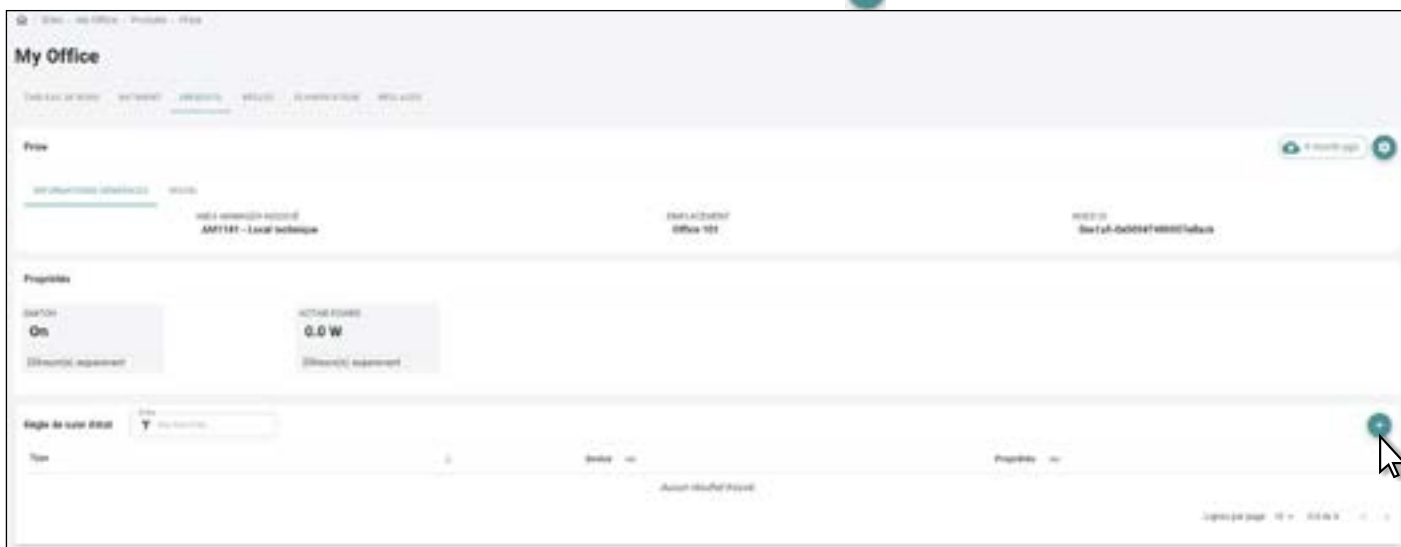
Notes :

- In the list of available products, there are virtual products. They can be used to symbolise different concepts and configurations, and can be used as indicators, controllable through management rules, to fine-tune the behaviour of a site or improve maintenance and comfort operations. u2028]For example, a virtual switch to switch the HVAC system to summer or winter mode.

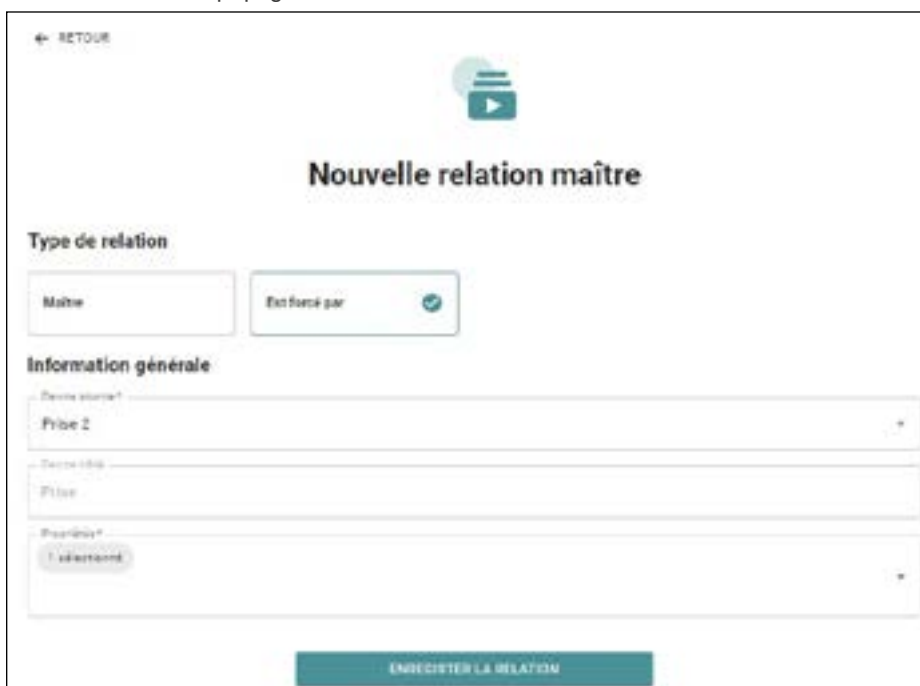
2.3.3 STATE TRACKING RULE

By accessing the details of a product, it is possible to create a master/slave relationship between two products. For example, define a master thermostat which, when one of its parameters is modified, will "force" this modification on the slave thermostats which depend on it (its mode, for example).

You can create relationships between your installed products. To do this, click on  in "Status monitoring rule".



This takes you to a "New master relationship" page:



INTEGRATOR


2.3.3 STATE TRACKING RULE (CONTINUED)

There are 2 ways of doing this.

Choose the type of relationship for a master or slave product:

Type de relation

Maitre <input checked="" type="checkbox"/>	Est forcé par <input type="checkbox"/>
--	--

Then, once you have clicked on  of "Master" or "Forced product" you must :

- Define the target product (slave) or the source product (master),
- Select the properties which will be affected by the master/slave relationship.

2.4 MODIFICATION AND DELETION OF PRODUCTS

To change the name or properties of a product access its details by clicking on the name of your product in the **PRODUITS**.

Then click on  **Modifier** to display the product parameters:

Prise

INFORMATIONS GÉNÉRALES

ANEX MANAGER ASSOCIÉ	AM 2063
EMPLACEMENT	Bureau 101
NOUVEAU	2022-04-08 09:00:00

MODÈLE

Modèle	Legrand - Prise de courant
Statut	Legrand
Produit	Prise
Propriétés	Couleur, Dimensions, etc.

Propriétés

Couleur	0.00 €
Dimensions	0.00 €

Règles de suivi d'état

Recherche:

Type	Produit	Propriétés
------	---------	------------

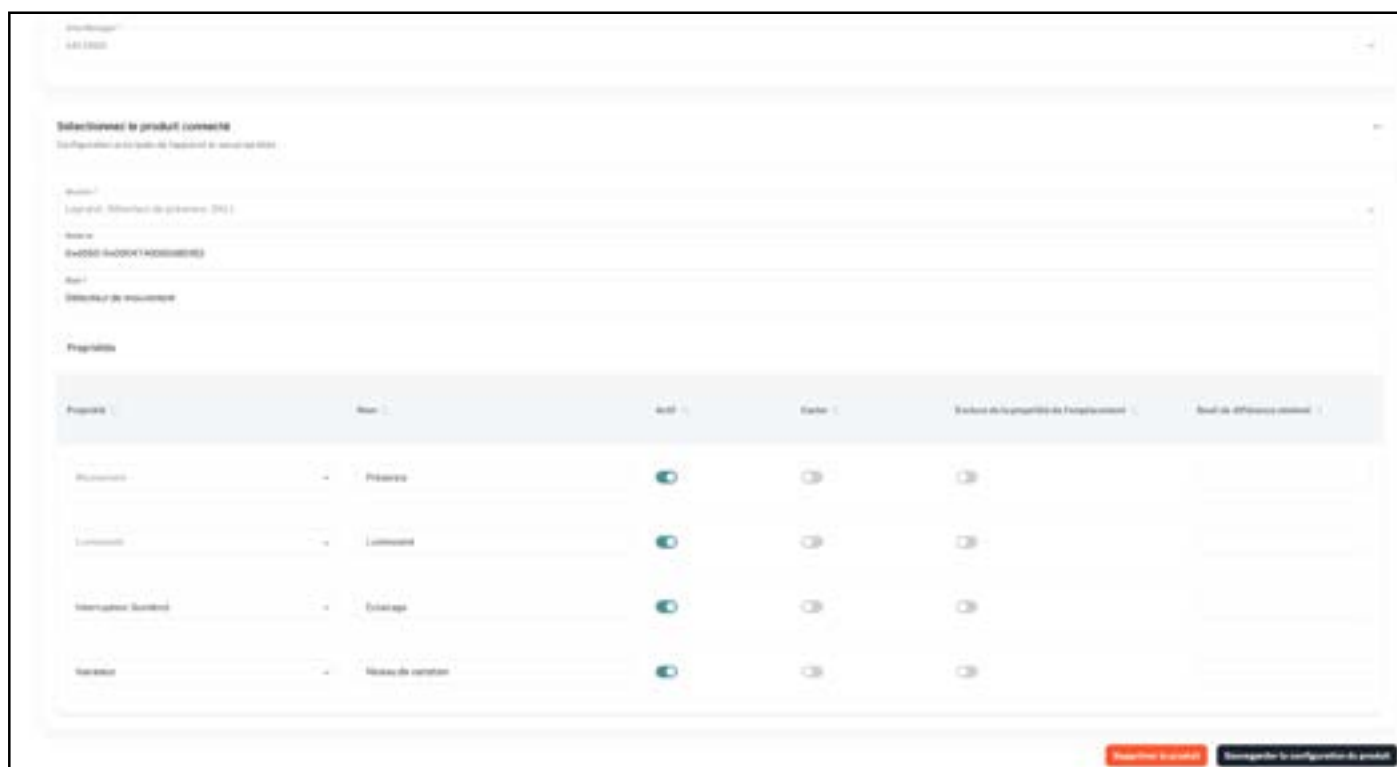
2.4 MODIFICATION AND DELETION OF PRODUCTS (CONTINUED)

A screen similar to the one used to create will allow you to :

- Modify the general information by clicking on **MODIFIER LE PRODUIT**
- Delete the product by clicking on **SUPPRIMER LE PRODUIT**

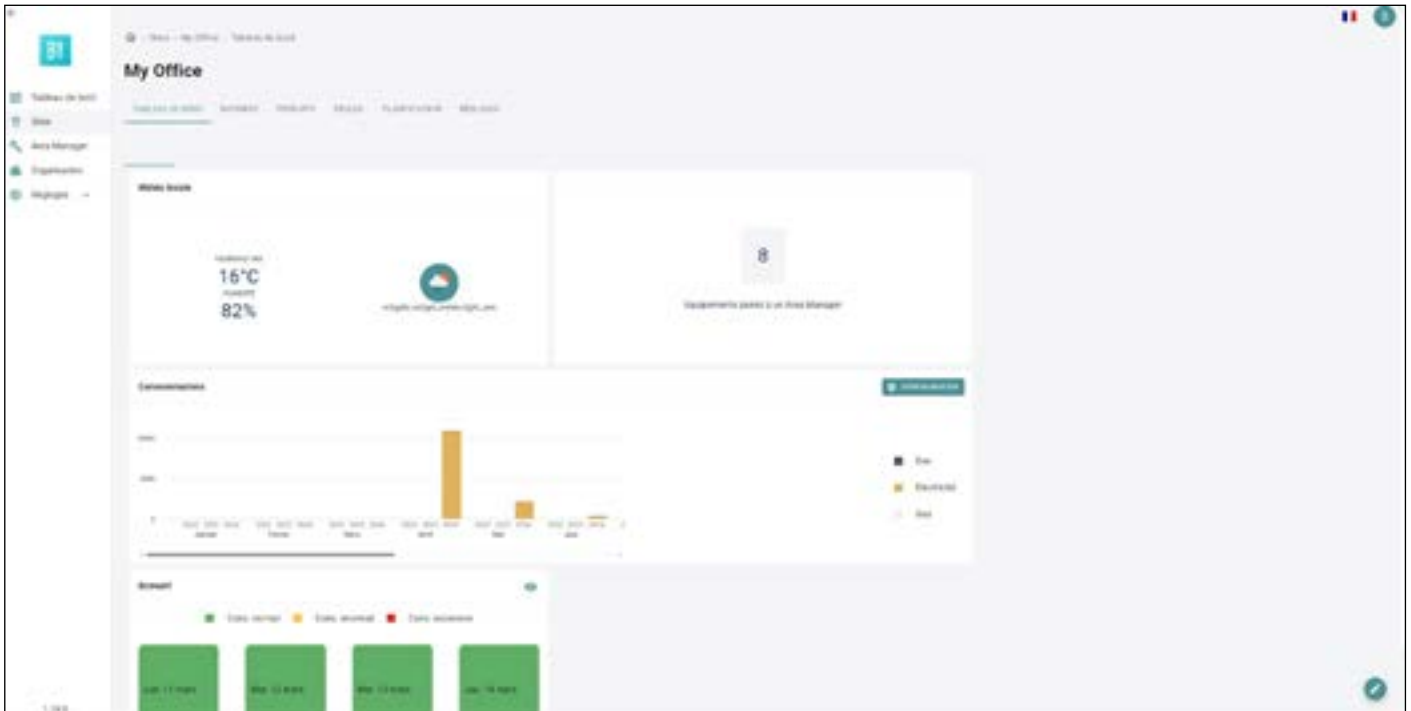


The system will not let you delete products that are paired with an Area Manager, or linked Area Managers. You will first have to unpair or unlink them (see Pairing section 5.3 Inclusion/Exclusion of products).



2.5 DASHBOARD MANAGEMENT

The first tab **TABLEAU DE BORD** that appears in the site details is a customisable Dashboard, on which you can display various widgets.



Each user for each site has their own Dashboard, which can be organised into different sections according to the information relevant to their operation.

To add/remove/reorganise widgets on the Dashboard, click on the "Edit" button on the right of the screen.

- Move/delete existing widgets




2.5 DASHBOARD MANAGEMENT (CONTINUED)

- Add or modify a section (widgets page)



Click on the section name to add the corresponding widget.



Once you have created the widget(s), you now need to configure them by clicking on . The configuration will be specific to each widget.

3. AREA MANAGER MANAGEMENT

3.1 REGISTRATION OF AREA MANAGER

Each physical Area Manager has a unique identification number and a proprietary key. As an integrator, you will potentially be handling a large number of Area Managers, and you will not always know which one will be physically installed in which location as soon as you receive it.

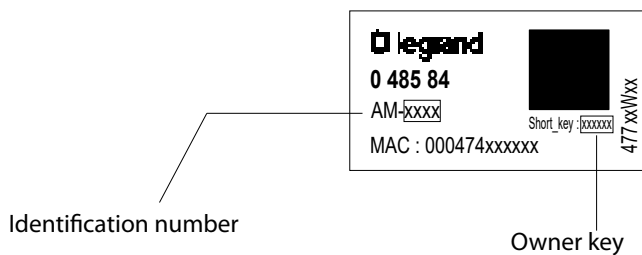
The first step is to declare each Area Manager in your possession by entering its identification number and owner key in order to activate it. There are two ways of doing this:

- from the mobile application, see section *Setting up an Area Manager*
- from the portal, in the  **Area manager** tab in the left-hand menu, then click on .



Enter the identification number and owner key given to you when you received your Area Manager, then click on .

Label located on the underside of the product :



3.2 ASSIGNMENT/DISAFFECTION AT THE SITE

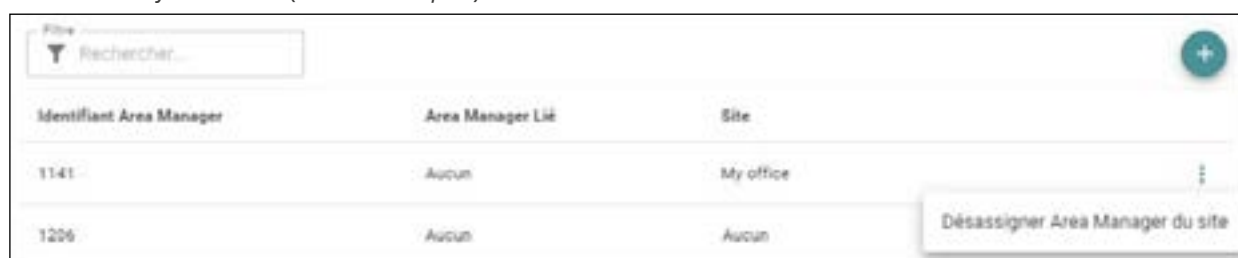
Your Area Manager appears in the list of Area Managers you own. It is not yet assigned to any site, nor linked to any virtual Area Manager on a site. If it has been registered from the application, it will automatically be asked to be assigned to your site.



Click on **Assigner Area Manager au site** to assign your Area Manager to a site.

The selected Area Manager will be assigned to a site, and it will be necessary to set up the connection between the Area Manager and the Building Manager portal (see *setting up the Area Manager*).

To unassign an Area Manager from one site and reassign it to another site, simply click on . A screen will open for unassignment, provided it has already been reset (see *reset chapter*).



Tick the box **Je sais ce que je fais** then click on the **DÉSASSIGNER AREA MANAGER** button.

Your Area Manager will no longer be linked to a site and you can assign it to a new site.

4. AREA MANAGER

4.1 ESTABLISHMENT OF THE AREA MANAGER

Step 1:

Power up the Area Manager :

Examples of states :



• Operational but not connected, works locally.



• Operational and connected.



The LED lights up green when the Area Manager's operating system is booted



The LED lights up green when the Area Manager is connected to the Cloud






The LED lights up green when the radio protocols are active (Zigbee and Z-Wave)



The LED lights up green when the Wi-Fi access point is active



Before you start, make sure that the LEDs  and  are green and that the LED  is lit (green or red).

Step 2:


Install the mobile application **Building + Manager** from the Play Store on your phone.



Step 3:

Start the mobile application.

Authenticate yourself with your Legrand access.

Once on the application's home page, click on .

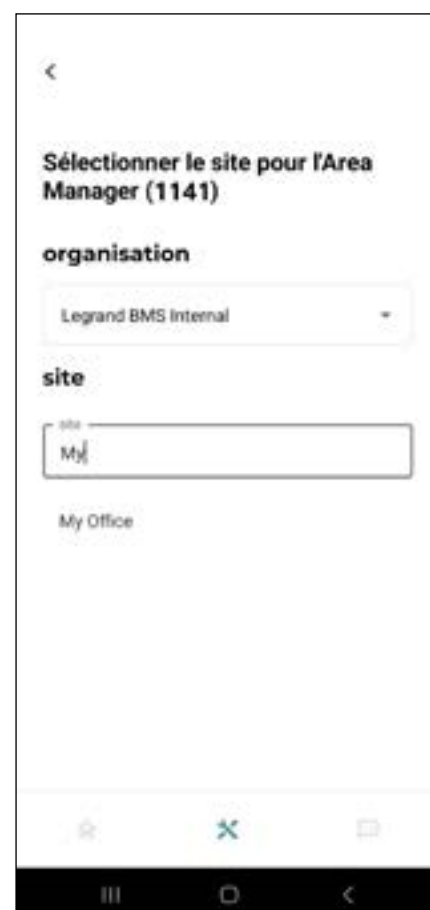
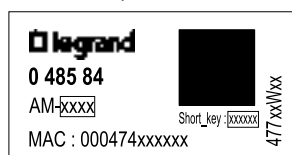
4.1 ESTABLISHMENT OF THE AREA MANAGER (CONTINUED)

Step 4: If you have not registered from the portal, you can do so at this stage using the application.

Registering and assigning an Area Manager

Click on Register an Area Manager.

Scan the QR code on the back of the product.



Step 5:

Activate the Wi-Fi access point: press the button on the front of your Area Manager twice within one second.

Wait a few seconds while the Wi-Fi access point is activated, the LED will turn green.

The access point should appear in your Wi-Fi networks as "**Legrand-AM-XXXX**" (AM-XXXX indicates the Area Manager identifier). The security key can be accessed on the Building Manager portal in the tab **Area manager** tab and by clicking on the Area Manager concerned.

4.1 ESTABLISHMENT OF THE AREA MANAGER (CONTINUED)

Step 6:

Connect to the Wi-Fi network
Legrand-AM-XXXX.

Click on Connect to Area Manager.

Fill in your Area Manager ID: the Area Manager password and Wi-Fi password will be filled in automatically if your Area Manager is registered, and if your phone is connected to the Internet.

If you see an error message, you may need to disable 4G mobile data.

The image shows two side-by-side screenshots of a mobile application interface titled "Se connecter à Area Manager".


The left screenshot shows the login form with the following fields:

- Area Manager ID (ex: 1723): [Empty]
- Mot de passe MQTT: [Empty]
- Mot de passe Wi-Fi: [Empty]

The right screenshot shows the same form with the following values entered:

- Area Manager ID (ex: 1723): 1141
- Mot de passe MQTT: jKdN6L4%b31&
- Mot de passe Wi-Fi: z56Ez&7V5*!L

Both screenshots feature a black button at the bottom labeled "Se connecter à Area Manager".

If necessary, you can access the security key and password in the  **Area manager** tab and by clicking on the relevant PLC.

The image shows a dialog box titled "Détails de l'identité de l'Area Manager".

The dialog contains the following text:

Cette identité est unique et n'est pas censée changer après avoir été créée. Une identité ne peut être flashée que sur un seul Area Manager.

The dialog lists the following details:

- Clé propriétaire: 4c68f1
- Mot de passe MQTT: jKdN6L4%b31&
- Mot de passe Wi-Fi: z56Ez&7V5*!L

Each detail is displayed in a text box with a copy icon to its right.

Click on connect.

4.1 ESTABLISHMENT OF THE AREA MANAGER (CONTINUED)

The first time you connect to the Area Manager, you will be asked to start the installation.



- Click on **Démarrer l'installation** and specify whether your product is connected via Ethernet or Wi-Fi.



- In order to ensure optimum performance, it may be necessary to update the Area Manager. The update is followed by a restart of the product. After the restart, you will need to reactivate the access point and connect again in order to proceed with the new installation. Depending on the quality of the Internet connection and the firmware version of your Area Manager, the operation may take up to twenty minutes.








Warning: do not unplug or disconnect the product during the update.



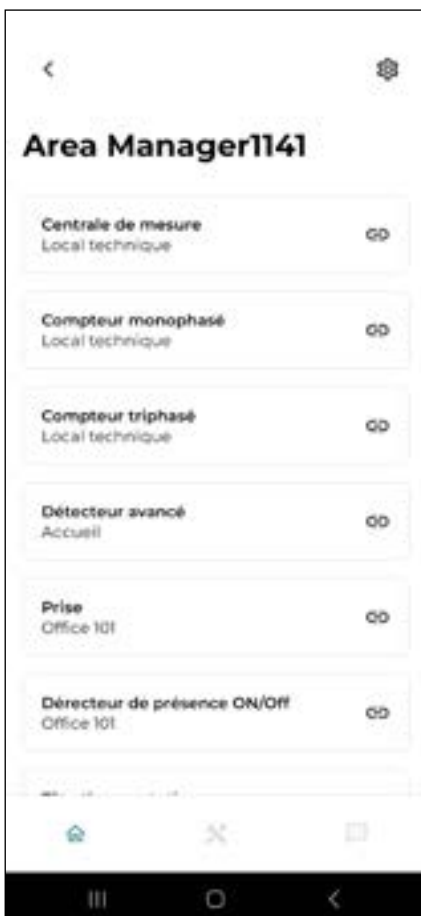
- Choose the location and Area Manager previously defined in the portal to which the product corresponds, then click on **Lancer l'installation**.

4.2 GENERAL OF AREA MANAGER


From  at the top right of the screen, 4 settings are possible:

-  Réseau Network settings: allows you to change network settings
-  Vérifier la connectivité Check cloud connection
-  Synchroniser Synchronise the Area Manager with the Building Manager portal configurations
-  Réinitialisation d'usine Return to factory settings

Once the Area Manager has been installed, you will be taken to the Area Manager overview. If you get the message "No data", check the configuration made on the portal and then synchronise your Area Manager from the portal or the corresponding button on the global view.



As soon as an action is carried out in the Building Manager portal, such as a modification to the site structure, the creation/modification/deletion of a product, the creation of a management rule or an energy saving rule, **the Area Manager will need to be synchronised so that the changes can be taken into account.** This operation also ensures that the operating logic is loaded locally into the Area Manager and that the building continues to operate correctly even if the Internet network is temporarily lost.

This action can be carried out either directly from the application by clicking on the  button in the global view, or pushed from the portal.

4.2 GENERAL OF AREA MANAGER (CONTINUED)

If it is necessary to change an Area Manager completely, or as a last resort in the event of a technical problem, you can reset your Area Manager to its factory settings.



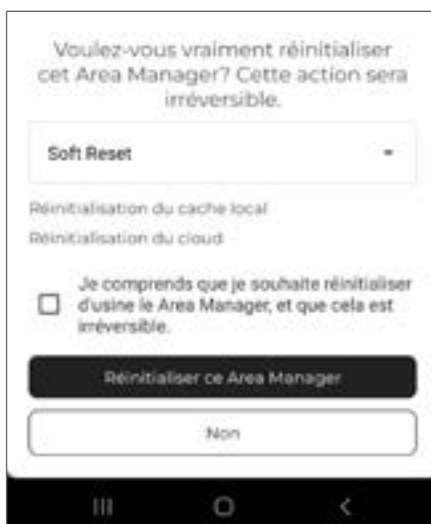
Warning: This action is irreversible, and will delete absolutely everything that has been set up on the Area Manager (site, products, rules, ...) It will be empty of any information. Only carry out this operation if you are absolutely sure of what you are doing.

You must unpair the Z-Wave and ZigBee products one by one before performing the factory reset.

Procedure

Step 1 :

Click on  and on the "factory reset" menu.



A screen will ask you to confirm the action.

Step 2 :

Once the action has been confirmed, do not touch anything and **wait 3 min** for the Area Manager to reconfigure itself automatically.





Warning:

Even if a "Factory reset success. please reboot the automation" message appears on the screen, please wait 3 minutes!

4.2 GENERAL OF AREA MANAGER (CONTINUED)

Step 3:

Go to the portal and go to the tab  **Area manager.**

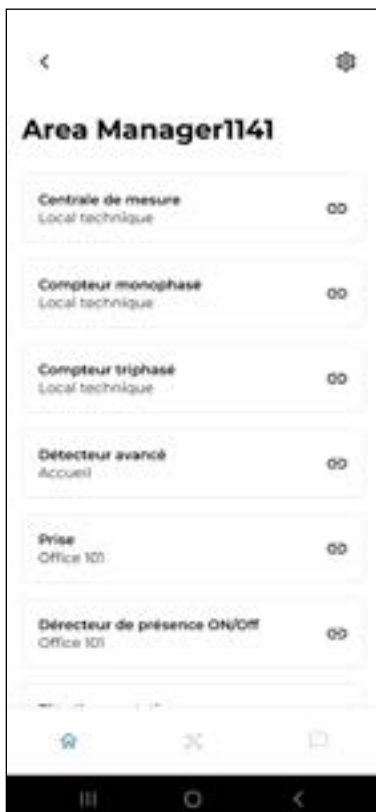
Check that the value "None" is displayed in the "Linked Area Manager" column (the factory reset has worked). If you wish to link it to another site, you will need to remove the Area Manager from that site by clicking on  and unassign this Area Manager from the site).



Identifier Area Manager	Area Manager Lib	Site
1141	AM1141 - Local technique	My Office
1234	None	None
1472	None	None
1483	None	None
1491	None	None

4.3 INCLUSION/EXCLUSION OF PRODUCTS

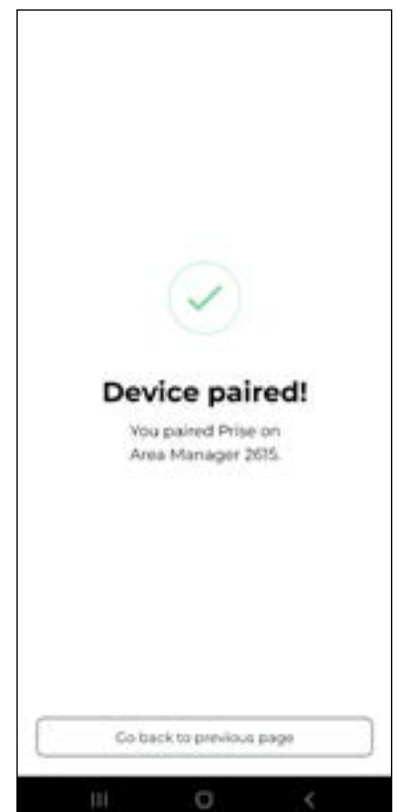
Selecting and clicking on an unpaired device will put your Area Manager in product inclusion mode (for Modbus products, skip this step):




Then activate the pairing mode on the physical equipment (refer to the manual for the product concerned).



After a few seconds, a message will tell you that pairing has been successful.



The icon  will change from red to black.

To unpair, click on the product and confirm. The icon will  will change from black to red.

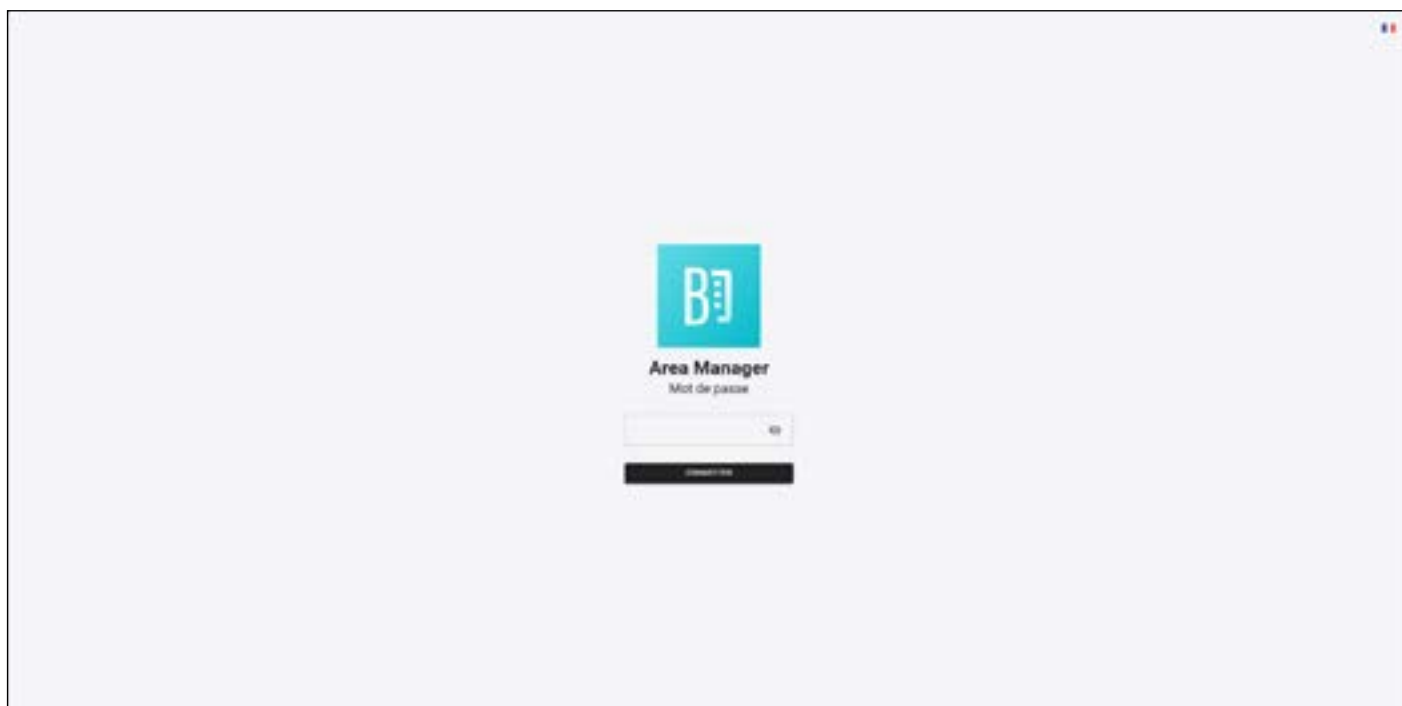
4.4 SETTING UP THE AREA MANAGER USING THE WEB APP

If you have not already done so using the Building + Manager application and would prefer to use your PC, you can also use the Web App to set up your Area Manager.

Procedure for using the configuration web App page

You must first have registered your Area Manager on the portal.

- 1) Press twice within one second on located on the front of your Area Manager. The LED will turn red. Wait a few seconds while Wi-Fi is activated. The LED will turn green when the access point is operational.
- 2) The access point should appear in your Wi-Fi networks as "Legrand-AM-XXXX" (AM-XXXX indicates the Area Manager identifier). The security key can be accessed on the Building Manager portal in the tab **Area manager** tab and by clicking on the relevant PLC.
- 3) Open a browser on your PC and connect to the IP address <https://10.10.10.1> You may get a message from your browser indicating that the web page is not secure. You can continue browsing.



- 4) Once on the page, enter the Area Manager password. This can also be found on the **Area manager** tab and by clicking on the relevant PLC. Once validated, the page may take a minute to load.

4.4 SETTING UP THE AREA MANAGER FROM THE WEB APP (CONTINUED)

5) Click on **DÉMARRER L'INSTALLATION** and specify whether your product is connected via Ethernet or Wi-Fi.



6) To ensure optimum performance, it may be necessary to update the Area Manager. The update is followed by a restart of the product. After the reboot, you will need to reactivate the access point and connect again in order to proceed with the new installation. This operation may take a few minutes.



Warning:

Be careful not to unplug or disconnect the product during the update.

4.4 SETTING UP THE AREA MANAGER FROM THE WEB APP (CONTINUED)

7) Select the location and Area Manager previously defined in the portal corresponding to the product, then click on "Start installation".

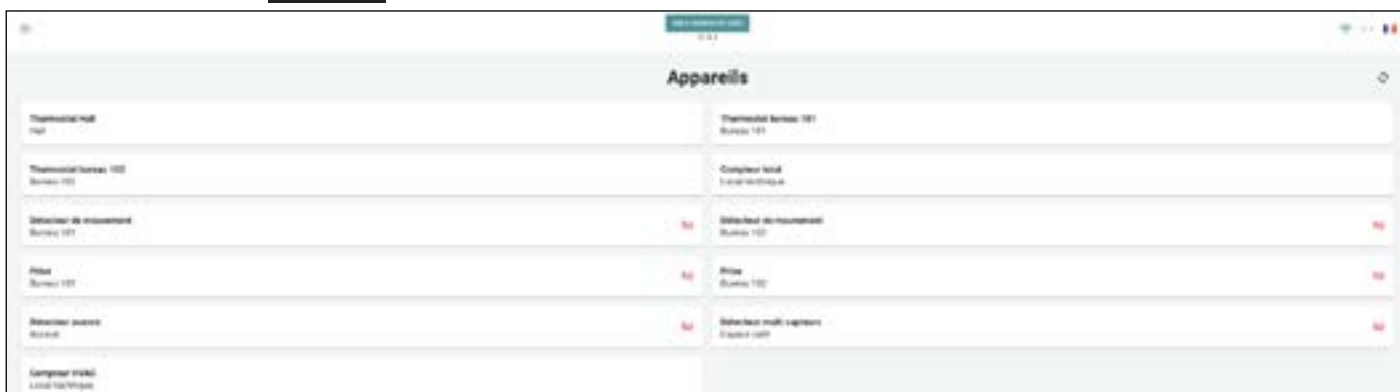


8) Once installation is complete, you will be taken to the main page, where you can access the devices, rules, settings and synchronisation functions.





9) Select the "device" menu.

Select and click on a non-paired device, this will switch your Area Manager to product inclusion mode (for Modbus products, skip this step). Click on the **ASSOCIER**.



4.4 SETTING UP THE AREA MANAGER FROM THE WEB APP (CONTINUED)

10) Activate pairing mode on the physical equipment (refer to the relevant product manual). After a few seconds, a message will indicate that pairing has been successful.

The icon  will change from red to black. To unpair, click on the product and confirm. The icon  will change from black to red. Repeat the operation for each wireless product.

General information on the Area Manager menu

Rules menu :

Allows you to view the rules synchronised in the Area Manager.

Settings :



Allows you to modify network settings (Wi-Fi or Ethernet).

Wi-Fi, description of the 3 icons: disconnect, settings and forget network.



Area Manager: allows the Area Manager to be disconnected from the network while retaining the security key.



Network settings: allows you to access the network settings and modify them if necessary.



Disable: disconnects the Area Manager from the network, deleting the security key.

4.4 SETTING UP THE AREA MANAGER FROM THE WEB APP (CONTINUED)

Ethernet ethernet: allows you to access the network parameters and modify them as required.

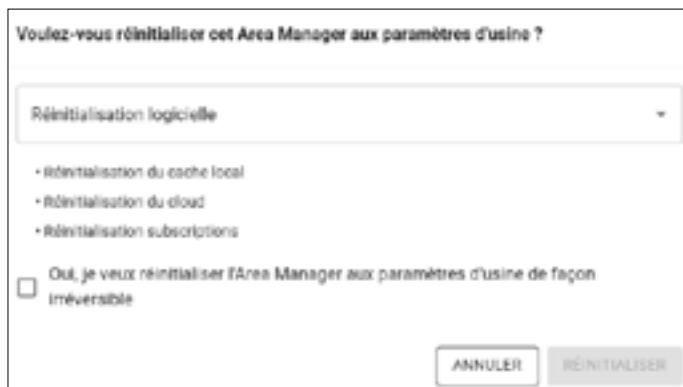


Connectivity this function allows you to check the cloud connection.

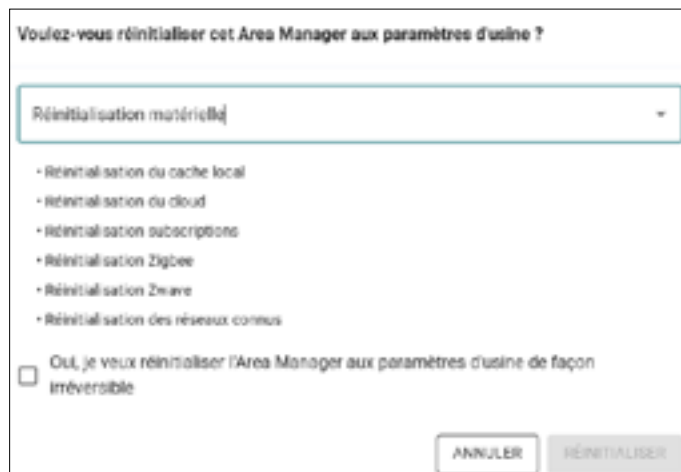
Version view the firmware version of your Area Manager.

Factory reset if you need to move an Area Manager to another site, or as a last resort in the event of a technical problem, you can reset your Area Manager to its factory settings.

Soft reset :



Hard reset :



4.4 SETTING UP THE AREA MANAGER FROM THE WEB APP (CONTINUED)

Synchronisation menu :

As soon as an action is carried out in the Building Manager portal, such as modifying the site structure, creating/modifying/deleting a product or creating a management or energy-saving rule, the Area Manager needs to be synchronised so that the changes can be taken into account. This operation also ensures that the operating logic is loaded locally in the Area Manager and that the building continues to operate correctly even if the Internet network is temporarily lost. This action can be performed either directly from the application by clicking on the **SYNCHRONISER** button in the global view, or pushed from the portal.

Once the action has been confirmed, don't touch anything and wait 3 minutes for the Area Manager to reconfigure itself automatically.



Warning:

Even if a message "Factory reset success ? Please reboot the automation" appears on the screen, please wait 3 minutes!

4.5 SYNCHRONIZATION OF AN AREA MANAGER ON THE PORTAL

- **Synchronising a single Area Manager** to synchronise a single Area Manager, simply :
- Go to the tab **PRODUITS**
- Access the Area Manager details by clicking on the corresponding line.

ID	Product	Area	Properties
483880	Local ventilation	Local ventilation	
	Staircase control	Staircase	100% 100% 100% 100% 100% 100% 100% 100% 100% 100%
	Staircase dehumidification	Staircase 01	100% 100% 100% 100%
	Floor	Staircase 01	100% 100%
	Thermostatic radiator valve	Staircase 01	100% 100% 100% 100%
	Staircase dehumidification	Staircase 02	100% 100% 100% 100%
	Floor	Staircase 02	100% 100%
	Thermostatic radiator valve	Staircase 02	100% 100% 100% 100%
	Staircase health capacity	Open office	100% 100% 100% 100% 100% 100% 100% 100% 100% 100%
	Thermostatic valve	Hall	100% 100% 100% 100%
	Control panel	Local ventilation	100% 100% 100% 100%
	Control panel	Local ventilation	100% 100% 100% 100% 100% 100% 100% 100% 100% 100%

4.5 SYNCHRONISING AN AREA MANAGER ON THE PORTAL (CONTINUED)

On the Area Manager details page, click on the icon at the top right of the page to synchronise:



5. RULES MANAGEMENT


5.1 CREATION OF A RULES MODEL

A rules template is a common template that can be used and assigned to several sites. To access it, simply go from the main menu of the integrator area to [Modèles](#) then [Modèles de règle](#)



5.1 CREATION OF A RULES MODEL (CONTINUED)

This is where you will find all the templates you have created for use on the various customer sites. This is your rules library.

Click on  at the top right of the screen to create a new template.



Modèle de règles

Informations principales

Nom*

Description

Règle active

Règle de formule

Ici, créez la formule de votre règle. Toutes les conditions, sous-conditions et règles peuvent être glissées et déplacées.
Exemple : Si (le capteur de contact de la fenêtre) (est égal à) (ouvert) ALORS réglez le (mode CVC) sur (off).

Si Tous les conditions suivantes sont vraies:

Sensibiliser un Opérateur & Sensibiliser un Opérateur & Sensibiliser un Opérateur

Alors, exécuter les commandes suivantes:

Changer La Commande

A creation pop-up will open, allowing you to :

1. Enter the name of the template
2. Write a description
3. Define the logic of your rule.

The name can be changed later when it is assigned to the site, so it is advisable to be as generic as possible.

Here are some examples :

- Window Open – HVAC Shutdown (rule used to shut down the HVAC system when a window is open),
- Window Closed – HVAC Restart (rule to return the HVAC system to the mode it was in before the window was opened).

When you are assigned to a site, you can customise the name of the rule by writing, for example:

- Window Open – HVAC Off | Training Room
- Window Open – HVAC Off | Management Office

This will make it easier to identify the location where the rule will be applied.

5.1.1 THE STRUCTURE IN GENERAL

The structure is defined by a succession of conditions, followed by a succession of commands to be triggered if the conditions are true.

In terms of conditions, you can :

- Pass conditions as "AND/ALL" (all conditions must be true),
- Convert conditions to "OR/One" (only one condition must be true),
- Add/delete conditions,
- Add subconditions,
- Move conditions up or down to modify the logical order (hierarchy).

To add a condition or sub-condition, click on  :

Modèle de règles

Informations principales

Nom *

Description

Règle activée

Règle de formule

ici, créez la formule de votre règle. Toutes les conditions, sous-conditions et règles peuvent être glissées et déplacées.
Exemple : Si (le capteur de contact de la fenêtre) (est égal à) (ouvert) ALORS régler le (mode CVC) sur (off)

Si Tous = les conditions suivantes sont vraies:

Sélectionnez Un Capteur → Sélectionnez Un Capteur → Sélectionnez Un Capteur →

Alors, exécuter les commandes suivantes:

Créer La Commande

→ AJOUTER UNE COMMANDE

Apporter une condition

Apporter une sous condition

5.1.1 THE STRUCTURE IN GENERAL (CONTINUED)

By clicking on the condition or sub-condition headers, you can modify the condition operator (AND/OR) at any level of the logical chain hierarchy:

The screenshot displays a configuration interface for a logical chain. At the top, it shows a dropdown menu set to 'Tous' and the text 'les conditions suivantes sont vraies:'. Below this, there are two main sections. The first section, labeled 'Si', contains two rows of conditions. The first row is 'Contact Sensor → Egal (=) → Open'. The second row is 'Sélectionnez un Opérande → Sélectionnez un opérateur → Sélectionnez si la Commande'. The second section, labeled 'Alors, exécuter les commandes suivantes:', contains one row: 'Définir La Commande'. At the bottom, there is a button '+ AJOUTER UNE COMMANDE'.

5.1.2 DEFINE THE TYPE OF OPERANDER

Once the combinatorial logic has been set up, a selection of operands and logical operators allows you to set up your different conditions to be checked. To begin, click on **Sélectionnez un opérande** in one of your lines.

The screenshot shows a dialog box titled 'Sélectionnez un opérande'. It has a close button (X) in the top right corner. Below the title, it says 'Choisir le type d'opérande'. There are four buttons: 'Produit', 'Propriété de l'emplacement', 'Date & heure', and 'Fonction'. At the bottom right, there are two buttons: 'RÉINITIALISER' and 'VALIDEZ LA COMMANDE'.

We can work with :

- A product,
- A location property,
- A notion of date and time

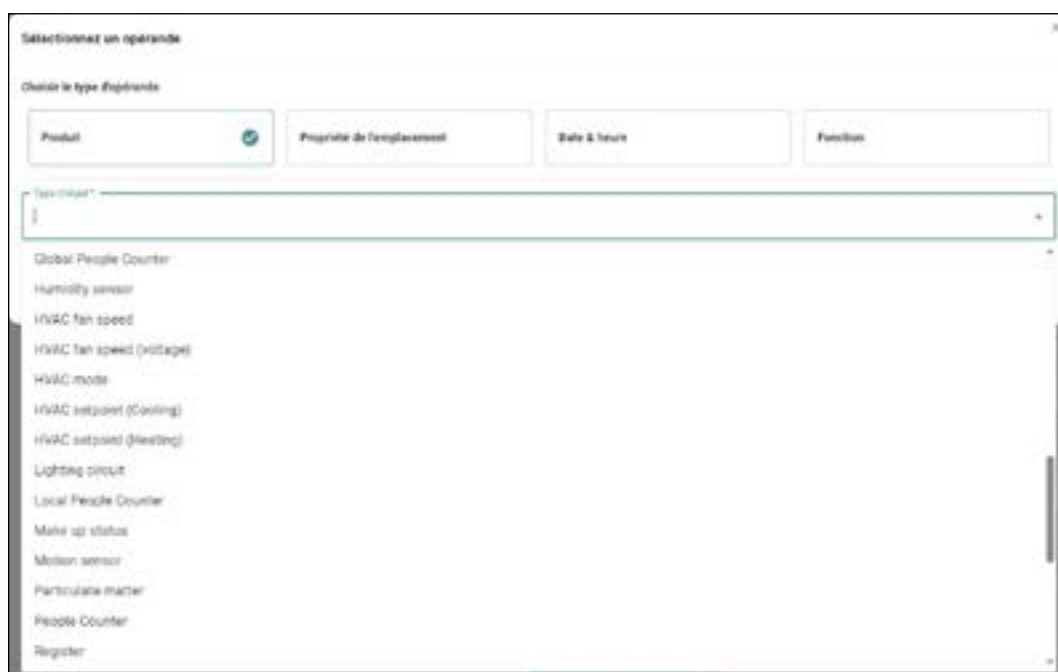
Click on **VALIDEZ LA COMMANDE**

5.1.2 DEFINE THE TYPE OF OPELANDER (CONTINUED)

• **Product**

Here you will find all the properties of the products in the ecosystem:

- HVAC Setpoint Cooling
- Switch
- Temperature sensor
- Windows contact sensor
- Etc.



- Product: Compare the value of a property of product A with the same property of product B,
- Value: check the state/value of a particular product property.

Example :

To check whether the state of a window is equal to "open":

- In the first Operand box (on the left), select "Object type" -> Window contact sensor,
- In the "Equal" operator, see the operator section,
- In the 3rd square, right operand, select "Value" -> Open.

• **Location properties**

Here you will find all the properties of the ecosystem's locations:

- Occupied
- Door open
- Window open
- Etc.

We can check the status/value of a location property.

5.1.2 DEFINE THE TYPE OF OPERANDER (CONTINUED)

Example :

To check whether at least one window is open in the location:

- In the first "Operand" square (on the left), select "Location property" → Window open,
- In the "Operator", select the value "Equal" (see the Operators section),
- In the 3rd square, "Operand" on the right, select "Value" → Yes.

As a reminder, when working on a location property, from the moment you have a window open, then the location property is true. However, to check that they are closed, all the windows associated with the location must be closed.

• Date & Time

To create time conditions, you can work directly on a notion of time in order to create a time schedule.

In the operand on the right, select whether you are working with minutes, hours, days, years, months, etc. And insert the appropriate information.

Example :

Check a condition if it is after 7pm:

- In the first operand square (on the left), click on "Date & Time".
- Select the operator (>, = or <)
- In the operand on the right, select "time" with the value 19:00 (hh:mm).

Note:

For more complex rule scheduling, use the scheduler (see Rule Scheduler section).

5.1.3 DEFINING THE OPERATOR

Once the first "operand" has been chosen, click on "Select an operator" to choose the comparator:

• Classical operators

The various classic logical operators can be selected from the list:

- Equal,
- Different,
- Greater,
- Less,
- Greater than or equal to,
- Less or equal.

5.1.3 DEFINING THE OPERATOR (CONTINUED)

For each of the classic operators, additional options allow you to include a certain notion of time:

The "Minimum validity period" option:

Allows you to check whether the value of the product has remained the same for x seconds.

Example: Have the windows been open for more than 30 seconds?

- Set left operand to zone or product → Object type → Window contact sensor,
- Set the operator to "Equal" and insert "30" at the "Minimum validity time" level,
- Set right operand to Value → Open.



• Specific operators

You can also choose 2 more specific concepts:

Modified at least N times:

This means checking whether a property has changed at least N times since this rule was last triggered.

- Click on **VALIDEZ L'OPÉRATEUR**,

- In the right-hand operand, define "N"

Note:

You can also check whether a product property has changed, for example a window has not changed value in one morning. To do this, simply set "N" to 0.

5.1.3 DEFINING THE OPERATOR (CONTINUED)


Changed a maximum of N times:

In other words, check whether a property has changed a maximum of N times since this rule was last triggered.

- Click on **VALIDEZ L'OPÉRATEUR**,
- In the operand on the right, define the "N".

5.1.4 COMMAND TRIGGER

Triggering an order enables one or more actions to be carried out once the conditions defined above have been met, such as triggering a product and sending a notification.

You can modify the order and/or delete an order by clicking on .

Règle de formule

Ici, créez la formule de votre règle. Toutes les conditions, sous-conditions et règles peuvent être glissées et déplacées.
Exemple : Si (le capteur de contact de la fenêtre) (est égal à) (ouvert) ALORS réglez le (mode CVC) sur (off)

Si: Tous les conditions suivantes sont vraies:

Et

Et Si: Tous les conditions suivantes sont vraies:

Alors, exécuter les commandes suivantes:

+ AJOUTER UNE COMMANDE

CRÉER LE MODULE DE RÈGLE

Different types of order can be defined by the following actions:

- Trigger a product,
- Store the value of a product,
- Send user reports,
- Block/unblock one or more rules.

5.1.4 COMMAND TRIGGER (CONTINUED)

The screenshot shows a configuration interface with two rows of controls. The first row has a text input field containing '0' and a label 'secondes' to its right. The second row features a toggle switch on the left, currently turned on, with the text 'Répéter le déclenchement de produit' next to it. To the right of the toggle is another text input field containing '60' and a label 'secondes' to its right.

Rule execution management :

À once the rule's conditions have been met, it becomes "triggered".

there are 3 possible options:

- The command is executed directly (delay set to 0),
- The command is executed with a delay in seconds defined in the model (delay other than 0),
- The command is repeated as long as the rule is triggered/true ("repeat" box ticked).

Note:

Commands are executed only once and will be re-executed when the rule conditions change back to "false" and then back to "true". If the "Repeat device triggering" box is ticked, the commands will be executed several times.

▪ **Trigger product**

The "Trigger a product" command is used to select any controllable property of the ecosystem (switch, HVAC mode, set point, fan speed, flag ...) and to change its state.

The screenshot shows a 'Nouvelle commande' (New Command) configuration window. At the top, it says 'Veuillez choisir un type de commande' (Please choose a command type). Below this are four buttons: 'Déclenchement de produit' (selected with a checkmark), 'Stockage de valeur de produit', 'Rapport', and 'Blocage de règle'. Underneath is a dropdown menu for 'Type d'objet' (Object type) with 'Switch' selected. Below that is a dropdown for 'Action' with 'Switch off' selected. To the right of the 'Action' dropdown is a 'Type de valeur' (Value type) section with two radio buttons: 'Fixe' (selected) and 'Basé sur une fonction'. At the bottom left is a 'Delay' field with '0' and 'secondes' label. At the bottom right is a 'Répéter le déclenchement de produit' (Repeat triggering) checkbox, which is currently unchecked. At the very bottom are two buttons: 'RÉINITIALISER' and 'VALIDER LA COMMANDE'.

5.1.4 COMMAND TRIGGER (CONTINUED)

Once selected, you must :

- Define the object type (HVAC Mode, switch ...),
- Define the action (depending on the type of object, for example a set Mode, switch ON/OFF ...),
- Define the value (ON, OFF, Cooling Heating...). This will depend on the type of object and the action selected),
- Click on **VALIDEZ LA COMMANDE**.

• **Store Value**

The store value command is used to store the state of a product, so that it can be restored when required, for example when you want to switch off the HVAC system if windows are open. Before switching off the HVAC, we will store the mode it was in so that we can restore it when the windows are closed.

Once the store value command has been selected :

- Define the object type (HVAC Mode, switch ...),
- Define action, store or restore,
- Define the delay option if required,
- Click on **VALIDEZ LA COMMANDE**.

Nouvelle commande

Veuillez choisir un type de commande

Declenchement de produit Stockage de valeur de produit ✓ Rapport Blocage de regle

Type objet *

HVAC mode

Action *

Restaurer

Stocker

☐ Répéter le declenchement de produit

RÉINITIALISER VALIDEZ LA COMMANDE

• **Report**

The report command is used to send a customisable user report template which will be visible on the mobile application.

Once the report command has been selected, simply :

- Select the report template,
- Define the delay option if required.

5.1.4 COMMAND TRIGGER (CONTINUED)

Nouvelle commande X

Veuillez choisir un type de commande

Déclenchement de produit

Stockage de valeur de produit

Rapport ✔

Blocage de règle

Modèle de rapport * ▼

Délai
 0 secondes

Répéter le déclenchement de produit

Réinitialiser
Valider la commande

▪ **Block rule**

The Block rule command is used to "block" and "unblock" a rule according to certain predefined conditions.

Nouvelle commande X

Veuillez choisir un type de commande

Déclenchement de produit

Stockage de valeur de produit

Rapport

Blocage de règle ✔

Action * ▼

Durée * secondes

Délai
 0 secondes

Répéter le déclenchement de produit

Réinitialiser
Valider la commande


5.1.4 COMMAND TRIGGER (CONTINUED)

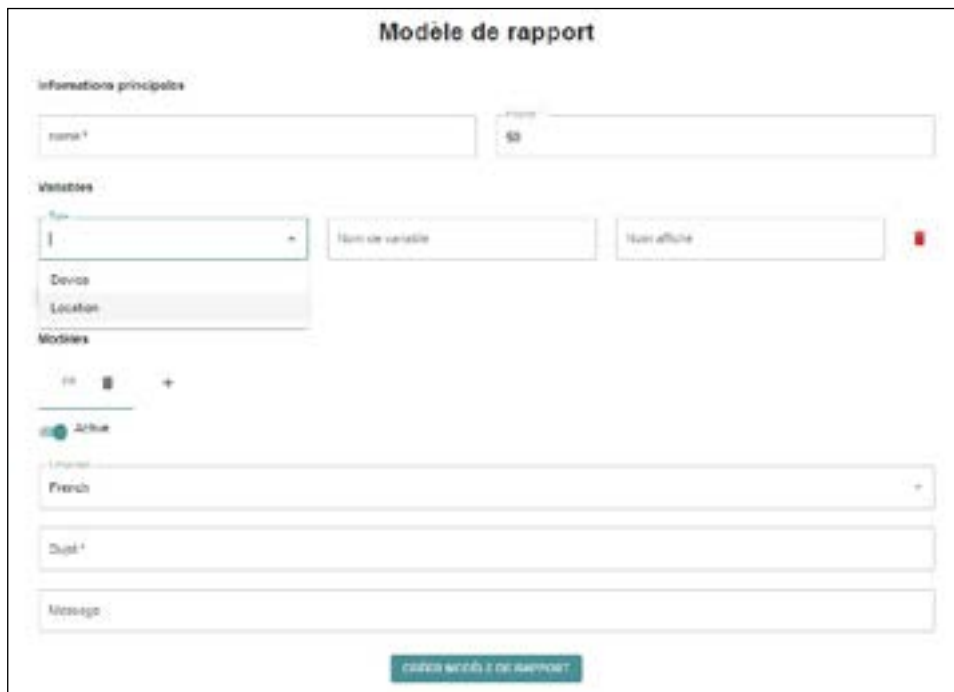
- Action: Block and Unblock,
- For: blocking/unblocking time.

5.2 REPORT MODELS

In order to use report templates in the rules, a report template must first be created.

User report templates can be used to create customisable message bodies to be sent to the Building + Manager mobile application.

Go to the report template creation menu and click on  to create one:



Modèle de rapport

Informations principales

nom* ID

Variables

Type Nom de variable Nom affiché

Device
Location

Modèles

Actif

Langue

Dupli*

Message

Créer modèle / OK

5.2 REPORT MODELS (CONTINUED)



On this screen, you can assign a name, a priority index, define variables that will take the name of the product or location concerned by the alert, and define the body of the message with a multi-language option:

It is possible to create a general message, which, depending on the site attached, will take into account the name of the right product as well as the location. To do this, simply :

- Click on the in Variables,
- Define the Type: Product or Location,
- Define the Variable Name,
- Define the Name displayed when you want to assign the rule to a site,
- In the body of the message, write the following syntax: `{{Variable name}}` or in this example, the relevant sensor: `{{device.name}}`. Depending on the site, this will give the correct product name.


5.3 ASSIGNMENT AND MANAGEMENT OF RULES ON THE SITE

To assign a rule defined in our library to a particular site, simply :


- Go to  Sites
- Select the desired site,
- Go to the tab 



This is where you can :

- View the various rules associated with the site,
- View which Area Manager the rule is associated with,
- Manage their ON or OFF status
- Add new rules by clicking on 
- View details by clicking on the desired line (History of rule activity),
- Modify an existing rule by accessing its details.

5.3 ASSIGNMENT AND MANAGEMENT OF RULES ON THE SITE (CONTINUED)

Once you have clicked on  you must :

- Enter the floor of the Area Manager you are looking for,
- Select the single Area Manager you want,
- Select the rule you wish to assign,
- Select the products associated with this rule.

Note:
Only one rule template can be assigned at a time.



Please note:

For the rules created and active to be taken into account, don't forget to synchronise the Area Manager concerned (see Area Manager synchronisation section).

5.4 ASSIGNMENT OF MASS RULES


One or more rule templates can be assigned en masse to one or more Area Managers: see *chapter Grouped creation and management, section Rules*.

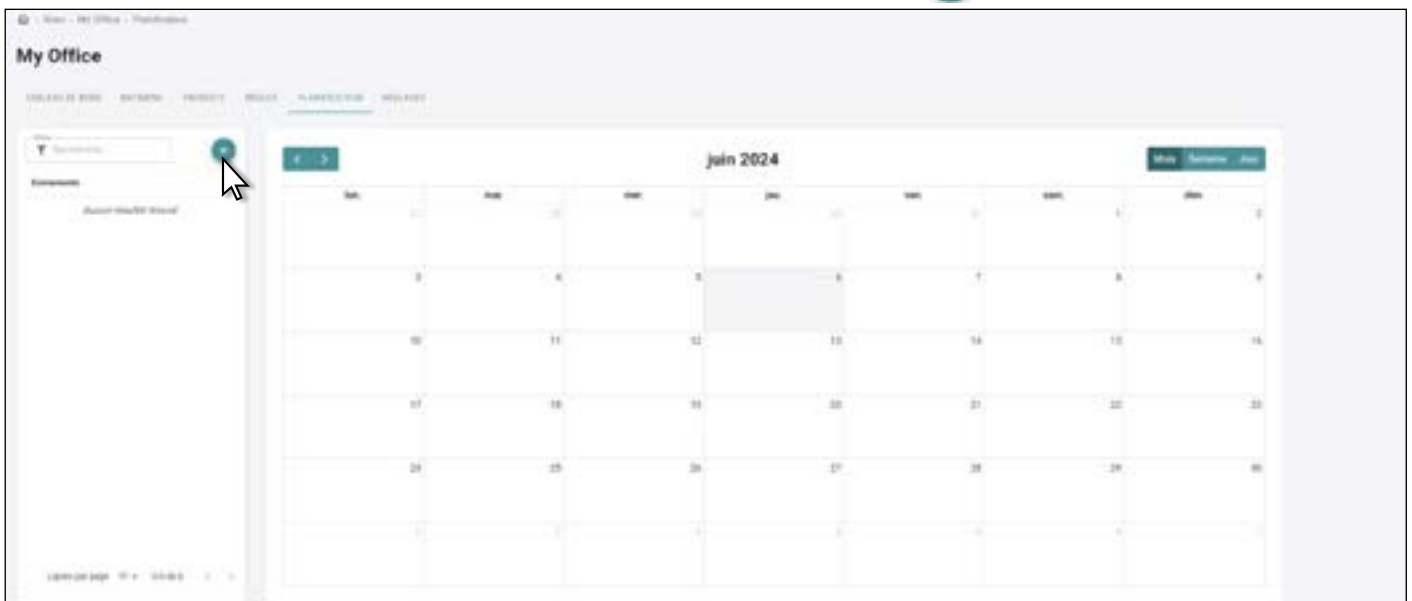
5.5 RULES PLANNER

As mentioned in the Date and Time section (see section *Defining the operand type*), the rule scheduler can be used to schedule the activation/deactivation of rule execution.

Remember: only rules with the "Default inactive rule" box ticked can be scheduled.

To do this, when you are on a site, click on the **PLANIFICATEUR**.

Then create events to schedule the activation and/or deactivation of a rule by clicking on  to the right of "Events":



The following window appears:

Nouvel événement

Informations Principales

Titre*

Jour de la semaine Mois Jour Semaine

Date de début Date de fin Début Fin

Exclusions

Règles

Toutes les règles sélectionnées seront activées/désactivées et écraseront la sélection de modalités de règles ci-dessus.

Activer (0)

Désactiver (0)

5.5 RULES PLANNER (CONTINUED)

The following fields must be completed (only fields with a * are compulsory):

- **Name*** name of the event,
- **Day of week** used to select the days on which the event is applicable,
- **Month** month: Used to select the months to which the event applies,
- **Day** [u2022] Day: Used to select the N° of days to which the event applies,
- **Week** week: Allows you to select the N° of weeks over which the event applies,
- **Start date*** used to select the day on which the event starts,
- **End date** used to select the day on which the event ends.
- **Start time*** used to select the time at which the event starts.
- **End time*** used to select the time at which the event ends.
- **Exclusions** in the "Exclusions" section, you can indicate one or more periods for which the event will not apply (Day of the week, Month, Day and Week affected by the exclusion).

Nouvel évènement

Informations Principales

Nom*

Présence

Day of week: 7 sélectionnés | 12 sélectionnés | 3 sélectionnés | 12 sélectionnés

Month: 15/03/2024 | 15/03/2024

Day: 07:00 | 20:00

Exclusions

Day of week: 7 sélectionnés | 12 sélectionnés | Jour | Semaine

Règles

Toutes les règles sélectionnées seront activées/désactivées et influencer la sélection de modèles de règles ci-dessus.

Activer (0)

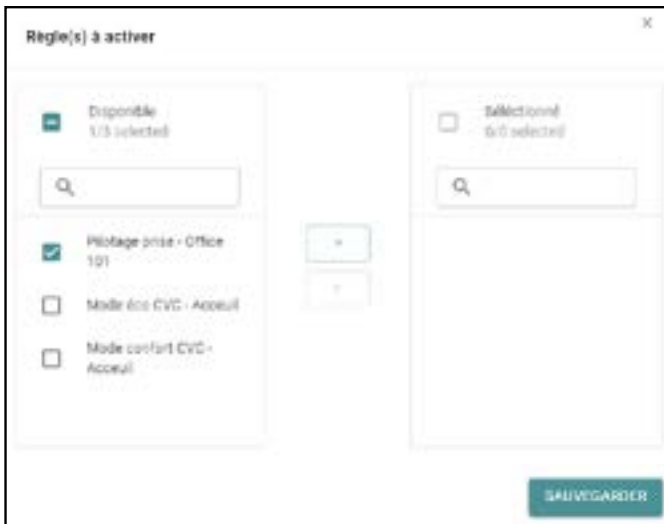
Désactiver (0)

Créer


- **Rules** allows you to select the rules that will be activated and/or deactivated over the period of the event created.

Click on

5.5 RULES PLANNER (CONTINUED)



When you have finished, click **SAUVEGARDER** to validate the rule schedule.

The scheduled events will then appear in the events banner and in the calendar view. Scheduled events can be modified, duplicated and deleted by clicking on .

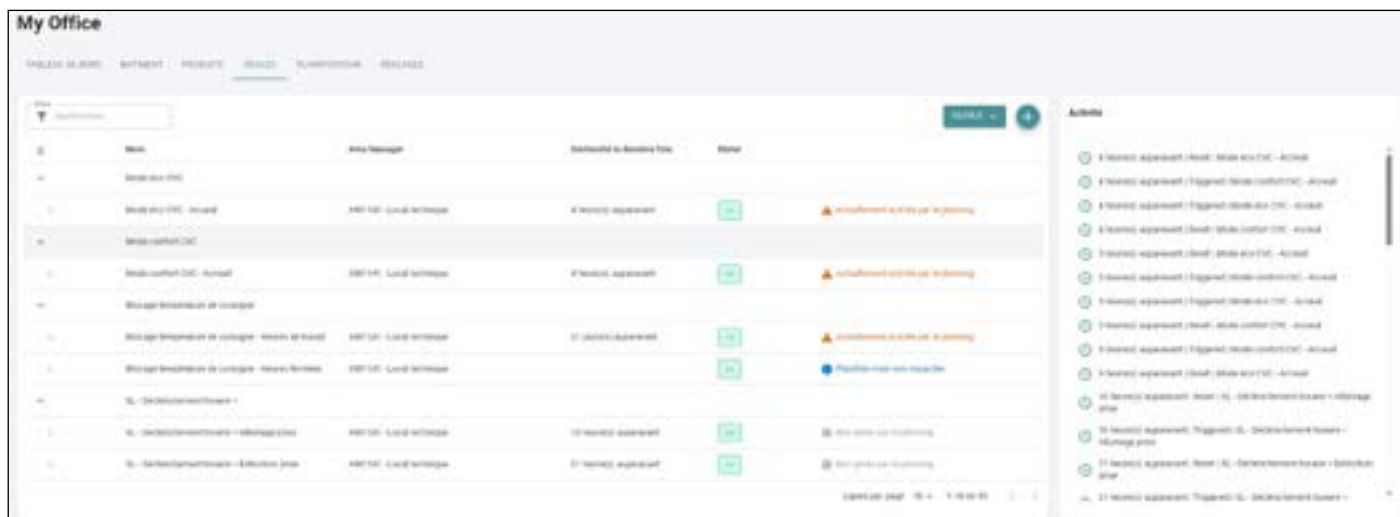


Please note:

For the rules created and active to be taken into account, don't forget to synchronise the Area Manager concerned (see Area Manager synchronisation section).

5.5 RULES PLANNER (CONTINUED)

When a rule has been triggered (in this case, the air conditioning was switched off when the window was opened), information about the last time the rule was executed will be displayed, along with the history of its execution.



You will also find this information in the properties of products that have been triggered by a rule, as opposed to a manual trigger.

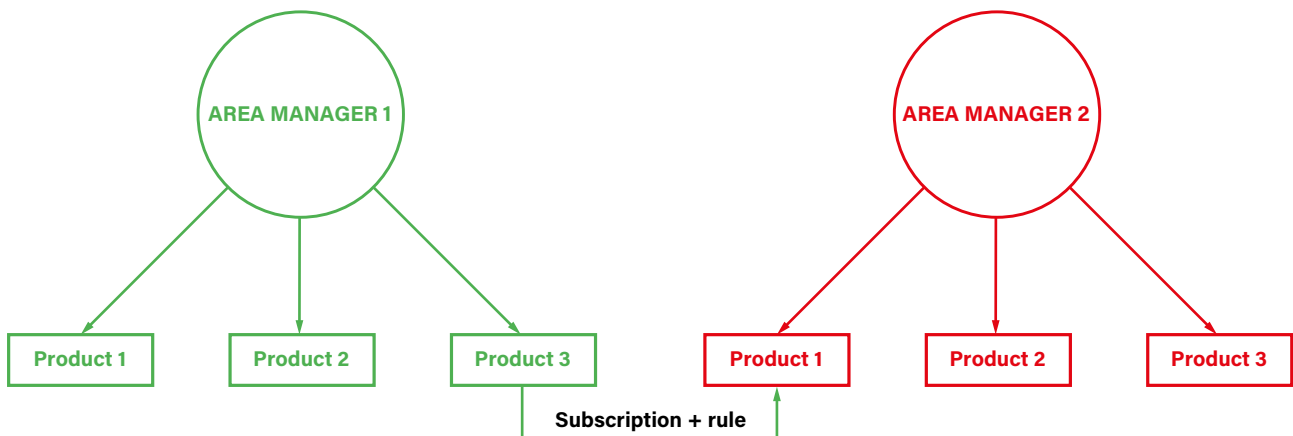


Warning:
For the rules created and active to be taken into account, don't forget to synchronise the Area Manager concerned (see section Area Manager synchronisation).

6. SUBSCRIPTION

6.1 PRODUCTS

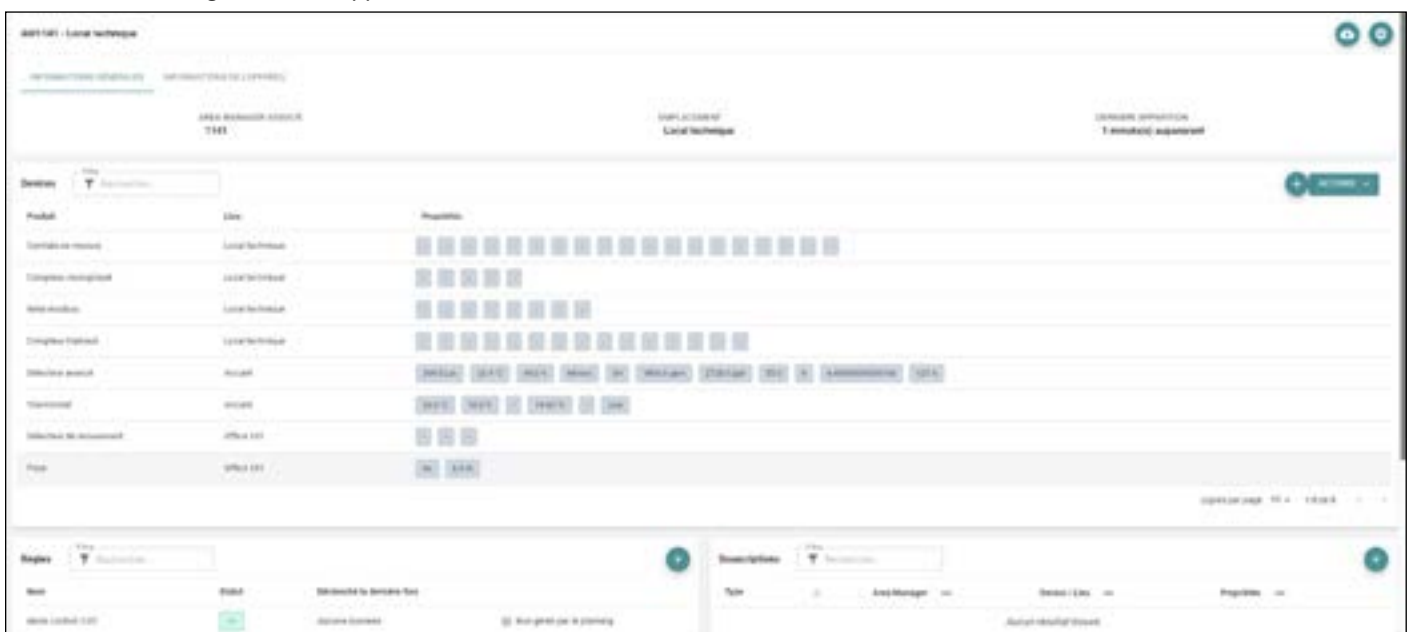
In some cases, it may be necessary to be able to retrieve product parameters linked to an Area Manager in order to use them in a rule (in a condition or sub-condition) which will affect the order of one or more other products linked to another Area Manager.




Here, we want a parameter in product 3 (Hvac_mode of a thermostat) linked to Area Manager 1 to change a parameter in product 1 (control of a switch) linked to Area Manager 2.

To do this

- Create a subscription from Area Manager 2 for the parameter of product 3 linked to Area Manager 1;
 - 1) Click on the tab **PRODUITS**
 - 2) Click on the Area Manager 2 line,
The Area Manager 2 details appear:



6.1 PRODUCTS (CONTINUED)

3) Then click on  next to "Subscription":

- **Floor** select the level on which the product to be underwritten is located,
- **Area Manager** select the Area Manager to which the product to be subscribed is linked,
- **Product** select the product to subscribe to,
- **Properties** select the parameter(s) to subscribe to. The parameters will depend on the product subscribed to,
- Click on **ENREGISTRER LA SOUSCRIPTION** to validate the subscription.

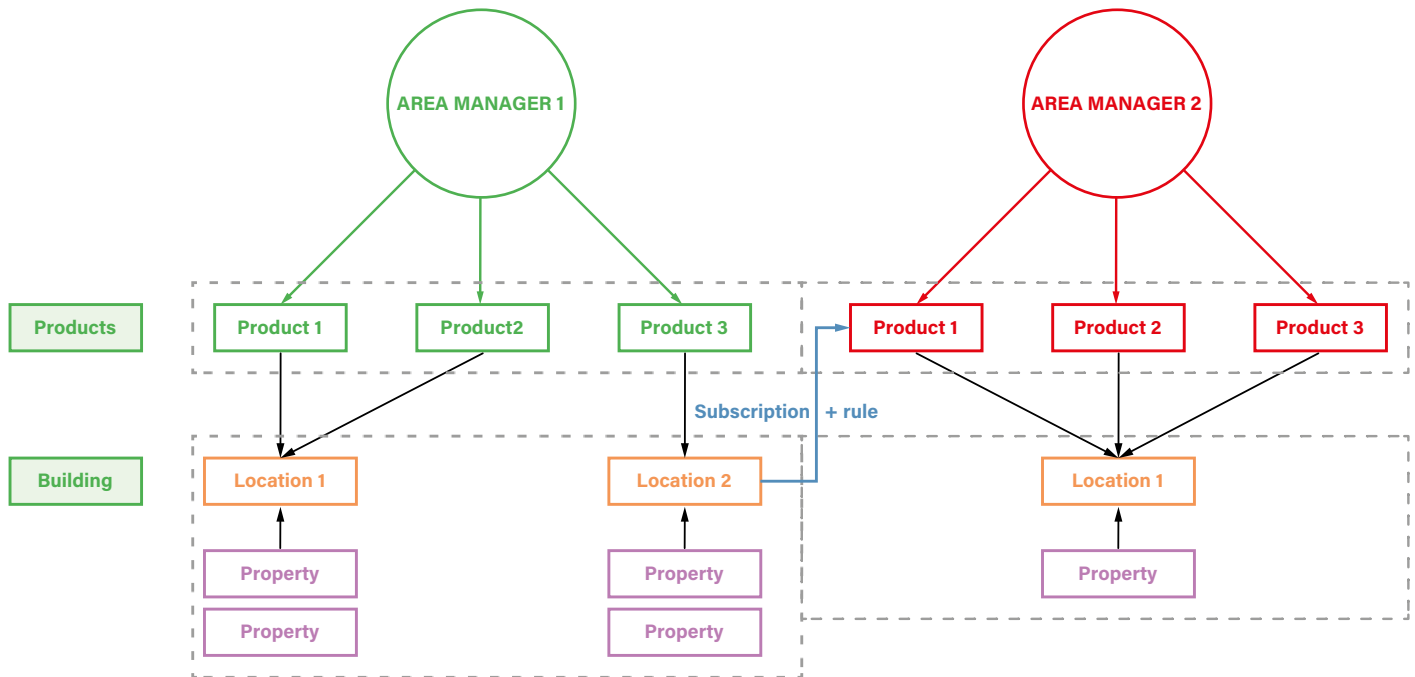
You will see an overview of active subscriptions in the right-hand section of the Area Manager "Subscription" details.

Type	Area Manager	Device / Lieu	Propriétés
Devices (1)	Area Manager - 1563	Multi broadcast test	Eclairage Présence

Once we've completed the subscription stage, we can now use the parameter of the product we've subscribed to in a rule as a condition or sub-condition.


6.2 LOCATIONS

In some cases, it may be necessary to be able to retrieve location properties linked to an Area Manager in order to use them in a rule associated with another Area Manager.



Here, we want property 1 of location 2 linked to Area Manager 1 to change the property of product 1 linked to Area Manager 2.

To do this

- From Area Manager 2, create a subscription for slot 1 linked to Area Manager 1;
 - 1) Click on the tab **PRODUITS**
 - 2) Click on the line for Area Manager 2,
The details for Area Manager 2 appear.
 - 3) Then click on  next to "Subscription":

The screenshot shows the 'Nouvelle souscription' form. It has a title 'Nouvelle souscription' and a play button icon. It has two sections: 'Type de souscription' with 'Postul' and 'Emploiment' (selected) buttons, and 'Information générale' with 'Niveau 1' and 'Emploiment 1' dropdown menus. A 'Val' button is at the bottom right. A 'PARAMETER LA SOUSCRIPTION' button is at the bottom center.


6.2 LOCATIONS (CONTINUED)

- **Floor** select the floor,
- **Location** select the location to subscribe to,
- Click on **ENREGISTRER LA SUBSCRIPTION**.

By default, by subscribing to the location, you will have access to all the properties of the location, as well as a view of active subscriptions in the right-hand section of the Area Manager "Subscription" details.


Having completed the subscription stage, you can now use the subscribed location property in a rule as a condition or sub-condition.

Once the rule template has been created :

- 1) Click on the tab **PRODUITS**
- 2) Click on the desired line next to Area Manager 2,
- 3) Click on  in the "Rule" box
- 4) Select the previously created rule (see section Assigning a simple rule)
- 5) Select the subscribed location operand, then "Validate the command".
- 6) Select the product trigger command, then "Confirm the command".
- 7) Validate the rule then synchronise the Area Manager.

7. USE OF SITE DATA

7.1 VERIFICATION OF AREA MANAGER

Once the Area Manager has been physically installed, connected and associated with the Area Manager defined in the portal, you can check that it is correctly configured by going to  **Area manager** .

You should find the following information:

- Area Manager number (Area Manager ID),
- Link between the physical Area Manager and an Area Manager defined in the portal (Linked Area Manager),
- Site to which the Area Manager belongs (Site).

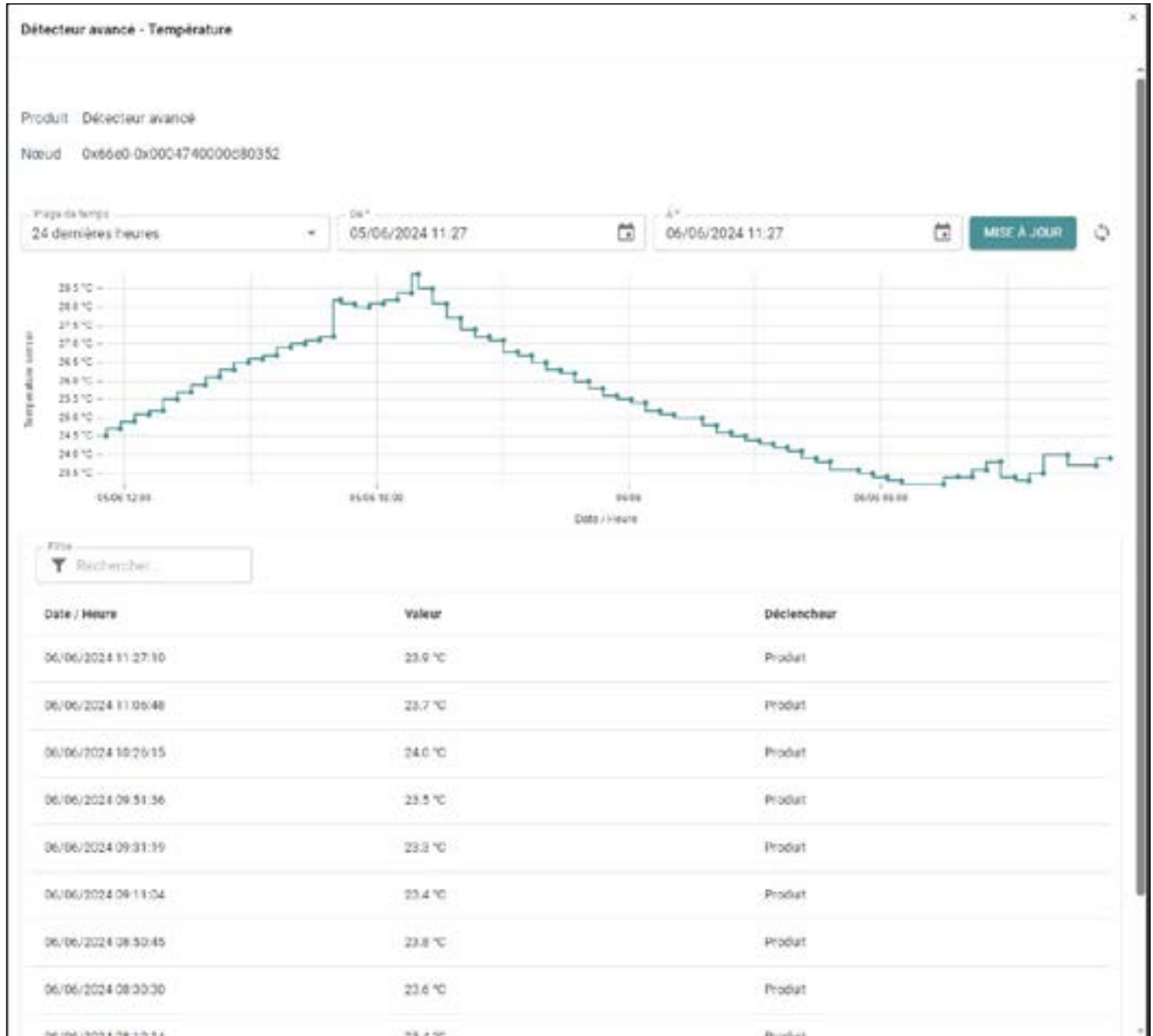


Identifiant Area Manager	Area Manager LIK	Site
1541	AM1151 - Local technique	My Office
1555	Relais	Relais
1470	Relais	Relais
1480	Relais	Relais
1481	Relais	Relais

If this information is correct, then your Area Manager is correctly configured.

By clicking on the line, you can find the Wi-Fi information, Area Manager password, etc.

7.2.2 PRODUCT DATA (CONTINUED)



7.3 BUILDING INFORMATION

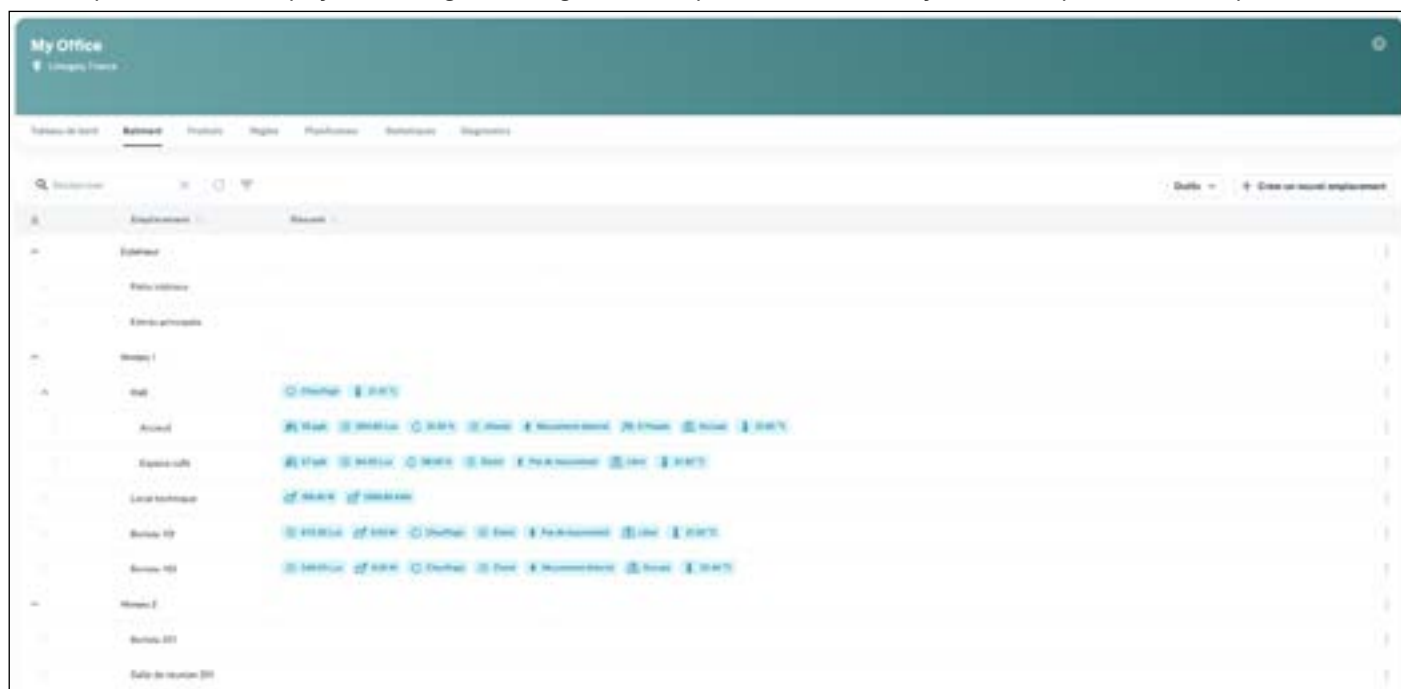
7.3.1 PLACE DATA

The second tab **BATIMENT** allows you to view the hierarchical structure of your building. It shows the different levels and locations (different spaces, etc.).

It also gives you an overview of the important information sent back by all the sensors in the different locations, such as temperature, humidity, lighting control status, HVAC system status, status of doors, windows, etc. .

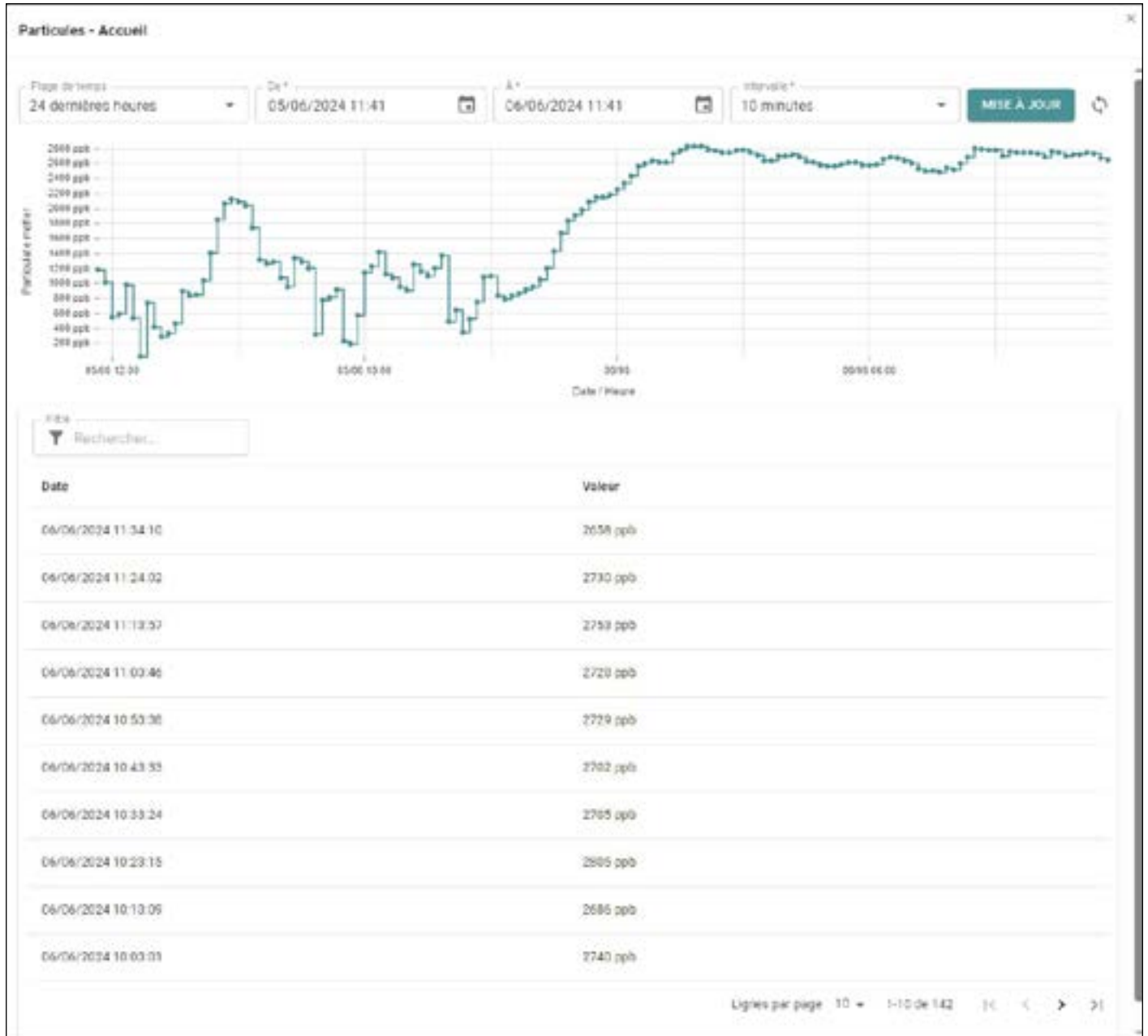
This list of location properties is automatically scaled according to the products in the locations. What's more, the icons can change depending on how the product has been configured (for example, a sash sensor will have a different icon depending on whether it has been defined as a window or door sensor).

These properties are an aggregate of the product properties; in other words, at space level, there will only be one icon for the window opening status, even if there are several windows equipped in the room. As soon as a window is open, the icon will change colour. The temperature is also displayed, showing the average of the temperatures measured by the various products in the space.



7.3.1 PLACE DATA (CONTINUED)

By clicking on the property, you will have access to all the latest status changes, with the dates and times of the changes and the various property values.



To best define the x-axis, simply enter :

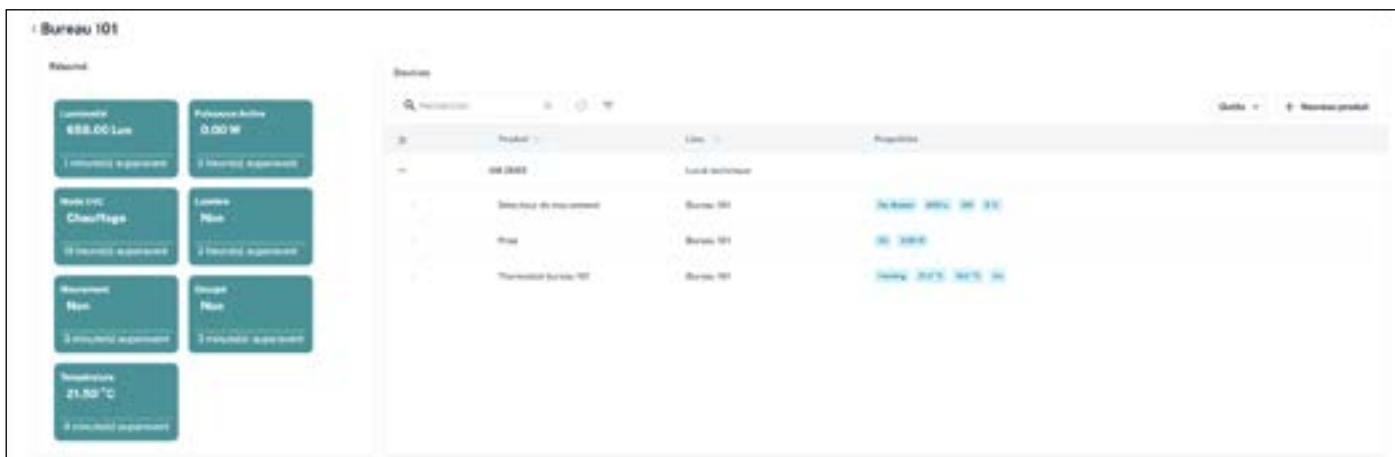
- The time range (minutes, hours, days...)

Or a custom range by entering :

- Start date/time,
- End date/time,
- The interval (minutes, hours, days...),
- Then click on **MISE À JOUR**.

7.3.2 DETAILS OF THE LOCATIONS

To access the details of each location, simply click on the corresponding line.



This view allows you to view both the properties of the location and the properties of the products that make it up.

7.4 STATISTICS

In order to analyse and compare product values, a tab **Statistiques** tab is available on each site:



There are 3 important pieces of information that need to be entered in order to analyse and retrieve the data :

- The range of dates and times used to configure the x-axis,
- The locations concerned by the analysis of values,
- The ordinate axis, used to display the properties of interest (temperature, power, brightness...).

7.4 STATISTICS (CONTINUED)

Date and time range :

To best define the abscissa axis, simply enter :

- The time range (minutes, hours, days ...),

Or a custom range by entering :

- The start date/time,
- The end date/time,
- The Interval (minutes, hours, days...),

The locations concerned :

Here you can select one or more locations (for example, display the temperatures of all the offices on a floor) or compare different locations (for example, compare the temperature trends of the offices on the north side with those on the south side).

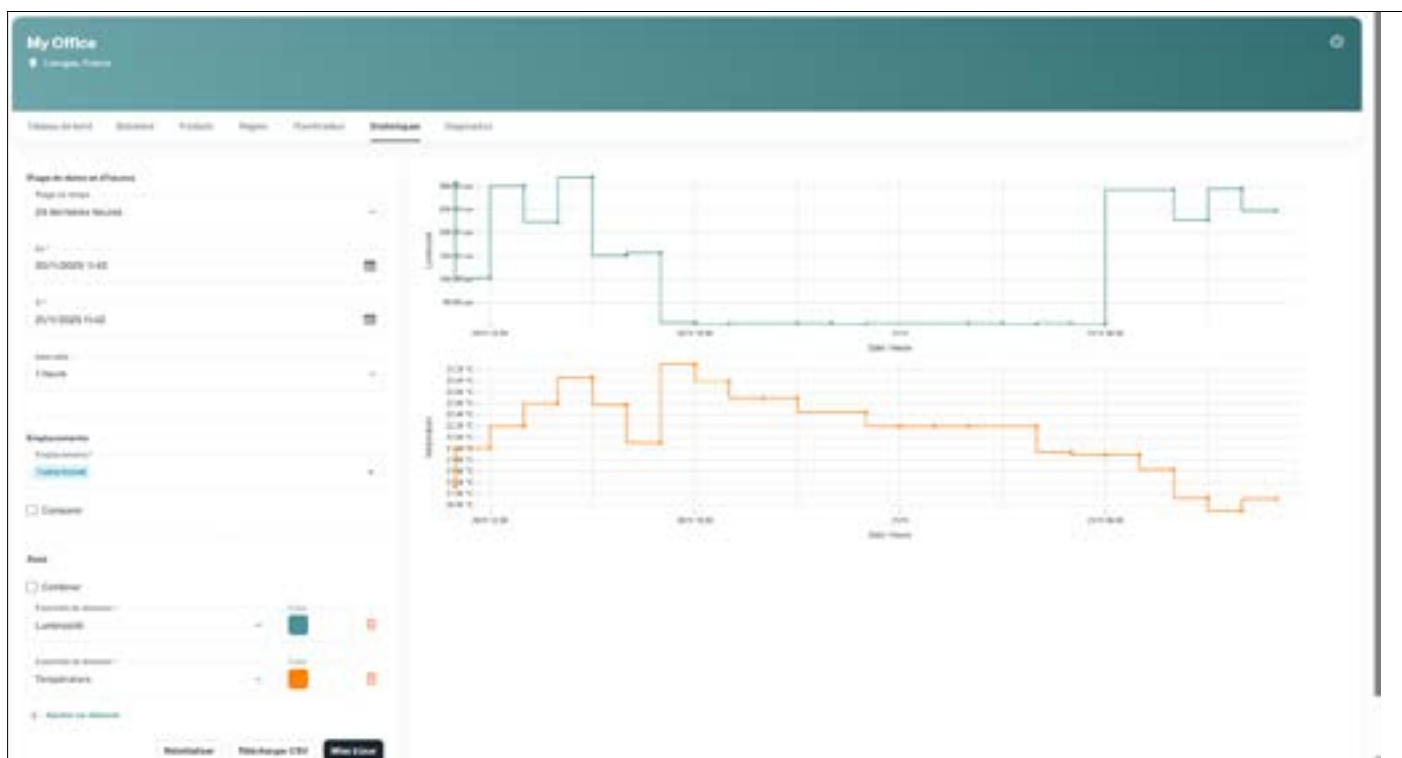
The axis (information to be displayed):

Finally, the last part concerns the various items of information you wish to retrieve. All product properties can be interpreted and analysed. It is possible to combine several variables to obtain, for example, the change in temperature in the offices in relation to the change in temperature outside. There is no limit to the number of variables displayed in the graph.

In terms of settings, it is possible to :

- Choose the colour of each curve,
- Choose whether you want to display the information on a single graph or on several graphs (if you tick the combine/associate box, all the information will be displayed on a single graph).

7.4 STATISTICS (CONTINUED)




Note :

All the information can be downloaded in .csv format, so you can carry out more precise analyses if required. Simply click on "Download".

8. SITE CONFIGURATION AND OPERATING ACCESS

8.1 CHANGES OF THE SITE

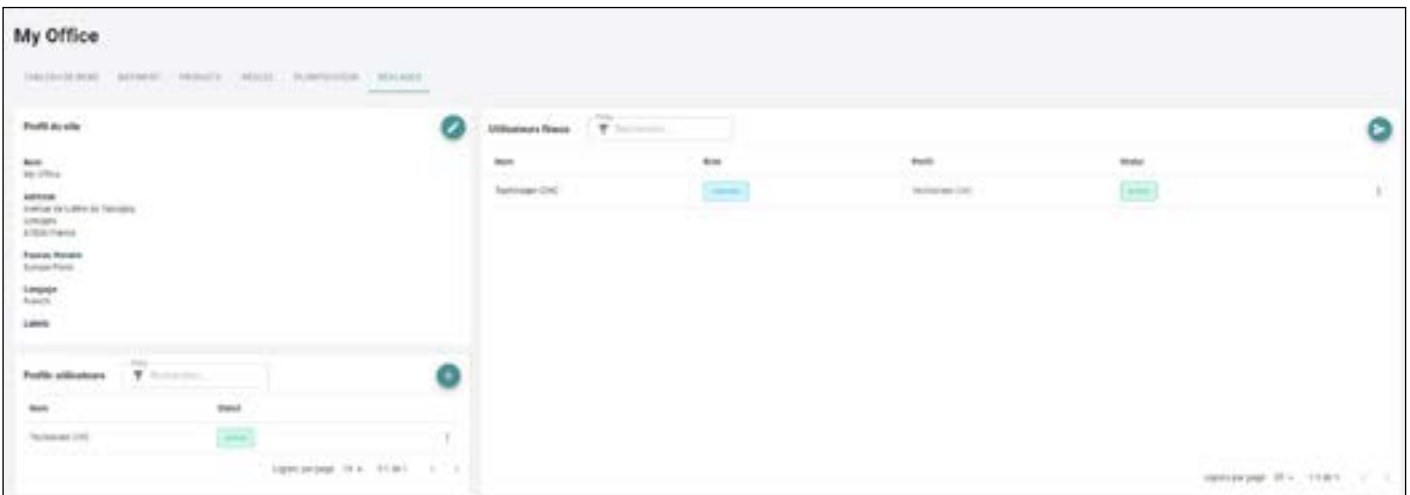
To modify the general information about a site, click on the  button in the box at the top of the page:



You can then change the general information about location, language, time zone and labels.

8.2 CREATION USER ACCESS

The **REGLAGES** menu also lets you create report groups for users, and invite them to the site.




8.2 CREATION USER ACCESS (CONTINUED)

To create a report group, click on "Add a profile" in the User window.

To invite a user to join your site, enter the email address they used to **register for the Building Manager portal**, determine their role and select a previously created profile (see section [User rights matrix](#) at the beginning of the manual).



8.3 DELETING USER ACCESS

In the **RÉGLAGES** menu, click on the 3 small dots  and delete the selected user.

8.4 SITE DELETION

To delete a site completely, a **SUPPRIMER** button in the site details.



Warning:

This action is irreversible and will delete absolutely everything that has been created for this site.

Modifier un site ✕

Type* Nom*

Adresse*

Labels

Pays* Ville* Code postal*

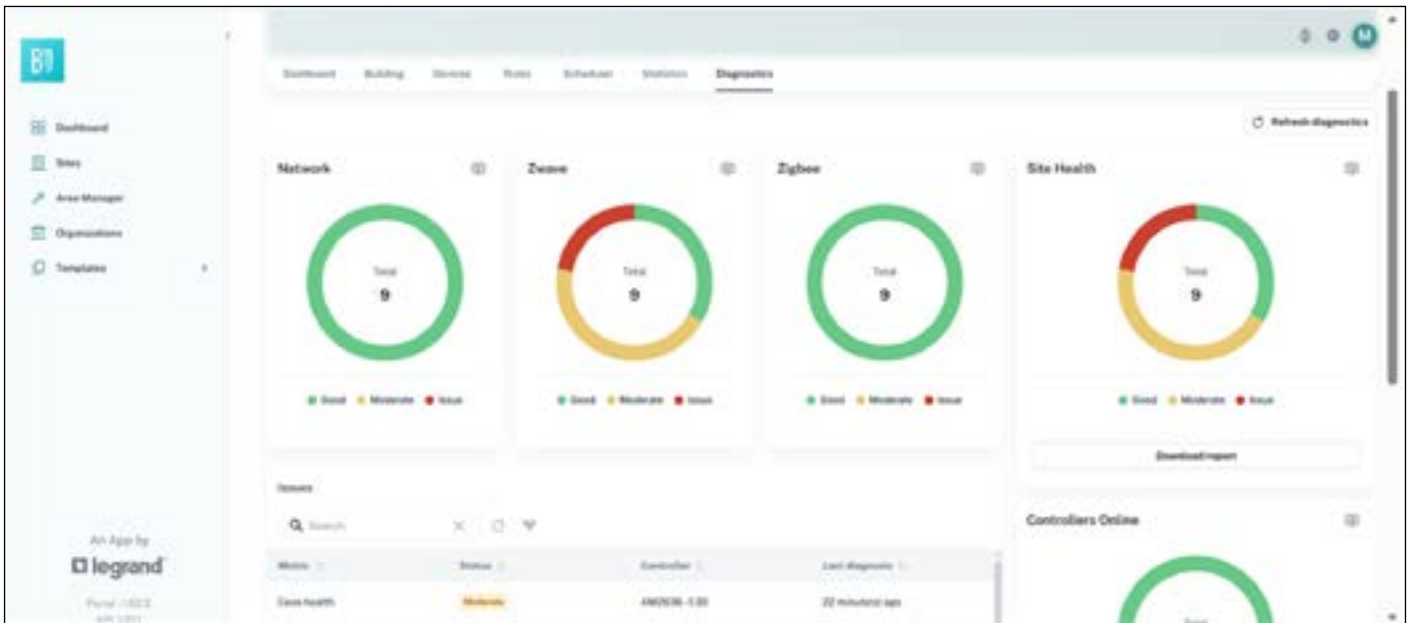
Latitude Longitude Fuseau Horaire

SUPPRIMER **VALIDER**

8.5 DIAGNOSTICS

This menu allows you to check the operational status of the site, including :

- Network connection
- Z-Wave and Zigbee network status
- Modbus communication
- Area Manager connected



Access a list of indications and errors to help you diagnose your installation quickly and reliably.

The screenshot shows a detailed view of the diagnostics table and a 'Controllers Online' gauge. The table has the following data:

Module	Status	Controller	Last diagnosis
Case health	Moderate	AA0006-130	22 minutes ago
Z Wave network health	Moderate	AA0006-130	22 minutes ago
Z Wave device neighboring	Moderate	AA0006-130	22 minutes ago
Z Wave device neighboring	Bad	AA0007-127	22 minutes ago
Z Wave network health	Bad	AA0007-127	22 minutes ago
Case health	Bad	AA0007-127	22 minutes ago
Case health	Moderate	AA0008-129	22 minutes ago
Z Wave network health	Moderate	AA0008-129	22 minutes ago
Z Wave device neighboring	Moderate	AA0008-129	22 minutes ago

The 'Controllers Online' gauge is a circular gauge that is entirely green, indicating all controllers are online. Its legend shows 'all hour' (green), 'all 24 hours' (yellow), and 'over 24 hours' (red).

Use the « Refresh » button to trigger manual diagnostics immediately. Otherwise, the system automatically runs diagnostics at regular intervals. The Diagnostics report can be exported in PDF format.

8.5.1 NEIGHBOURS TABLE

This tool allows you to view the communications between Zigbee and Z-Wave devices, providing a detailed view of the network mesh and the links established between products.

Function access :

The Neighbours table is displayed by selecting an Area Manager from the PRODUCTS view, then opening the Tools drop-down list for that Area Manager.

The screenshot shows a web interface titled 'Neighbours table'. It features a table with multiple rows and columns. Each row represents a device, and each column represents another device. The cells in the table contain symbols indicating the communication status: a green checkmark for direct communication, a red cross for weak or non-existent communication, and a question mark for no information. The table is organized into sections, with 'Zigbee devices' and 'Z-wave devices' listed on the left side. The interface includes search bars and navigation controls at the top and bottom.

Presentation :

The table displays relationships in the form of rows and columns, indicating for each device whether there is direct communication :

- Green symbol: direct communication between the two products
- Red cross: weak or non-existent communication
- Question mark: no information on communication

Recommendation:

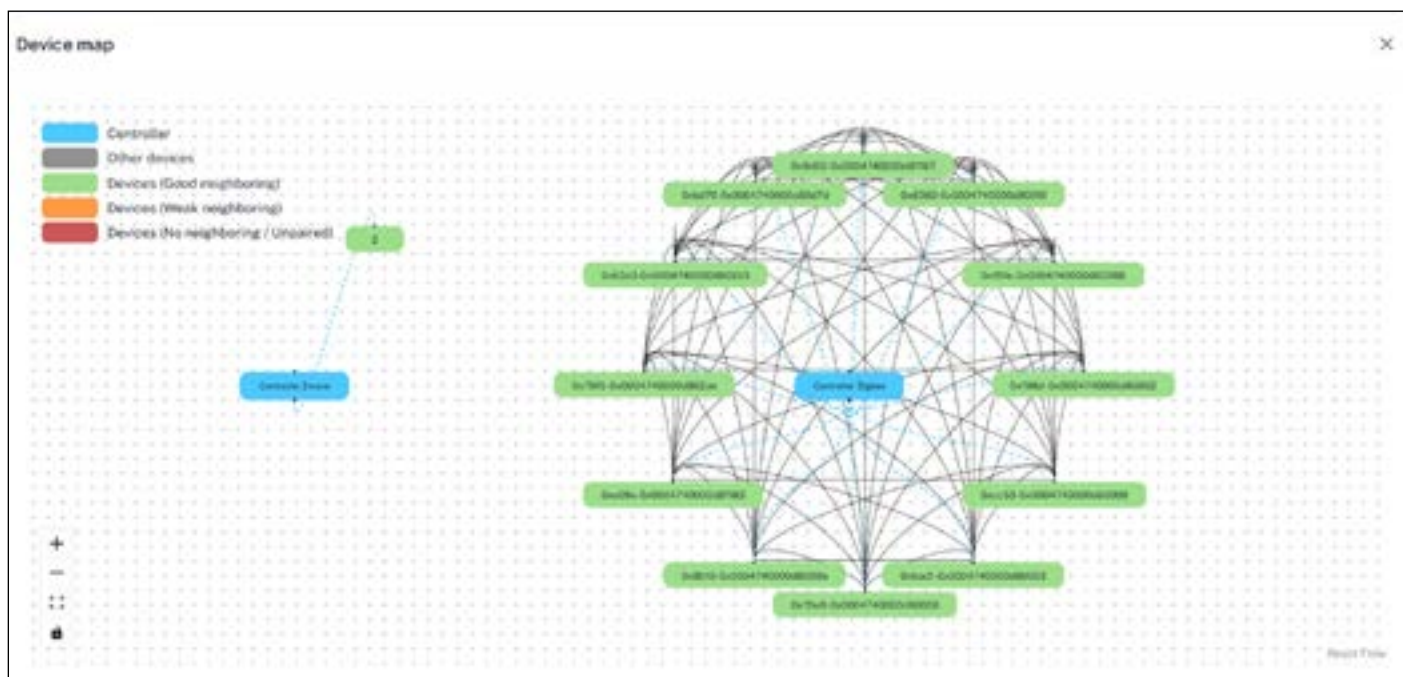
If a product does not have at least two stable links with other devices, it is advisable to review its positioning to optimise the mesh. For a graphical representation of the network, use the Device Map feature, accessible via the dedicated menu. This table is refreshed every 24 hours.

8.5.2 DEVICE MAP

Device Map: Graphical display of the Zigbee/Z-Wave mesh

Accessing the function :

Device Map is displayed by selecting an Area Manager from the PRODUCTS view, then opening the Tools drop-down list for that Area Manager.



The Device Map tool graphically displays the table of neighbours in Zigbee and Z-Wave networks. This view makes it easier to analyse the mesh and the quality of the links between devices.

Colour codes:

- Blue: Zigbee or Z-Wave coordinator
- Green: Product with optimal mesh
- Orange: Weak mesh (limited communication)
- Red: Product disconnected (no active link)
- Grey: Product not paired

Important:

A device in red is no longer communicating with the network.

Recommendations:

Maintain a maximum distance of 15 metres between an Area Manager and the furthest Zigbee/Z-Wave product. u2028]Encourage networking between products to ensure stable and robust exchanges.

9. CREATION AND GROUP MANAGEMENT

There is a way to create and manage site elements in a grouped way to optimise the time needed on the Building Manager portal. All you have to do is :

- Go to **Sites** ,
- Click on the desired site,
- Go to the tab **BATIMENT** ,
- Click on **OUTILS** and choose the desired action.



9.1 GROUPED CREATION



9. CREATION AND GROUP MANAGEMENT (CONTINUED)

9.1.1 AREA MANAGER

You need to :

- Define the Area Manager model,
- Define the name you wish to give to Area Managers,
- Define the locations on which to create an Area Manager by clicking on the desired locations.

At the bottom of the creation window are 2 important options:

- **"Link all devices in a location to the Area Manager for that location".**

Ticking this box allows a direct link to be made between an Area Manager associated with a location and the products associated with that location.

- **"Include all products in all sub-locations".**

Marking this checkbox links newly created products to the location's Area Manager.

← RETOUR

Création groupée

1 Choisir l'équipement — 2 Détails de l'Area Manager — 3 Confirmation

Informations Principales

Modèle
Legrand - Area Manager

Nom

Emplacements *

Réglages généraux

Attendu en ligne

Relier tous les appareils d'un emplacement à l'Area Manager de l'emplacement

Inclure tous les appareils de tous les sous-emplacements

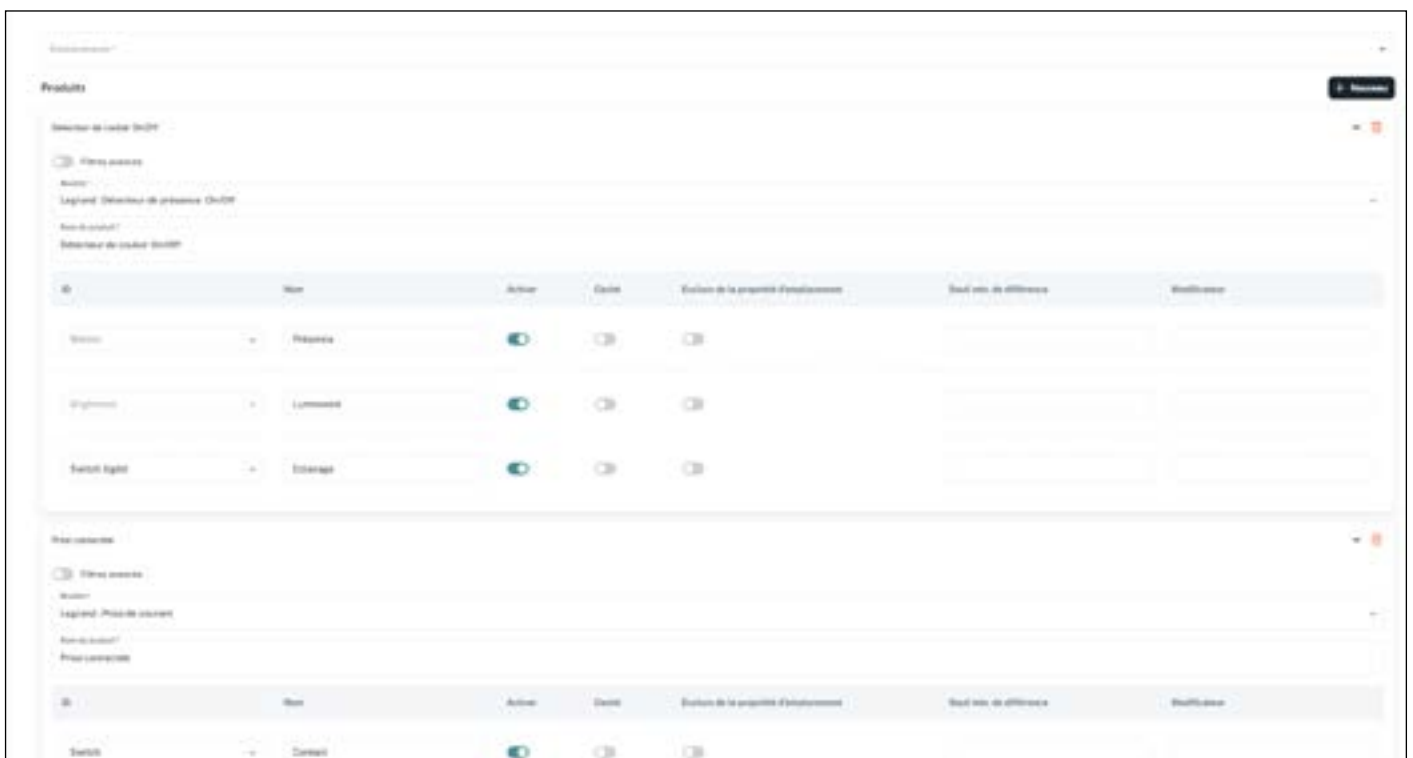
RETOUR SUIVANT

9.1.2 PRODUCTS

The grouped creation tool lets you **to create several products in a single action using the same template on several zones at the same time.**

When you open the product creation tool, a single configuration will be applied to all the selected zones.

If your site has zones with different configurations in terms of products, the creation will have to be carried out several times to cover all cases.



9.1.2 PRODUCTS (CONTINUED)

Example :

Let's take the case of a building made up of 5 individual offices that we want to equip with a thermostat, a presence detector and a connected socket, as well as 2 meeting rooms where we will replace the presence detector with an advanced detector.


We have two options for creating this site:

- Run the creation tool once, selecting the offices and meeting rooms, and defining the common products: 1 thermostat, 1 connected socket. Then run the creation tool again, selecting only the meeting rooms to add the advanced detectors, then repeat the operation, selecting the offices for the presence detectors.
- Run the creation tool once, selecting only the individual offices and defining the products in them, then run the creation tool again, selecting only the meeting rooms and defining the products in them.

Note:

In this example, there will not necessarily be 1 Area Manager per office; products created in offices that do not have an Area Manager will end up in an "Unlinked products" section, which will have to be linked to the Area Manager who has to control them (see section *Linking products*).

Once you have created a group of products, all you have to do is :

- Define the desired locations (zones or spaces),
- Add products by clicking on the ,
- Define the Model,
- Define product name,
- Modify property names as required,
- Set the product properties according to the desired configuration (see section Declaring a product)

9.1.2.1 PRODUCTS LINK

This function allows you to link products that have already been created to an Area Manager.

When products are created in an area that does not have an Area Manager, they appear in the **PRODUITS** tab, in a section called "Unlinked products". From here, linking products will allow you to define which Area Manager should control them. In the same way, it will be possible to unlink an Area Manager's products in the event of a reorganisation.



To make these changes, simply :

- Go to **Sites** ,
- Click on the desired site,
- Go to the tab **PRODUITS** ,
- Click on **UTILS** on **Liaison des appareils**

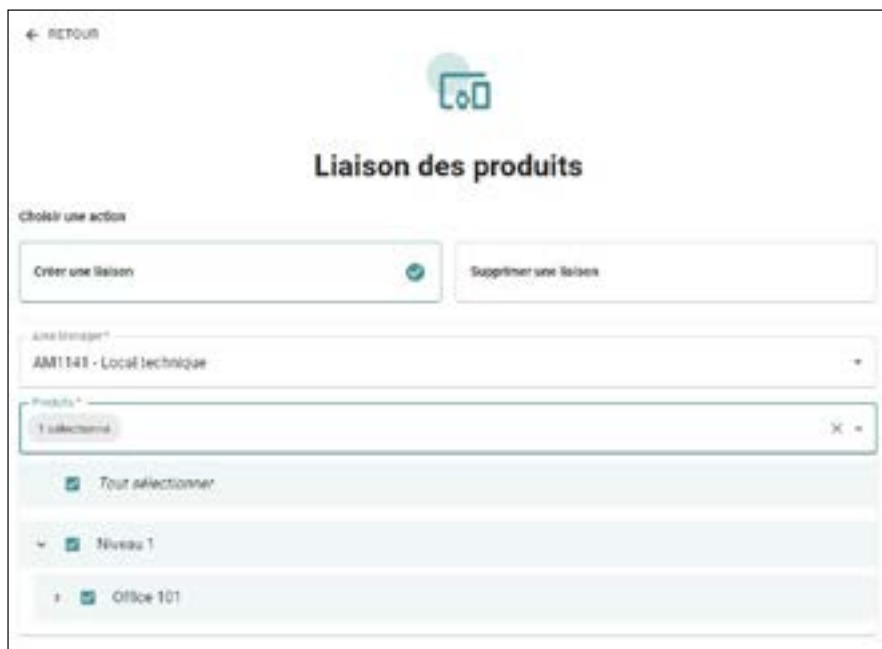


9.1.2.1 PRODUCTS LINK (CONTINUED)

The creation window lets you choose between "Create a link" to link one or more products to an Area Manager, or "Remove a link" to unlink one or more products from their Area Manager.



Then select the products to be linked/unlinked
Then select the Area Manager on which to link/unlink your products:



9.1.2.1 PRODUCTS LINK (CONTINUED)

← RETOUR

Liaison des produits

Choisir une action

Créer une liaison Supprimer une liaison ✓

Avec l'équipement ?

AM1141 - Local technique


Produit ?

0 sélectionnés

- Niveau 1
- Hall
- Local technique
- Office 101
- Détecteur de mouvement
- Prise

9.1.3 LOCATIONS

Levels, zones or spaces can be created as a group. To do this

- define the type of location
- for zones and spaces, define their parent location
- click on  and define the names of the locations you want to add.

1 Choisir l'équipement 2 Détails de l'emplacement 3 Confirmation

Tout emplacement ?

Zone

Emplacement parent ?

0 sélectionnés

Nouveaux emplacements enfants 

Nom de l'emplacement *

Nom de l'emplacement *

RETOUR SUIVANT

9.1.4 RULES

One or more rule templates can be assigned en masse to one or more Area Managers, provided the products are linked to an Area Manager:

- Select the rule templates to be deployed and the Area Managers concerned
- Then click on **SUIVANT**

9.1.4 RULES (CONTINUED)

We can then :

- **Modify and customise the name of the rule,**
- **Make it active by ticking the box or inactive by leaving the box unticked.** If it is unchecked, the rule is not active and therefore does not react to the conditions. It will then not be possible to associate it with a scheduler. This is useful if you want to schedule upstream without the rules being triggered.
- **Make the rule "Inactive by default" by checking the box.** When the Area Manager starts up, it inhibits the rule so that it does not engage even if the conditions are met, the aim being to associate it later with the scheduler which will make it operational.

You must have :

1. Associate the Properties/Movements defined in the logic with the actual Properties/Movements on the site,
2. Associate the product defined in the order with the actual site property.

To associate the Properties/Locations defined in the logic with the actual Properties/Locations of the site, simply click on select an operand and choose the correct Product/Location from the drop-down list.

Note:

If the product does not appear, check that its property is the same as that defined in the rule.

For orders, simply click on the order and select the correct object.

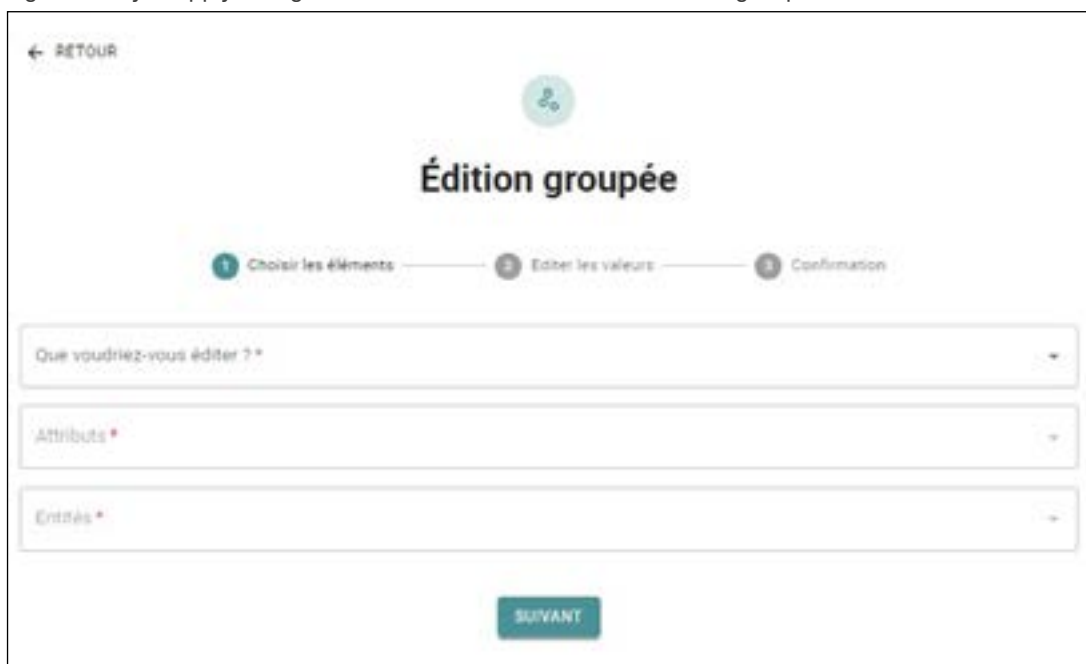
Once you have defined all the values, validate your rule by clicking on **CRÉER LA RÈGLE**.



Please note:
For the rules created and active to be taken into account, don't forget to synchronise the Area Manager concerned (see Area Manager synchronisation section).

9.2 GROUPED EDITION

The group editing tool lets you apply changes to different elements of the site in a single operation.

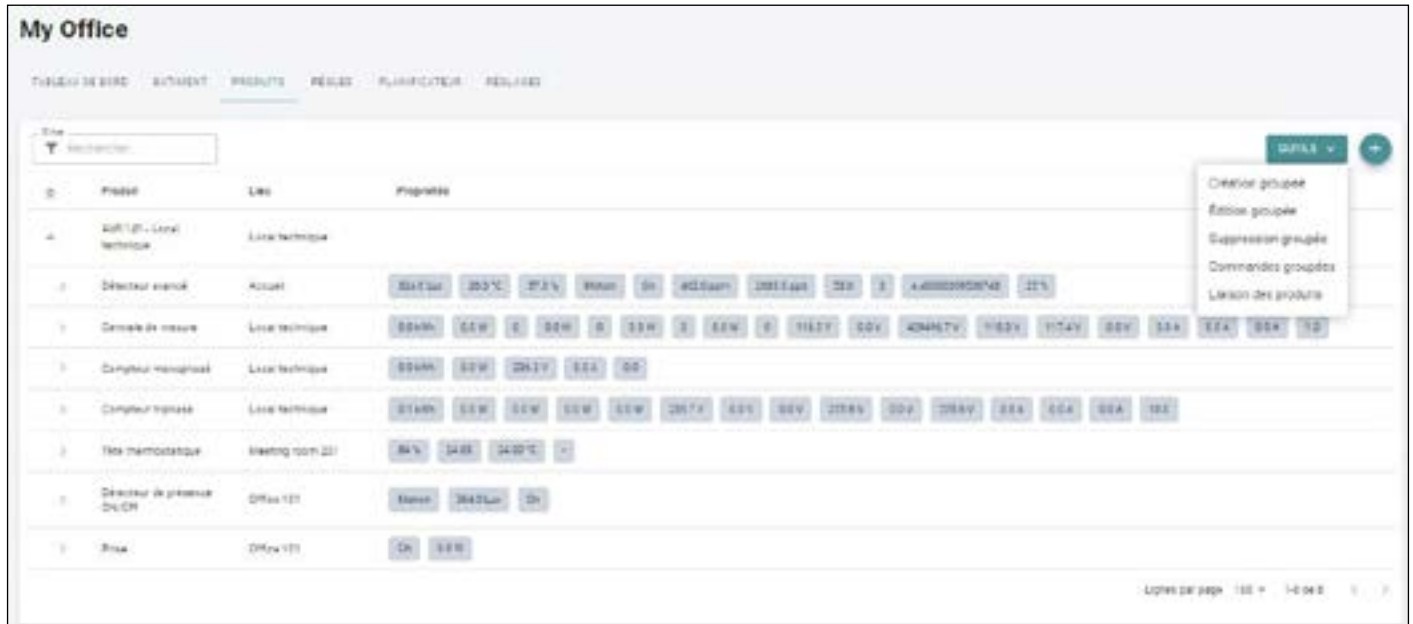


Group Edit allows you to modify :

- Area Manager (Name)
- Products (Name)
- Product properties (Name, Enabled, Hidden, Exclude from location property, Minimum difference threshold),
- Locations (Name)
- The rules:
 - the value of the operands on the right in the conditions.

9.3 GROUPED DELETION

The group delete tool allows you to delete several items of the same type in a single operation. This function can be accessed from the **BATIMENT** tab or **PRODUITS** tab of a site.



9.3 GROUPED DELETION (CONTINUED)

Note:

The system will not let you delete products that are paired with an Area Manager, or Area Managers that are linked. You must first unpair or unlink them (see pairing section 5.3 Inclusion/Exclusion of products).

9.4 GROUP COMMAND

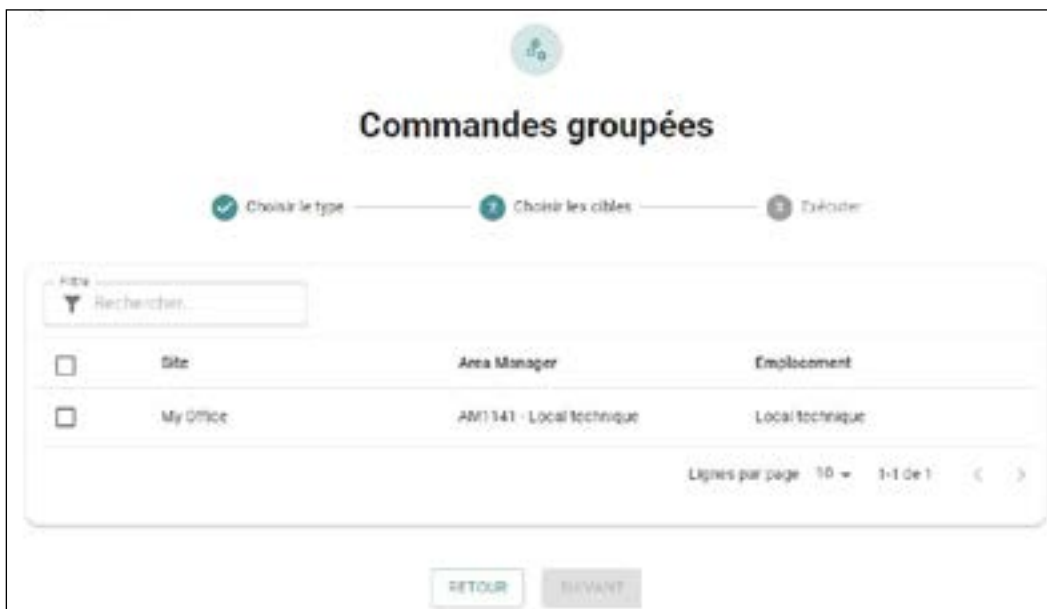
• For one or more Area Managers simply :

Go to the tab **PRODUITS**

Click on the button **OUTILS**

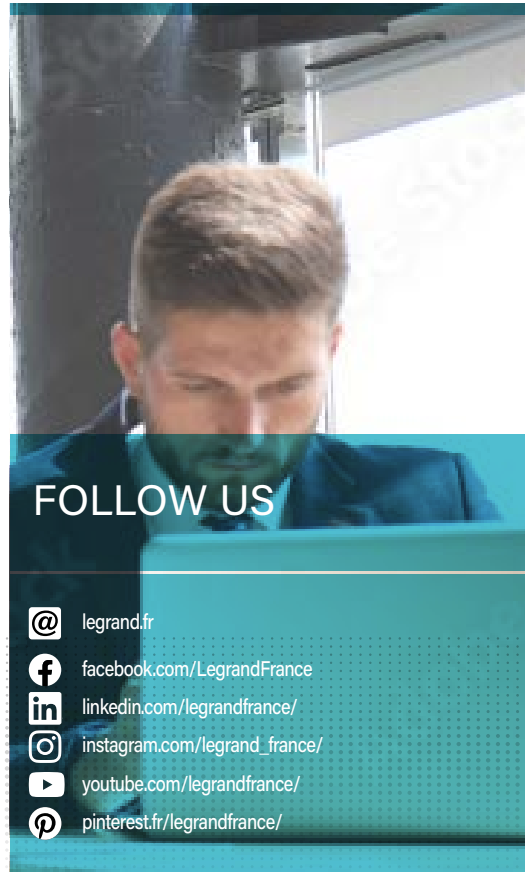
Click on **Commande groupée**

Select the Area Managers to be synchronised.



GLOSSARY

EN	DEFINITION
SITES	List of different installations.
AREA MANAGER	Connected BMS controller for collecting building data to monitor and optimise energy consumption.
ORGANISATION	Company information.
ÉQUIPE	Menu used to manage site users (add, delete or modify administrator/member rights).
BÂTIMENT	Main architecture of an installation made up of levels and zones.
LEVEL	Éfloor of a building (basement, ground floor, 1st floor, outside, etc.).
ZONE	Grouping of several SPACES on one level (corridors, offices, open spaces, meeting rooms, etc.).
SPACE	Sub-set of an AREA. For example, open-space on the window side and corridor side.
PRODUCT	Menu used to add Area Managers or connected devices to a site and position them in the building.
RÈGLES	Menu used to associate rule models previously defined for an Area Manager with a site product.
PLANNER	Menu used to manage rules according to an hourly, weekly or monthly schedule.
OPERATOR	End user of the system. It can consult or act on its products. They cannot modify the architecture of their site.



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