Connect
GLOBAL/ESENSA/SERENITY
to Swegon INSIDE

Which units are INSIDE Ready?

GLOBAL/ESENSA/SERENITY

With TAC7 controller

- Must have satellite board “SAT INSIDE Ready”

Retrofit functionality

- All TAC7 controlled AHUs having optional satellite board “SAT WIFI-ETHERNET”, at least v1.0.0

How to connect GLOBAL/ESENSA/SERENITY units

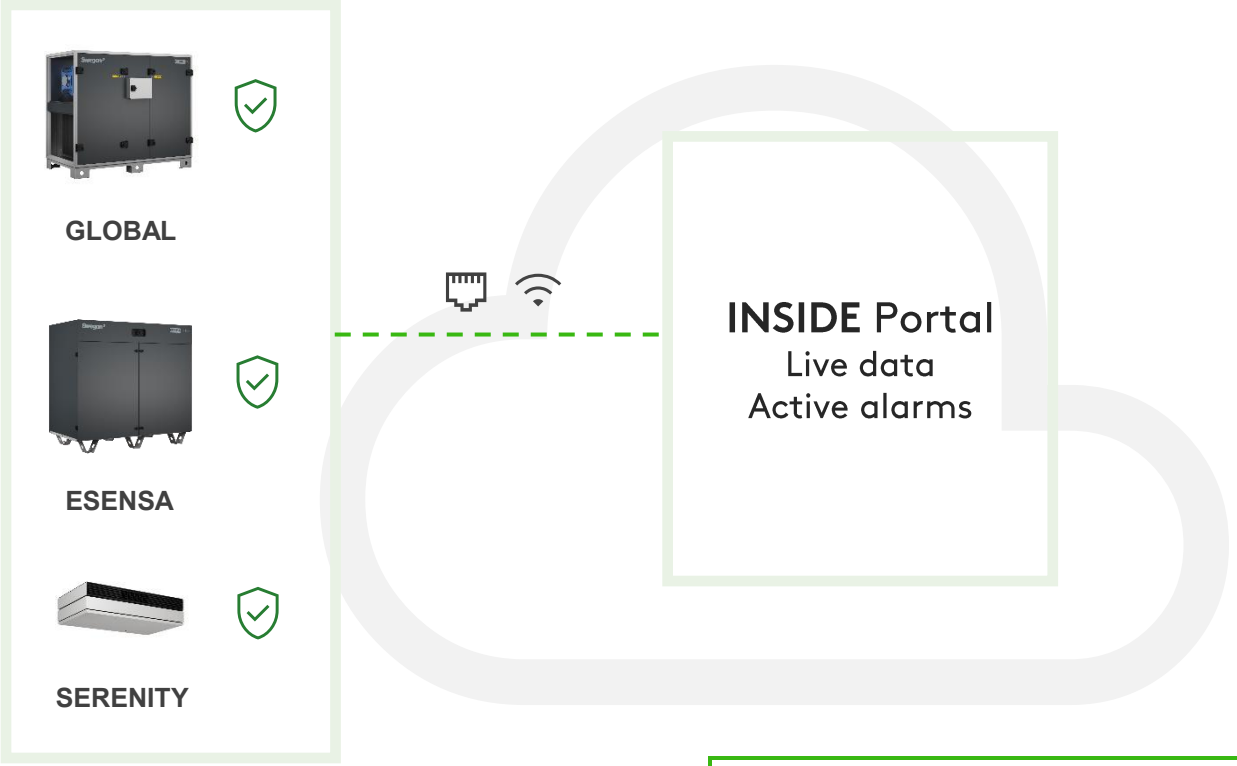
Connecting GLOBAL, ESENSA or SERENITY

Ethernet connection

Connect one end of the network cable to the facility's existing network and the other to the AHU (SAT INSIDE ready).

Wi-Fi connection

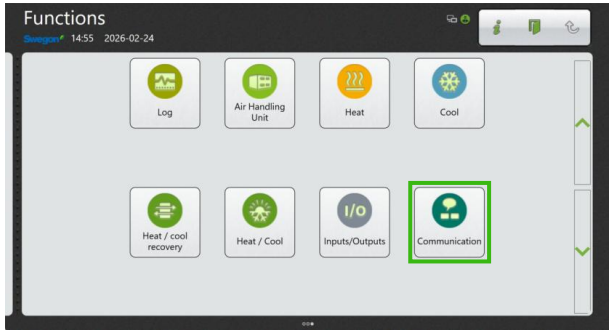
Connect the SAT INSIDE ready to the Wi-Fi network. Easiest is to activate WPS on the local router and press the WPS button on the SAT.

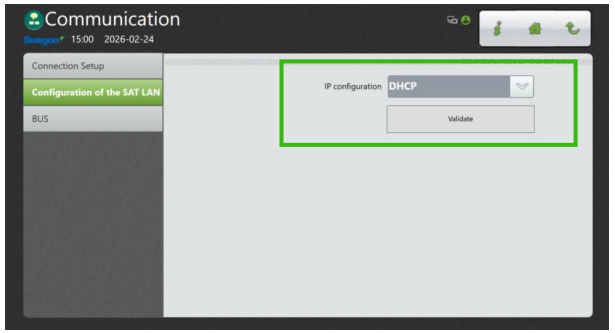


For details, description manual:
TAC7 + MODBUS TCP/IP

Connection settings in TACtouch

- Using Wi-Fi: no additional settings necessary
- Using Ethernet:
  - Find “Communication/Configuration of the SAT LAN”
    - For IP configuration, if the local network has the feature for dynamic IP configuration, which is generally the case, select DHCP
    - Otherwise, select Manual and make sure the following are filled in correctly: IP address, Net mask, Default gateway, Primary DNS
    - Press ”Validate” after the configuration





INSIDE Connect – a Swegon router

- Using the Swegon router is an option if the local network cannot be accessed or if there is no local connectivity to the internet. Follow these additional steps:

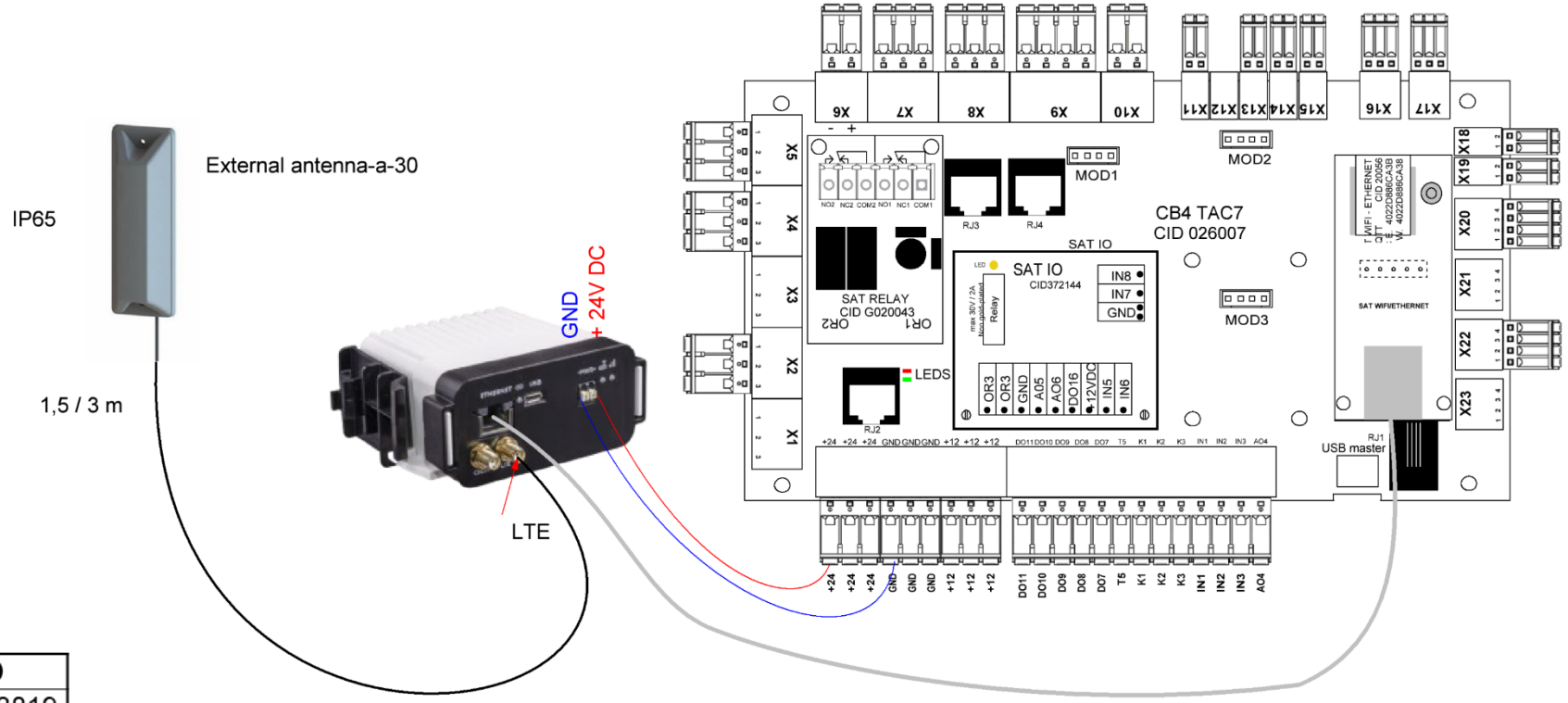
- After placing the antenna and ensuring a reliable 4G signal of the router, connect it to the SAT using a standard Ethernet cable (RJ45). Be aware, the router must be supplied with +24V DC according to the diagram.

- Configure the IP settings according to the table. Enter Function/Communication/Configuration of SAT LAN

DHCP	Off
IP Address	169.254.235.1
Netmask	255.255.255.248
Default gateway	169.254.235.6
Primary DNS	8.8.8.8

INSIDE Connect – a Swegon router

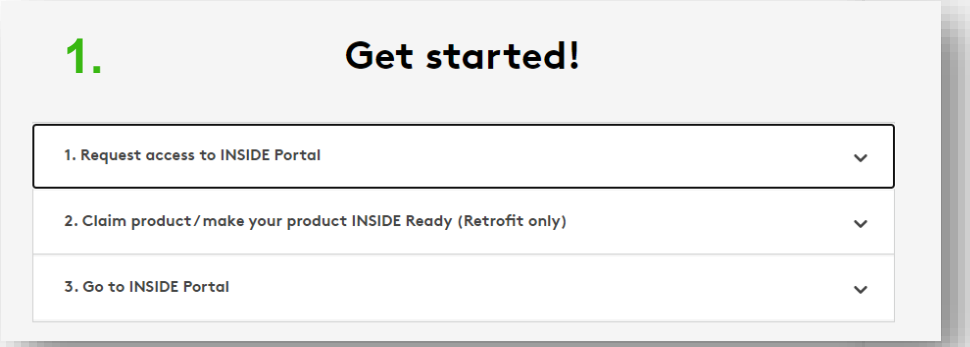
Wiring

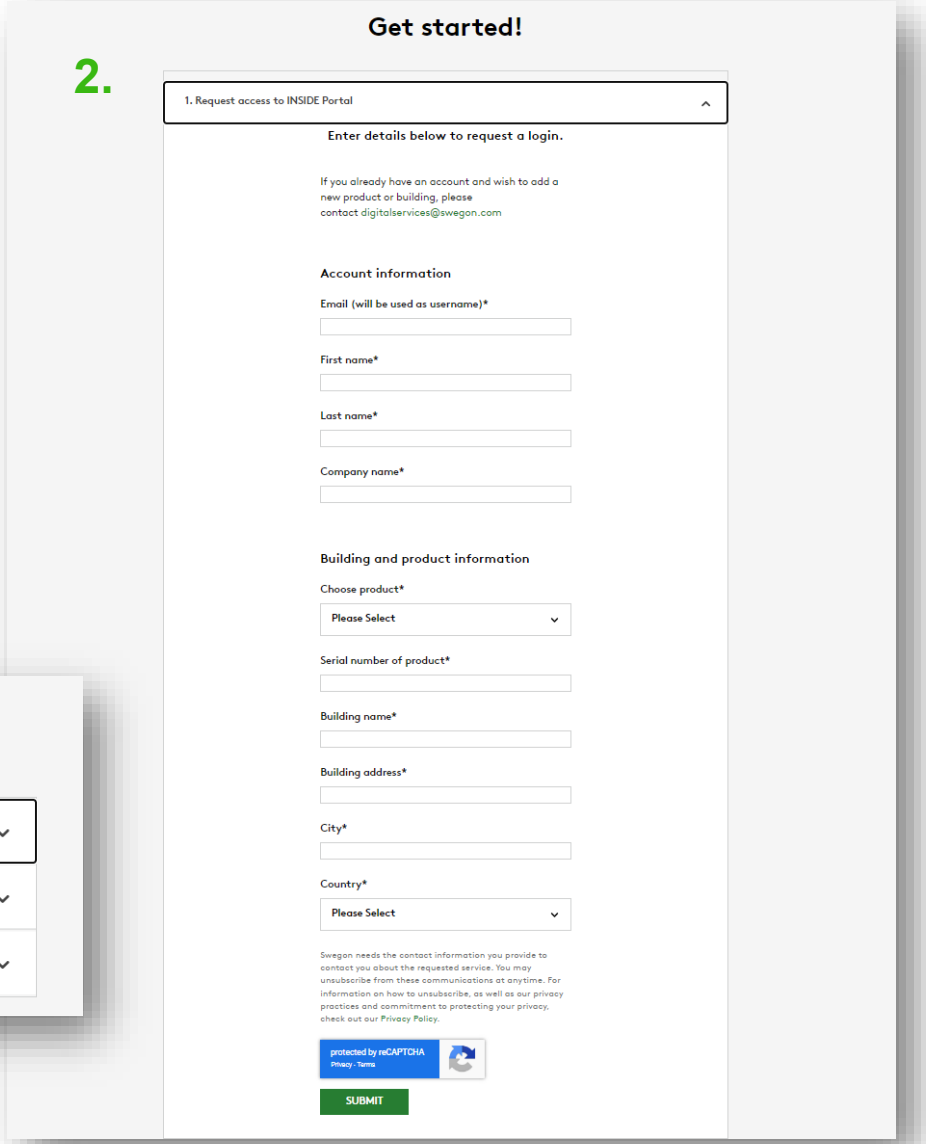


Label	CID
INSIDE Connect, fitted in electrical cabinet	883819
INSIDE Connect, delivered loose (no PSU)	883820
INSIDE External antenna-a-15	883821
INSIDE External antenna-a-30	883822

Create account

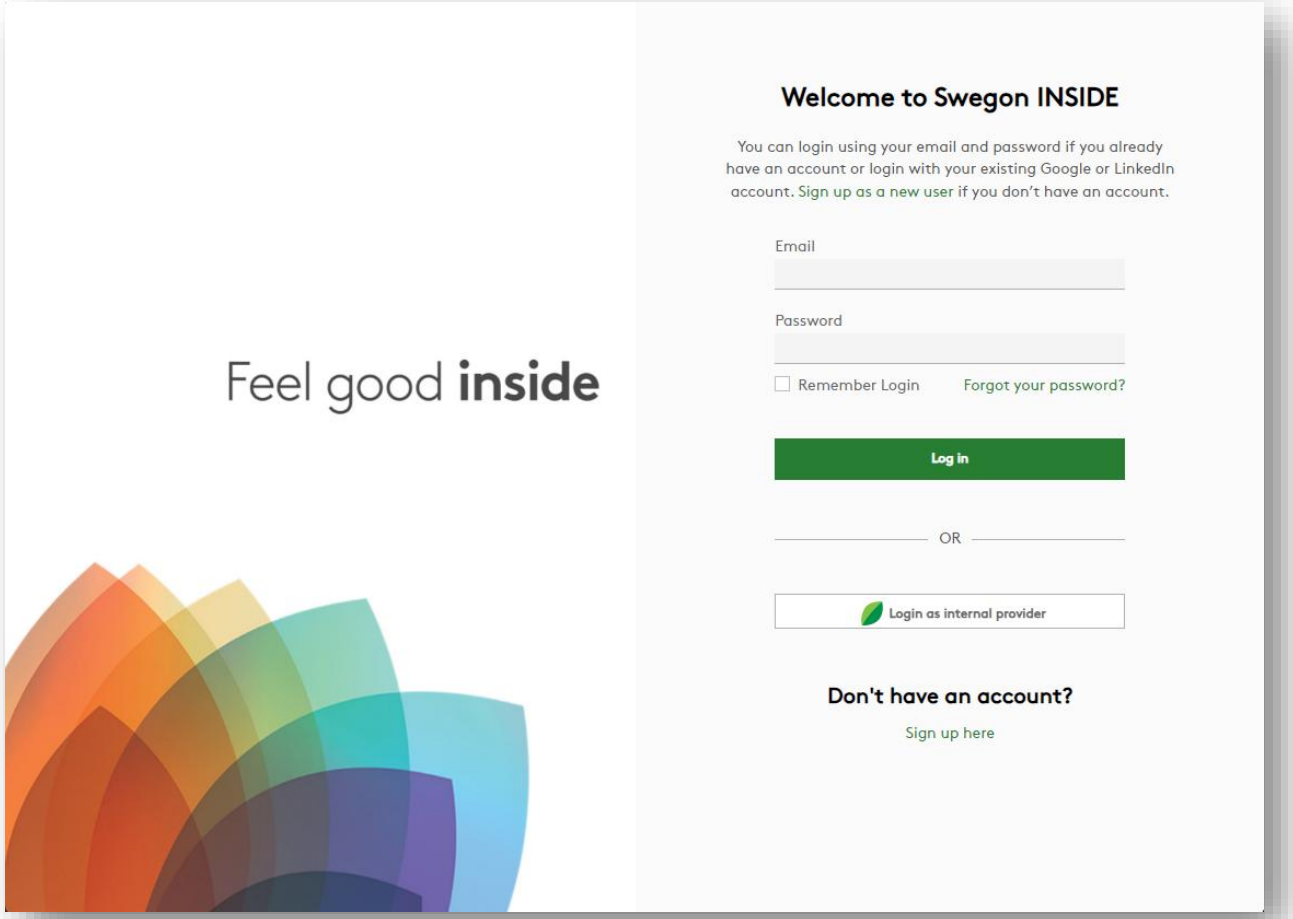
- Go to Swegon web
  - Software → Connected products
    1. Request access to INSIDE Portal
    2. Fill in the form and submit
    3. Wait for invitation email



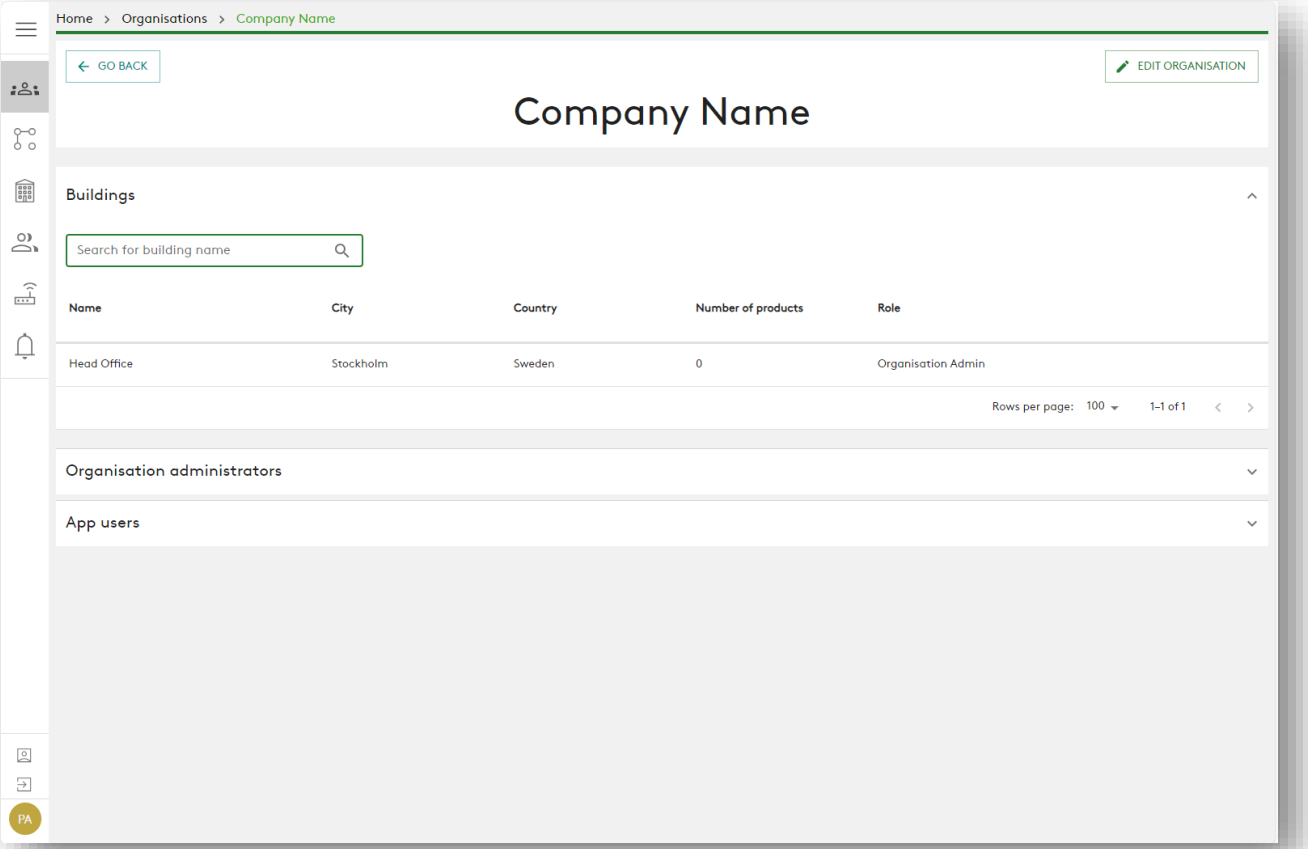


Log into INSIDE Portal

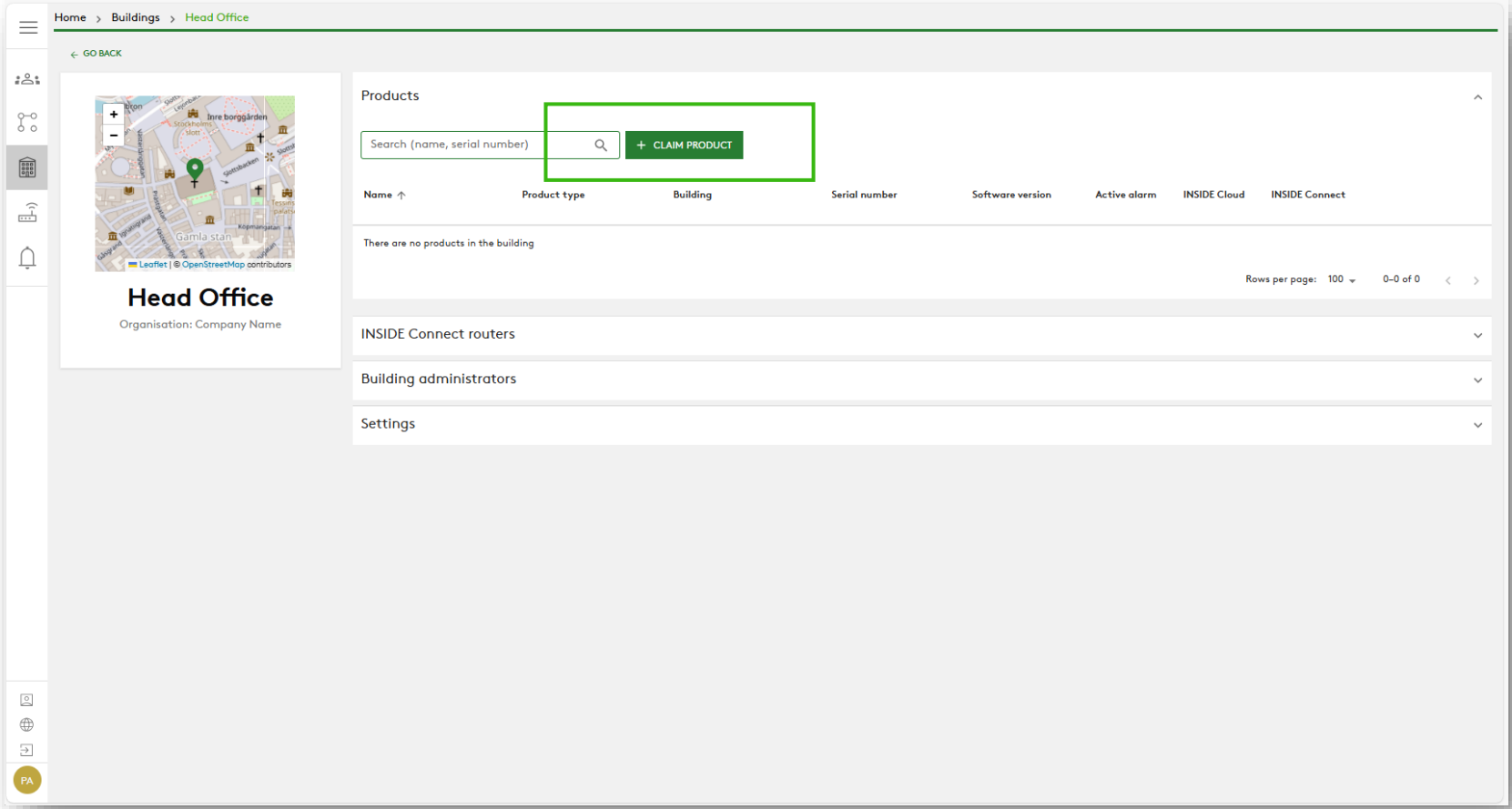
https://inside.swegon.com



Go to building page



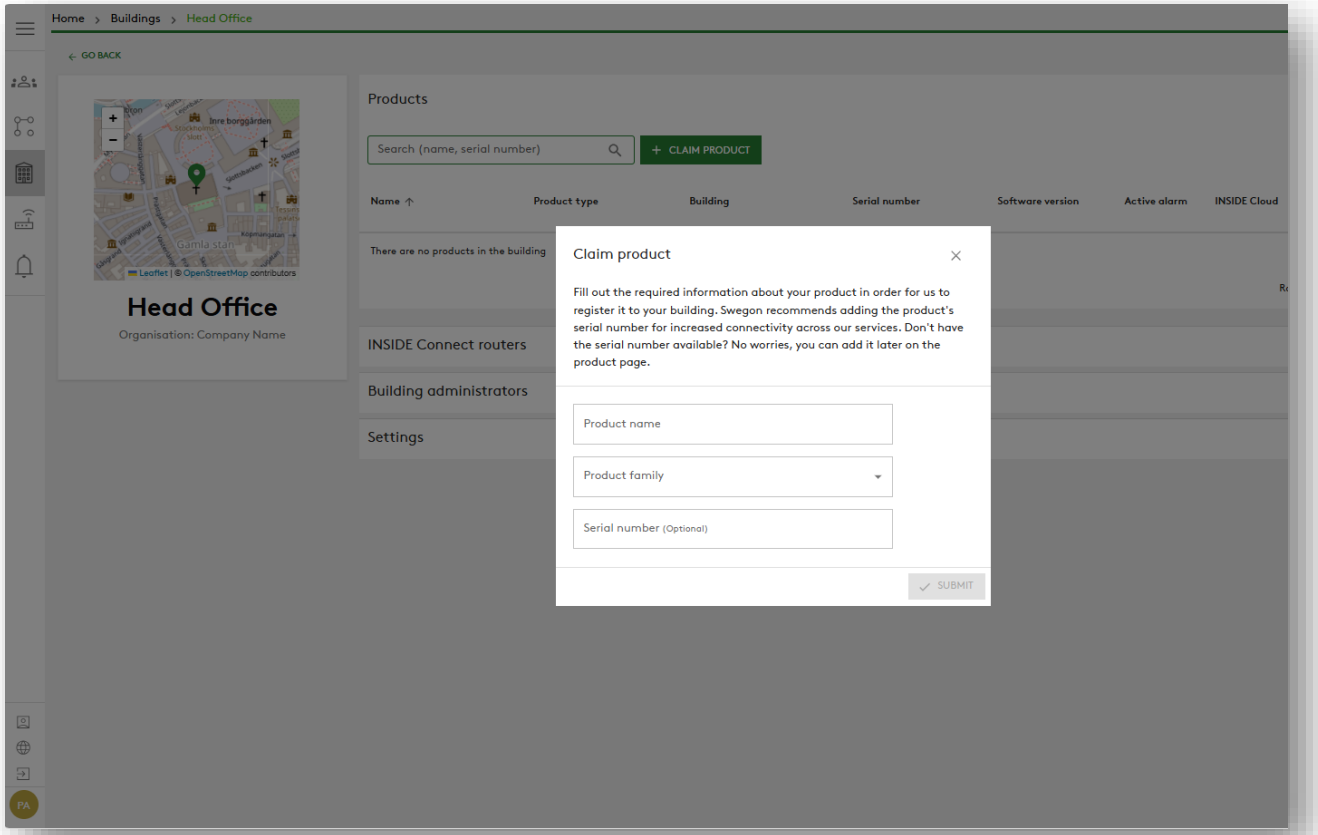
Claim product



Product name and family

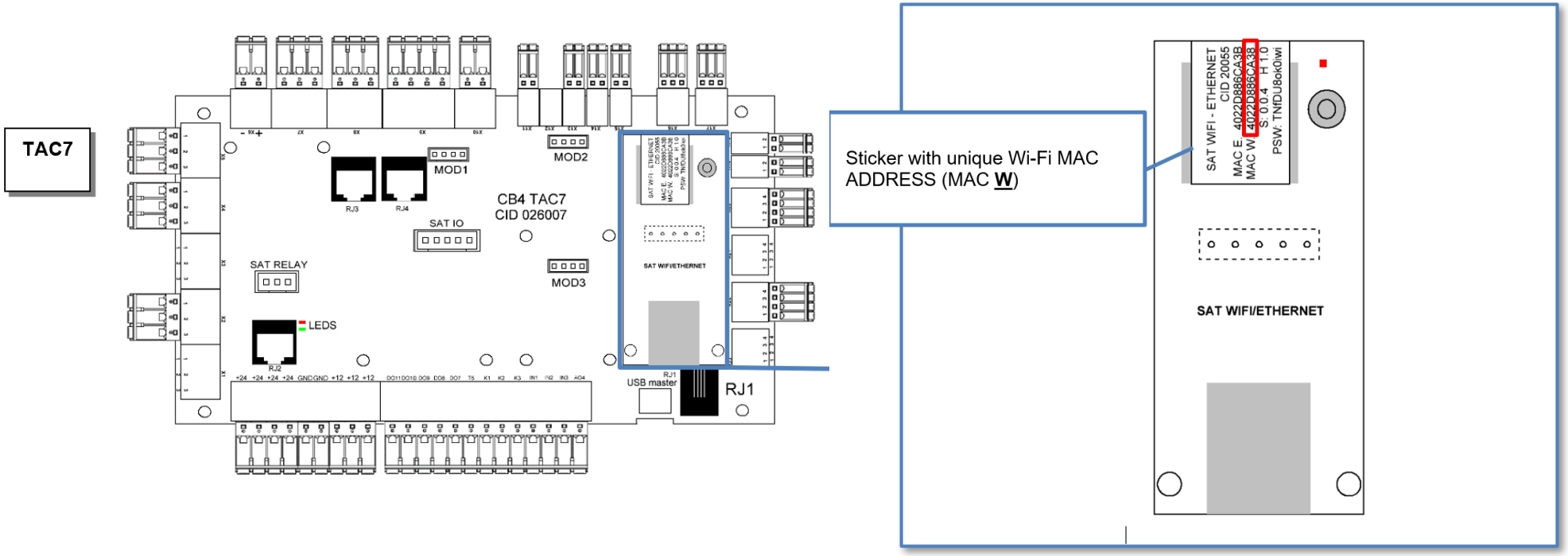
Name the product, select product family and insert the unit's serial number.

The serial number should contain 8 digits, if only 7 is shown on the product, add a "0" as first digit.



Already connected?

If the product is already connected, the only thing needed is the MAC-address of the product.

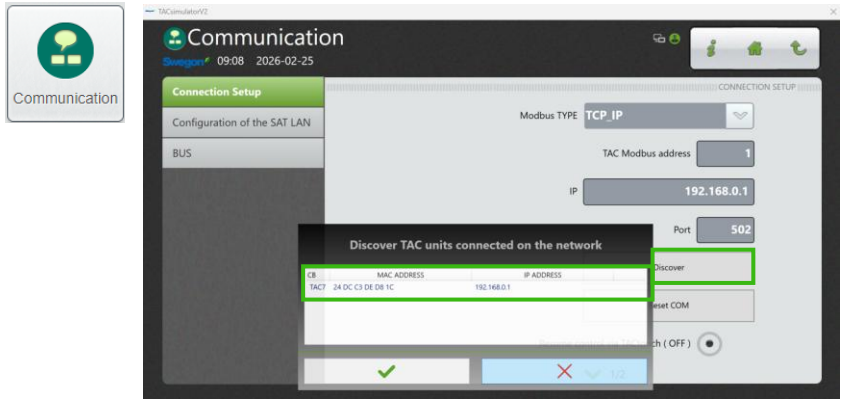


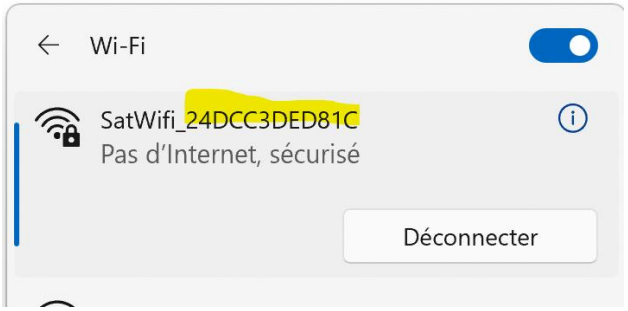
Finding the MAC-address

Software indication

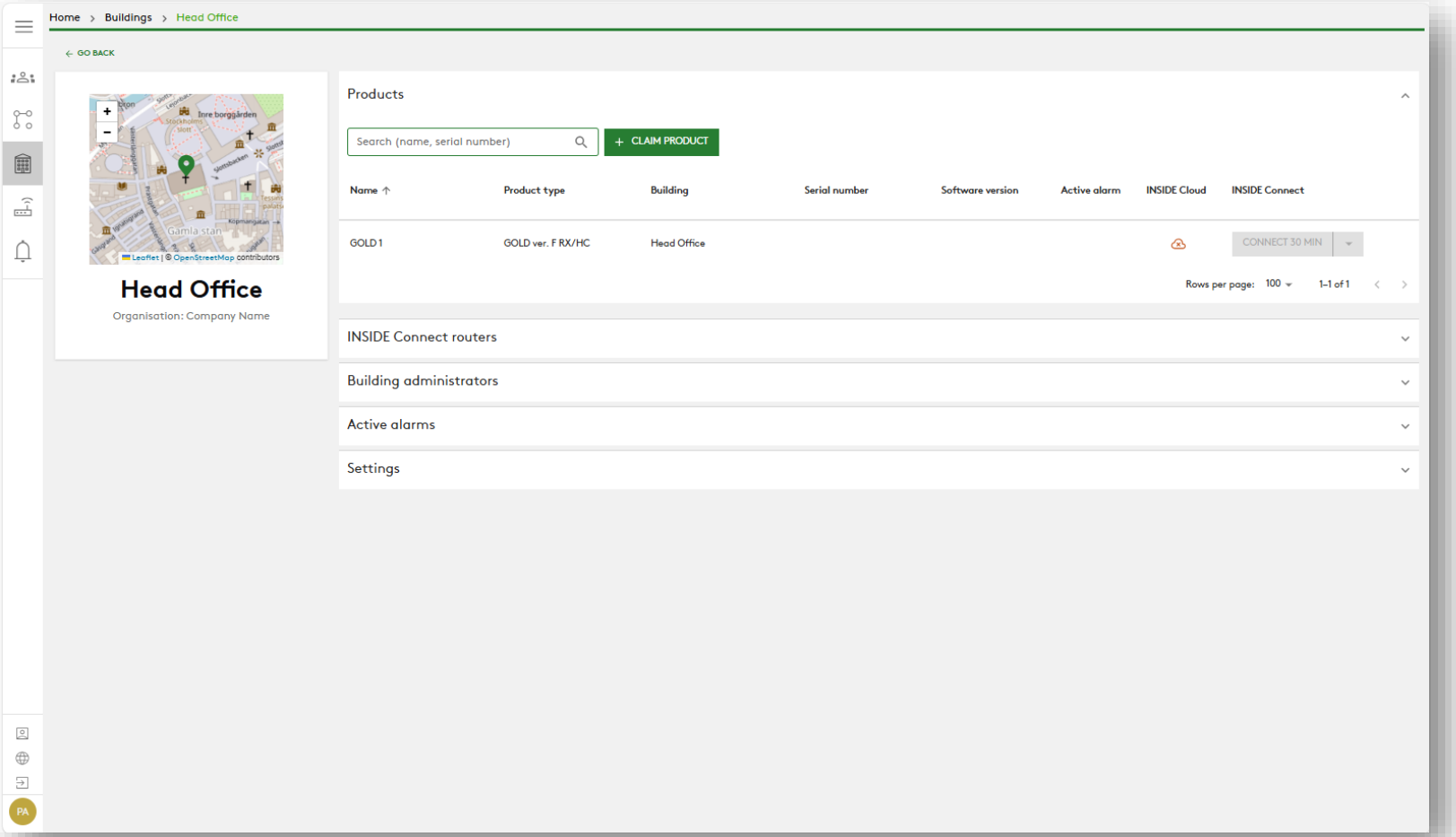
The required ‘W’ MAC ADDRESS can be retrieved with the discover function, in TACsimulatorV2: Communication → Connection Setup. It must be connected to the same Wi-Fi network as the SAT, without Ethernet cable.

The required ‘W’ MAC ADDRESS is also available in the default SSID of the SAT Wi-Fi Access Point, prior to configurating the Wi-Fi or connecting the Ethernet cable.





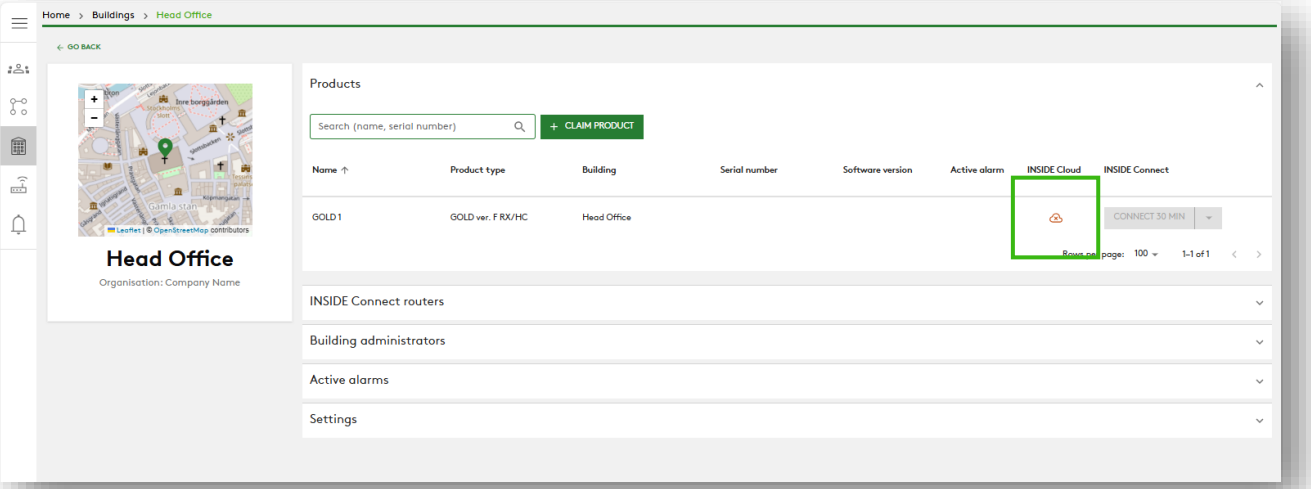
Product successfully claimed



Fault detection

If product is not connected (red cloud symbol) make sure:

- Swegon INSIDE is activated on the product
- The INSIDE Ready certificate is valid
- The product's serial number is correct in INSIDE Portal
- The firewall settings and IP-addresses are correct

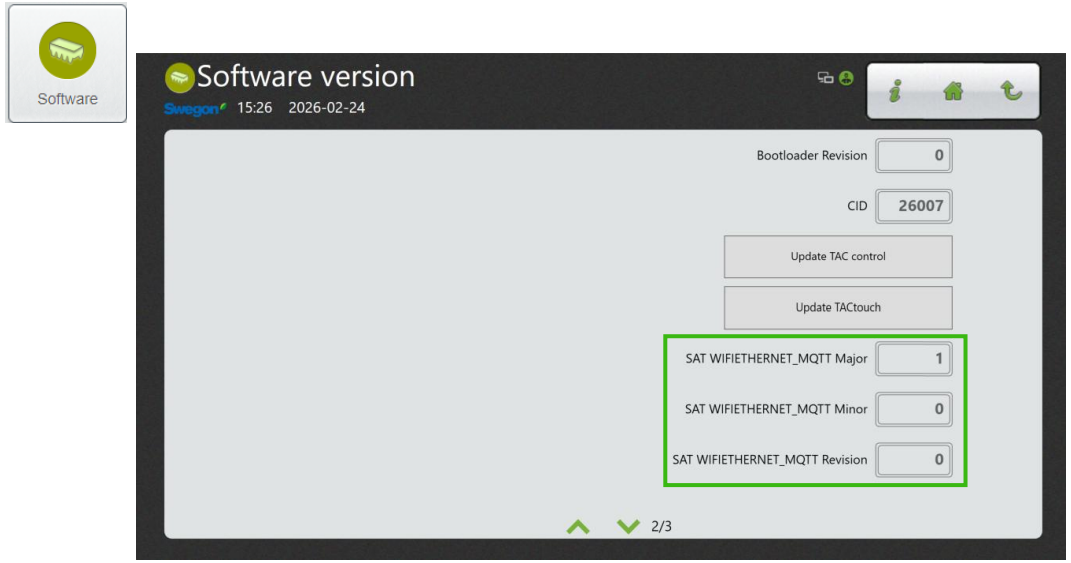


Product lacks a valid certificate

Retrofit

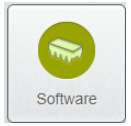
Retrofit – check software version

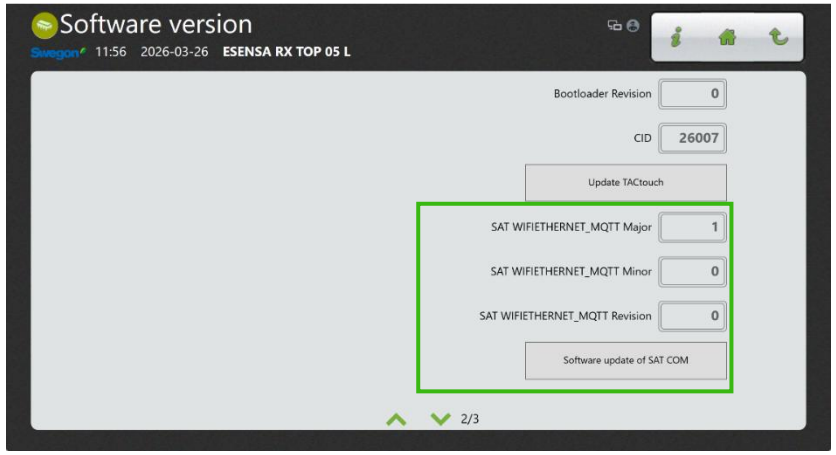
- TAC7 software version must be at least 1.0.11.3.
  - Digits from left to right represent: major version, minor version, revision number and build number.
- If an older software version, proceed to upgrade. Note that TACtouch should use latest version of TACsimulatorV2, includes latest version for control and HMI.
- Link for TACsimulatorV2
  - https://www.swegon.com/globalassets/digizuite/13657-en-installtacsimulatortac7.zip
- The upgrade procedure of TAC7 also available on Swegon website.



Retrofit – check software version

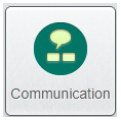
- SAT INSIDE Ready or SAT WIFI/ETHERNET software version must be at least 1.0.0.
  - The 3 digits represent: major version, minor version and revision number.
- In case of older SAT software version, setup connection as follows and press “Software update of SAT COM”.
- The minimum version to be upgraded is v 0.0.18.

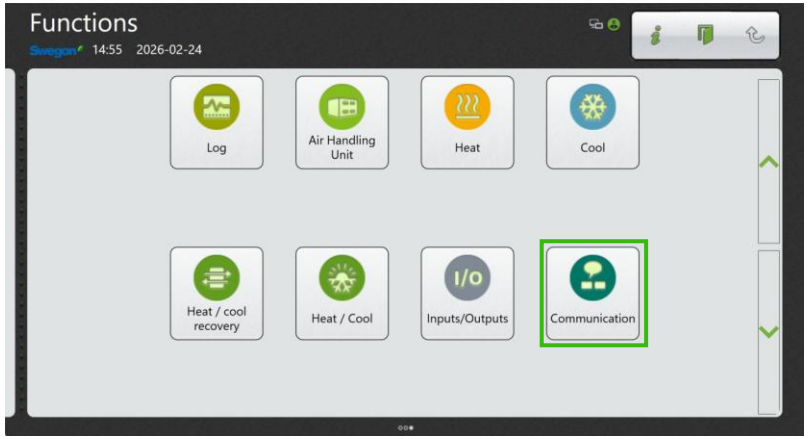


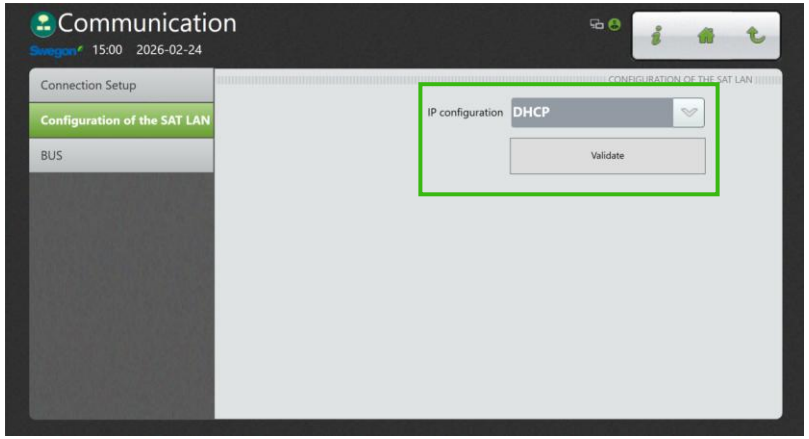


Retrofit - Connection settings in TACTouch

- Wi-Fi: no additional settings
- Ethernet: Enter “Communication/ Configuration of the SAT LAN”
  - For IP configuration, if the local network has the feature for dynamic IP configuration, which is generally the case, select DHCP
  - Otherwise, select Manual and make sure the following are filled in correctly: IP address, Net mask, Default gateway, Primary DNS
  - Press ”Validate” after the configuration

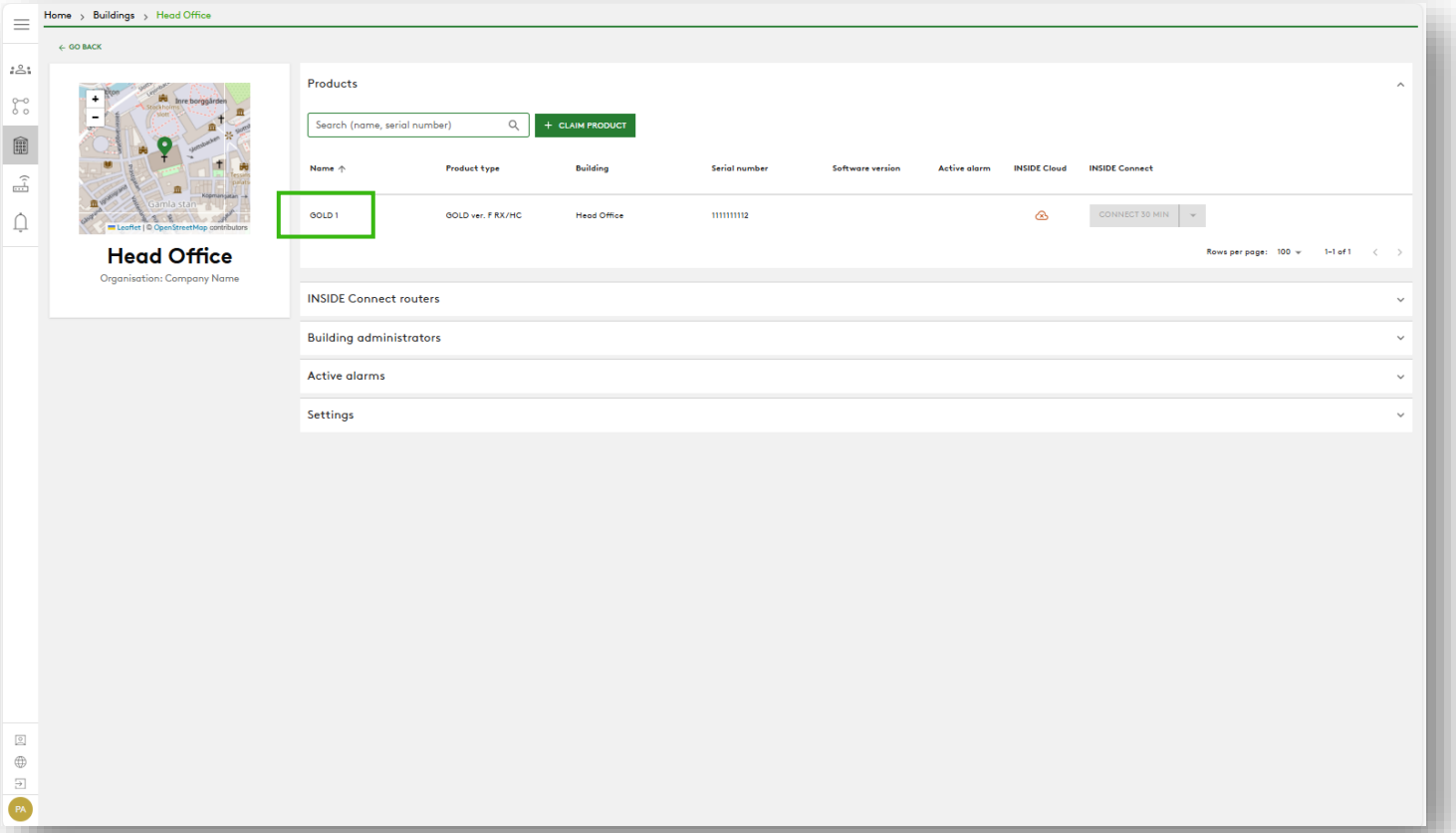






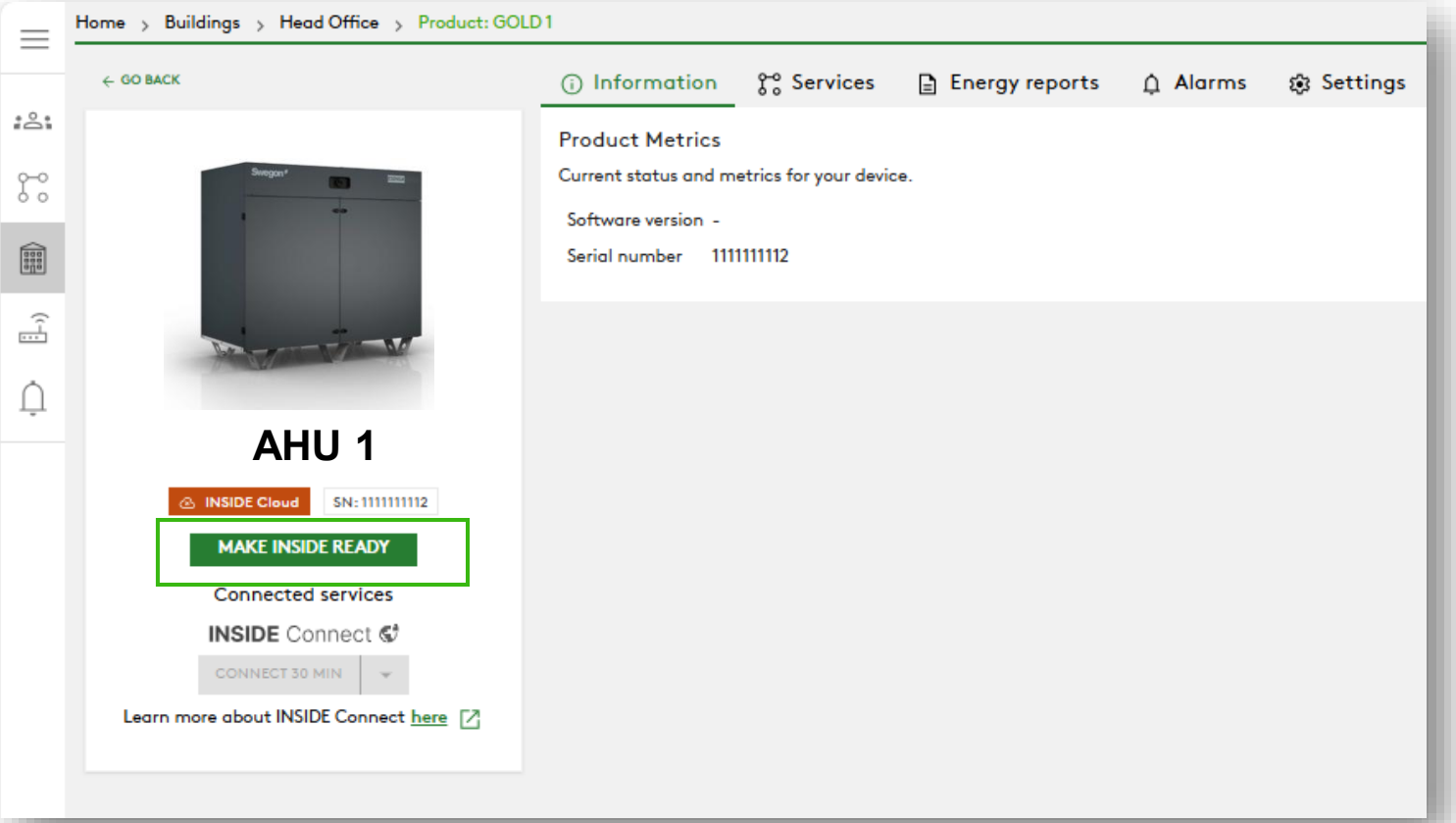
Make product INSIDE Ready

- Click on the product



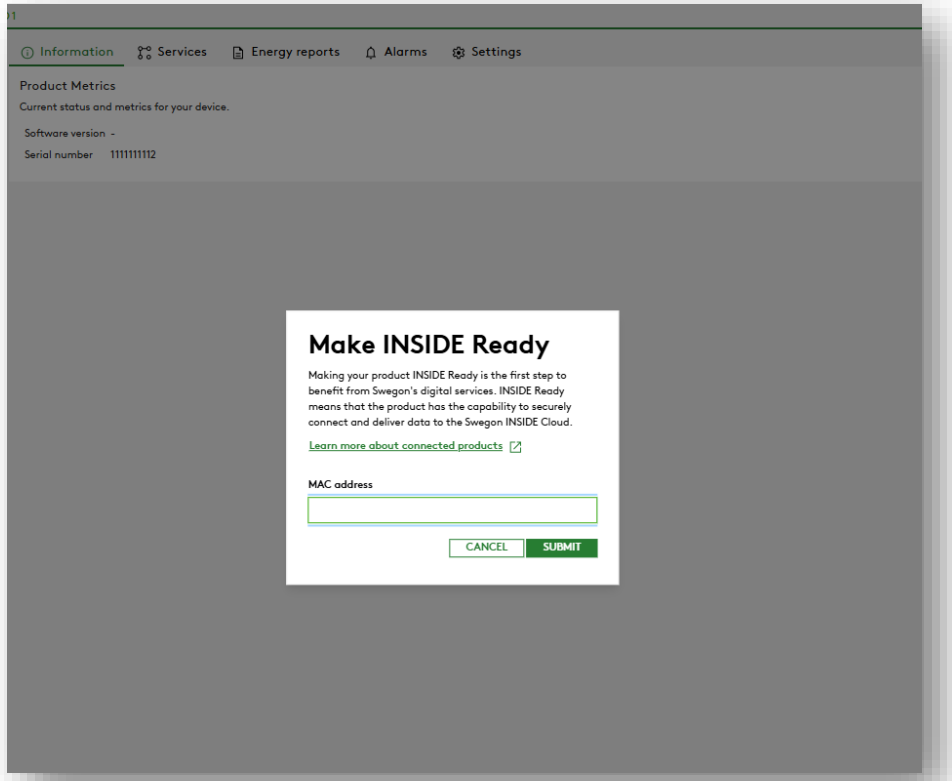
Make product INSIDE Ready

- Click “Make INSIDE Ready”



Make product INSIDE Ready

- Enter the product’s MAC address and submit.

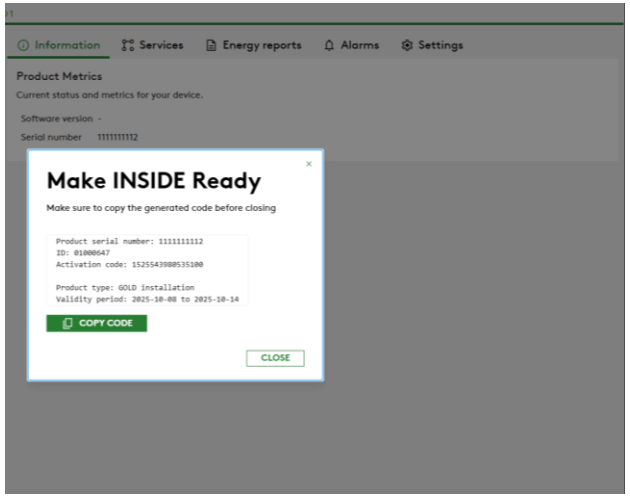


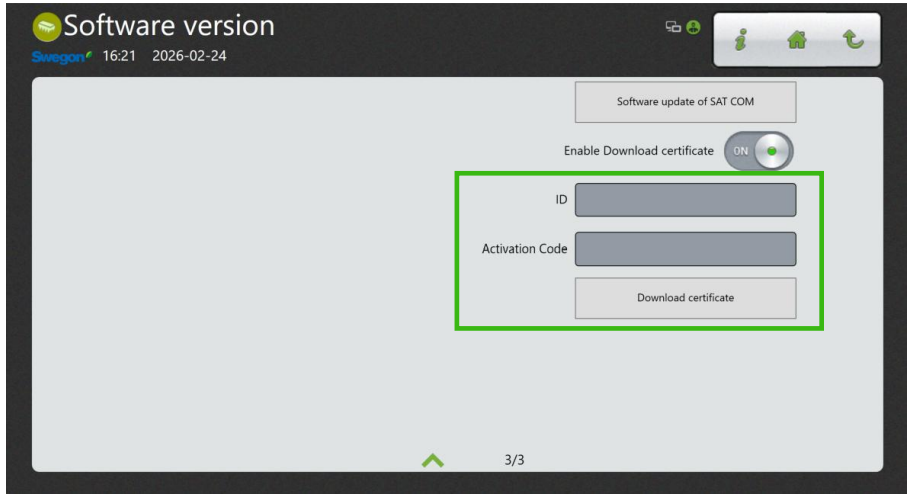
Make product INSIDE Ready

Copy ID and Activation code and enter in TACsimulatorV2, found in Functions → Software version click “Download Certificate”.

→ Product successfully connected!

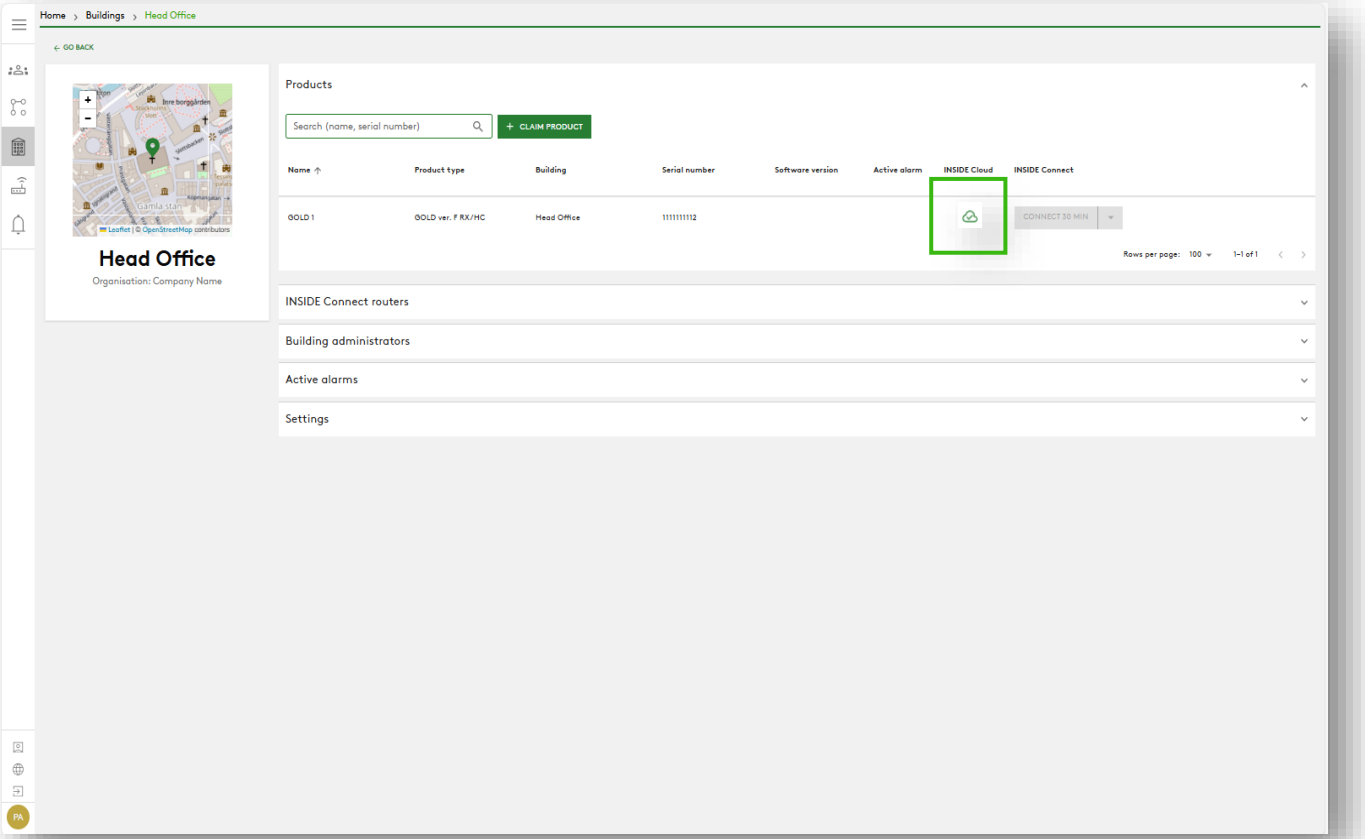
N.B.: TACsimulatorV2 must be connected to the same network of the SAT and the SAT, in turn, must be connected to a network having internet connectivity





Make product INSIDE Ready

Connectivity and data sharing is indicated with a green cloud



INSIDE Portal

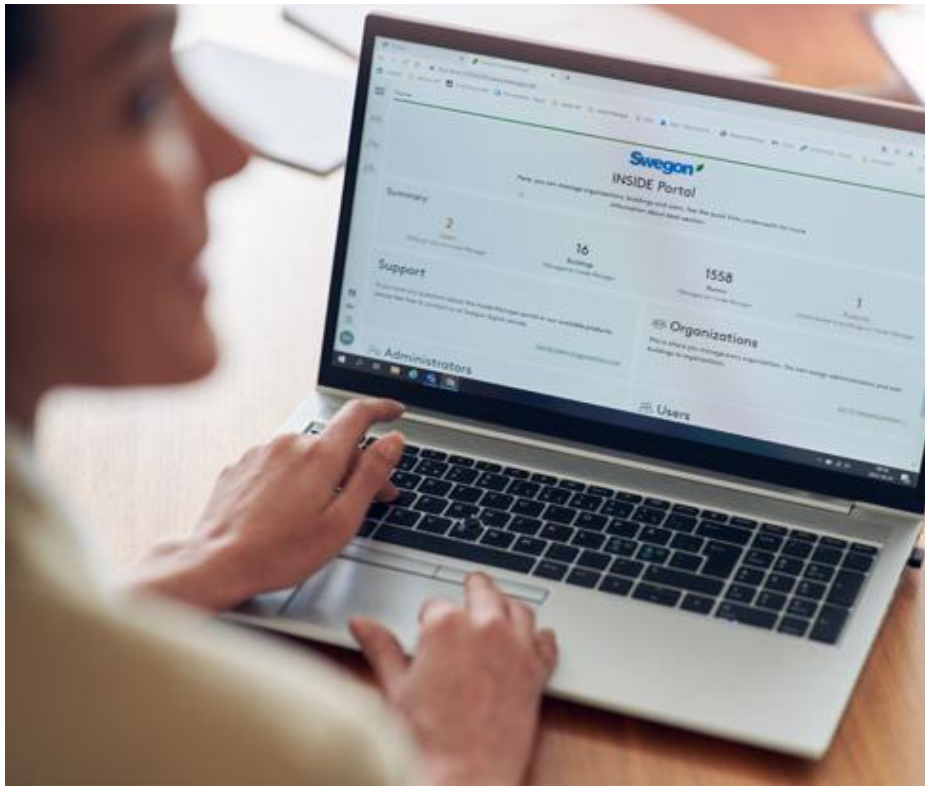
Enables remote monitoring and digital services

INSIDE Portal
– The hub for all connected Swegon products.

INSIDE Portal allows you to:

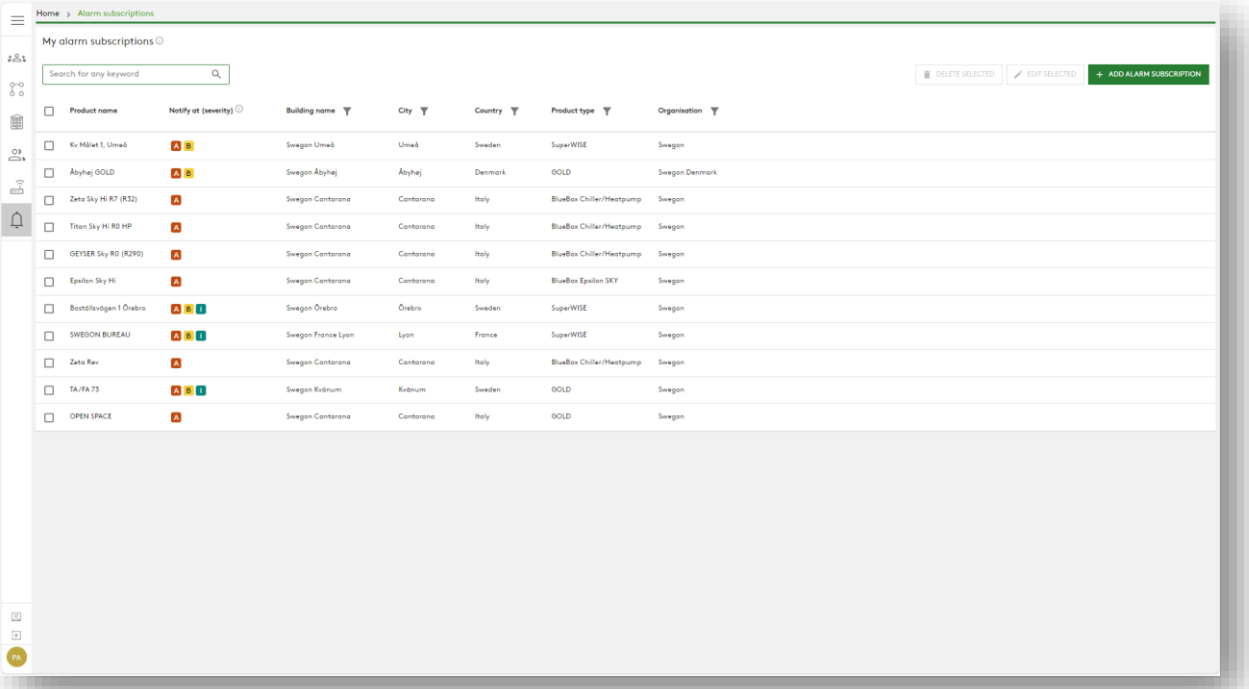
- Monitor key parameters
  - Status of air flow, pressure drop, temperatures etc.
  - Active alarms
- Gain high level insights into the AHU performance
- Easily activate additional services that can increase the efficiency of your system
- Invite portal users to share insight and delegate level of access

INSIDE Portal is free of charge



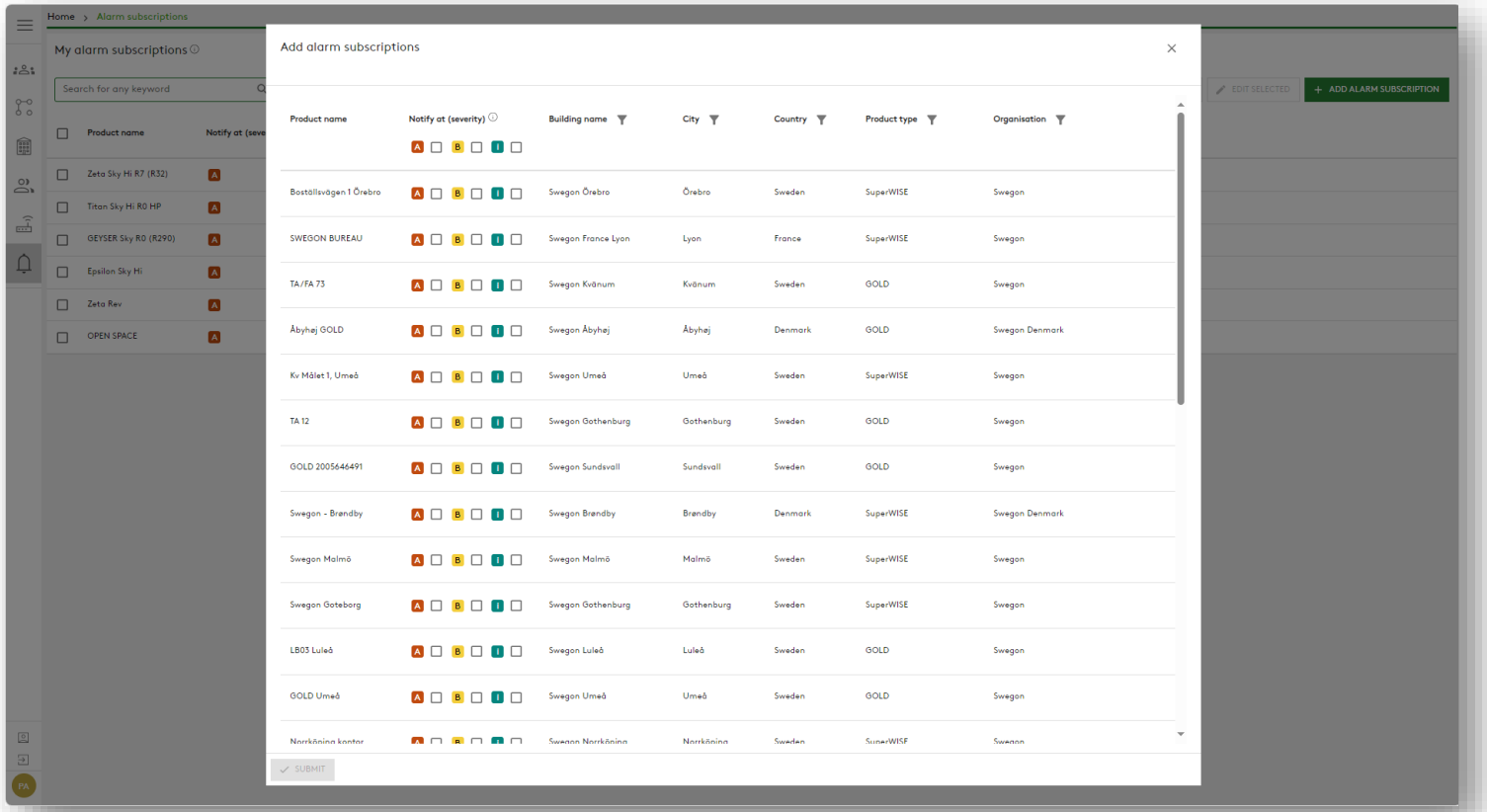
INSIDE Portal - alarm subscriptions

Alarm notifications can be sent
via email for connected units



Alarm subscriptions – how to?

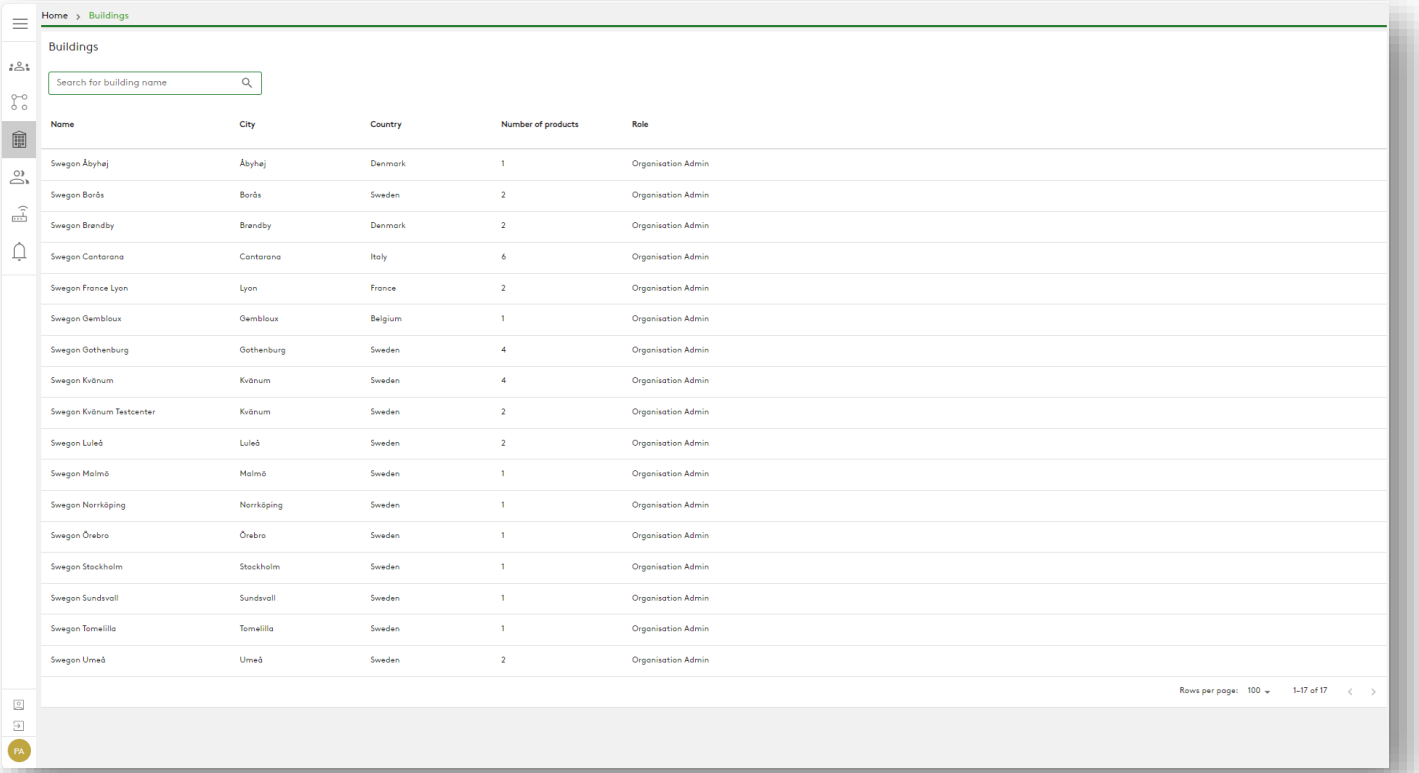
Select alarms based on product, building, city and other paramteters



INSIDE Portal – overview

Full overview of all buildings within organisation

- Building name
- Building location
- Number of products

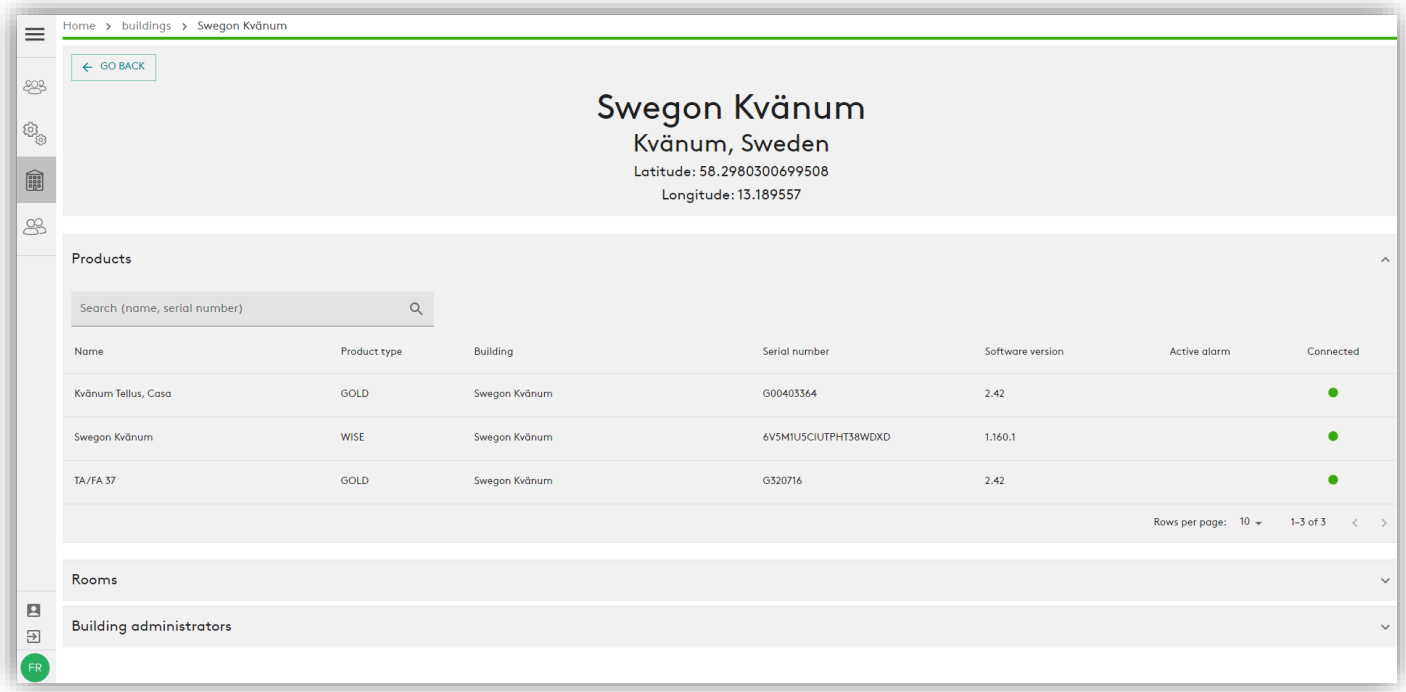


Name	City	Country	Number of products	Role
Swegon Åbyhøj	Åbyhøj	Denmark	1	Organisation Admin
Swegon Borås	Borås	Sweden	2	Organisation Admin
Swegon Brøndby	Brøndby	Denmark	2	Organisation Admin
Swegon Cantarana	Cantarana	Italy	6	Organisation Admin
Swegon France Lyon	Lyon	France	2	Organisation Admin
Swegon Gembloux	Gembloux	Belgium	1	Organisation Admin
Swegon Gothenburg	Gothenburg	Sweden	4	Organisation Admin
Swegon Kvänum	Kvänum	Sweden	4	Organisation Admin
Swegon Kvänum Testcenter	Kvänum	Sweden	2	Organisation Admin
Swegon Luleå	Luleå	Sweden	2	Organisation Admin
Swegon Malmö	Malmö	Sweden	1	Organisation Admin
Swegon Norrköping	Norrköping	Sweden	1	Organisation Admin
Swegon Örebro	Örebro	Sweden	1	Organisation Admin
Swegon Stockholm	Stockholm	Sweden	1	Organisation Admin
Swegon Sundsvall	Sundsvall	Sweden	1	Organisation Admin
Swegon Tomelilla	Tomelilla	Sweden	1	Organisation Admin
Swegon Umeå	Umeå	Sweden	2	Organisation Admin

INSIDE Portal – overview

Full overview of Swegon products per building

- Location
- Software version
- Active alarms
- Connectivity status

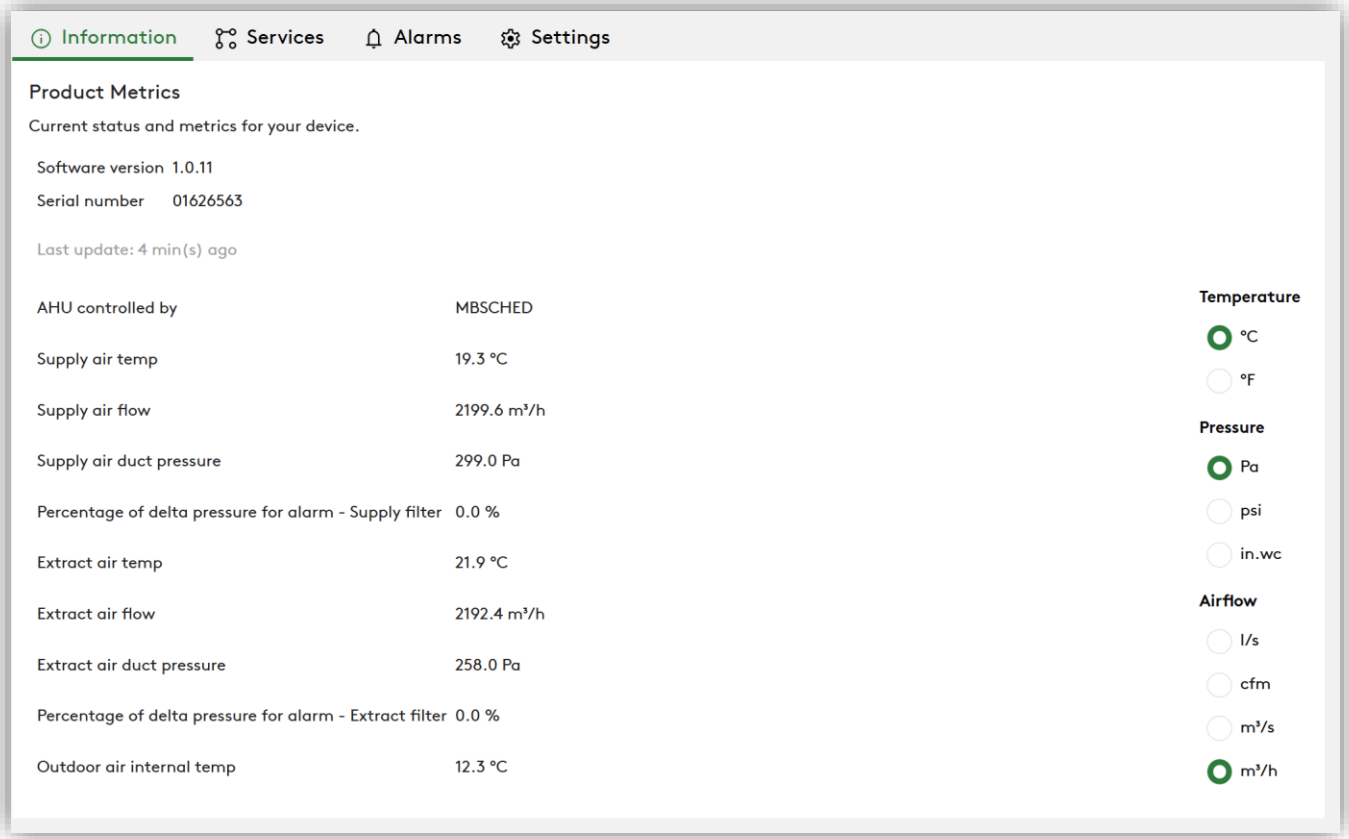


INSIDE Portal - monitoring

Monitor:

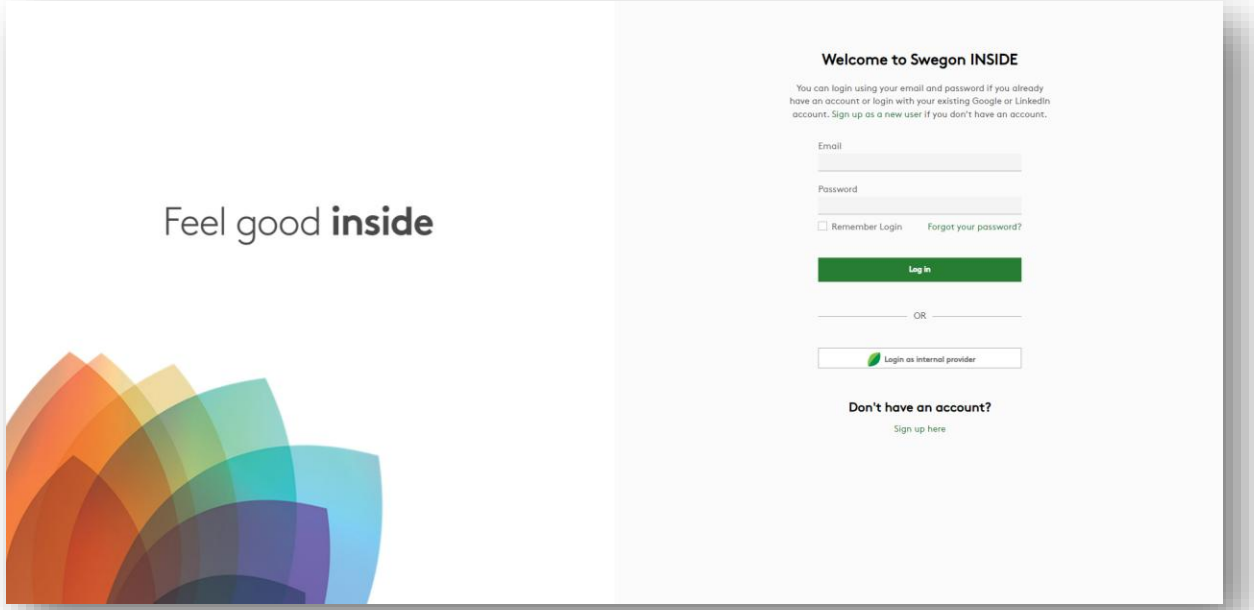
- Operational status
- Key parameters
- Alarms

→ all live, in real time



INSIDE Portal - login

https://inside.swegon.com/



Way to monitor products

GLOBAL, ESENSA & SERENITY

Inside, next to unit

Connected with:

INSIDE Connect router or Ethernet

INSIDE Portal

Additional

INSIDE Manager for configuration and control

Further Swegon **INSIDE** services

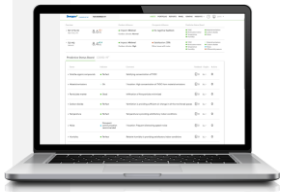
Digital services

All systems & sensor data

INSIDE Integration
Enriching customers' already existing building-related systems w. data from Swegon products.

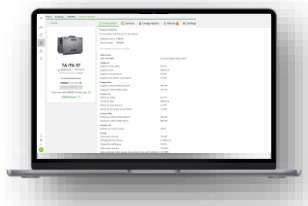
Indoor climate data

INSIDE Analytics & Visualiser
Encompassing service for IEQ, reporting, energy monitoring and occupant satisfaction.



Unit performance data

INSIDE Portal and **INSIDE** Manager
Enables unit overview, active alarms, remote monitoring and control.



Feel good **inside**