



TELEMATICS GATEWAYS

CANUp 27 Pro/Genset

Quick Start Guide

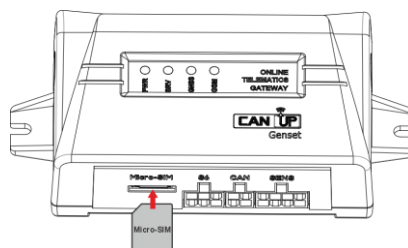
for connection to UNUM IIoT Platform server

Version 2.0

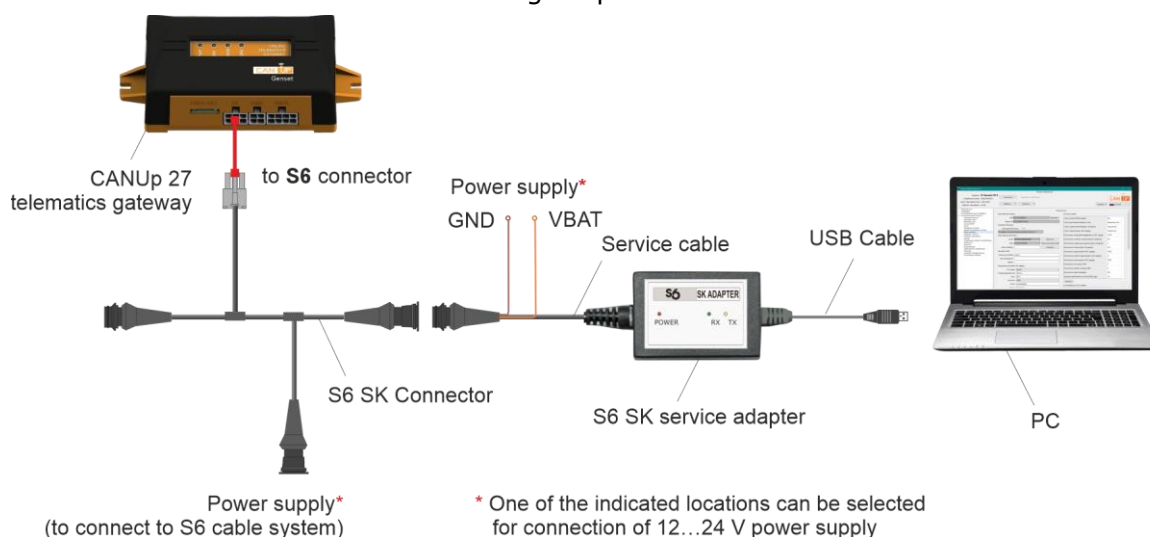
- 1 Download the [CP210x USB to UART Bridge VCP Drivers](https://www.jv-technoton.com/) and Service CANUP software from <https://www.jv-technoton.com/> (section [Software/Firmware](#)) and install them on your PC

For detailed information on the service software and minimum PC requirements, see the document "[CANUp 27 Telematics gateways. Operation manual](#)".

- 2 Insert an unlocked Micro-SIM card into the CANUp 27.



- 3 Connect the CANUp 27 to your PC using the [S6 SK service adapter](#) according to the diagram below. Supply DC voltage in the range of 12...24 V to the gateway and the adapter. After powering, the adapter's red **POWER** LED indicator should light up.



- 4 To register CANUp 27 on the UNUM IIoT Platform server, obtain access rights to the required service (UNUM Genset / UNUM Marine / UNUM Track) from a representative of your telematics service provider.

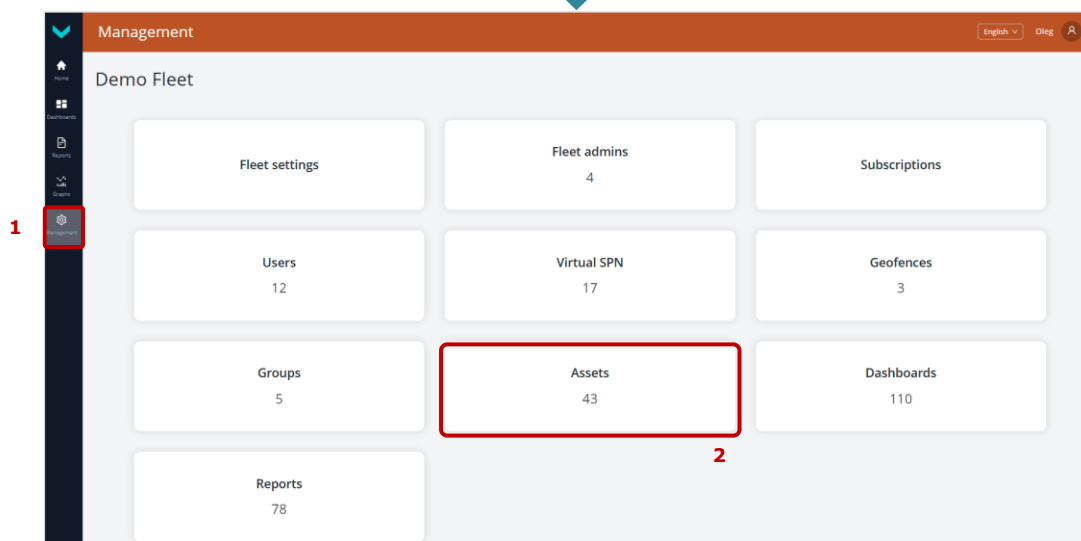
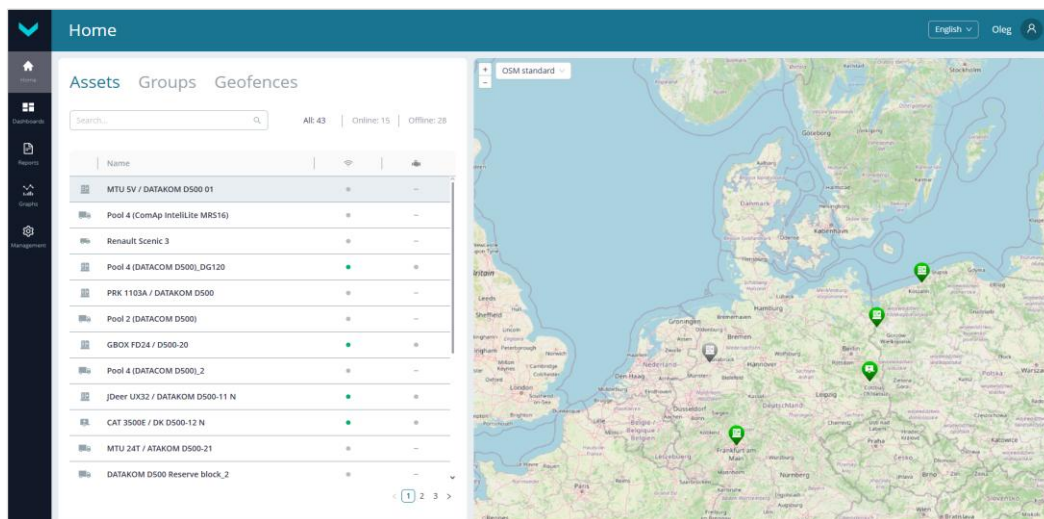
Enter the URL of the corresponding service in the browser address bar:

- <https://server1.unum-genset.com/> (for UNUM Genset).
- <https://unum-marine.com/> (for UNUM Marine).
- <https://unum-truck.com/> (for UNUM Track).

Perform user authorization (see the document "[UNUM IIoT Platform. Fleet Administrator Guide](#)").

Note — The service URL may differ from the one specified above. If necessary, verify the URL with your telematics service provider or Technical support at support@jv-technoton.com.

In the main menu of UNUM Genset / UNUM Marine / UNUM Track, open the  **Management** tab (1) and click the  **Assets** tile (2) to enter the asset management window.



5 To create a new asset, click  **New Asset** button (3) in the opened **Assets** window. In the **Details** tab (4), fill out the fields to register your CANUp 27 as a new asset on the UNUM IIoT Platform server (**Passport** section) (5):

- **Asset Name*** — enter the asset name. Uppercase and lowercase Latin letters (**A-Z, a-z**), digits (**0-9**), underscore (**_**), and parentheses (**()**) are allowed.
- **Asset Type*** — select the appropriate asset type from the dropdown list.
- **Asset Mobility*** — specify the asset status (stationary or mobile) by clicking the corresponding field in panel **Static** **Mobile**.

- **Map Icon*** — select the icon for displaying the asset on the map according to its type:



— icons for stationary assets;



— icons for mobile assets.

- **Brand** — enter the manufacturer (**Technoton**).
- **Model** — enter the registered gateway model (e.g., **CANUp 27 Genset LTE G**).
- **Serial number** — enter the 11-digit serial number of the gateway without spaces.

In the **Time Actual, s** field (**Dashboard timeout** section) set the value **120** (6), which determines how long the actual data from CANUp 27 will be displayed on the PC.

Click **Create** button (7). to confirm the entered data. The registered CANUp 27 will appear in the asset list with an automatically assigned unique ID for identification on the UNUM IIoT Platform server (8).

Unique identification data (**Identification data** section) (9) for the registered CANUp 27 will also be generated automatically, allowing for server authentication. You will need to copy these values into the corresponding fields in the Service CANUp software during gateway configuration.

* Required asset settings.

Management

Assets

Search...

3

New Asset

ID	Asset name
10000088	Dg3 Genset (ComAp IntelliLite MRS16)
10000095	Genset (DATAKOM DKG 309) 01
10000109	Mitsubishi S4L2-SDH Night mode
10000111	DG4_2 Genset (DATACOM D500)
10000112	DG4_3 Genset (DATACOM D500)
10000140	SET_UP
10000141	SET_UP1
10000230	VW Caravella
10000231	Suzuki Grand Vitara
10000243	AT6260-7 MAN TRANS

< 1 2 3 >

4

Details

Equipment

Maintenance

Parameters

Asset SPN

Dashboards / Reports

7

Create

Passport

Asset Name: *
SET_UP2

Asset Type: *
Static Mobile

Map Icon: *

Asset Icon: *

+
Upload

Brand: *
Technoton

Model: *
CANUp 27 Genset LTE G

Serial number: *
20002400033

Power:

Engine Speed:

Frequency:

Voltage:

Phasicity:

Fuel Type:

Comment:

Identification data

Login:

Password:

UNUM ID:

Topic:

6

Dashboard timeout

Time Actual, s: 120

Time Wait, s: 300

Time Offline, s: 3600

Trips

Minimum speed, km/h: 1

Minimum parking time, m: 5

Maximum points spacing, m: 10000

Minimum travel time, s: 60

Minimum travel distance, m: 100

Maintenance

Minimum forecast interval, day 1

Group affiliation

Groups:

Add to group





Management

English

OlegD

Home

Dashboards

Reports

Graphs

Management

Assets

Search...

New Asset

ID	Asset name
10000320	SeaShip
10000327	SET_UP2

< 1 2 3 >

SET_UP2

DetailsEquipmentMaintenanceParametersAsset SPNDashboards / Reports

Delete assetExportDuplicateUpdate

Passport

Asset Name:SET_UP2

Asset Type:StaticMobile

Map Icon:

Asset Icon:

Brand:Technoton

Model:CANUp 27 Genset LTE G

Serial number:20002400033

Power:

Engine Speed:

Frequency:

Voltage:

Phasicity:

Fuel Type:

Comment:

Identification data

Login:juMBvBipolKr

Password:kCvq9SZf5Vfk

UNUM ID:10000327

Topic:1/1/10000327

Dashboard timeout

Time Actual, s:120

Time Wait, s:300

Time Offline, s:3600

Trips

Minimum speed, km/h:1

Minimum parking time, m:5

Maximum points spacing, m:10000

Minimum travel time, s:60

Minimum travel distance, m:100

Maintenance

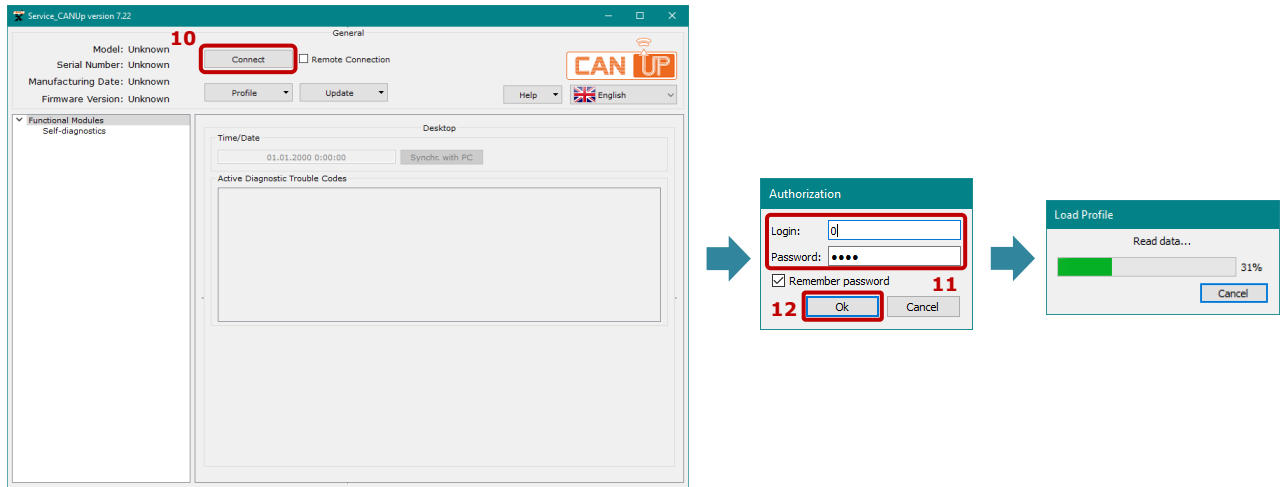
Minimum forecast interval, day1

Group affiliation

Groups:

Add to group

- 6 Start the Service CANUp software and click **Connect** button (10). In the **Authorization** window, enter login **0**, password **1111** (11), and click **OK** button (12). After loading the CANUp 27 profile, the **RX** (green) and **TX** (yellow) LEDs on the [S6 SK adapter](#) will blink, indicating data transmission and reception.



- 7 Go to the **Communicator FM** submenu (13) and, in the **GPRS Settings** section, enter the Access Point Name (APN) settings for Internet access (14). The APN settings must be obtained in advance from your cellular operator.

For the UNUM IIOT Platform server to which CANUp 27 will send onboard reports, fill out the following fields in the **Extended AVL Settings** section (15):

- **AVL Server** — select the value from the dropdown list:
 - **UNUM Genset** (for UNUM Genset service);
 - **Other** (for UNUM Marine / UNUM Track service).
- **IP Address/Domain Name** — set the service URL:
 - **server1.unum-genset.com** — set automatically for UNUM Genset;
 - **unum-marine.com** — enter manually for UNUM Marine;
 - **unum-truck.com** — enter manually for UNUM Track.
- **Port** — set the port number **1883** (set automatically);
- **Protocol** — **UNUM** communication protocol (set automatically);
- **Login** — paste the value from the **Login** field (**Identification data** section) of the generated CANUp 27 profile on the UNUM IIOT Platform server (see 5);
- **Password** — paste the value from the **Password** field (**Identification data** section) of the generated CANUp 27 profile on the UNUM IIOT Platform server (see 5).

For the UNUM communication protocol, used by CANUp 27 to transmit onboard reports, fill out the following fields in the **MQTT Settings** section (16):

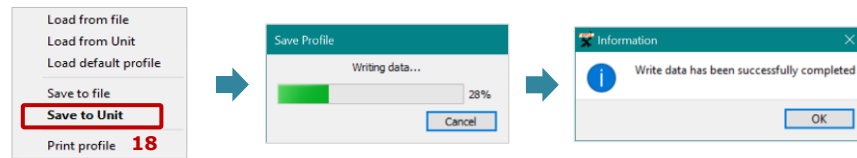
- **UNUM ID** — paste the value from the **UNUM ID** field (**Identification data** section) of the generated CANUp 27 profile on the UNUM IIOT Platform server (see 5);
- **Topic** — paste the value from the **Topic** field (**Identification data** section) of the generated CANUp 27 profile on the UNUM IIOT Platform server (see 5);
- **Keep Alive Interval, s** — enter the value **600** (the maximum time interval in which the server connection will remain active in the absence of traffic);
- **Quality Of Service (QoS)** — select **At Least Once** from the dropdown list (the report will be delivered at least once, duplicate sending is possible);
- **SSL** — select **Off** (reports are sent without a cryptographic protocol);
- **Clean Session** — select **On** (at each new connection, settings must be re-applied to receive reports from the server).

When copying identification data for CANUp 27 into the software settings, ensure there is no loss of symbols or accidental addition of spaces/characters.



Click the menu **Profile** button (17) and select **Save to Unit** (18) to save the modified CANUp 27 profile to internal memory.

After saving, in the **Authentication AVL Server** section, make sure that authentication of CANUp 27 on the UNUM IIOT Platform server is successful, with the status **Performed** (19).



Service_CANUp version 7.22

Model: **27 Genset LTE G**
 Serial Number: 20002400033
 Manufacturing Date: 3.09.2024
 Firmware Version: 10.06

Disconnect ☐ Remote Connection

Profile (17) Update

Help English

13 Desktop
 Interface
 Serial Interface
 Functional Modules
 Self-diagnostics
 Onboard Clock
 Vehicle Power Supply
 Battery
 GNSS
 Reports Generator
 Simple Reports Registrator
Communicator (13)
 Collector IAT/ID
 Engine Monitoring
 Genset
 Modbus Device Management
 Modbus S6
 S6 Bus
 Accelerometer
 Parameters Observer
 Commands
 Fueling/Fuel Discharge
 Analytic
 Events Registrator

14 Modem Identification
 IMEI: 862771042693641 Read
 Software Version: EG21GGBR07A11M1G
 SIM Card Settings
 SIM Card Lock: ☐ Off
 PIN Enter Remained Times: 3
 SIM Identification
 ICCID: 8937501150800902423F Read
 IMSI: 257010013920382 Available networks list
 Phone Number: -- Save

15 GPRS Settings
 APN: internet
 Username:
 Password:

16 Extended AVL Settings
 AVL Server: UNUM Genset
 IP Address/Domain Name: server1.unum-genset.com
 Port: 1883
 Protocol: UNUM
 Login: jMBv8tpoIq
 Password: kCvq95ZfSVrk

16 MQTT Settings
 UNUM ID: 10000327
 Topic: 1/1/10000327
 Keep Alive Interval, s: 600
 Quality Of Service (QoS): At Least Once
 SSL: Off
 Clean Session: On

E-mail Sender
 SMTP Server: smtp.yandex.com
 Port: 465
 SSL Encryption: Enabled
 E-mail Address: gateway.canup@yandex.com
 Password: *****
 Senders Name: CANUp 27 Genset LTE G.20002400033

"Don't disturb" Mode Settings
☐ E-mail ☐ SMS
 Mode Start: 23:00 Mode Stop: 08:00

GSM Network Settings
 Preferred GSM Network Mode: Auto 2G/3G/LTE

Communicator
 Modem State
 6881383
 6881383
 Engine Requested Speed Control Range Lower Limit (Engine Configuration), rpm
 Engine Speed At Point 2 (Engine Configuration), rpm
 7209057
 Percent Torque At Peak Torque, Point 5 (Retarder Configuration), %
 Transmission Shift In Process
 Transmission Torque Converter Lockup Engaged
 Differential Lock State - Rear Axle 2
 Reference Retarder Torque (Retarder Configuration), Ohm
 ASR Brake Control Active
 Accelerator Pedal Kickdown Switch
 Percent Torque At Point 4 (Retarder Configuration), %
 Transmission Driveline Engaged

19 Authentication AVL Server

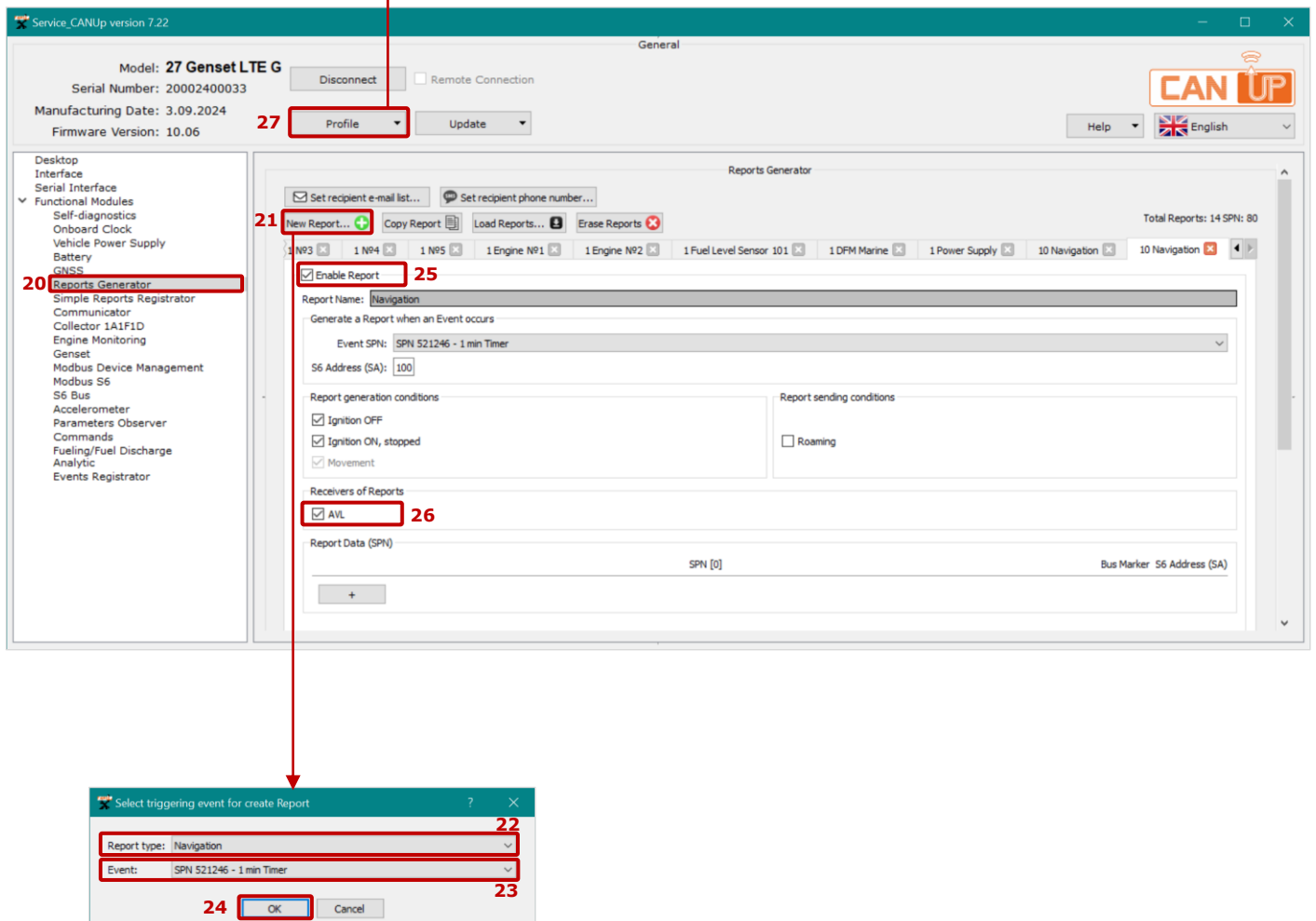
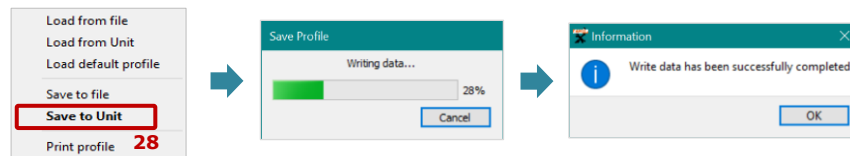
Cruise Control Coast (Decelerate) Switch	Performed
Engine Idle Shutdown Timer State	65704
Longitude, deg	15519

 Clear

Sent e-mail Counter
 Auxiliary I/O #04: 0
 Auxiliary I/O #02: 0
 Clear

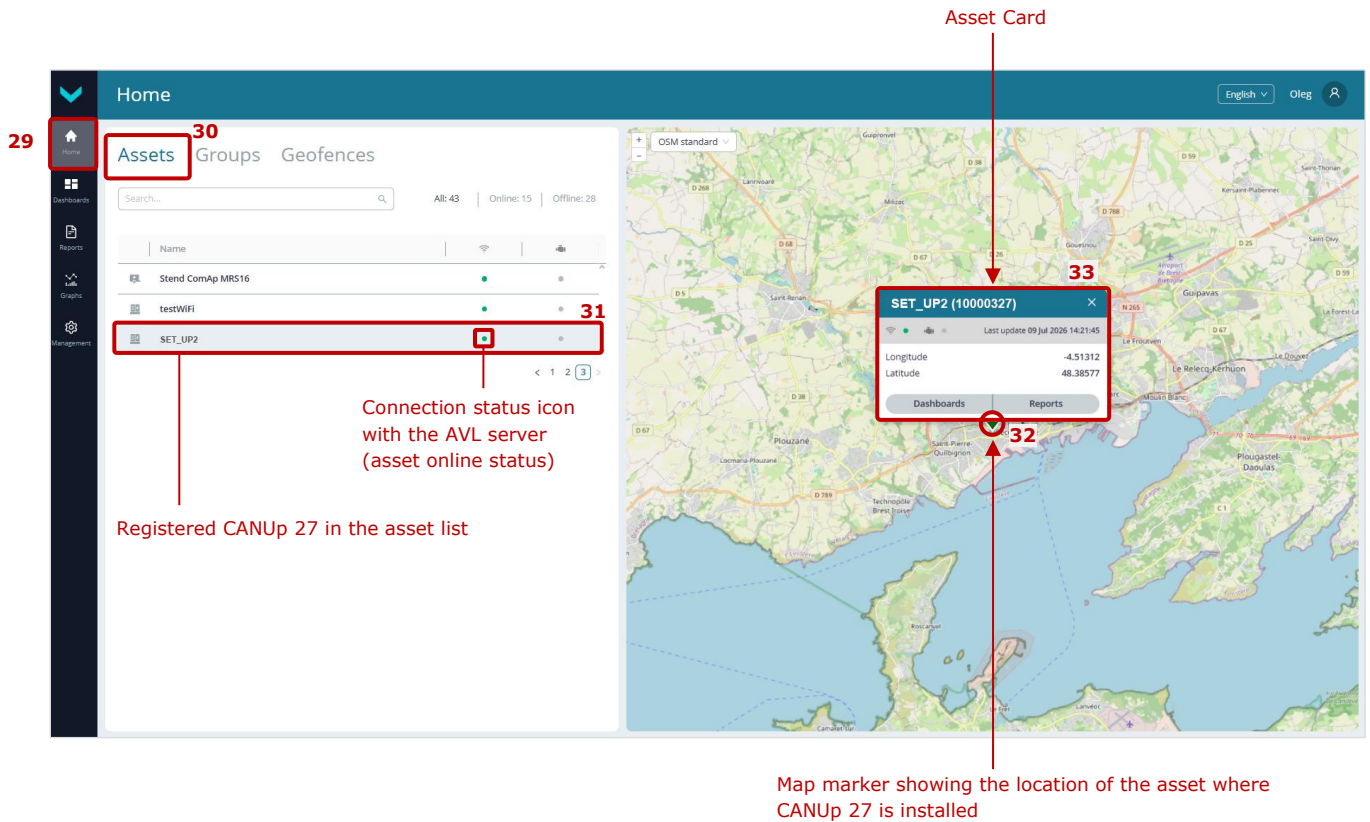
GSM Network Parameters
 GSM Network Mode: 4G

- 8 Go to the **Reports Generator FM** submenu (20) and click **New Report...** button (21) to create a new report. In the **Select triggering event for create Report** window, select **Navigation** as the **Report type** from the dropdown (22). From the **Event** dropdown, select **SPN 521246 – 1 min Timer** (23) as the event for the report. Confirm your selection by clicking **OK** button (24). Note: Depending on the equipment connected to CANUp 27, you may select another report. Detailed information on report configuration is provided in the document "[CANUp 27 Telematics Gateways. Catalogue of Functional Modules](#)".
- To enable report generation, check the **Enable Report** box (25). To allow report transmission to the UNUM IIOT Platform server, check the **AVL** box (**Receivers of Reports** section) (26).
- Click the menu **Profile** button (27) and select **Save to Unit** to save the modified CANUp 27 profile to internal memory (28).



- 9 In the monitoring window menu of UNUM Genset / UNUM Marine / UNUM Track, open the **Home** tab (29). Make sure the registered CANUp 27 is included in the list **Assets** (30), that its connection to the AVL server is established (31), and that its position is correctly determined on the map using navigation satellites signals (32).

Clicking the asset marker on the map will display the **Asset Card** (33), which contains its name, unique identifier (ID), current coordinates, and the time and date of the last data received by the server.



Distribution, technical support, service

C



support@jv-technoton.com

sales@jv-technoton.com



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