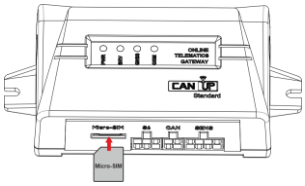
TELEMATICS GATEWAYS
CANUp 27 Pro / Genset
Instructions for quick configuration of connection to UNUM IIOT Platform server
Version 1.0

1 Download the USB driver CP210x USB to UART Bridge VCP Drivers in section Software/Firmware and install it on the computer (PC); also download Service CANUp service software at https://www.jv-technoton.com/ and install it.

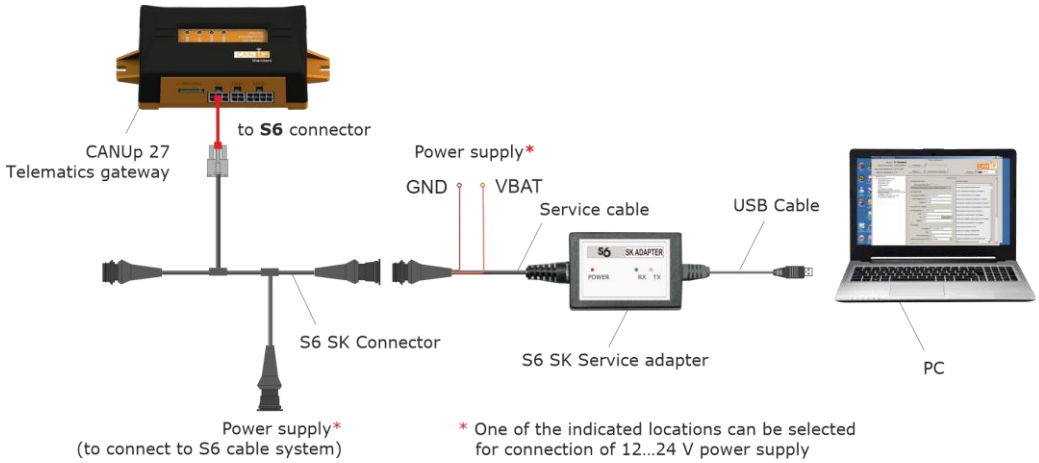
See detailed information on the service software and requirements to the PC in Chapter 2.4 of the document "CANUp 27 Telematics gateways. Operation manual".

2 **This paragraph applies only to CANUp 27 Pro LTE / Genset.**
When using CANUp 27 Pro Wi-Fi, skip it and start with paragraph 3.

Insert Micro-SIM card which is not protected by password into CANUp 27.

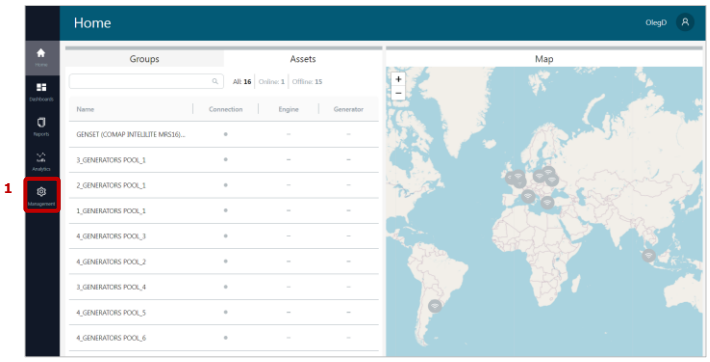


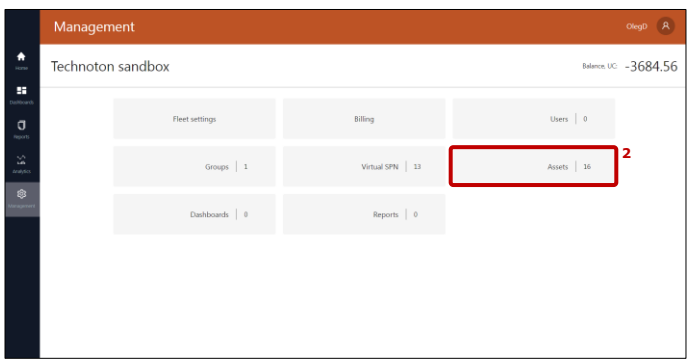
3 Connect CANUp 27 to the PC using S6 SK service adapter, according to the diagram provided below. Switch on DC power supply within the range 12…24 V. After that, the red **POWER** LED indicator of the adapter will be on.

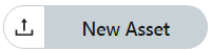


4 Register CANUp 27 on the server of UNUM IIOT Platform. For this purpose, first, get the right of access to the server from the Telematics service provider company. Then, enter the URL https://server1.unum-genset.com/ into the browser address bar and enter the service.

In the menu of the loaded monitoring window press **Management (1)** tab and click Assets tile **(2),** to enter the window of assets management.

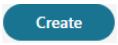




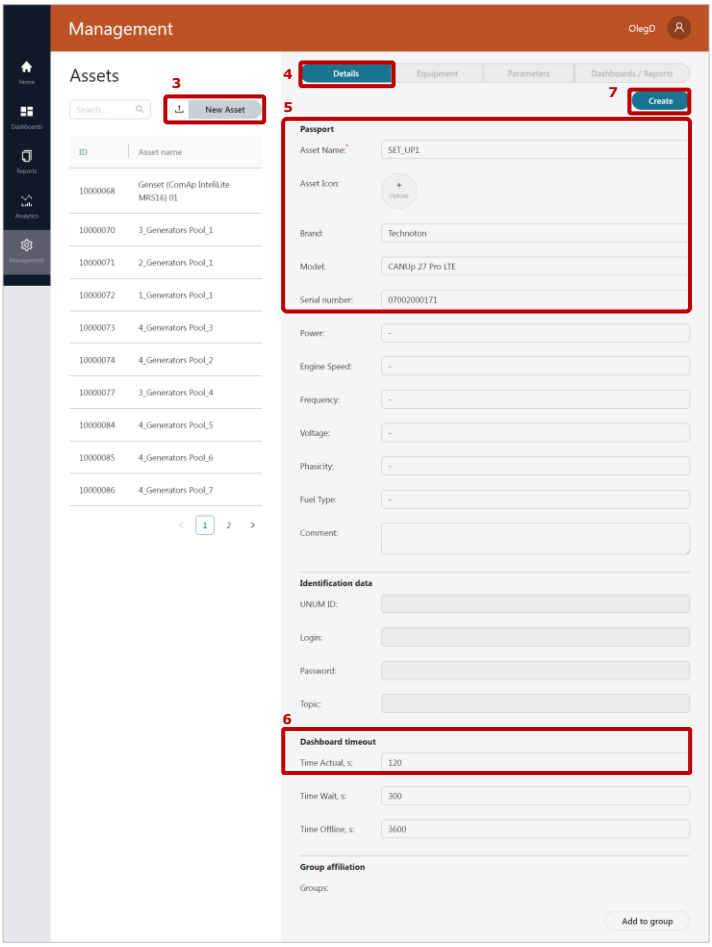
5 To create an asset, press 

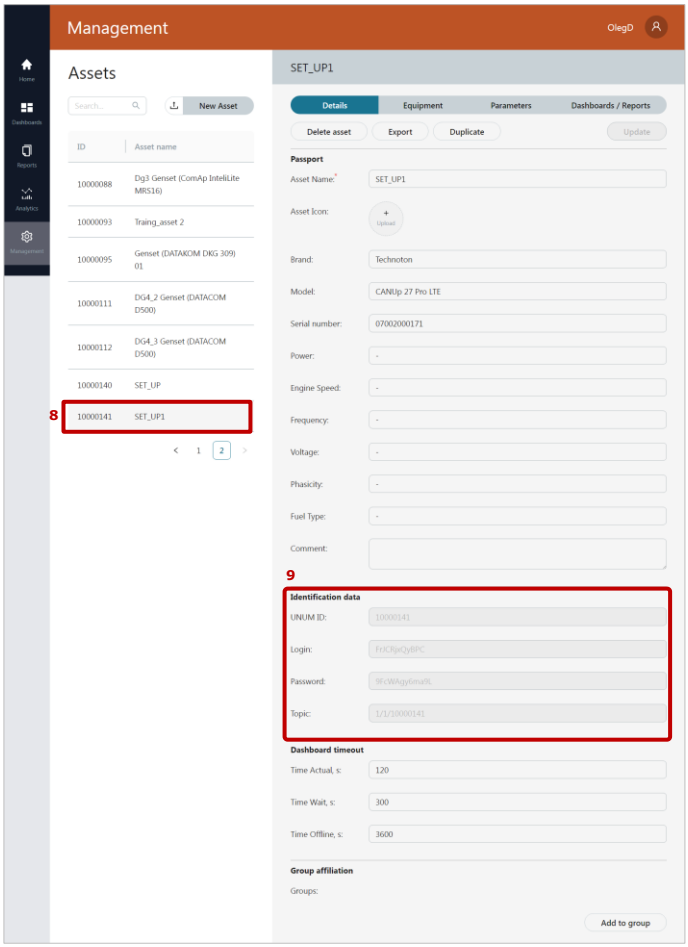
button **(3)** in the opening **Assets** window. In **Details** tab **(4)** fill in fields for CANUp 27 registration as new asset on the server (**Passport** area) **(5)**: **Asset Name** (enter the asset name for its identification), **Brand** (enter the Manufacturer — **Technoton**), **Model** (enter the gateway model to be registered— **CANUp 27 Pro LTE / Pro Wi-Fi / Genset**), **Serial number** (enter the serial number of the registered gateway).

Enter **120** value, to set the timeout for displaying actual data from CANUp 27 (**Dashboard timeout** area, **Time Actual, s** field) **(6)**.

To confirm the entered data, press 

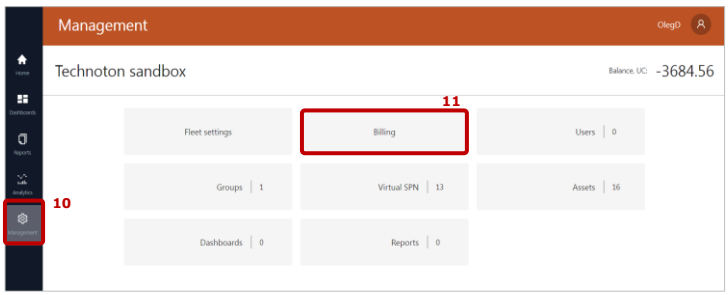
button **(7)**. After that, the registered CANUp 27 will appear in the list of monitored assets **(8)** and unique identification data will be generated for its profile (**Identification data** area) **(9)**, which would enable the device authentification on the server. During the configuration of CANUp 27 connection to the server, you are to copy these data and enter them into the appropriate fields of the service software.

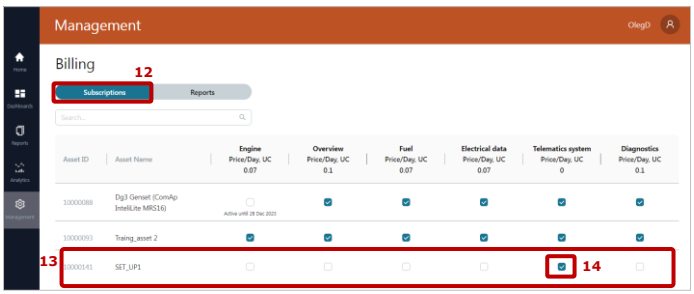




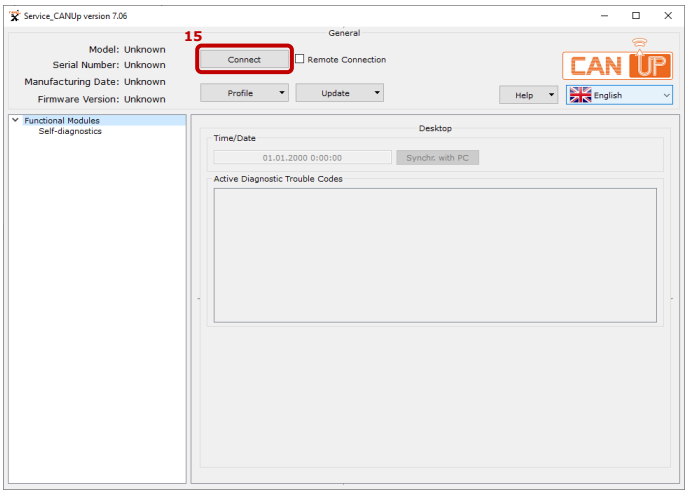
6 In the menu of the monitoring window open  **Management** tab **(10)** and click 

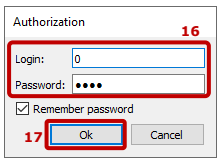
tile **(11)**. In the opening **Billing** billing management window (**Subscriptions** tab **(12)**), in the line of the registered CANUp 27 **(13)** tick enabling free subscription to reception of data from the Telematics system **(14)**.

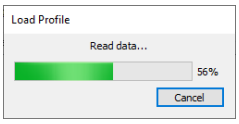




7 Start Service CANUp service software and press Connect button **(15)**. In **Autorization** window enter login **0**, password **1111 (16)** and press OK button, to confirm it **(17)**. After CANUp 27 profile is loaded, you should see the blinking of **RX** LED indicator (green) and **TX** LED indicator (yellow) of S6 SK service adapter.







8 **This paragraph applies only to CANUp 27 Pro LTE / Genset.**
When using CANUp 27 Pro Wi-Fi, skip it and start with paragraph 9.

Enter the submenu of **Communicator FM (18)** and in the area **GPRS Settings** enter settings of the access point address (APN) for the Internet connection **(19)**. You are to receive APN settings in advance from your cellular network operator.

For AVL server of UNUM IIOT Platform to which CANUp 27 will transfer reports, fill in the following fields of settings in the area **Extended AVL Settings (20)**:

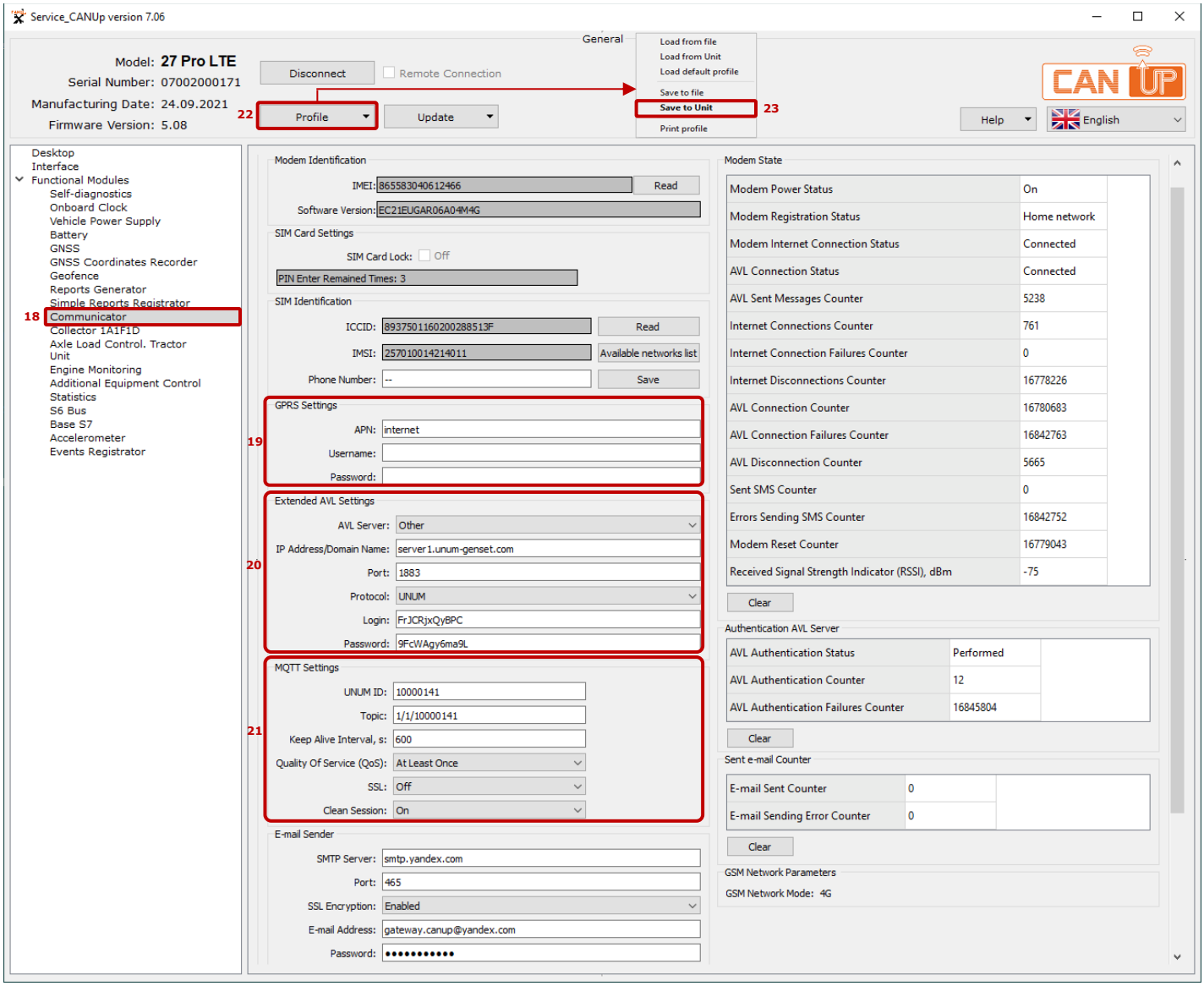
- **AVL Server** — from the dropdown list choose the value **Other**;
- **IP Address/Domain Name** — enter the server URL address **server1.unum-genset.com**;
- **Port** — enter the number of the opened port **1883**;
- **Protocol** — from the dropdown list choose **UNUM** communication protocol;
- **Login** — enter the value copied into **Login** field (**Identification data** area) from identification data of CANUp 27 profile generated on the server (see 5);
- **Password** — enter the value copied into **Password** field (**Identification data** area) from identification data of CANUp 27 profile generated on the server (see 5).

For UNUM communication protocol, according to which CANUp 27 will transfer reports, fill in the following fields for settings in the area **MQTT Settings (21)**:

- **UNUM ID** — enter the value copied into **UNUM ID** field (**Identification data** area) from identification data of CANUp 27 profile generated on the server (see 5);
- **Topic** — enter the value copied into **Topic** field (**Identification data** area) from identification data of CANUp 27 profile generated on the server (see 5);
- **Keep Alive Interval, s** — enter the value **600** (maximum time interval during which the connection with the server will be active in the absence of traffic);
- **Quality Of Service (QoS)** — from the dropdown list choose the value **At Least Once** (i.e. the report will be delivered to the server, but sending a report duplicate is also possible);
- **SSL** — from the dropdown list choose the value **Off** (i.e. reports be transferred without using a cryptographic protocol);
- **Clean Session** — from the dropdown list choose the value **On** (i.e. in case of another connection, you are to configure once again the reception of reports from the server).

When you transfer CANUp 27 identification data into the software settings, you must not miss any characters or insert by mistake any extra spaces/characters.

Press Profile button **(22)** and select the operation **Save to Unit (23)** in the menu, to save the modified profile in the internal memory of CANUp 27.



9 **This paragraph applies only to CANUp 27 Pro Wi-Fi.**

After loading CANUp 27 profile, enter the submenu of **WiFi Communicator FM (24)**. Open the tab **Available APN List (25)** and select the router from the number of available devices the one that would serve as access point for the Internet connection **(26)**.

To connect CANUp 27 to the selected router, press [>>] button **(27)**, enter the router password in the opening window **Access Point (AP)** into the appropriate field **(28)** and press [Connect] button **(29)**. After the connection is established, the router will be entered into the **Authorized APN List (30)**.

Open **Extended AVL Settings** tab **(31)** and fill in the following fields of settings for AVL server of UNUM IIOT Platform to which CANUp 27 will transfer reports **(32)**:

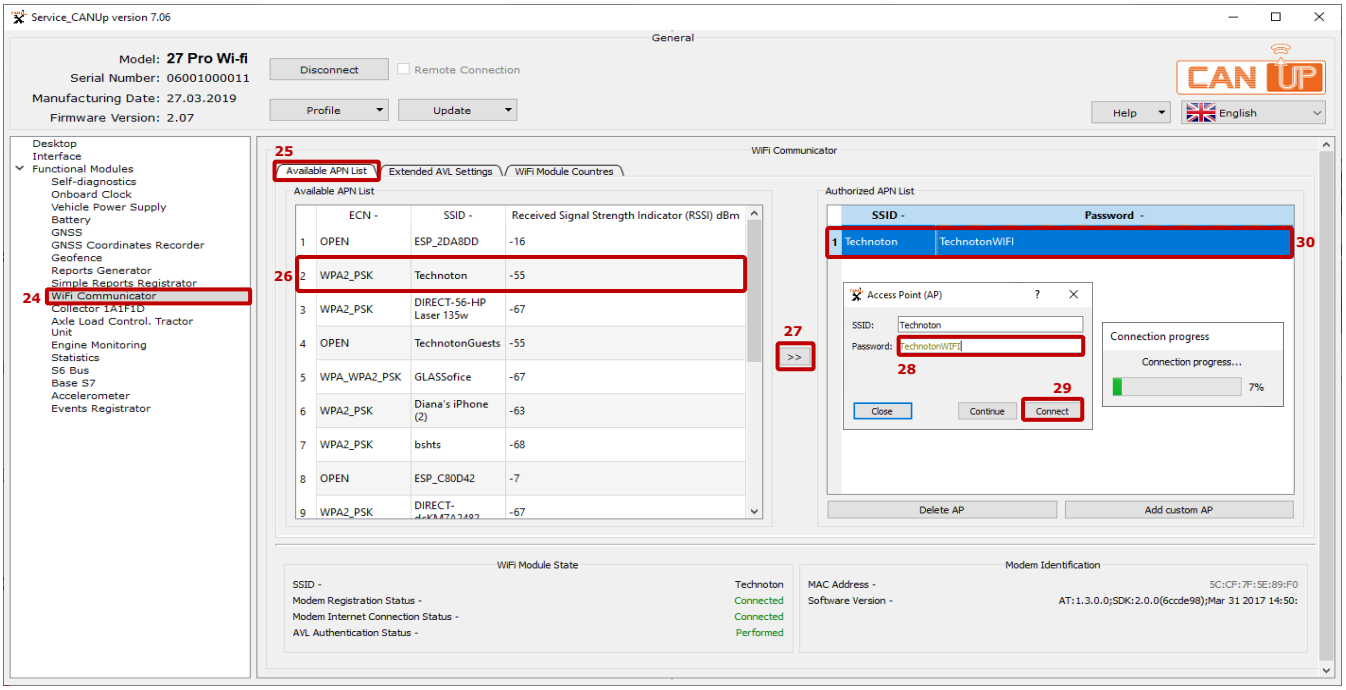
- **AVL Server** — from the dropdown list choose the value **Other**;
- **IP Address/Domain Name** — enter the server URL address **server1.unum-genset.com**;
- **Port** — enter the number of the opened port **1883**;
- **Protocol** — from the dropdown list choose **UNUM** communication protocol;
- **Login** — enter the value copied into **Login** field (**Identification data** area) from identification data of CANUp 27 profile generated on the server (see 5);
- **Password** — enter the value copied into **Password** field (**Identification data** area) from identification data of CANUp 27 profile generated on the server (see 5).

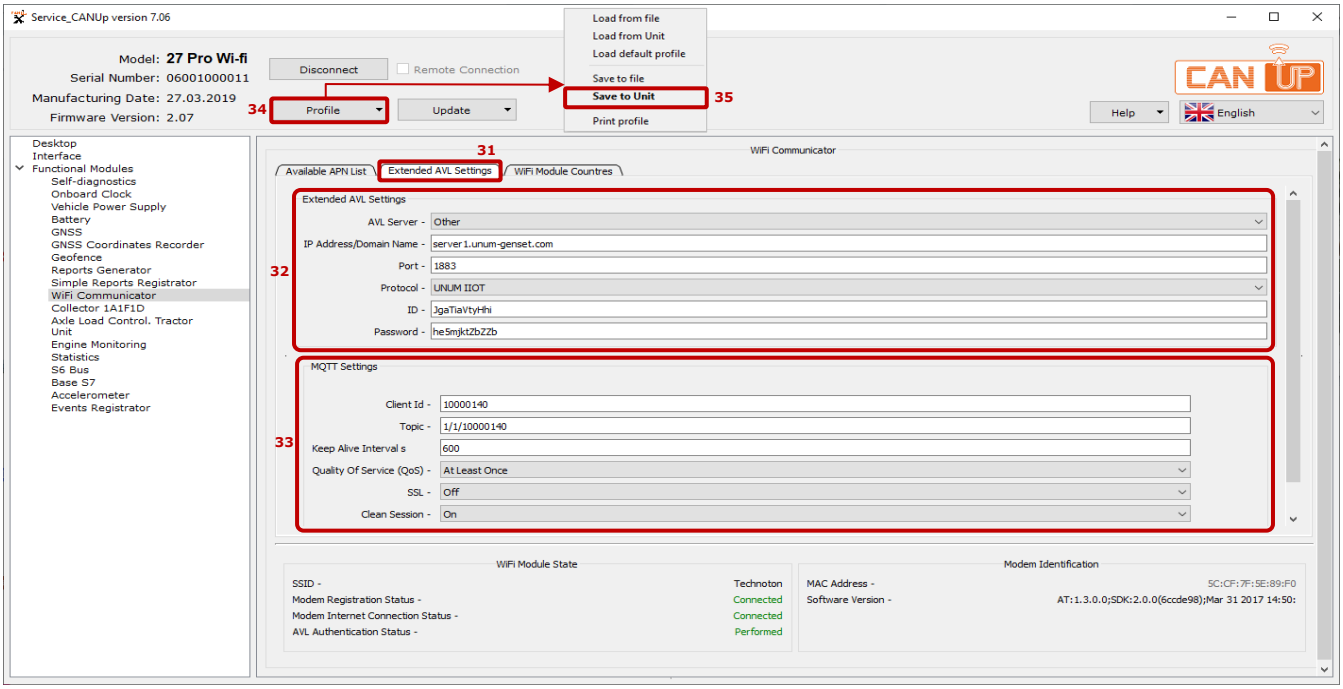
For UNUM communication protocol, according to which CANUp 27 will transfer reports, fill in the following fields for settings in the area **MQTT Settings (33)**:

- **UNUM ID** — enter the value copied into **UNUM ID** field (**Identification data** area) from identification data of CANUp 27 profile generated on the server (see 5);
- **Topic** — enter the value copied into **Topic** field (**Identification data** area) from identification data of CANUp 27 profile generated on the server (see 5);
- **Keep Alive Interval, s** — enter the value **600** (maximum time interval during which the connection with the server will be active in the absence of traffic);
- **Quality Of Service (QoS)** — from the dropdown list choose the value **At Least Once** (i.e. the report will be delivered to the server, but sending a report duplicate is also possible);
- **SSL** — from the dropdown list choose the value **Off** (i.e. reports be transferred without using a cryptographic protocol);
- **Clean Session** — from the dropdown list choose the value **On** (i.e. in case of another connection, you are to configure once again the reception of reports from the server).

When you transfer CANUp 27 identification data into the software settings, you must not miss any characters or insert by mistake any extra spaces/characters.

Press Profile button **(34)** and select the operation **Save to Unit (35)** in the menu, to save the modified profile in the internal memory of CANUp 27



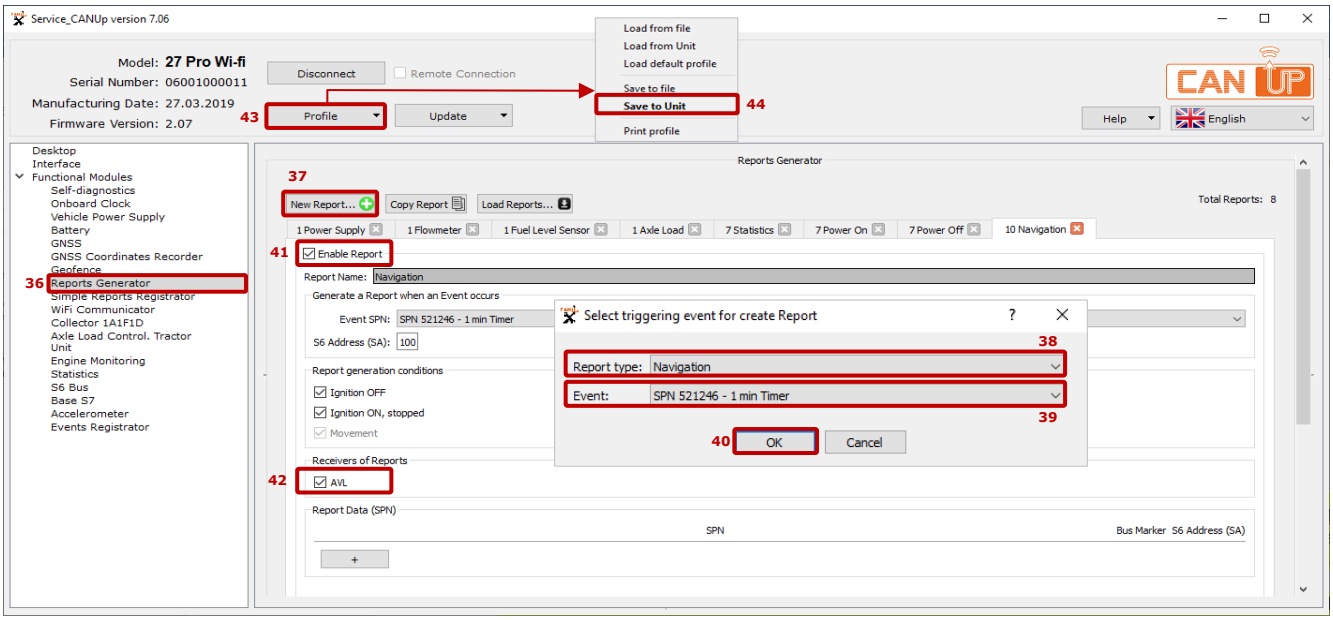


10 Enter the submenu of **Reports Generator FM (36)** and press New Report... button **(37)** to create the report. In the opening window **Select triggering event for create Report**, from the dropdown list **Report type** select **Navigation (38)**. From the dropdown list **Event** select **SPN 521246 – 1 min Timer (39)**, according to which the report will be generated. Confirm your choice by pressing OK button **(40)**.

Note — Depending on the type of equipment connected to CANUp 27, you may select another report. See detailed information on configuration of CANUp 27 reports in Chapter 2.8 of the document "CANUp 27 Telematic gateways. Catalog of Functional modules".

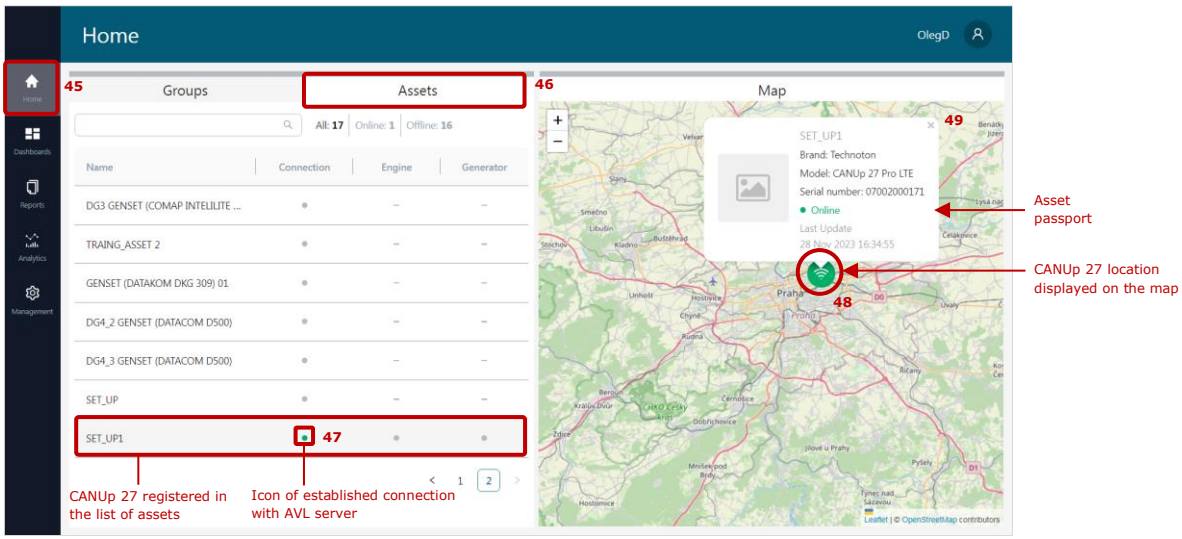
To enable the generation of a selected report, tick the field **Enable Report (41)**. To enable the transfer of the report to the AVL server, tick the field **AVL** (**Receivers of Reports** area) **(42)**.

Press Profile button **(43)** and select the operation **Save to Unit (44)** in the menu, to save the modified profile in the internal memory of CANUp 27.



11 In the menu of the monitoring window open **Home** tab **(45)**. Make sure the registered CANUp 27 is entered into the list of monitored assets **Assets (46)**, that its connection with AVL server is established **(47)** and that its location is correctly positioned on the map of terrain by signals received from navigation satellites **(48)**.

Whenever you click the tag of CANUp 27, **Asset Passport** should be displayed **(49)** which contains the name, brand, model and serial number, online/offline status, time and date the most recent data were transferred to the server.



Manufacturing, technical support, service

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