Workshop: Discover How to Retrofit Commercial Buildings in the UK for Better Energy Performance with LoRaWAN

10/12/2025

Agenda

- Welcome & Introductions: MClimate, Alliot, and Actility
- The Value of Retrofitting Non-residential Buildings
- Why smart retrofits are key to energy efficiency and compliance (Alliot) - Achieving Energy Efficiency Beyond Just Monitoring with MClimate Smart Devices
- Practical use cases and proven results from the field with ROI in 1-2 heating seasons (MClimate)
- ThingPark Enterprise All-in-One (TAO)
- - How to seamlessly connect LoRaWAN sensors to any building system (Actility)
- Use Case Example - What could work for you to implement in your next project — (Alliot)
- Live Q&A Session

Introducing the Speakers

Violeta Mitsova
CSO and Co-Founder
at MClimate

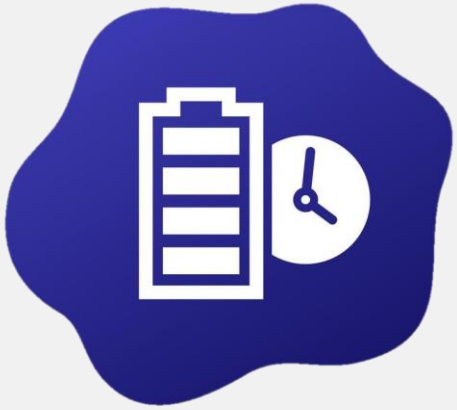
Trudi Roberts
Customer Project Manager
at Alliot Technologies ltd.

Lode Van Halewyck
Senior Technical
Consultant at Actility

Partners


Abeeway
Actility
adeunis
AQUALABO
ADVANTECH
airscan
BrighterBins
Daizy
DECENTLAB
digital matter
EASTRON
EFENTO
ellenex
ELSYS.se
Fludia
IMBUILDINGS
ioThink
kerlink
communication is everything
LORIOT
LORIX One
Climate
Milesight
netmore
netvox
Nexelec
Novacene
nwave
We Power Smart Parking
Parametric
PMX
Quandify
RAK
beau
SENSATIVE
STREGA
stacuity
Tekelek
Vodafone
IoT Partner
WATTECO
Wattsense
Synetica

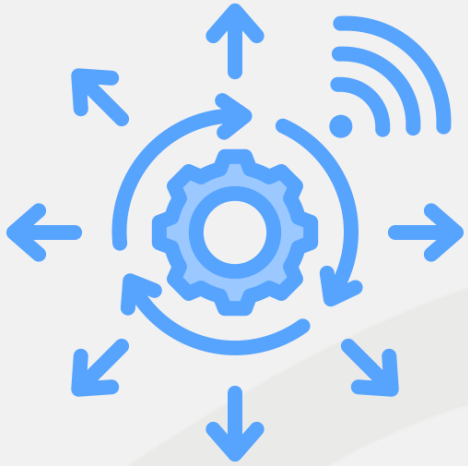
Retrofitting



Fit and forget with long battery life

Battery powered sensors – no cabling required

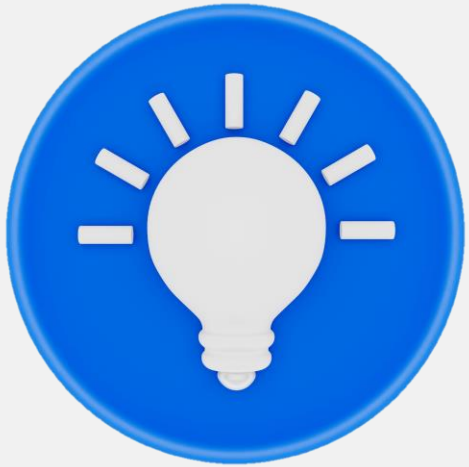
Super simple, no special qualifications required for installing



Fast deployments

Energy Efficiency

- Monitor Energy Consumption
- Cut energy waste
- Automate tasks via BMS
- Build schedules within an existing BMS

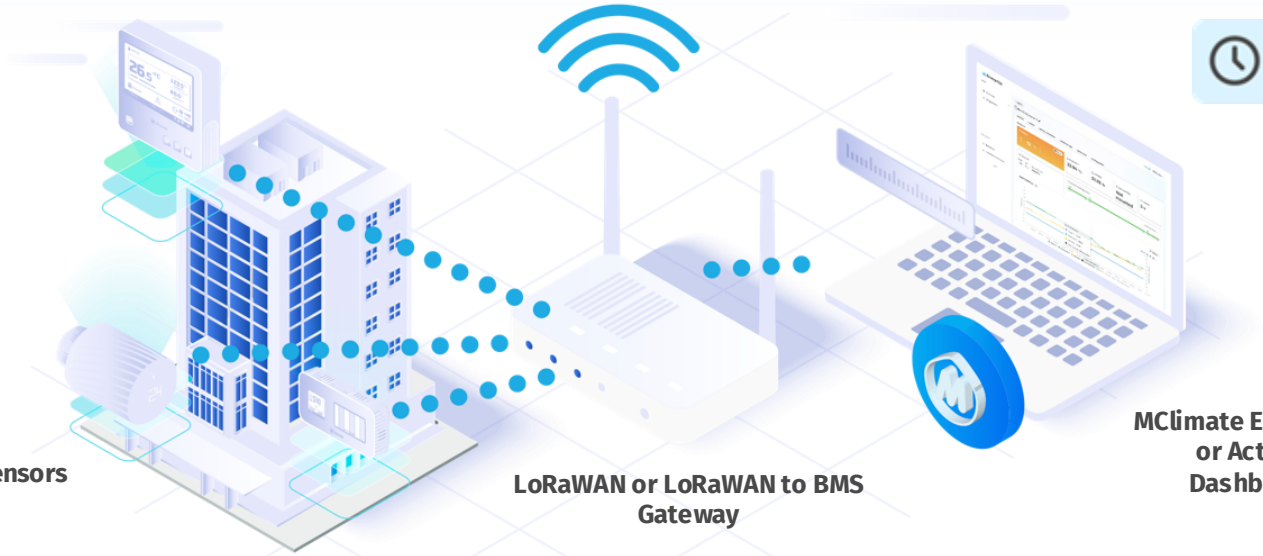


Retrofitting Commercial Buildings with MClimate Smart Solutions

Leverage the right smart technology to measure and advance your buildings' performance.

- Enhance your Reputation and Brand Image
- Improve Occupants Experience
- Achieve Your ESG Goals and Reduce Carbon Footprint
- Increase Your Building Value

- Achieve up to a 35% Reduction in Energy Consumption Costs
- Track, Report, and Improve your Buildings' Performance
- Remote Control and Easy Device Management
- Fast and Easy Implementation within 24 Hours



MClimate

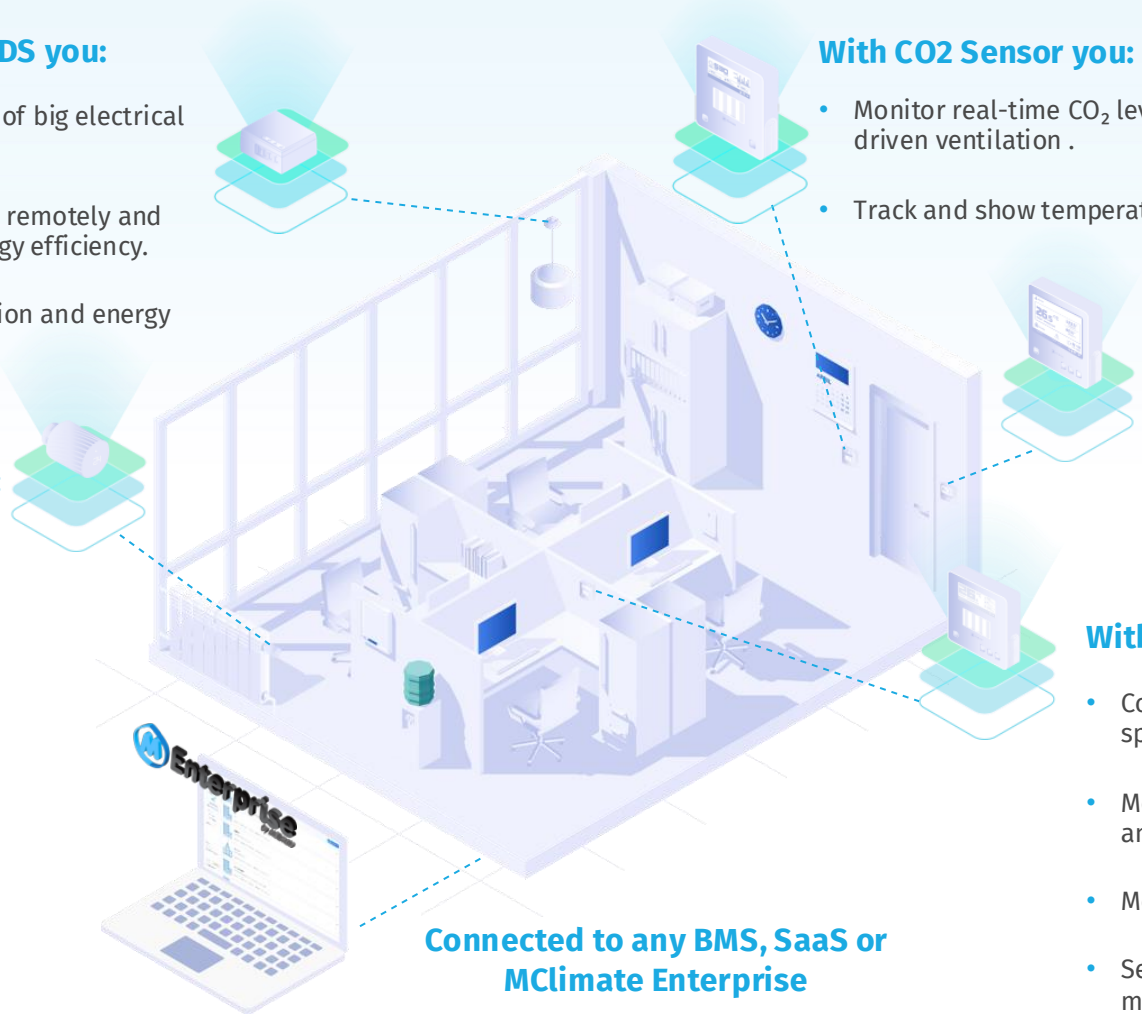
IoT Energy and Air Quality Managements Retrofit

With 16ASPM and/or 16ADS you:

- Monitor power consumption of big electrical appliances or lights
- Control electrical appliances remotely and set schedules, ensuring energy efficiency.
- Reduce electricity consumption and energy costs

With Vicki Smart Radiator Thermostat you:

- Control remotely your radiators and activate child lock
- Control heating system based on opened/closed windows
- Set hourly, daily and weekly automatic schedules
- Achieve 15-35% energy consumption savings (kWh)



Connected to any BMS, SaaS or MClimate Enterprise

With CO2 Sensor you:

- Monitor real-time CO_2 levels and implement demand-driven ventilation .
- Track and show temperature, humidity, and light levels.

With Fan Coil Thermostat you:

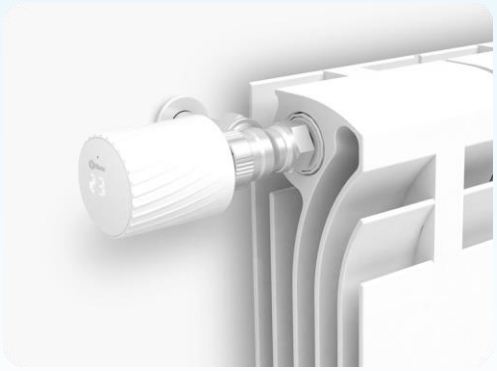
- Control remotely or manually 2- and 4-pipe Fan Coil Units, accommodating 3-speed or ECM fans
- Show current temperature, target temperature and humidity levels
- Realize up to 30% initial savings

With Wireless Thermostat you:

- Control all Vicki TRVs from one place in bigger spaces
- Monitor temperature, humidity and LUX levels and make the necessary adjustments.
- Motion detection
- Set it up once and forget about it – entirely maintenance-free.

MClimate

MClimate Smart Devices for Climate & Energy Control



Vicki Smart Radiator Thermostat LoRaWAN®

Heating accounts for over 60% of a building energy use and 35% of CO2 emissions. Vicki allows you to easily retrofit 90% of the radiators, allowing monitoring, control and optimisation of your energy usage generating up to 35% bill and 45% overall savings. 10+ years battery life.

Fan Coil Thermostat LoRaWAN®

The Fan Coil Thermostat (FCT) is LoRaWAN device for 2- and 4-pipe Fan Coil Units, accommodating 3-speed or ECM fans. Ideal for building retrofitting, it enhances energy efficiency and reduces heating/cooling expenses significantly. With its 4.2” e-ink fast refresh display it allows the end-users to change the target temperature and see current indoor conditions.

Wireless Thermostat LoRaWAN®

MClimate Wireless Thermostat is entirely powered by solar energy, using an organic solar panel. It features a 2.9" e-ink screen, sensors for movement (PIR), temperature and humidity and 3 buttons. The user can change the target temperature and track current indoor conditions.

Melissa Smart AC Controller LoRaWAN®

With Melissa AC Controller LoRaWAN you can control your air conditioner from your smartphone and fully optimize your comfort. This smart device can save you up to 25% on your A/C’s energy consumption and maintain the perfect temperature for you at all times.

MClimate Smart Devices for Climate & Energy Control

HT LoRaWAN®

Aimed to provide an accurate and timely information for office, home, commercial, public indoor temperature and humidity with 10+ years battery life with AA Lithium batteries. Easily paired with Vicki to offer external control of radiators in larger rooms for most comfortable environment.

HT + PIR lite LoRaWAN®

MClimate HT + PIR lite LoRaWAN® is a device that combines a PIR sensor with temperature and humidity sensors to ensure space indoor climate optimisation and demand-based ventilation. Powered by two AA batteries, the device can operate for up to 15 years under default configuration mode. The data from the HT + PIR can be integrated into any LoRaWAN®-compatible system, including Building Management Systems, and exposed as datapoints in Modbus, BACnet, and KNX systems through a dedicated gateway.

MClimate 16A Switch & Power Meter LoRaWAN®

The MClimate 16ASPM LoRaWAN® is a compact 16A relay and electricity meter. The device is small enough to fit behind most wall switches and power equipment, enabling you to automate, track, and control your electrical appliances. This is possible as the device has 4 terminals L, N, N, Lout, and it works in a way that connects and disconnects Lout from L. With an overheating protection mechanism, FUOTA (Firmware Upgrades Over The Air), and operation in LoRaWAN Class C, the MClimate 16ASPM is ideal for rapid building retrofitting.

MClimate 16A Dry Switch LoRaWAN®

The MClimate 16A Dry Switch LoRaWAN® is a miniature device that features a dry 16A relay. The device is small enough to fit behind most wall switches and power equipment, enabling you to automate, track, and control your electrical appliances. The device has 4 terminals L, N, I, O, connecting and disconnecting I from O. The 16ADS features an overheating protection mechanism, operates in LoRaWAN Class C, and supports FUOTA.

Climate

MClimate Smart Devices for Air Quality Monitoring

MClimate CO2 Sensor & Notifier LoRaWAN®

A 3-in-1 sensor with temperature humidity, and CO2 levels based on NDIR actual CO2 readings. Measures exact CO2 levels with a configurable buzzer and LED to notify tenants if the CO2 level is below a predefined threshold ensuring health and safe environment.

MClimate CO2 Display LoRaWAN®

MClimate CO2 Display is entirely powered by solar energy, using an organic solar panel. It features a 2.9" e-ink screen, sensors for movement (PIR), temperature and humidity and a CO2 NDIR sensor.

MClimate CO2 Display lite LoRaWAN®

Just like the MClimate CO2 Display, the lite version is equipped with temperature and humidity sensor, LUX sensor and NDIR CO2 sensor. Featuring smaller 1.54" e-ink screen the device is showing the current levels of CO2 as well as historical trends. The data from the CO2 Display lite can be used in any LoRaWAN® compatible system, incl. Building Management Systems to control demand-based ventilation. Sensor information can be exposed as datapoints in Modbus, BACnet and KNX systems through the use of a special gateway.

CO2 + PIR lite LoRaWAN®

The MClimate CO2 + PIR lite LoRaWAN® combines an NDIR CO_2 sensor, a PIR sensor, and temperature and humidity sensors to deliver comprehensive monitoring and optimization of indoor climate conditions. Powered by two AA batteries, the device can operate for up to 15 years under default configuration mode. The data from the CO2 + PIR can be integrated into any LoRaWAN®-compatible system, including Building Management Systems, and exposed as datapoints in Modbus, BACnet, and KNX systems through a dedicated gateway.

MClimate Smart Devices for Automation & Water Control

Multipurpose Button LoRaWAN®

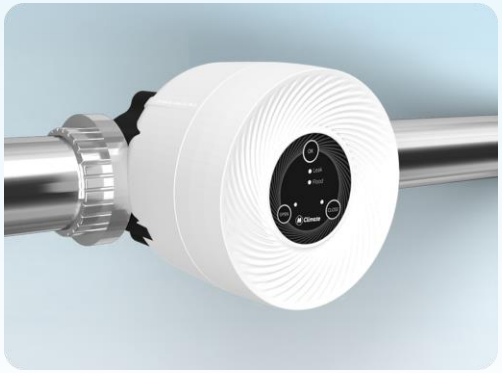
The Multipurpose Button LoRaWAN® is a simple device with versatile and configurable use for many client applications. Featuring a single button with a temp. sensor and 3 types of clicks, only your imagination limits all possible actions when the customer presses the button.

Open/Close Sensor LoRaWAN®

The Open/Close Sensor LoRaWAN® detects the event of opening or closing windows, doors, cabinets and more. It features long battery life, LED, temp. sensor and a button. The device sends an uplink for every event and keeps an internal counter of the total number of events.

Flood Sensor LoRaWAN®

Identify floods or leakage as soon as they happen with our small yet powerful battery-operated LoRaWAN sensor. It will notify you through an app or IoT desktop solution when a leak is detected, so you can take things into control and save you money and effort in the long run.



MClimate T-Valve LoRaWAN®

Floods and leaks rarely happen, but when they do, it can cost a fortune to fix the damage. Pair T-Valve with our flood sensor to have total leak detection, flood prevention for a total peace of mind. 3/4" and 1" version; 10+ years battery; 2 temperature digital sensors and soon flow meter.

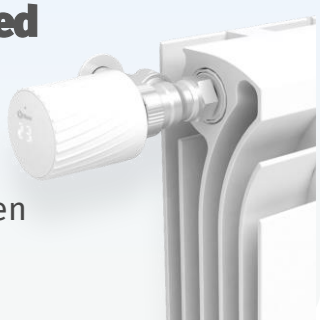
Driving Success in Commercial Properties with Smart LoRaWAN Solutions

Proven Solution

Pioneered in 2018 as the first LoRaWAN TRV, now perfected after 7+ years of development.

LoRaWAN® Certified

Vicki is the first LoRaWAN® certified Smart Radiator Thermostat and has been deployed since 2019.



Future-Proofed

The only smart TRV with Firmware Updates Over The Air (FUOTA).

FCC & CE Certified

Vicki meets the highest standards for safety and compliance, ensuring smooth operation and reliable performance.

EU-Made

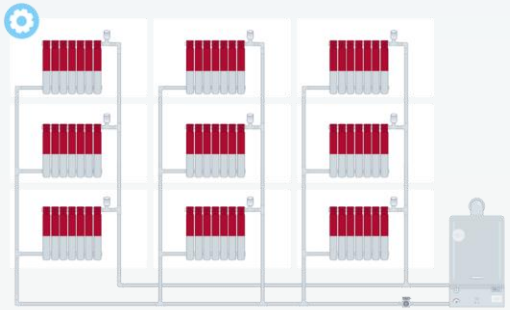
With a fault rate of less than 1% in the last 2 years, designed to the highest quality and regulatory standards.

30k+ monthly

Vickies sold and installed since launch.

Certified for Automatic Hydraulic Balancing

TÜV Rheinland confirms that the Vicki LoRaWAN® Smart Radiator Thermostat is capable of performing automatic adaptive hydraulic balancing on an unbalanced heating system.



Measuring success: Expected POC Outcomes and Financial Impact

- Achieve 15-35% energy consumption savings (kWh)
- Control heating system based on opened/closed windows
- Reduce energy waste based on occupancy of the room
- Set hourly, daily and weekly automatic schedules of the heating/cooling system
- Easy remote management of the devices

- Measure, analyze, and optimize in real-time and historical building data and sustainability reports
- Retrofit without major renovations or high costs
- **Quick ROI - 12-18 Months**
- Improve CO2 (eqCO2) savings to up to 20%
- Improve occupants comfort and create healthy indoor environment

Recent Smart Buildings Use Cases – UK

Vicki LoRaWAN (10k+)
Student Housing SaaS

CO2 Notifier (3k+)
Schools IoT Integrator

Vicki LoRaWAN (1k+)
Heritage IoT integrator

Vicki LoRaWAN
Forest Rock

Vicki LoRaWAN
Nordomatic

Vicki LoRaWAN
Orka

Vicki LoRaWAN
PB Controls

Vicki LoRaWAN
SSE (TESGL)

Vicki LoRaWAN
SSE

16A Switch&Power Meter
Sustainable Smart Tech

Vicki LoRaWAN
Uni of Glasgow

16A Dry Switch
Primary School

16A Dry Switch
CX Controls

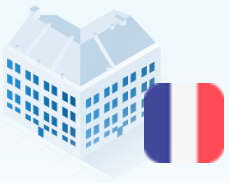
Vicki LoRaWAN
IoT Integrator

Vicki LoRaWAN
IoT Integrator

Recent Smart Buildings Use Cases – EU and the UK

Hotels
(50,000+ Vicki)
SaaS provider

Student Housing
(10k+ Vicki)
SaaS Provider

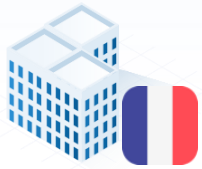


Paris Schools
(10k+ Vicki)
Government + Siemens

Office
(4,000+ Vicki)
BMS Integrator

School Buildings
(3000+ CO2)
IoT Integrator Installation

Museum/ Public Site
(750+ Vicki /350+ WT)
BMS Integrator



Residential
(1,500+ Vicki /15000+ HT)
IoT Solutions Provider

Offices
(1,500+ Vicki)
German JV and Utility

Business Center
(1,500+ Flood Sensors)
IoT Integrator

Hotels
(1,000+ Vicki)
Hotel operator

Police Station
(1,000+ Vicki)
Energy Efficiency Provider

9 Schools
(1,000+ Vicki)
IoT Solutions Provider

Museum/ Public Site
(750+ Vicki /350+ WT)
BMS Integrator

Dutch Schools
(500+ Vicki)
SaaS and Energy Advisor

Offices
(500+ Vicki)
IoT Integrator

Industrial Site Offices
(500+ Vicki)
Industrial Corporate

Belgian University
(423 Vicki)
Vrije University

Bulgarian Bank Office
(300+ HT, CO2, Open/Close)
Banking Corporate

M Climate

Measuring success: Detailed Example Walk Though

KEY PROJECT ASSUMPTIONS		
Number of buildings	1	*number of gateways can be higher depending on existing infrastructure*
Number of radiators	100	

Illustrative Set Up Costs in GBP (excl VAT)	No. devices	Unit Price	Total Price	Comments
One off set up costs				
Hardware (Wattsense gateway with LNS)	1	1 000	1 000	*can range*
Hardware (Vicki TRV LoRaWAN)	100	65	6 500	*volume discounted*
Total one off set up cost			**7 500**	*one off*
Existing property management installation			-	
Total investment cost			**7 500**	

Energy consumption (1000 sqm building)	Building 1	
Office building size (sqm)	1 000	
Average heating requirement per building per month (based on sqm/hour)	160	*Between 150-180 kWh/m² for UK non-residential office buildings*
Use pattern calculation per year based on:		
Working hours (heating and/or cooling)	9	
Work days (5 per week) - assuming 6 months per year	124	
Energy use per year (kWh)	178 560	
Yearly consumption (kWh)		
of which heating	95%	*usual split for office*
of which water	5%	*usual split for office*
Price per kWh (GBP) - day energy price	0,250	*UK range 0.25-0.29*
Price for heating of building (GBP)	42 408	
Price for water heating of building (GBP)	2 232	
Total average yearly bill (GBP)	**44 640**	

Energy savings (Yearly)	Low	Medium	High
Per building	15%	25%	35%

Project savings - LOW	Year 1
Investment requirement (GBP)	-7 500
Savings (GBP)	6 696
Cash flow impact (GBP)	**-804**

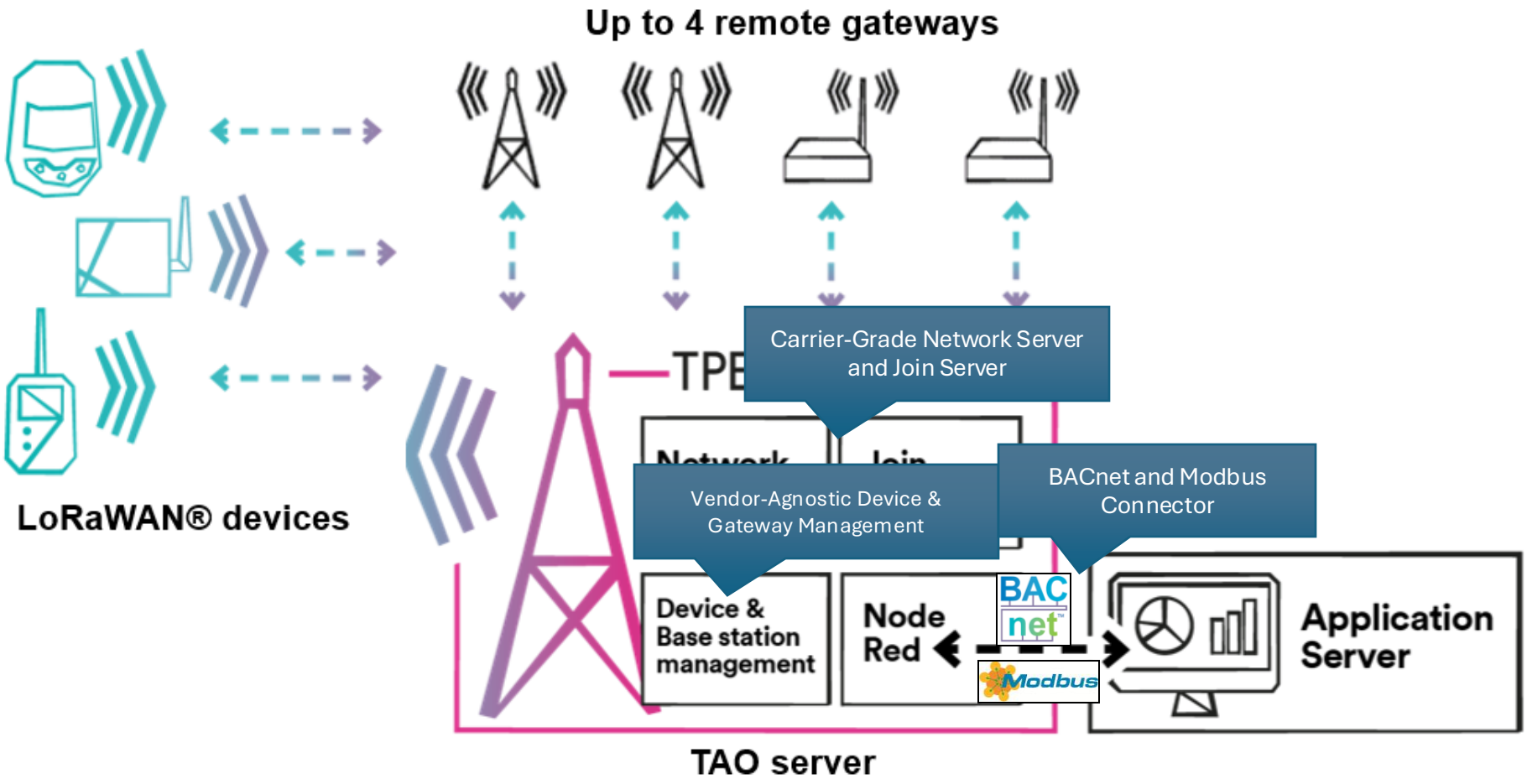
Project savings - MEDIUM	Year 1
Investment requirement (GBP)	-7 500
Savings (GBP)	11 160
Cash flow impact (GBP)	**3 660**

Project savings - HIGH	Year 1
Investment requirement (GBP)	-7 500
Cash flow impact (GBP)	15 624
	8 124

ThingPark Enterprise All-in-One (TAO)

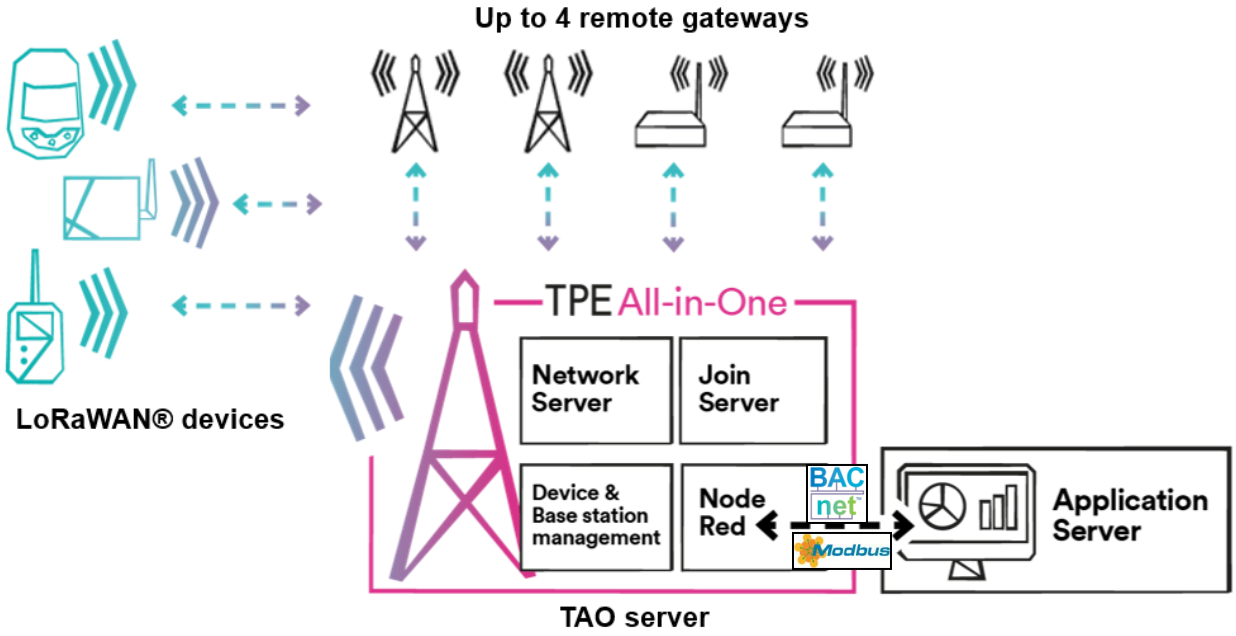
Actility

ThingPark Enterprise All-in-One



Actility

ThingPark Enterprise – Unique Value



Unique Value

- Managed Catalogue of **Device Drivers**
- Available on several gateway brands and models
- Support of **up to 4 remote gateways**
- Providing off-the-shelf connectors for **BACnet & Modbus**
- **Seamless Migration** path to TPE Full solution

Actility

The Value of Macro-Diversity in TAO

Operational Efficiency

No need to associate devices to specific gateway

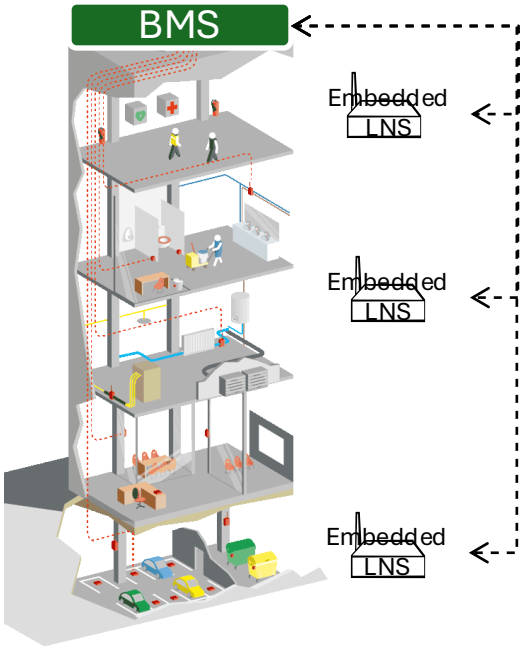
Resilience

No single point of failure

Better QoS - Better Battery-life

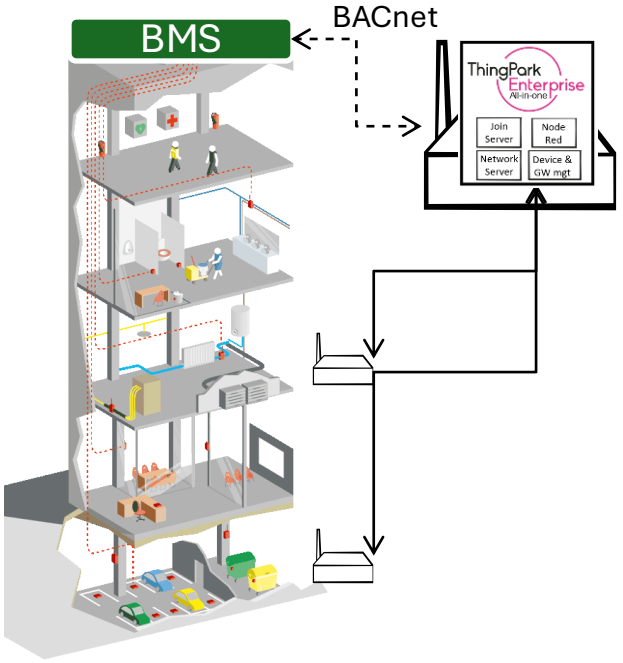
Devices will use optimized Spreading Factor

Without Macro-diversity



- Devices have to be associated to a specific Gateway
- The battery-lifetime of devices will not be optimized
- Every gateway has to be integrated to the BMS
- A gateway is a Single Point of Failure (SPOF)

With Macro-diversity



- Centralized device provisioning
- Optimized battery life-time of devices.
- Only 1 integration to the BMS (TAO Master)
- No SPOF. Backup-Restore of the TAO master gateway.

Actility

Local base station
Remote base stations
Devices
Dataflows
Advanced management

Local base station

INFORMATION

Name

TAO

LRR-UUID

7076FF-7076FF0585F8

LRR-ID

FFFFFFFF

STATUS

Network Connection — CONNECTED / DISCONNECTED

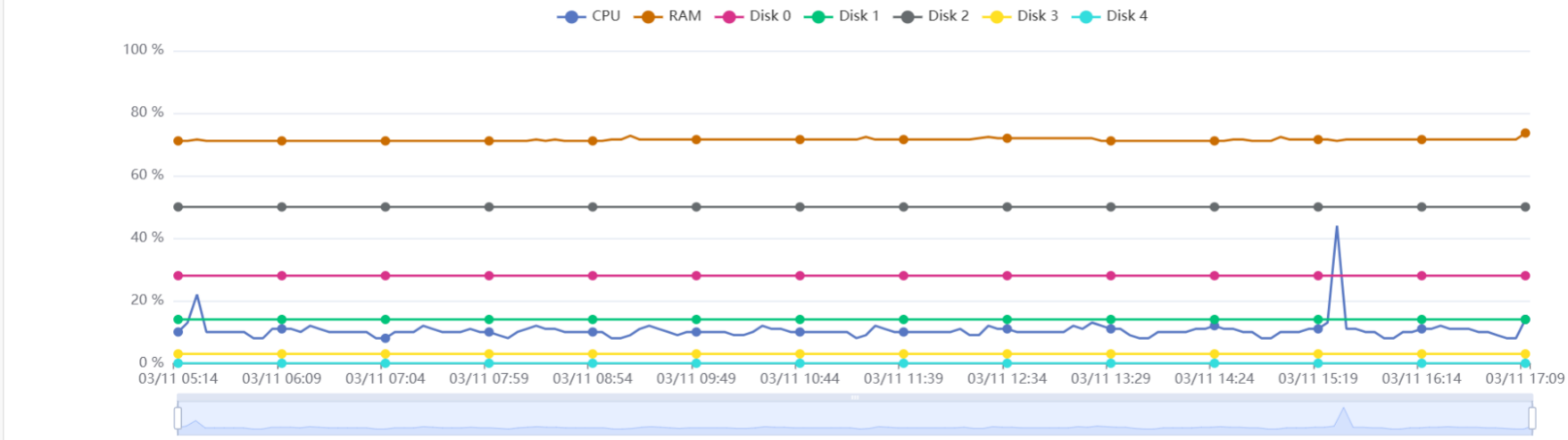
LoRaWAN® Radio — STARTED

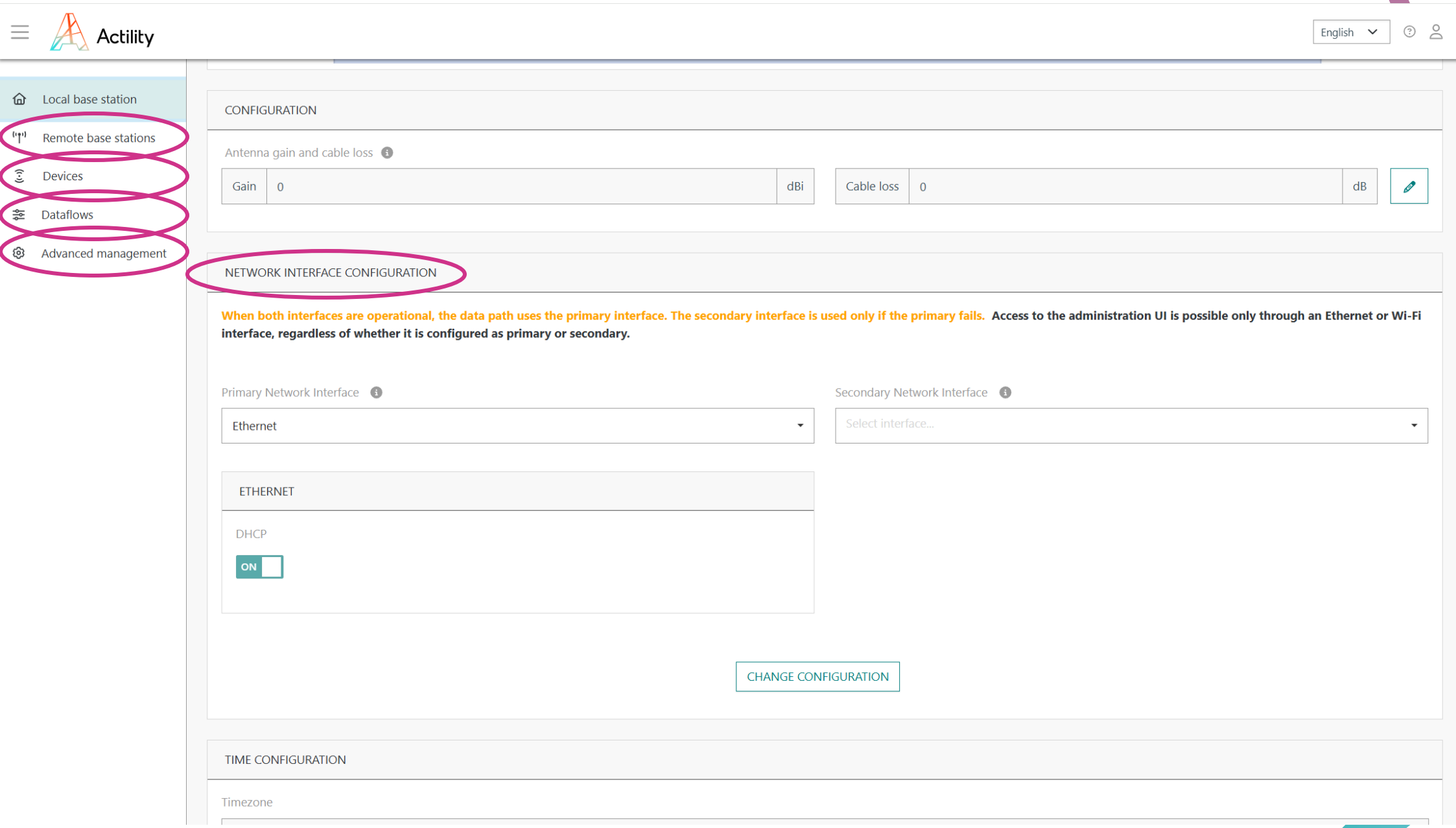
Uptime — 14 days ago

REBOOT BASE STATION

STOP THE RADIO

SYSTEM LOAD




Actility
English
Local base station
Remote base stations
Devices
Dataflows
Advanced management
CONFIGURATION
Antenna gain and cable loss
Gain
0
dBi
Cable loss
0
dB
NETWORK INTERFACE CONFIGURATION
When both interfaces are operational, the data path uses the primary interface. The secondary interface is used only if the primary fails. Access to the administration UI is possible only through an Ethernet or Wi-Fi interface, regardless of whether it is configured as primary or secondary.
Primary Network Interface
Ethernet
Secondary Network Interface
Select interface...
ETHERNET
DHCP
ON
CHANGE CONFIGURATION
TIME CONFIGURATION
Timezone

Actility

English

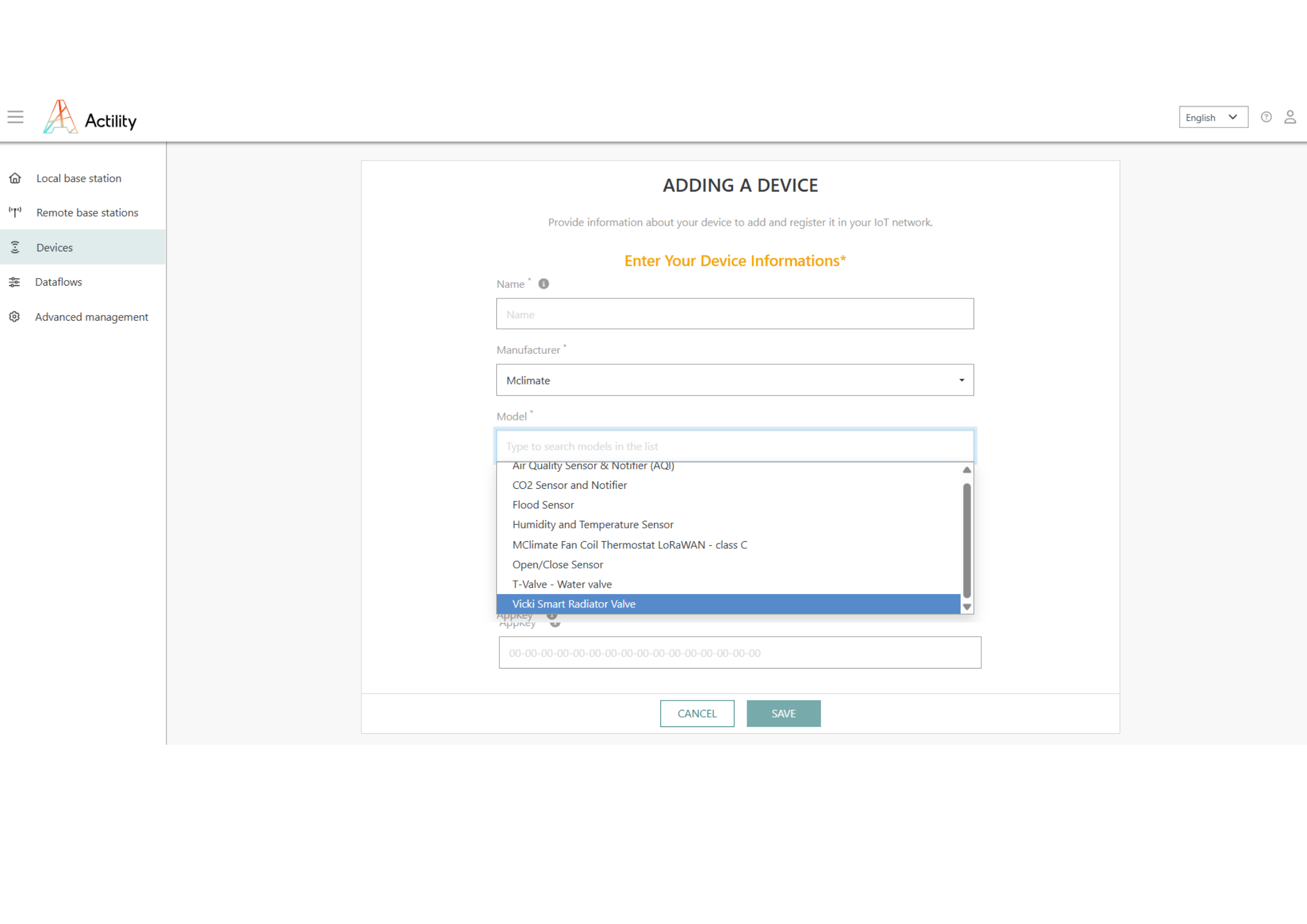
- Local base station
- Remote base stations
- Devices
- Dataflows
- Advanced management

Devices

+ ADD A DEVICE | IMPORT DEVICES

1-9 of 9 | Search by name or DevEUI...

	Name	DevEUI	DevAddr	Last Uplink	FCntUp	SNR	SF	
	600-021	77-77-77-77-77-77-77-77		Never				...
	600-052	66-66-66-66-66-66-66-66		Never				...
	600-065	88-88-88-88-88-88-88-88		Never				...
	MCS	44-44-44-44-44-44-44-44		Never				...
	Mclimate - VICKI	70-B3-D5-2D-D3-02-01-38	03-1E-E7-83	2025-11-24 17:48:18	28	9 dB	SF7	...
	Watteco - smartwire class C	70-B3-D5-E7-5E-03-18-2D	03-E1-1B-05	2025-11-24 17:49:18	8,852	0.5 dB	SF7	...
	aedenis	99-99-99-99-99-99-99-99		Never				...


Actility
English
Local base station
Remote base stations
Devices
Dataflows
Advanced management
ADDING A DEVICE
Provide information about your device to add and register it in your IoT network.
Enter Your Device Informations*
Name *
Name
Manufacturer *
Mclimate
Model *
Type to search models in the list
Air Quality Sensor & Notifier (AQI)
CO2 Sensor and Notifier
Flood Sensor
Humidity and Temperature Sensor
MClimate Fan Coil Thermostat LoRaWAN - class C
Open/Close Sensor
T-Valve - Water valve
Vicki Smart Radiator Valve
AppKey
00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00
CANCEL
SAVE

Local base station
Remote base stations
Devices
Dataflows
Advanced management

Dataflows

BACnet | ModBus | Advanced settings

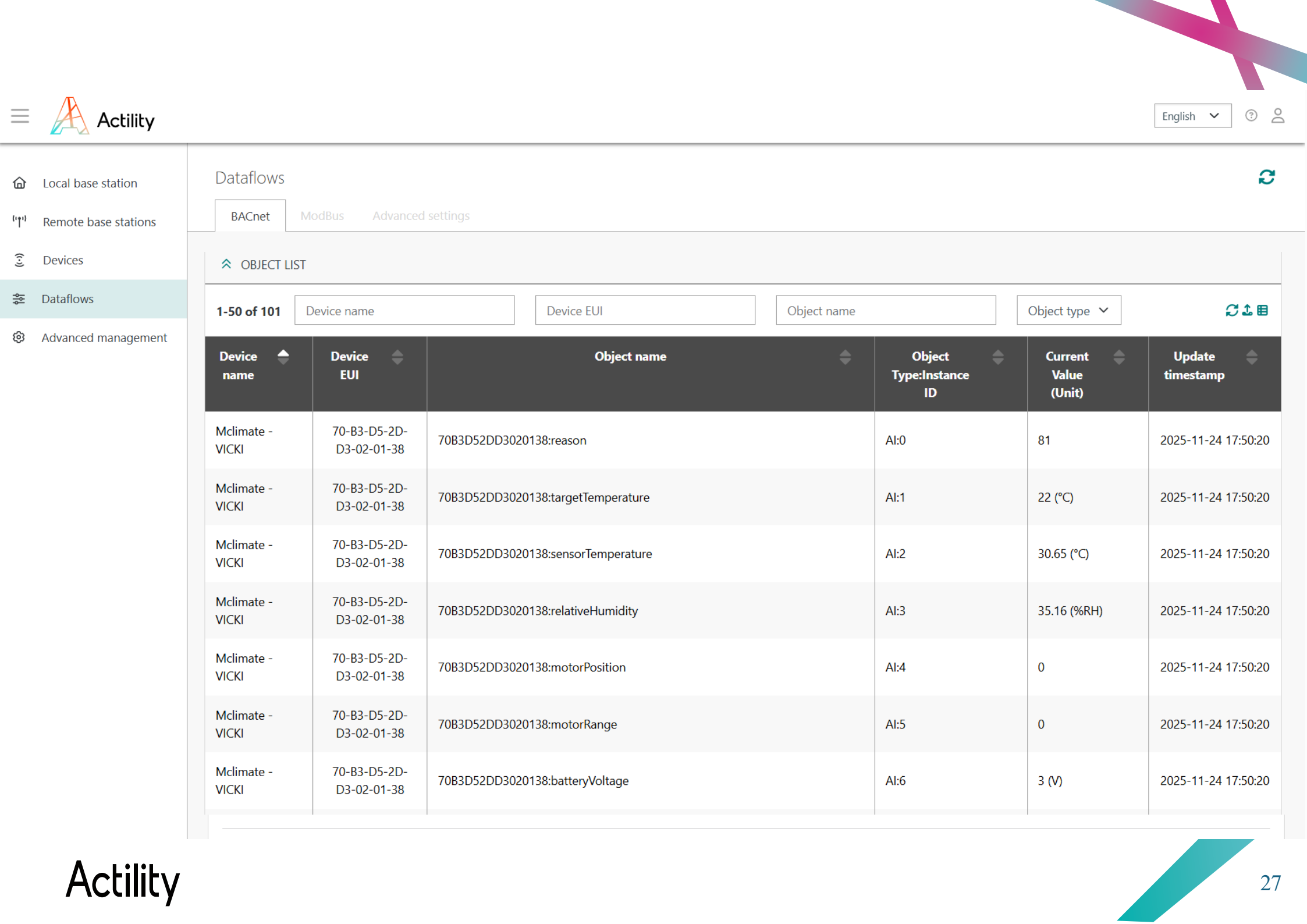
DEACTIVATE BACNET

Device model

Mclimate **Vicki Smart Radiator Valve**

List of measurement points exposed as BACnet objects for this device model

Point	COV increment
[AI] Reason of uplink (reason)	1
[AI] Target temperature in Celsius (targetTemperature)	0,1
[AI] Sensor temperature in Celsius (sensorTemperature)	0,1
[AI] Relative humidity in percentage (relativeHumidity)	0,1
[AI] Motor position in steps (motorPosition)	0,1
[AI] Motor range in steps (motorRange)	0,1
[AI] Battery voltage (batteryVoltage)	0,1
[AI] Target temperature in Celsius (targetTemperature)	0,1
[AI] Sensor temperature in Celsius (sensorTemperature)	0,1


Actility
English
Local base station
Remote base stations
Devices
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Advanced management
Dataflows
BACnet
ModBus
Advanced settings
OBJECT LIST
1-50 of 101
Device name
Device EUI
Object name
Object type
Device name
Device EUI
Object name
Object Type:Instance ID
Current Value (Unit)
Update timestamp
Mclimate - VICKI
70-B3-D5-2D-D3-02-01-38
70B3D52DD3020138:reason
AI:0
81
2025-11-24 17:50:20
Mclimate - VICKI
70-B3-D5-2D-D3-02-01-38
70B3D52DD3020138:targetTemperature
AI:1
22 (°C)
2025-11-24 17:50:20
Mclimate - VICKI
70-B3-D5-2D-D3-02-01-38
70B3D52DD3020138:sensorTemperature
AI:2
30.65 (°C)
2025-11-24 17:50:20
Mclimate - VICKI
70-B3-D5-2D-D3-02-01-38
70B3D52DD3020138:relativeHumidity
AI:3
35.16 (%RH)
2025-11-24 17:50:20
Mclimate - VICKI
70-B3-D5-2D-D3-02-01-38
70B3D52DD3020138:motorPosition
AI:4
0
2025-11-24 17:50:20
Mclimate - VICKI
70-B3-D5-2D-D3-02-01-38
70B3D52DD3020138:motorRange
AI:5
0
2025-11-24 17:50:20
Mclimate - VICKI
70-B3-D5-2D-D3-02-01-38
70B3D52DD3020138:batteryVoltage
AI:6
3 (V)
2025-11-24 17:50:20

Yet Another Bacnet Explorer - Yabe

File Functions Options Help

Devices

- Devices
  - Udp:47808
    - Device 472794 - 10.100.30.224:47808
    - Device 817001 - 10.100.30.209:47808
    - TAO-7076FF031D1B [817001]
    - TAO-7076FF05179F [817001]
    - Device 817005 - 10.100.31.52:47808
    - BAC0 [3056857]

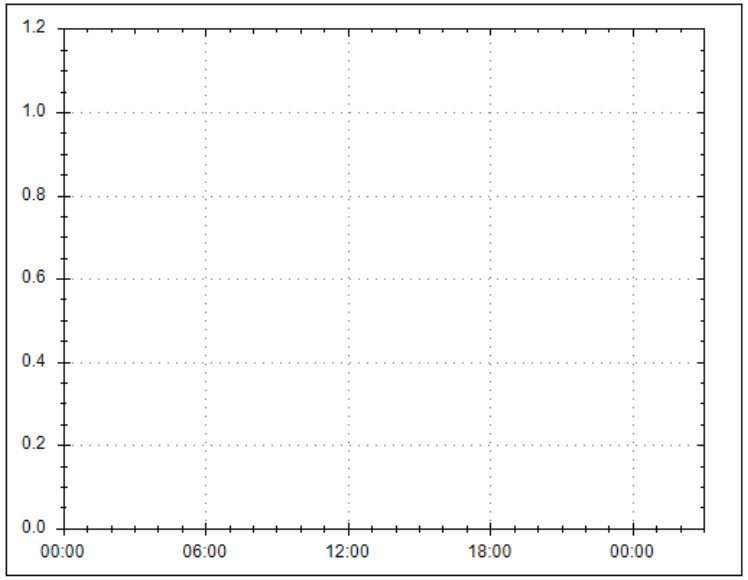
Address Space : 102 objects

- TAO-7076FF05179F (DEVICE:817001)
- 70B3D52DD3020138:reason (AI:0)
- 70B3D52DD3020138:targetTemperature (AI:1)
- 70B3D52DD3020138:sensorTemperature (AI:2)
- 70B3D52DD3020138:relativeHumidity (AI:3)
- 70B3D52DD3020138:motorPosition (AI:4)
- 70B3D52DD3020138:motorRange (AI:5)
- 70B3D52DD3020138:batteryVoltage (AI:6)
- 70B3D52DD3020138:openWindow:duration (AI:7)
- 70B3D52DD3020138:openWindow:motorPosition (AI:8)
- 70B3D52DD3020138:openWindow:delta (AI:9)
- 70B3D52DD3020138:temperatureRangeSettings:min (AI:10)
- 70B3D52DD3020138:temperatureRangeSettings:max (AI:11)
- 70B3D52DD3020138:internalAlgoParams:period (AI:12)
- 70B3D52DD3020138:internalAlgoParams:pFirstLast (AI:13)
- 70B3D52DD3020138:internalAlgoParams:pNext (AI:14)
- 70B3D52DD3020138:internalAlgoTdiffParams:warm (AI:15)
- 70B3D52DD3020138:internalAlgoTdiffParams:cold (AI:16)
- 70B3D52DD3020138:operationalMode (AI:17)
- 70B3D52DD3020138:joinRetryPeriod (AI:18)
- 70B3D52DD3020138:uplinkType (AI:19)
- 70B3D52DD3020138:watchDogParams:wdpC (AI:20)

Subscriptions, Periodic Polling, Events/Alarms

Show	Device	ObjectId	Name	Value	Time	Status	Descript...

Export Setup | Pause Plotter | COV | Poll (ms) 1000 | Clear Plotter



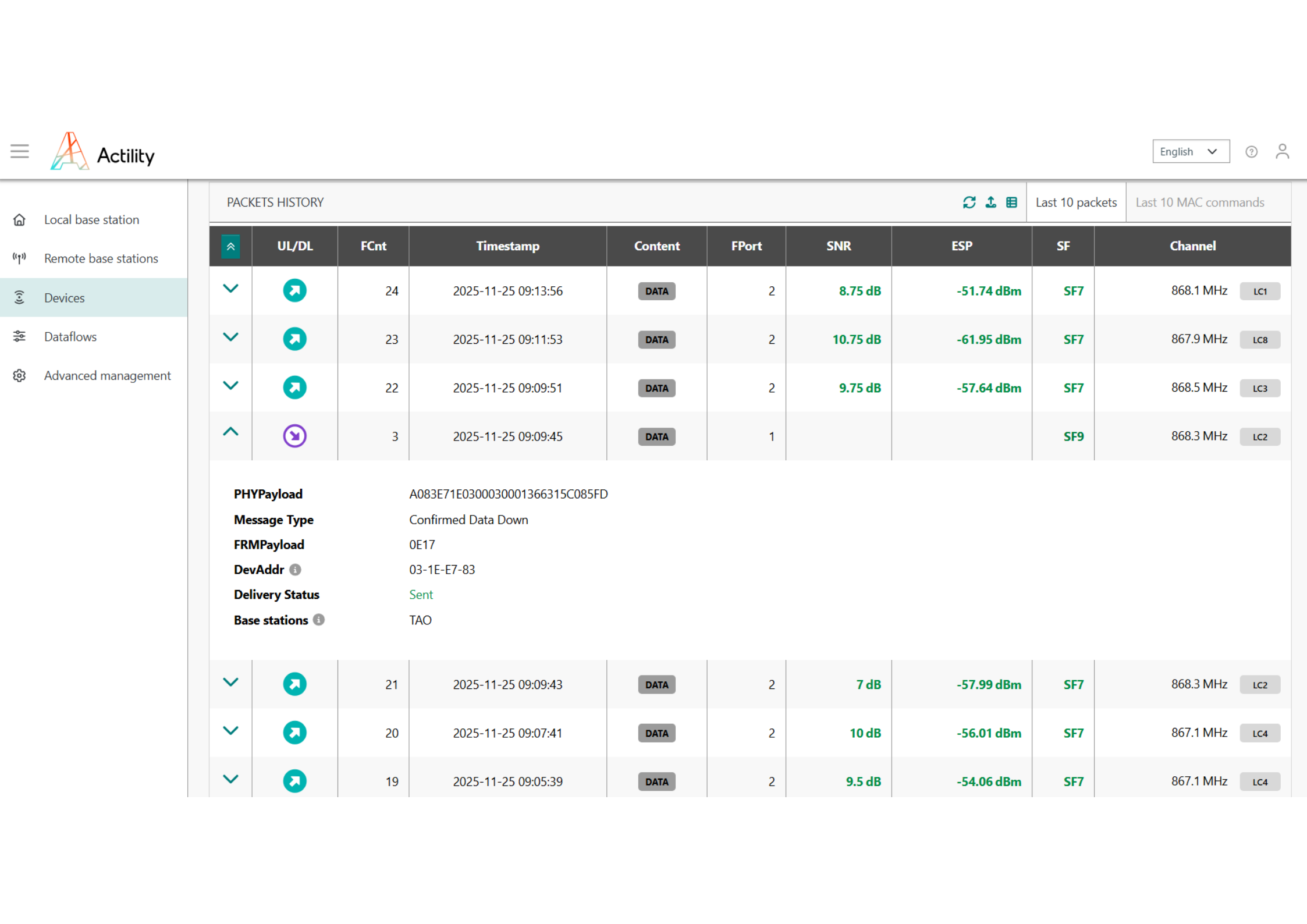
Properties

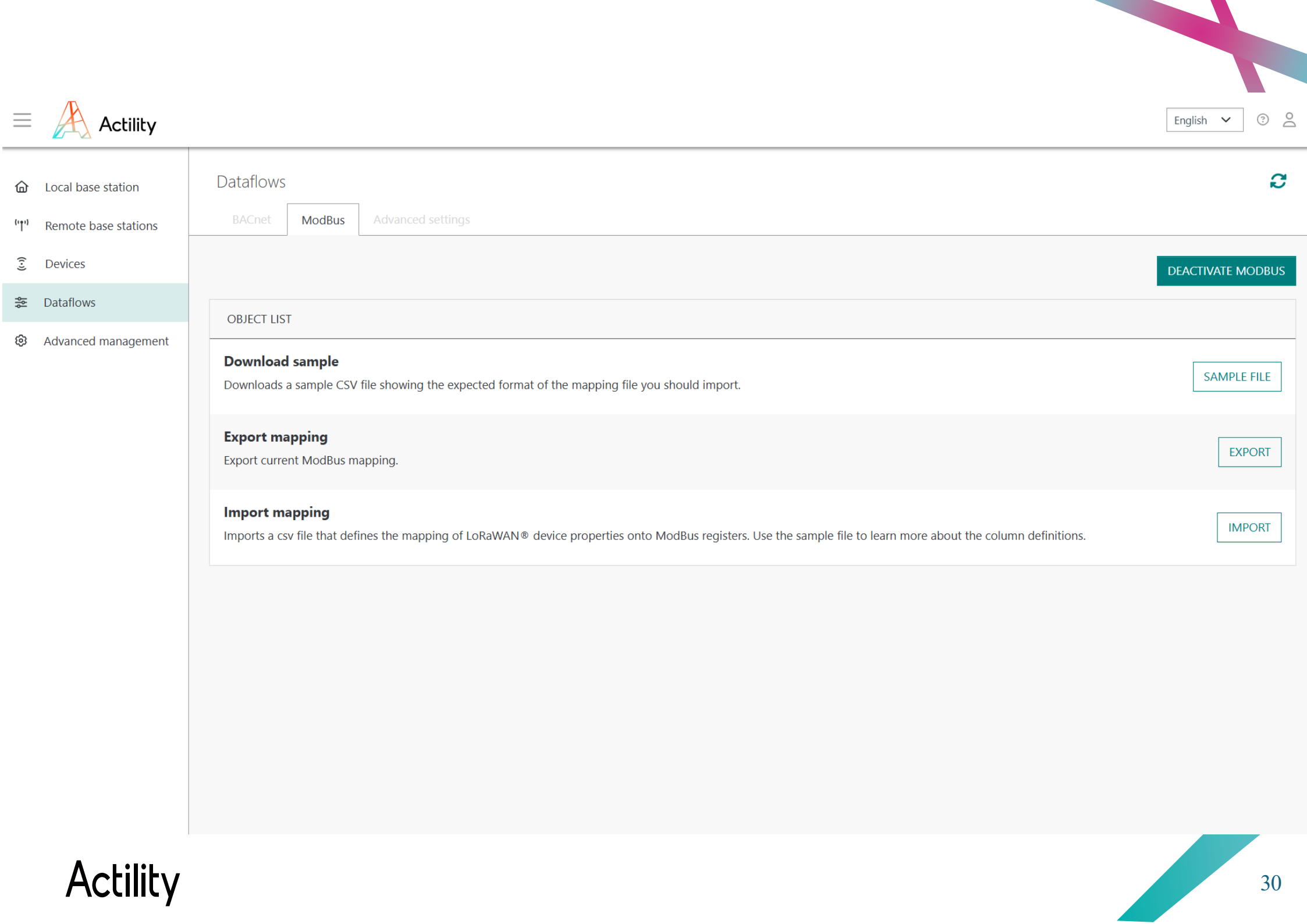
BacnetProperty	
22 - Cov Increment	0.1
28 - Description	Target temperature in °C
36 - Event State	0 : Normal
75 - Object Identifier	OBJECT_ANALOG_INPUT:1
77 - Object Name	70B3D52DD3020138:targetTemperature
79 - Object Type	0 : Object Analog Input
81 - Out Of Service	False
85 - Present Value	22
111 - Status Flags	0000
117 - Units	62 : Degrees Celsius
371 - Property List	Object[] Array
Proprietary - 9995	11/24/2025 5:02 PM
Proprietary - 9996	70B3D52DD3020138
Proprietary - 9998	2
Proprietary - 9999	R

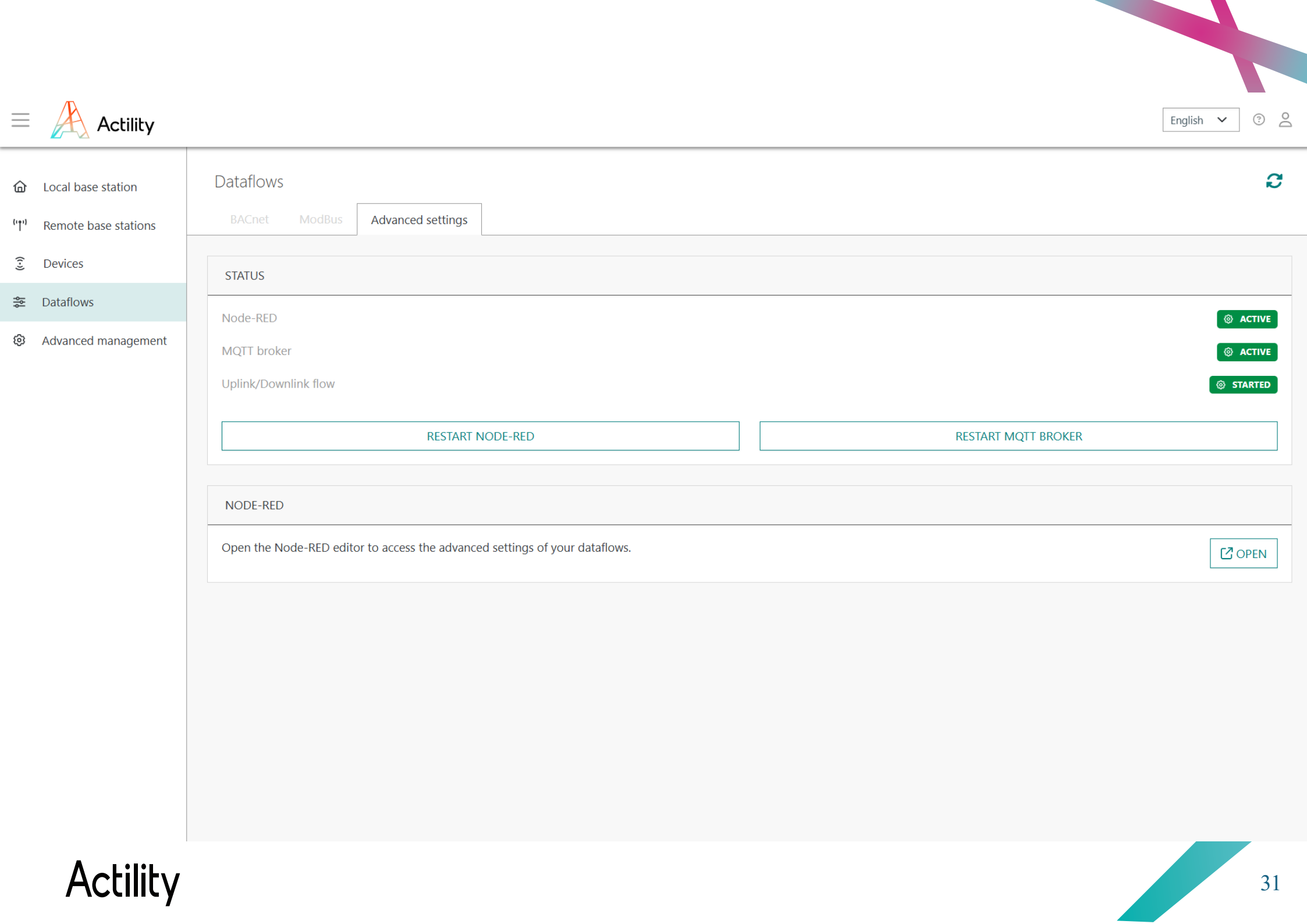
22 - Cov Increment
BACNET_APPLICATION_TAG_REAL

Log

```
ComplexAck
ComplexAck
Sending ReadPropertyRequest ...
ComplexAck
Sending ReadPropertyRequest ...
ComplexAck
Sending ReadPropertyRequest ...
ComplexAck
Sending ReadPropertyMultipleRequest ...
ComplexAck
Sending ReadPropertyMultipleRequest ...
ComplexAck
```


Actility
English
Local base station
Remote base stations
Devices
Dataflows
Advanced management
PACKETS HISTORY
Last 10 packets
Last 10 MAC commands
UL/DL
FCnt
Timestamp
Content
FPort
SNR
ESP
SF
Channel
24 2025-11-25 09:13:56 DATA 2 8.75 dB -51.74 dBm SF7 868.1 MHz LC1
23 2025-11-25 09:11:53 DATA 2 10.75 dB -61.95 dBm SF7 867.9 MHz LC8
22 2025-11-25 09:09:51 DATA 2 9.75 dB -57.64 dBm SF7 868.5 MHz LC3
3 2025-11-25 09:09:45 DATA 1 SF9 868.3 MHz LC2
PHYPayload A083E71E0300030001366315C085FD
Message Type Confirmed Data Down
FRMPayload 0E17
DevAddr 03-1E-E7-83
Delivery Status Sent
Base stations TAO
21 2025-11-25 09:09:43 DATA 2 7 dB -57.99 dBm SF7 868.3 MHz LC2
20 2025-11-25 09:07:41 DATA 2 10 dB -56.01 dBm SF7 867.1 MHz LC4
19 2025-11-25 09:05:39 DATA 2 9.5 dB -54.06 dBm SF7 867.1 MHz LC4


Actility
English
Local base station
Remote base stations
Devices
Dataflows
Advanced management
Dataflows
BACnet
ModBus
Advanced settings
DEACTIVATE MODBUS
OBJECT LIST
Download sample
Downloads a sample CSV file showing the expected format of the mapping file you should import.
SAMPLE FILE
Export mapping
Export current ModBus mapping.
EXPORT
Import mapping
Imports a csv file that defines the mapping of LoRaWAN® device properties onto ModBus registers. Use the sample file to learn more about the column definitions.
IMPORT


Actility
English
Local base station
Remote base stations
Devices
Dataflows
Advanced management
Dataflows
BACnet
ModBus
Advanced settings
STATUS
Node-RED
ACTIVE
MQTT broker
ACTIVE
Uplink/Downlink flow
STARTED
RESTART NODE-RED
RESTART MQTT BROKER
NODE-RED
Open the Node-RED editor to access the advanced settings of your dataflows.
OPEN

Actility

English

- Local base station
- Remote base stations
- Devices
- Dataflows
- Advanced management

Devices

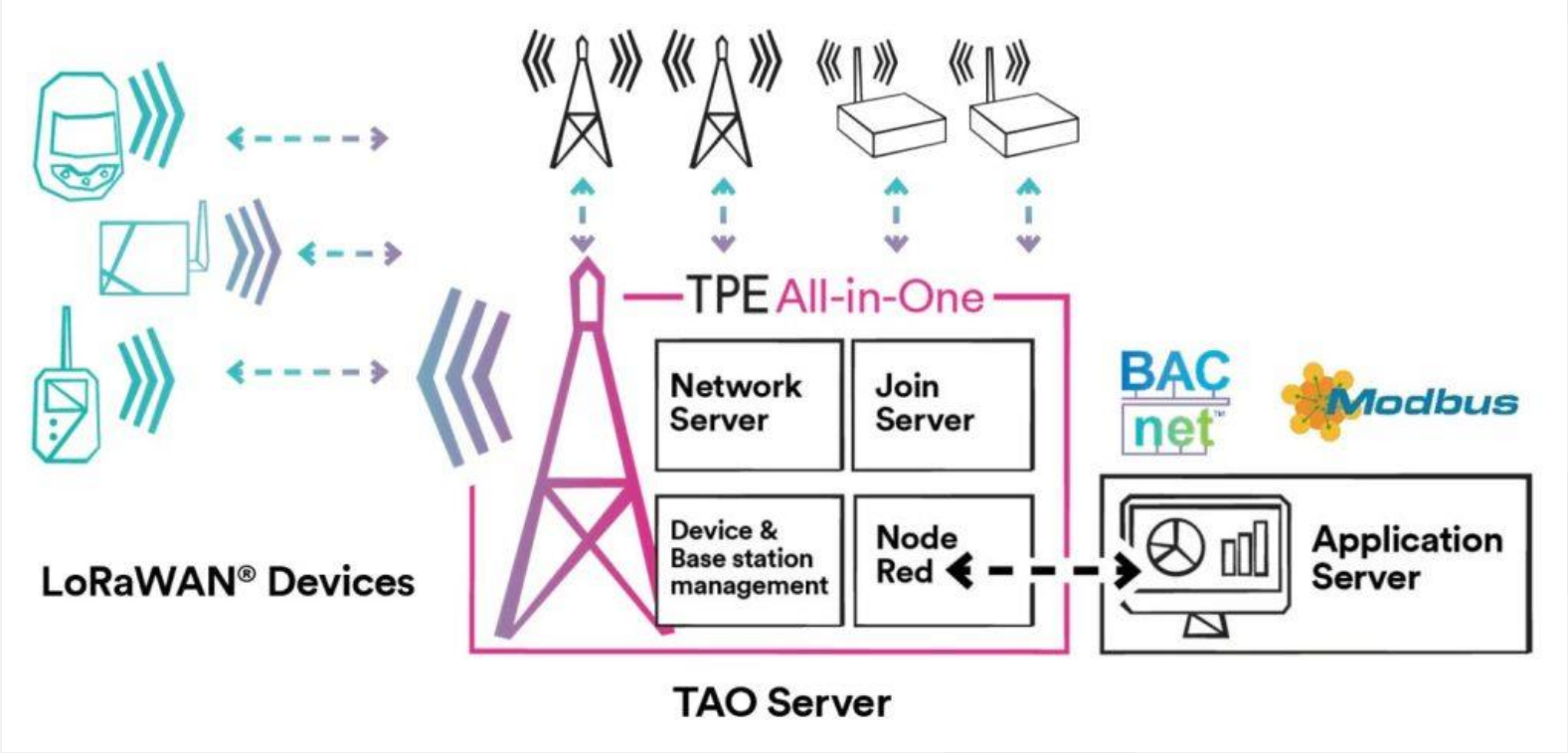
+ ADD A DEVICE | IMPORT DEVICES

1-2 of 2 | Search by name or DevEUI...

	Name	DevEUI	DevAddr	Last Uplink	FCntUp	SNR	SF	
	Smart Plug 01 (2F)	70-B3-D5-E7-5E-00-0D-2F	03-64-61-3A	2025-11-05 16:55:59	19	8.75 dB	SF12	...
	Temperature Probe (0D)	70-B3-D5-E7-5E-00-2E-0D	02-3C-8C-CF	2025-10-20 16:36:05	2,398	9.5 dB	SF12	...

BMS

- Addition of the TAO (ThingPark All-in-One) licence to LoRaWAN gateway enables data to be converted from LoRaWAN into other protocols (i.e. Bacnet objects) which can then be discovered within the existing BMS
- Automations & scheduling can be set within the BMS
- Set timings for heating/AC schedules
- If this, then that rules – such as “meeting room occupied, switch on lights & heating”



Q&A?

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