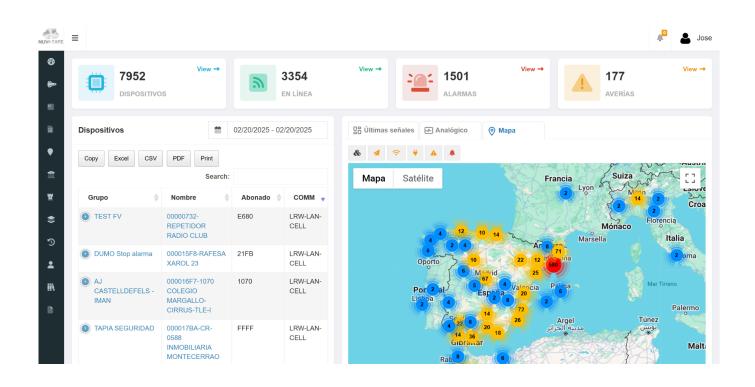


NUVA-CLOUD



Version 2.30 (20/08/2025)

Table of contents

Nuva Cloud	
Distributors	
Companies	3
Groups	
Login	4
Failed Logins	
Dashboard – Overview	
Access to Profile and Notifications	
Мар	
LORA Coverage Maps	8
Devices	10
Register New Device	10
Edit Device	11
View/Control Device	12
Security Panel Partitions Status	13
Fire Panel Status	13
Associated Panel Inputs	14
Fire Panel status	15
Security panel Status	15
SCADA CLOUD (in development)	17
Floor plans	19
Device Inputs	22
COM (Communication)	23
Geo-Location	24
Groups	26
Historic	27
Users	2 9
User Editing	29
Editing User from "My Profile"	30
My Sensors	31
Administrative Tools	31
Orders, Invoices, Proformas, Delivery Notes	32
Support Tickets	32
RMA (Return Material Authorization)	34

Nuva Cloud

Nuva Cloud is a powerful tool for analysis, monitoring, configuration, control, and diagnostics for both individual devices and the entire system.

The system automatically adapts to the credentials of the user logging in, assigning one of five access levels:

- End User: Has control only over their own devices.
- **Group User:** An end user with visibility over a group of devices.
- **Professional User:** An installer or maintenance technician with access to all devices in their group; can be granted visibility over all groups. Can create users with equal or lower roles.
- Administrator: Tied to a company, responsible for creating groups and users with equal or lower roles within that company.
- **Distributor:** Can create companies and administrator users within those companies.

According to the **EN50136 standard**, these levels correspond to:

- Level 2: End User / Group User
- Level 3: Installer User
- Level 4: Distributor

Distributors

Distributors manage companies and have visibility over their groups, users, and devices.

Companies

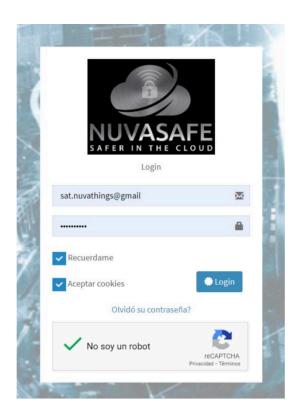
Companies can be treated as separate businesses or as branches of a single company. Devices and users are assigned to companies.

Groups

Within a company, groups can be created for geographic, security-level, or subcontracting purposes. Users assigned to a group can only see devices within that group.

- Administrators can create users with visibility across all groups in the same company.
- **Distributors** can create users with visibility across all companies and groups.

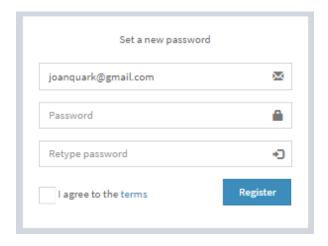
Login



Remember Me: Keeps the user logged in for at least a week.

Cookie consent is required for login (as login result is stored in a cookie).

The "Forgot Password" link sends a recovery email.



Upon successful login, the user is directed to the **Dashboard**.

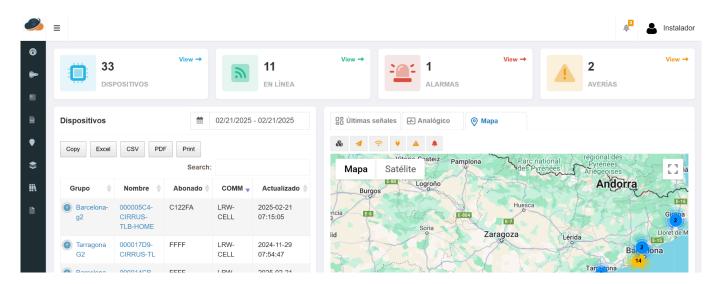
Failed Logins

After **3 failed attempts**, login is blocked for **90 seconds**.

Password must be entered within 60 seconds, or it's counted as a failed attempt.

Dashboard – Overview

The dashboard is the main screen of the Cloud system, providing a summary of the general status of the devices (administrator view).



On the **left**, a navigation bar gives access to the main server sections:

- Devices
- Sensors
- SIMs
- Beacons (trackers)
- Groups
- History
 - Events
 - Logging
- Admin
 - Orders
 - Invoices
 - Proformas
 - o Delivery Notes
 - o RMAs

Support Tickets

At the top, four colored boxes summarize:

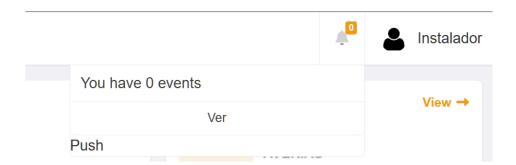
- Total number of devices
- Devices online
- Devices with zone faults
- Devices with active alarms

Clicking "View" on each box shows the device list, which can be exported as PDF or CSV.

Access to Profile and Notifications

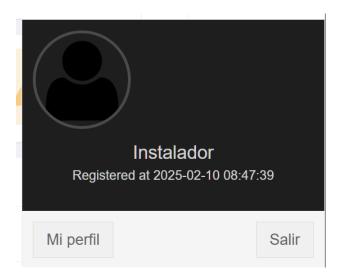
In the top-right corner:

- Access pending notifications.
- Activate/deactivate push notifications using the "Subscribe" button.



Next to this is the user dropdown, where you can:

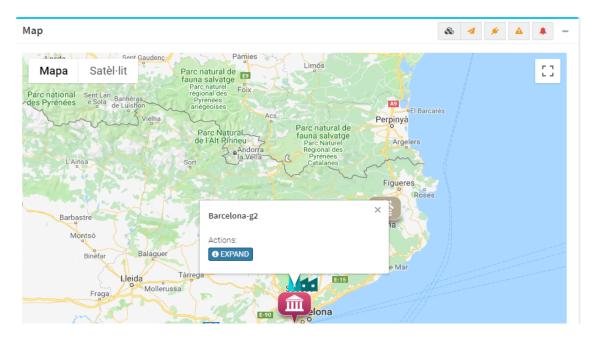
- Edit your profile.
- Log out.



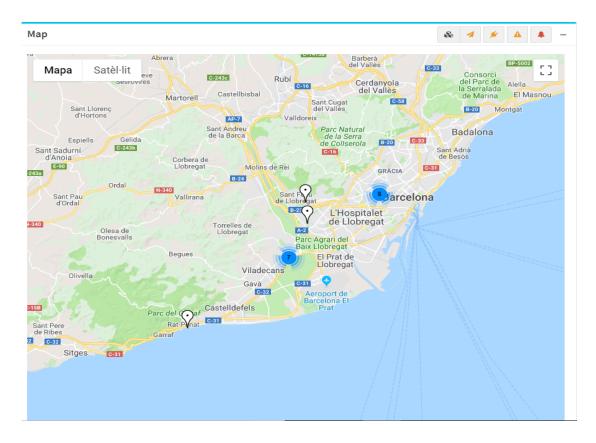
Map

If the user's login level allows visibility of more than one group, the map shows icons representing each group.

Clicking a group icon opens an info window with the option to expand and view the group's devices.



For **single-group users** (like end users), the map shows only their devices.



Devices are shown with colors matching their group. There are five **filter options**:



Group filter

Communication/polling failure filter

Black: polling failure

Grey: communication failure on one or more channels

LORA coverage heat map Power supply failure filter

Yellow: power issues Zone/sensor failure filter

Purple: sensor faults

Alarm/tamper filter
Red: active alarm

LORA Coverage Maps

Both Nuva devices and **The Things Network** gateways create an **anti-jamming network** available throughout many parts of **Spain and Europe**.

When clicking the "Lora Links" button after selecting an area on the map (avoid very large areas to prevent memory overload), a heatmap shows estimated coverage of devices and/or gateways in that area.

Exterior devices (LORA antenna elevation \neq 0) have a larger radius.

Interior devices (elevation = 0) have a smaller radius.

Indoor gateways have a radius like interior devices.

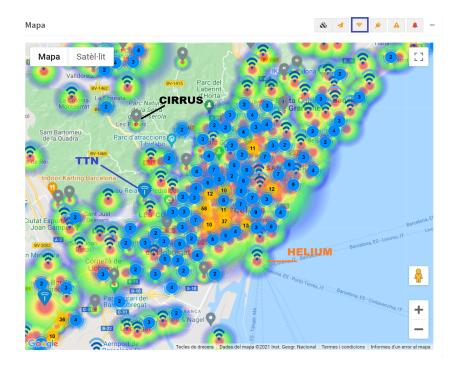
Outdoor gateways have a radius 4x larger.

Coverage colors:

• Red: Likely indoor coverage

• Yellow/Green: Outdoor or favorable indoor (e.g., near windows)

• Grayish: Outdoor-only coverage



Device pins:

• Gray: No LORA link

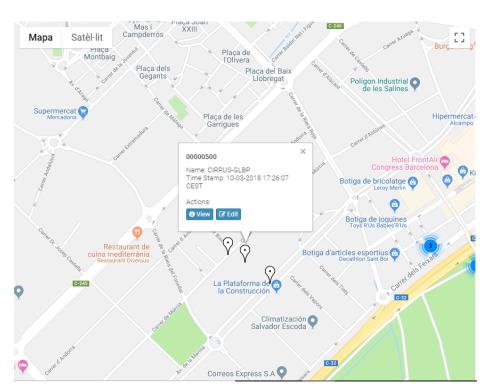
• Green: LORA backup available

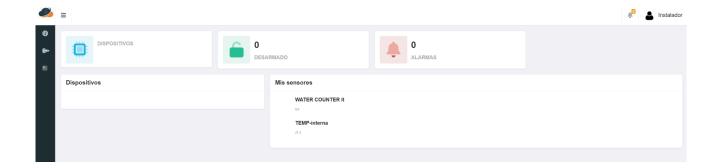
Clicking on a specific device marker opens a contextual menu showing:

Serial number

Device name

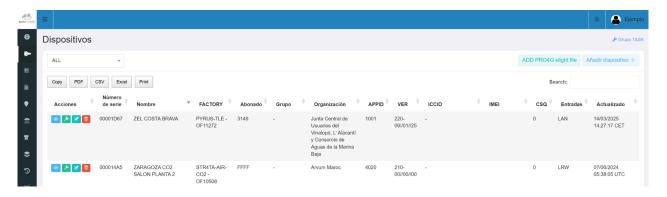
• Buttons for status view and edit





Devices

The **Devices** screen shows a list of available equipment according to the user's login level. You can access it via the menu or by clicking the summary boxes at the top of the Dashboard.



The list includes a **search field** that scans all columns. Entering a client or group name quickly filters the visible devices.

Clicking "Add Device" allows the creation of a new device from scratch. However, devices automatically generate a default version upon first connecting to the platform, visible to administrators.

Available options per device:

- Edit device Modify device data
- View status Opens device monitoring and control panel
- **Config** Configure device parameters
- **Delete** Remove the device from the user's company

Register New Device

When you acquire a new device, it won't appear in the device list. To add it:

- 1. Click "Add Device"
- 2. Enter the 8-digit serial number (SN)



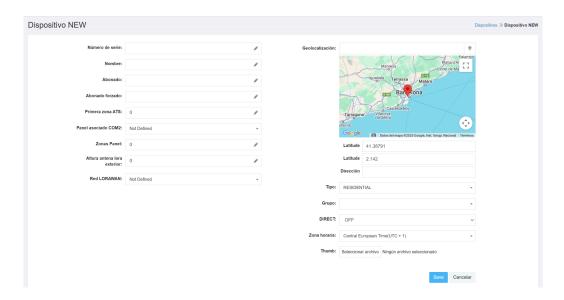
- A green highlight confirms that the SN exists.
- 3. Enter device details, then click **Update**
- 4. The system prompts for the VC code (on the device label) to verify ownership
- If the VC is invalid: "VC code doesn't match"
- If valid: the device is registered and ready for SIM activation in a second edit.

Edit Device

After registration, the top of the edit screen shows the **SIM card** status. If inactive, it can be activated there.



You can enter basic device data, assign it to a company, group, and set the installation location.



Select the appropriate LORAWAN network: The Things Network or Helium.

Integrations:

- When a panel is connected through COM2 (serial or keyboard bus), zones can be defined.
- These appear in the mobile app, replacing the default transmitter inputs.
- This supports security and fire control panels (PCI).

"First ATS Zone": Defines the zone for internal transmitter events, allowing receiver systems to distinguish between panel and transmitter events.

b For more, refer to the **Registration & Commissioning Manual**.

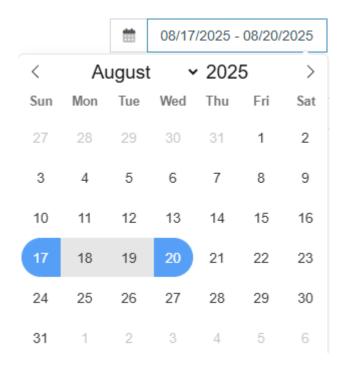
View/Control Device

This screen shows the device's status and allows:

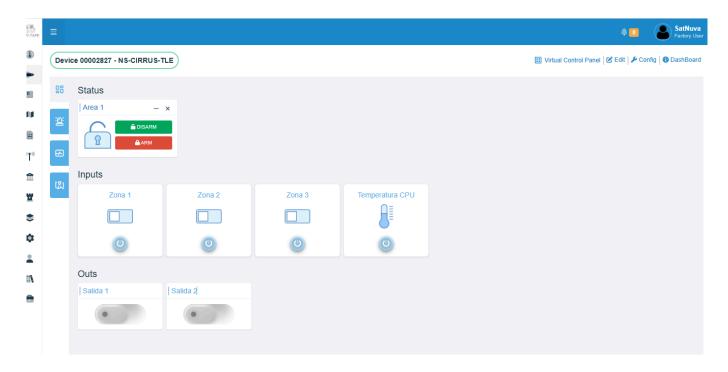
- **Arming/disarming** partitions
- Activating/deactivating outputs
- Bypassing/restoring zones

You'll see a **tabbed view**, and at the top:

- A calendar selector allows you to choose a date range to view:
 - Analog data
 - Historic on COM tab.
 - Device positions

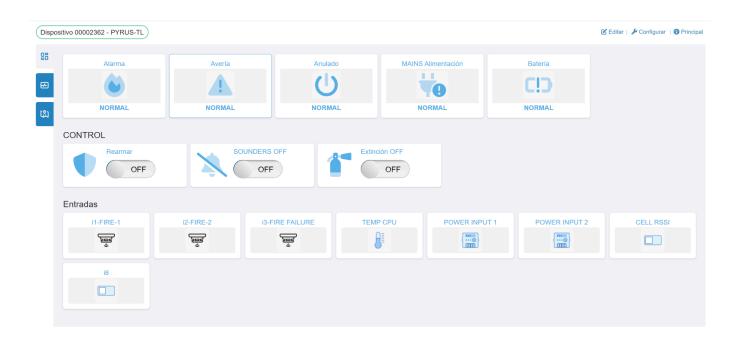


Security Panel Partitions Status



- if the control panel is integrated, the actions over the partitions will be executed on main control panel, if not this will only affect the status of the CIRRUS transmitter.
- On the Panel tab, the zones of main control panel, partition status and general status icons will be shown.

Fire Panel Status

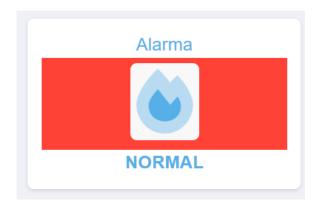


- If the device is configured with work grade 054, the system displays fire panel status.
- Without serial integration, it shows the device's own input statuses.

Control options include:

• Resetting or silencing sirens, which triggers outputs 5 and 6 on the I/O expansion module.

If integrated via **BUS**, commands are injected directly into the panel's bus to trigger actions.





Associated Panel Inputs

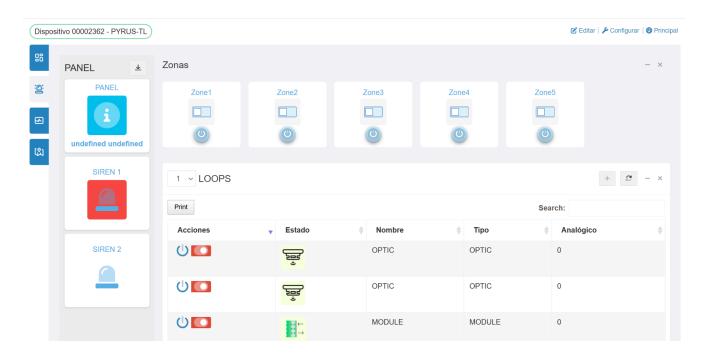
(For firmware version \geq 2.20)

When using **COM2 integration** via serial or keyboard bus, the device can show the **input status of the connected panel**.

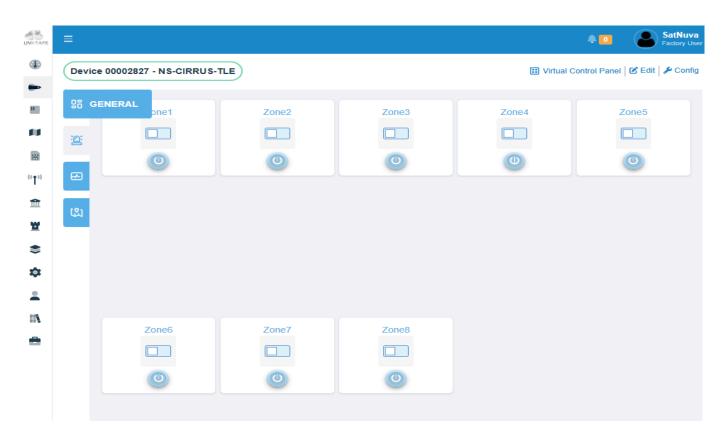
Setup steps:

- 1. During registration, define the **number of zones** on the panel
- 2. In configuration, assign **names** to each zone
- 3. in case of fire Panels, if there is import, please import the configuration file (several formats)

Fire Panel status



Security panel Status



Icon display is influenced by **channel name**. Default: a switch icon.



Examples of name-based icons:

"PIR" \rightarrow motion sensor



"CN", "DOOR", "PUERTA" \rightarrow door



"SMK", "FIRE", "HUMO", "FUEGO" → fire/smoke



"TEMP" → temperature



"HIGRO" → humidity



Other keywords for icons include:

"SIREN","PULS","FIRE

PULL", "EVAC", "EMERG", "EXTIN", "CO2", "COUNT", "GAS", "SOIL", "RAIN", "Solar", "Energy", "ENER", "Energía", "PWR", "Power", "Potencia", "Voltage", "VOLT", "Tensión", "WATER", "Agua", "BATT", "Batt", "WIND", "PRES", "DUST", "LIGHT", "PH".

El estado de la entrada se visualiza por modificación del color de fondo del icono, siendo los colores:

- Red: Alarm



- Navy blue: Detection



- Yellow: Failure



- **Dark gray**: Bypassed

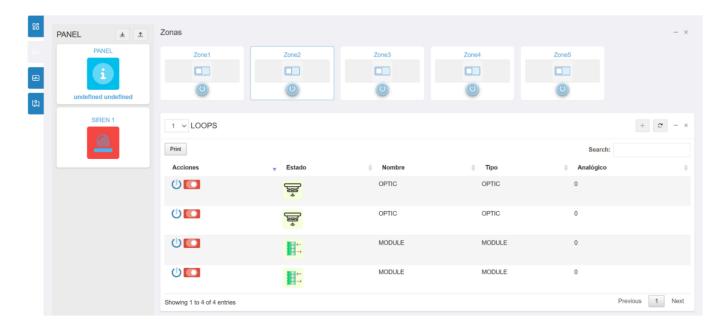


SCADA CLOUD (in development)

The **SCADA Cloud** tool automatically detects the sensors connected to different loops of the control panel.

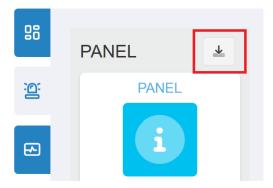
Access requirements:

- Must be using a supported integration
- Must define the number of panel zones in the Edit section (Num Zonas Panel)

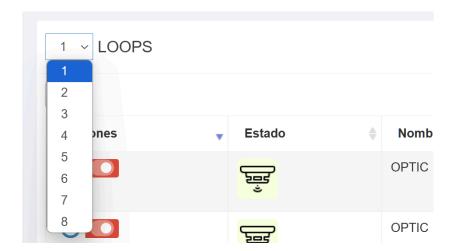


Once configured:

- A new PANEL tab will appear on the device screen (refresh if needed)
- It allows you to view:
 - o Zones
 - Loops
 - Sensors connected to each loop



In the **LOOPS** dropdown, select the desired loop.



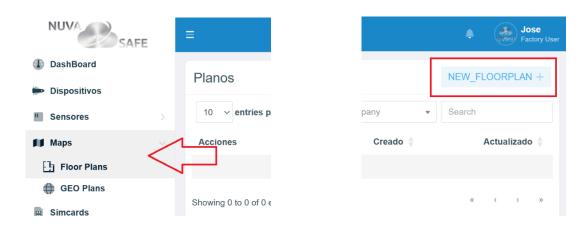
A table will show:

- Sensor status
- Name (e.g., Loop 1 Sensor 1)
- Sensor type
- Analog value (useful for checking sensor dirtiness)

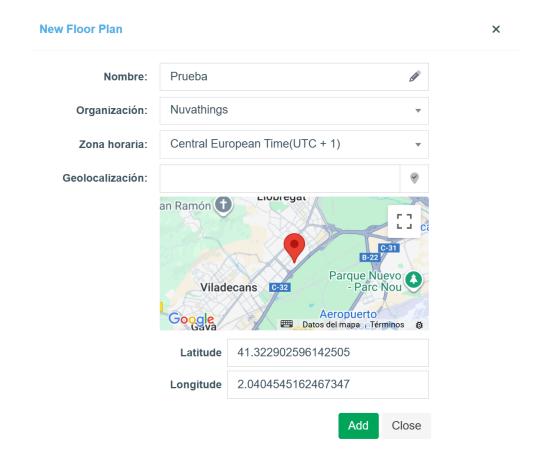


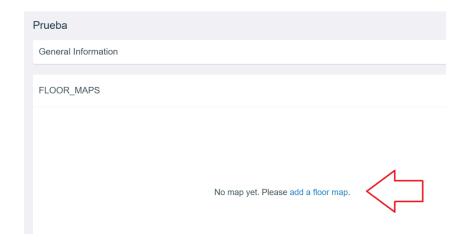
Floor plans

To create floor plans, go to MAPS in the side menu and then select NEW FLOORPLAN.

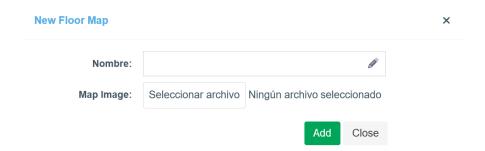


The following window will appear, where you'll need to name the floor plan, select the organization, and enter the geolocation.



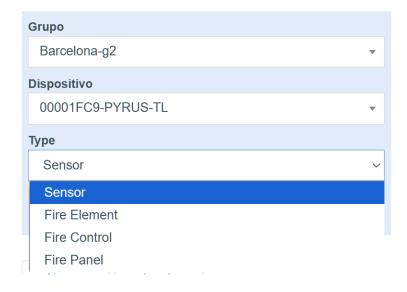


On the next page, first click on "ADD A FLOOR MAP."



Name the floor plan and select the image of the plan you want to upload, in PNG or JPG format.

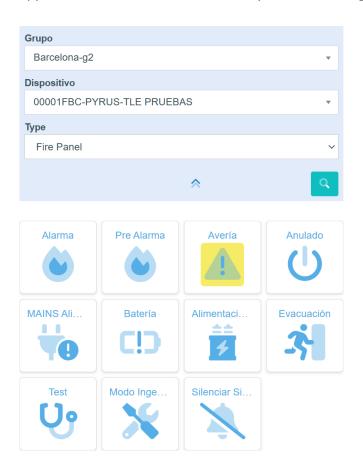
Then, select the group, the device (which must be previously registered), and choose in the TYPE field what you want to add to your floor plan.



Click on Search



The available elements will appear. Select the desired element by double-clicking on it.



After selecting the element, it will appear in the center of the floor plan, and you can move it to place it where it should go.



We can add sensors, control elements, and panel components. These elements can be interacted with directly from the floor plan.



Device Inputs

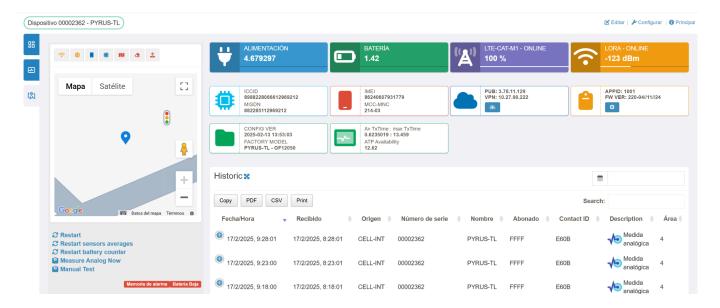
Similar to panel inputs, the device's own inputs are shown:

- **Digital inputs**: NA (Normally Open), NC (Normally Closed), RFL (resistance-based)
- Analog inputs: Show the latest value and can be represented by an icon based on the input name

COM (Communication)

EN54-21 - Device: PYRUS

• Use the "manual test" function to check LED indicators on the front case.



Analog Data

This screen displays and allows export of analog measurements from connected sensors.

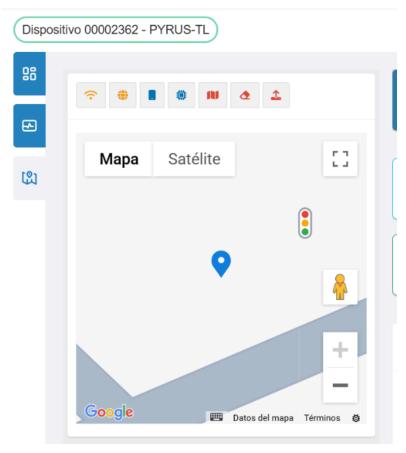
The sensor names are those defined in the device's configuration.



Geo-Location

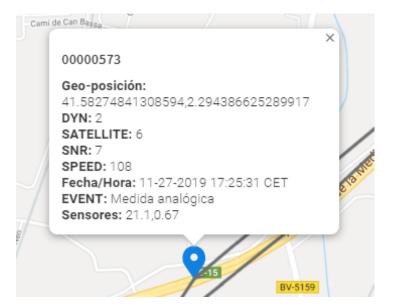
The **Geo-location tab** includes several tools and icons located in the upper-right corner of the map:





Shows a trail of positions for mobile devices (default view)

Clicking a position opens a window with:



DYN: 0 = stopped, 2 = moving

SNR: GPS signal level

SATELLITE: Number of visible satellites

SPEED: in km/h

EVENT: Triggering signal

Sensors: Readings at that point



LORA Communication Links

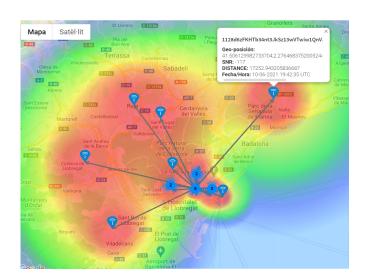
Displays LORA communication links between devices

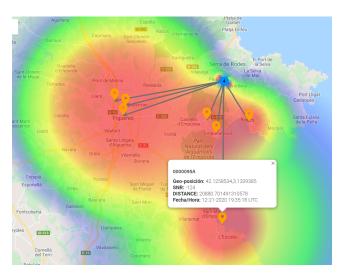
Clicking a marker shows:

- Distance (meters)
- Signal strength

Orange pins = Nuva devices

Blue pins = LORAWAN gateways







GSM Cell-based Geolocation

Sends a command for the device to geolocate using cellular towers

May take a few moments to execute



Geo-fence creation

Click the **Geofence button** to activate tools for managing up to **3 geofences** per device.



To create:

Click a circle icon for one of the 3 slots



Click and hold on the map to draw a circle

Click the **hand icon** and then the geofence button again to exit drawing mode



Once created:

- The geofence appears on the map
- You can adjust its position and radius at any time



Send Geofences to Device

While outside drawing mode, select a geofence and press the **delete button**



Send Geofences to Device

- This saves and transmits the geofences to the device
- Battery-powered devices will apply the update on the next transmission

When in low-power mode, a device wakes up and sends an Entry/Exit event upon geofence breach.

Groups

Groups are **logical association** of devices and users. They can represent:

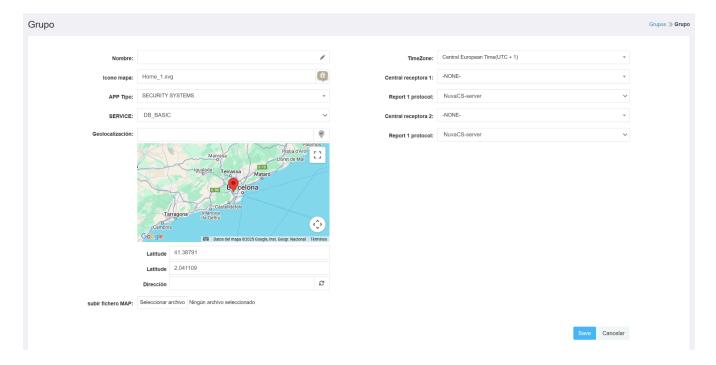
- Types of installations
- Subcontractors
- Local branches of an installer connected to a central monitoring station (CRA)

In the **group management panel**, you can:

- Edit existing groups
- Create new ones

Each group:

- Requires a name
- Assigns a color for visualization on the dashboard map
- Must be linked to a CMS (Central monitoring station)



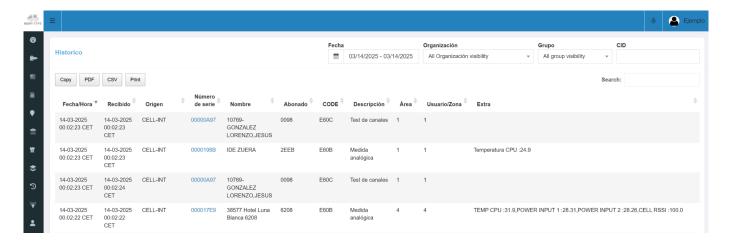
Once created:

You must assign devices and users to the group

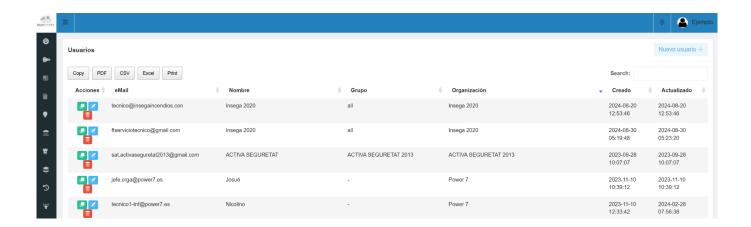
Historic

The history window allows time-based searches in the event database.

- Apply date filters using the range selector and the "Apply" button
- Once data is shown, use the Search box to filter across all table columns



Users



The user panel shows all users visible to the logged-in user.

- Allows searching, editing, creating, and deleting users
- A "super user" can manage users across companies
- Administrators can manage users within their own groups

User Editing

Editing users is a key process, as it determines the user's role and access.

You can assign:

- User data: name, alias, phone (only email and password are mandatory)
- Privilege level:
 - o End User
 - Group User
 - Professional
 - Administrator
 - Distributor
- Company visibility (for distributors or higher)
- **Group visibility** (for administrators or higher)
- Device ownership
- Beacon/tracker ownership

- Roles: defines allowed operations in platform or app
- Notification preferences: email, push, or in-platform alerts

Mobile App Integration:

User-device linking allows control via Android/iOS apps.

Password change:

Must include at least one uppercase letter and a number for security.

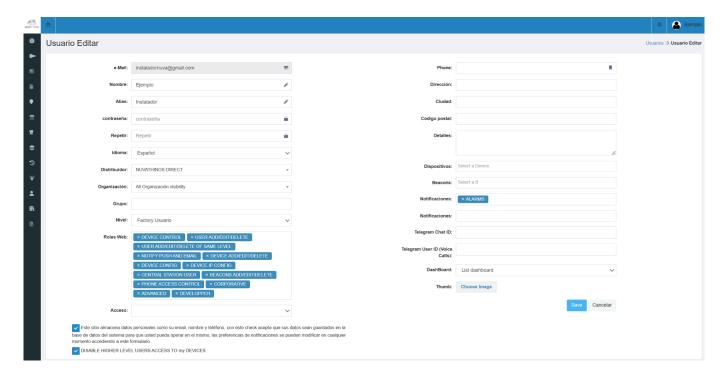
Company/Group assignment:

• Available to super users and administrators

Editing User from "My Profile"

For basic or group-level users:

- The profile screen includes a **consent checkbox** for GDPR compliance
- Users can also manage notification and communication preferences
- A setting allows users to block access by higher-level support; tech service must request access if needed

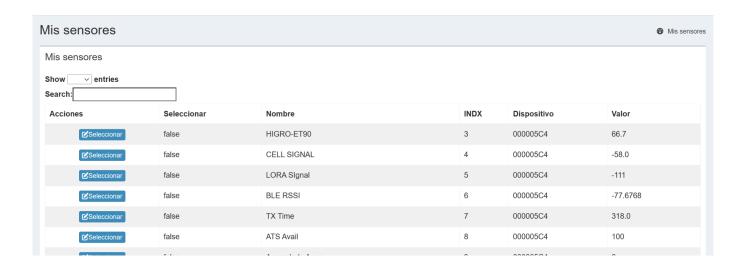


My Sensors

This menu option allows **end users or installers** to select which sensors they want to see on the main dashboard.

The system:

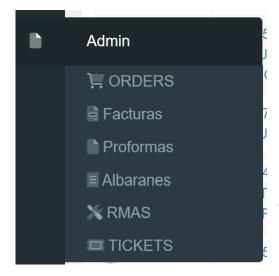
- Scans all analog sensors from visible devices
- Shows a list to select/unselect which ones to display



Administrative Tools

Accessible from the left menu based on user level and roles.

Admin menu options include:



Orders: Confirmed orders with estimated delivery dates and

ratings

Invoices: Sorted by year; can be paid via PayPal **Proformas**: View and download proforma invoices

Delivery Notes: Issued with your company

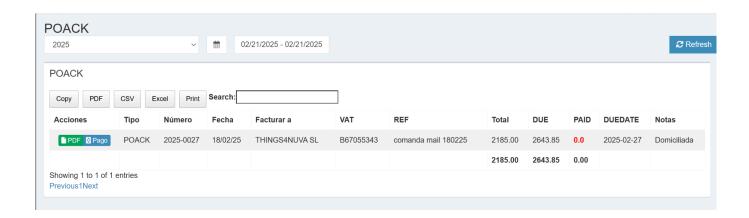
RMA: Return authorizations for faulty equipment

Tickets: Support issues and resolutions

Orders, Invoices, Proformas, Delivery Notes

This section lists all the above items:

- View, consult, and download in PDF
- Pay invoices via PayPal
- Orders, proformas, and delivery notes are view-only

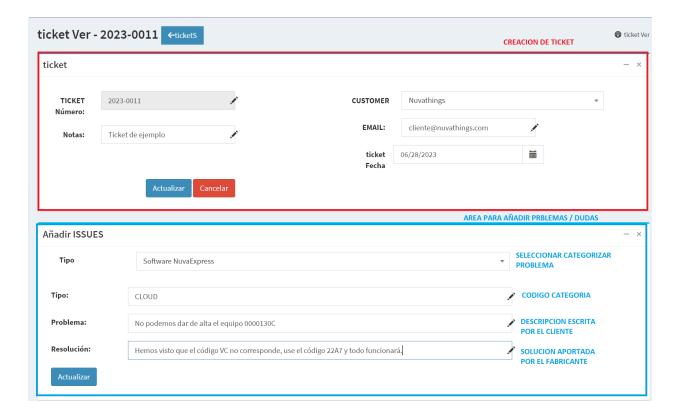


Support Tickets

Tickets are the main method for reporting device or software issues.

Purpose:

- 1. Submit functional issues or questions to the manufacturer
- 2. The tech team reviews the problem:
 - o May resolve it remotely if it's a known issue
 - o If related to a device, SAT (technical service) may interact directly with it
 - o If resolved, the ticket is closed and user is notified via email
- 3. If unsolved, it may escalate to an RMA
- Tickets can also be initiated by support staff via:
 - Email: sat@nuvasafe.com / info@nuvasafe.com



To create a ticket:

- Click "Add Ticket"
- Fill in:
 - o Date
 - Note (no customer/email fields in client view)
 - Problem category and description
 - Click Update
- When done, click "Resume"

The tech team will be notified and respond with a PDF resolution report.

08830, Sant Boi de Llobregat



TICKE

fecha Ticket: 06/28/2023 Ticket Num: 2023-0011

Cliente: THINGS4NUVA SL B67055343 Cami Vell Sarrià 23, 7e 3a 08029 Barcelona

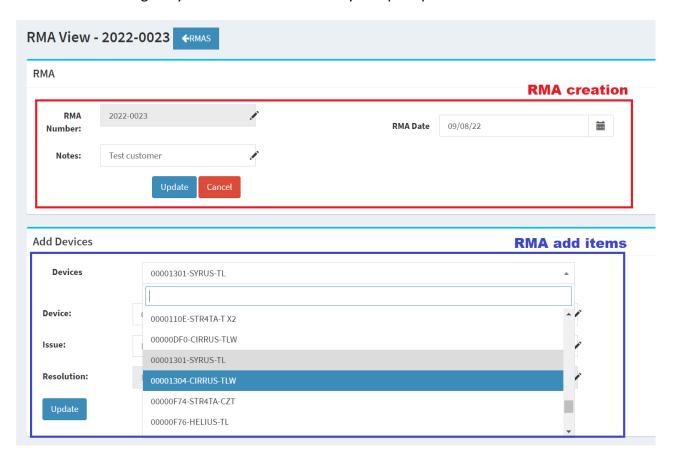


RMA (Return Material Authorization)

Used to return faulty devices to the factory.

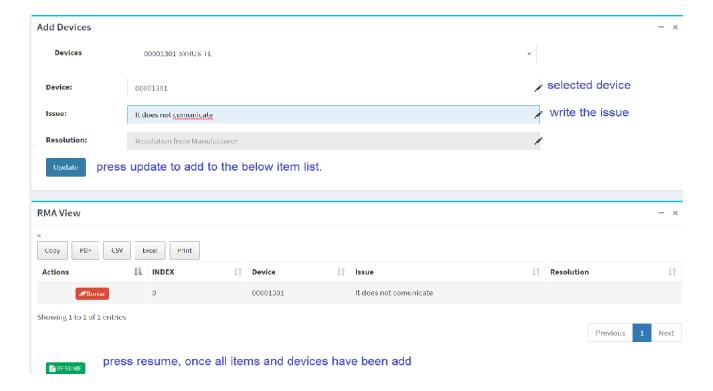
Steps:

- 1. Submit a description of the problem
- 2. If approved, the system authorizes return
- 3. Customer ships device (shipping **not covered**)
- 4. Factory inspects the device:
 - If under warranty: return shipping is covered
 - o If damaged by misuse or out of warranty: a repair quote is sent



To create an RMA:

- Click "Add RMA"
- Set the date and note, then click Update
- Add devices or items by:
 - Typing serial number or name
 - Selecting the device
 - Describing the issue
 - Clicking Update



Once done, click "Resume" to notify the factory. A PDF resolution will be sent for each item.



B67055343 Cami Vell Sarrià 23, 7e 3a 08029, Barcelona

RMA

fecha Rma: 09/08/22 Rma Num: 2022-0023

Cliente: THINGS4NUVA SL B67055343 Cami Vell Sarrià 23, 7e 3a 08029 Barcelona

