OMNICOMM

Omnicomm Online

Administration Guide

07.06.2021

Contents

Omnicomm Online

The Administration Guide contains a detailed description of the settings of vehicle profiles, drivers, geofences, routes, and notifications in Omnicomm Online.

Omnicomm Online allows the user to control the operation of vehicles and drivers using a variety of reports. To access Omnicomm Online you will only need a personal computer with an Internet connection. The received data is stored and processed using Omnicomm resources.

Technical Requirements

For efficient work in Omnicomm Online:

- Network delay 150 msec or lower
- Internet network download speed 3 Mbps or higher
- Min 8 GB RAM
- CPU Dualcore 2×2 GHz or higher

Basic requirements:

- Network delay 200 msec or lower
- Internet network download speed 1 Mbps
- Min 4 GB RAM
- CPU 2 GHz

Requirements to the browser:

One of the two latest versions of the following browsers:

- Google Chrome
- Firefox

Login

Open the browser and enter the address http://online.omnicomm.ru. The user login window will open:

Features available to partners (dealers)

The dealer's **"login"** and **"password"** should be provided by the Omnicomm Sales Department.

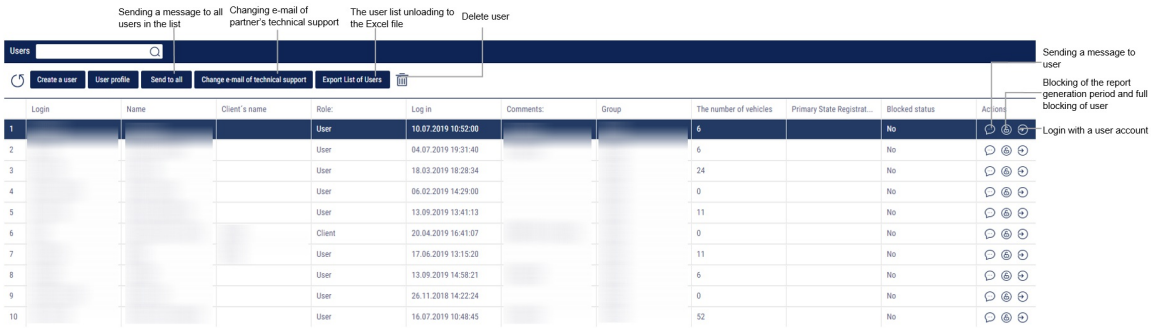
If you see a message about a blocked dealer account, contact the Omnicomm Technical Support Department.

Features available to partners (dealers)

Managing the list of users

Log in to Omnicomm Online under your own account or using another user's login details.

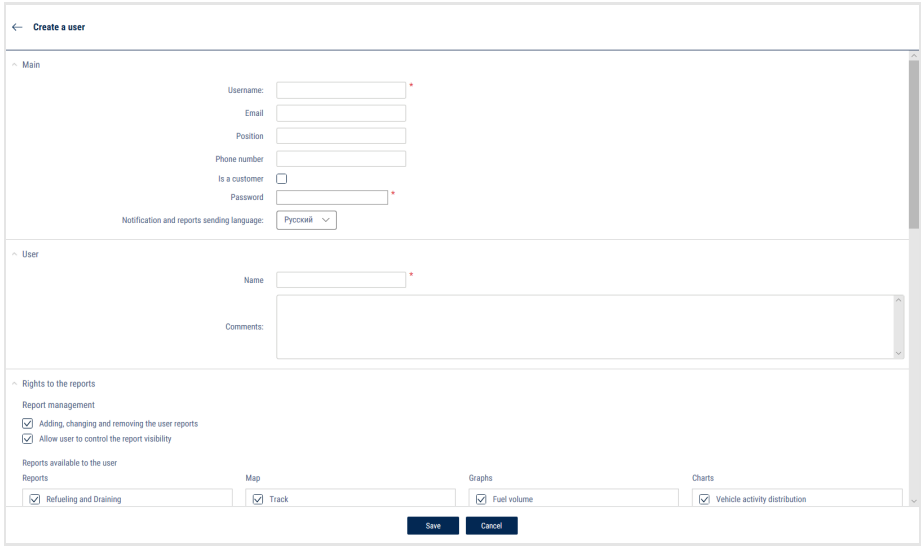
In the **"Administration"** section, open the **"Users"** tab. A window will open:



Adding and editing profiles

In the **"Administration"** section, open the **"Users"** tab. In the window that opens, click on **"Create a new user"**. A window will open:

Features available to partners (dealers)



In the **"Main"** section

"Login" - enter a login for the user account that will be used for authorization in Omnicomm Online. The login can contain up to 20 characters and must be unique.

"Email" – enter the user's Email.

"Position" – enter the user's position in the company.

"Phone number" – enter the phone number in any format.

"Is a client" – check the box if the user is a dealer's client.

"Password" – enter a password for the user account. The password must meet the following criteria:

- the password cannot match the user login
- the password must not contain two adjacent identical characters
- the password must not contain more than 3 adjacent characters that form a sequence on the keyboard
- the password must be between 3 and 20 characters long

"Language of notifications and report mailouts" – select the language of notifications and report mailouts. Possible options: Russian, English, Portuguese, Spanish, and Thai.

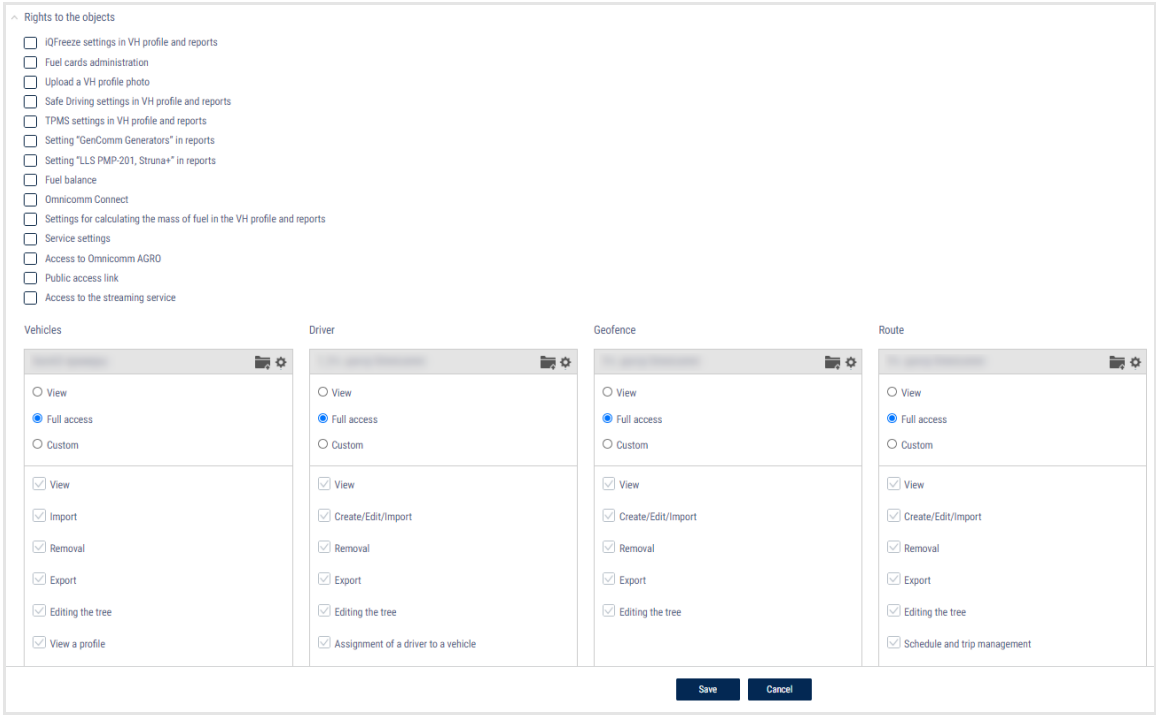
In the **"User"** section

"Name" – the name of the client

"Notes" – add any notes if necessary

In the **"Rights to the objects"** section

Features available to partners (dealers)



"IQFreeze settings in vehicle profile and reports" – check the box to give the user access to the settings of the IQFreeze refrigerator system control.

"Fuel card administration" - check the box to give the user access to fuel card administration.

"Load vehicle profile photo" - check the box to give the user access to upload photos to the vehicle profile.

"Safe driving settings in vehicle profile and reports" – check the checkbox to give the user access to safe driving settings..

"TPMS settings in vehicle profile and reports" – check the box to give the user access to the settings of the TPMS tire pressure control.

"Configuration of "GenComm Generators" in reports" - check the box to give the user access to GenComm generator settings in the reports.

"Configuration of "FLS PMP-201, Struna +" in reports"- check the box to give the user access to the settings of fuel level sensors "PMP-201 and Struna +" in the reports.

"Fuel balance" - check the box to give the user access to fuel balance reports.

"Omnicomm Connect" – check the box to enable the user to send messages to drivers. To use the "Communication with the driver" and "Task status" reports, enable the "Omnicomm Connect Reports" service in the "Services" section (see Services).

"Fuel weight calculation settings in vehicle profile and reports"– check the box to give the user access to choose the method of fuel weight calculation and report settings.

Features available to partners (dealers)

"Access to Omnicomm TeamSpirit" – check the box to give the user access to Omnicomm TeamSpirit.

"Services setting" - check the box to give the user access to services management.

"Access to Omnicomm AGRO"- check the box to give the user access to Omnicomm AGRO.

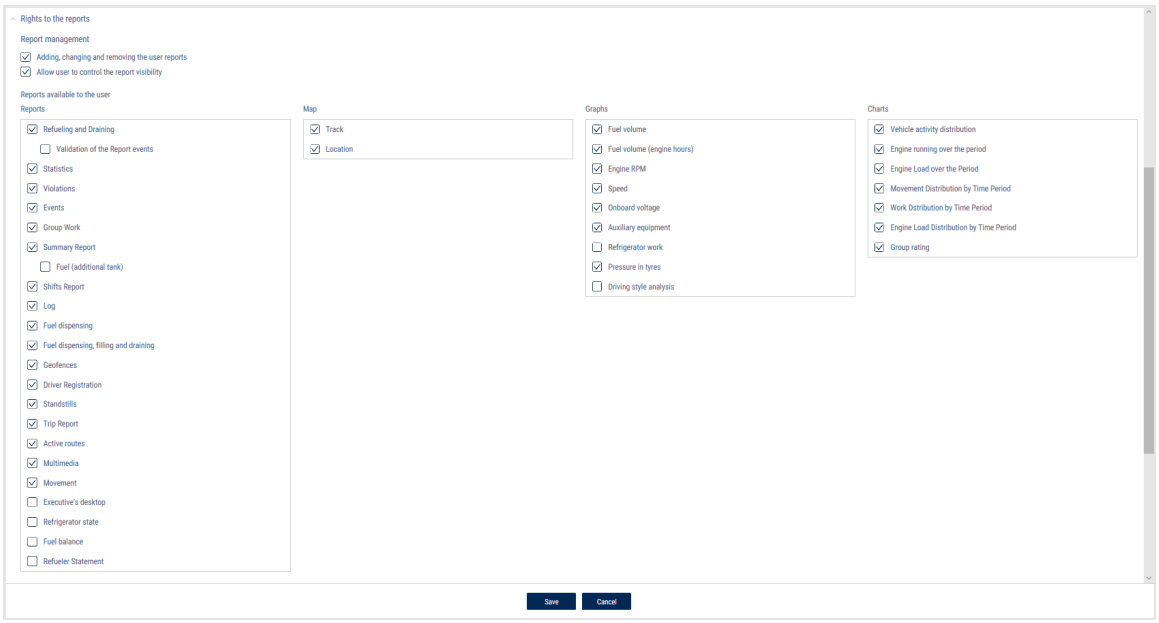
"Access to the streaming service"- check the box for user access to watch video online using the "Video Streaming" application.

"Access to Multitank" - check the box to give the user access to Multitank functionality.

"Access to controlled outputs"- check the box to give the user access to turning on and off the controlled outputs of the Omnicomm terminals in the Omnicomm Online interface.

"Share by link" - check the box to give the user access to creating links to reports.

In the **"Rights to the reports"** section:



"Adding, changing, and removing user reports" – check the box to grant the user access to user report settings.

"Allow user to control the report visibility"– check the box to grant the user access to report display settings.

Select the reports which will be accessible to the user and check the respective boxes. Possible reports:

In the **"Reports"** section:

Features available to partners (dealers)

- refueling and draining

  validation of report events – check the box to enable the user to exclude draining and refueling operations from the "List of refueling and draining operations" report

- statistics
- violations
- events
- group work
- summary report
- shift report
- log
- fuel dispensing
- fuel dispensing, tanking, and draining
- geofence visiting
- driver sign in
- standstills
- trip execution
- active trips
- multimedia
- movement
- executive's desktop
- refrigerator status
- refueler statement
- MultiTank: Refueling and draining
- MultiTank: Fuel in the tanks
- SafeDrive: Violation Details
- SafeDrive: Driver Rating

Features available to partners (dealers)

- maintenance schedule
- current state

In the **"Maps"** section:

- track
- location

In the **"Selection of map"** section:

- OSM map
- Yandex map
- Sputnik map
- Google map
- Google satellite
- Google hybrid
- Wikimaps map
- Omnicomm map
- Omnicomm jams

In the **"Graphs"** section:

- fuel volume
- fuel volume (engine hours)
- engine RPM
- speed
- onboard voltage
- auxiliary equipment operation
- refrigerator operation
- pressure in tyres
- driving style analysis
- MultiTank: Fuel volume in the tanks

In the **"Diagrams"** section:

- movement over a period of time
- work over a period of time
- load over time
- movement distribution over time
- work distribution over time
- load distribution over time
- group rating

If the user's access to the main report has been withdrawn, all user reports created on the basis of this report will be deleted.

Block and unblock

There are two ways of blocking users in Omnicomm Online:

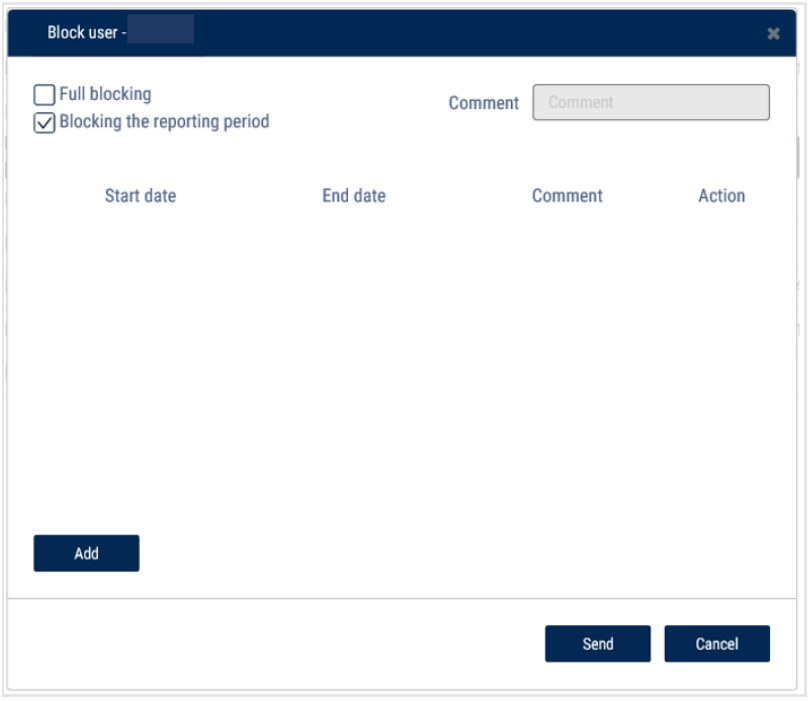
- **Full blocking.** Full blocking denies access to Omnicomm Online with the login details of the blocked user. Users with full blocking are highlighted in pink in the list of users.
- **Blocking the report building period.** Blocking the report period bans the ability of building reports for the period indicated when blocking. In the list, the users who have been banned from building reports for the period, are highlighted in beige.

In the Omnicomm Online window, in the **"Administration"** section, open the **"Users"** tab. Select from the list the user you wish to block from accessing Omnicomm Online and click the icon

In the window that opens, choose the type of blocking you want to set for the user.

To block the user completely, check the **"Full blocking"** box. Add a comment if necessary. Press the "Save" button.

Receiving of users messages



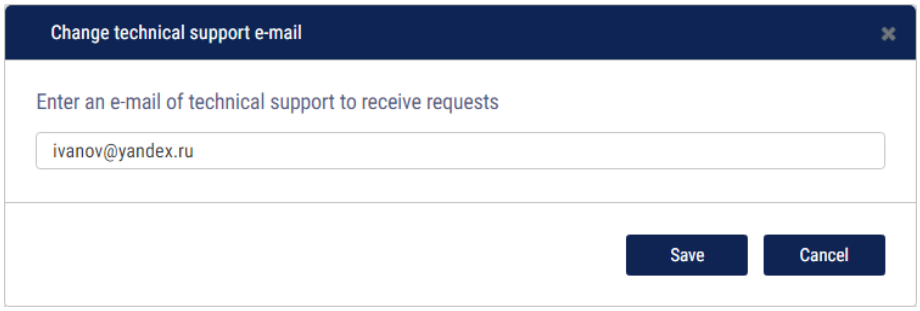
To block the user for a report building period, check the **"Blocking the report building period"** box and click the "Add" button. Select the start and the end date of the blocking period. Press the "Save" button.

To unblock a report building period, choose from the list of blocked periods the one that needs to be deleted and click "Delete". Press the "Save" button.

To block the user completely, check the "Full blocking" box. Press the "Save" button. After unblocking, all data will be available to the user, including the data from the period when the user was blocked.

Receiving of users messages

To receive a messages from users addressed to technical support, click on the "Change e-mail of technical support" button. A window will open:



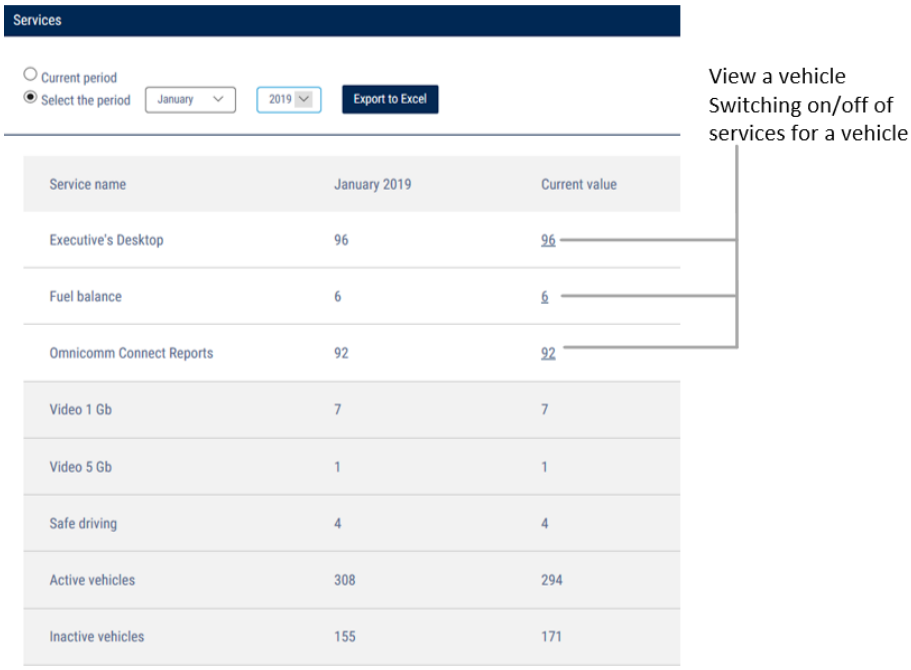
Enter an e-mail of technical support to receive requests:

- This address will be applied for sending messages in technical support (see Sending a Message to the Technical Support Team).
- In case if address not set, the Email address, specified in the dealer's profile, will be used.

A message will be sent to the specified technical support address regardless of the "e-mail" field filling in the user profile.

Services

In the **"Administration"** section, open the **"Services"** tab. A window will open:



Select the period you want to display statistics for:

- current period - currently active services
- choose a period - select the month and the year for which you wish to display the used services

Name of service:

- Login
- Terminals

Services

- Active vehicles
- Inactive vehicles
- Safe Driving. After the Safe driving service was activated for selected terminals the corresponding setting will be sent to RCS. If RCS is not available, these settings will be not applied. Repeat sending by the button “Send setting to RCS”
- Blocked vehicles
- Smart Promo. Active terminals
- Smart Promo. Inactive terminals
- Smart Promo. Blocked terminals
- Connect Mobile. Active terminals
- Connect Mobile. Inactive terminals
- Connect Mobile. Blocked terminals
- GPS Beacon. Active terminals
- GPS Beacon. Inactive terminals
- GPS Beacon. Blocked terminals

Services that need to be activated in the vehicle profile (see Vehicle profile editing):

- Omnicomm Video 1 Gb
- Omnicomm Video 5 Gb

Generating Excel Reports

Click “Export to Excel”. The terminal report will be saved to the PC as **report.xlsx**.

The report contains the following data on terminal operation:

	A	B	C	D	E	F	G	H	I	J	K
1	Omnicomm Online services usage statistics for the period from 01.08.2019 - 31.08.2019										
2											
3	№	Client`s name	Unique Financial Identifier\ OGRN [Primary State Registration Number]	Additional Financial Identifier	Login	Active vehicles	Inactive vehicles	Smart Promo. Active terminals	Smart Promo. Inactive terminals	Connect Mobile. Active	Connect Mobile. Inactive
4	1	[redacted]			[redacted]	9	1	0	0	0	0
5	2					1	5	0	0	0	0
6	3					0	1	0	0	0	0
7	4					32	91	0	0	0	0
8	5					23	12	0	0	0	0
9	6					0	5	0	0	0	0
10	7					0	1	0	0	0	0

Report generated - date and time when the report was generated

Login - login of the user who owns the vehicle

- Omnicomm Video 1 Gb
- Omnicomm Video 5 Gb
- Safe Driving
- Blocked vehicles
- Inactive vehicles
- Smart Promo. Blocked terminals
- Connect Mobile. Blocked terminals
- Connect Mobile. Inactive terminals

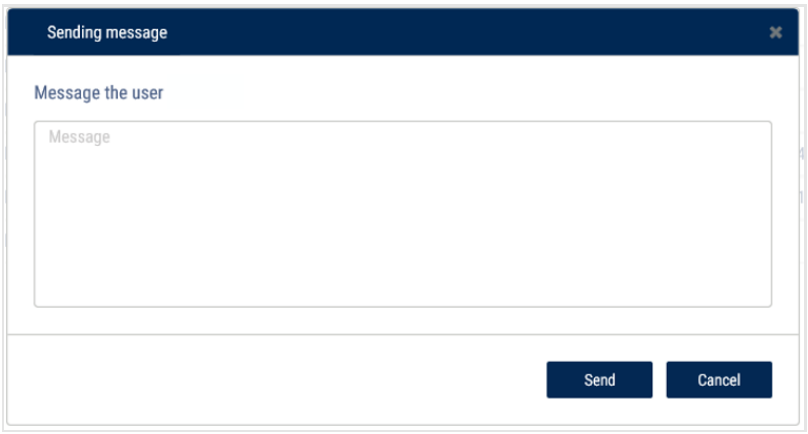
To see the detailed report, go to the next sheet of the file. The detailed report contains the following information:

- Vehicle name
- Terminal ID
- Factory number
- Type - terminal type. Possible options: Omnicomm, Third-party
- Active for the period
- Number of days in the period
- First activity
- Last activity
- Connect Mobile. Inactive terminals
- Executive's desktop
- Fuel Balance
- Safe Driving
- Omnicomm Video1
- Omnicomm Video5

Sending service notifications to users

To send a service notification to the user, click 💬

In the window that opens, enter the text of your message:



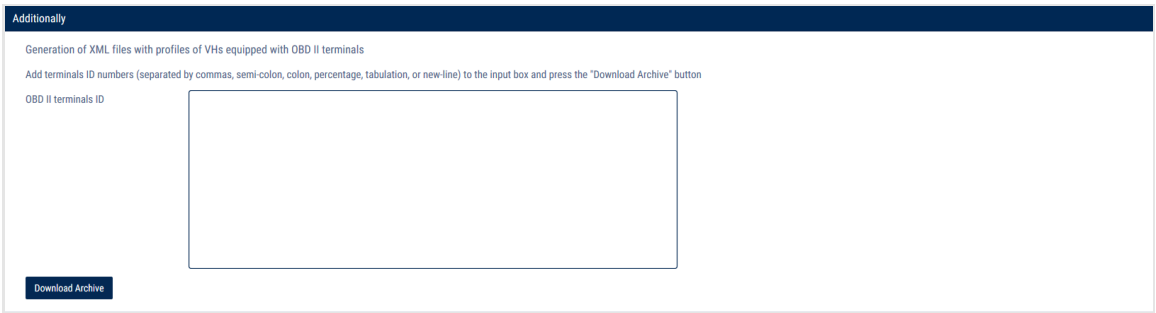
Click **"Send"**. To send a service notification to all users, click the **"Send message to all"** button, enter the text of the message and click **"Send"**.

Adding OBDII terminals

To add OBDII terminals to Omnicomm Online:

1. Create profiles for the vehicles with Omnicomm OBDII terminals
2. Import vehicle profiles to Omnicomm Online

In the **"Administration"** section, open the **"Additionally"** tab. A window will open:



Enter the identification numbers of the OBDII terminals. Separate terminal IDs by comma, percentage, colon, space, tab, or enter on a new line.

Click "Download archive". An archive with vehicle profiles will be downloaded to your PC. The name of the archive will be composed of vehicleExportOBDII, date, and time of saving. For example, vehicleExportOBDII-24-09-2018_12-10-57

In the **"Administration"** section, open the **"Import/Export"** tab. Import vehicle profile as shown in the Import/Export section, see Import/Export.

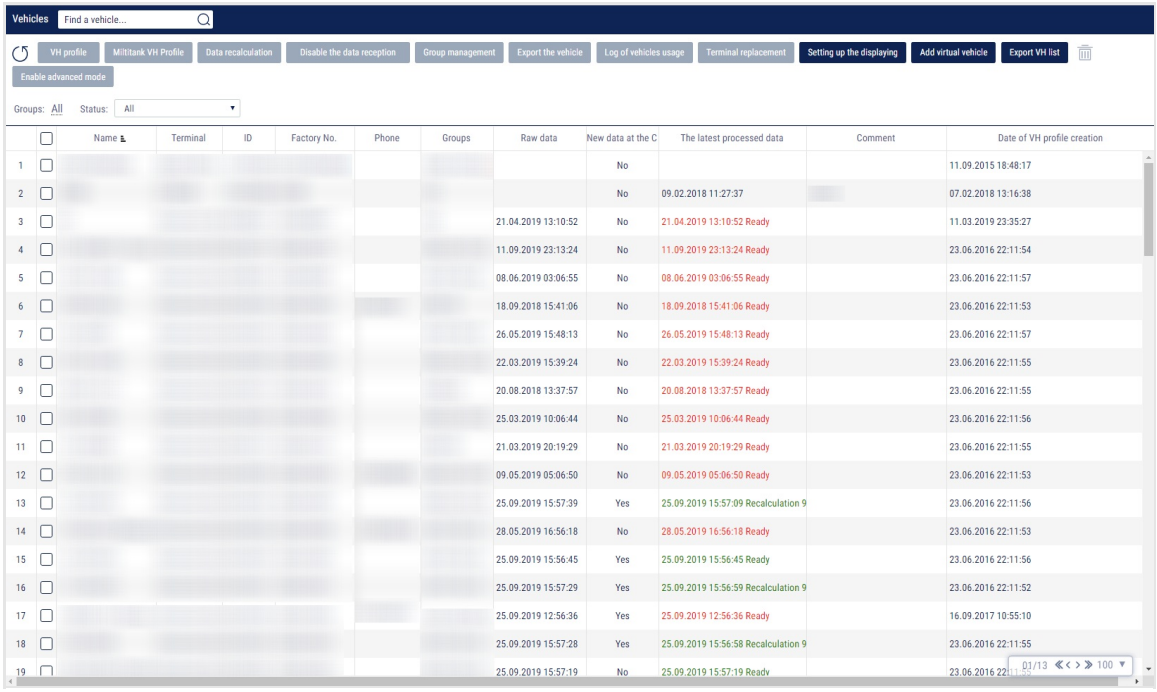
The vehicle name will correspond to the OBDII terminal ID number. You can change the

vehicle name in the vehicle profile, see Profile editing.

Managing the list of vehicles

Log in to Omnicomm Online under your own account or using another user's login details.

In the **"Administration"** section, open the **"Vehicles"** tab. A window will open:



"Raw data" displays the date and time of receipt of the latest data from the communication server for each vehicle.

"New data on the CS" displays the availability of raw data that has not yet been processed. Possible options: "Available", "Not available", "No subscriptions" The "No subscriptions" message is displayed when an incorrect access code was provided during the configuration of the connection to the Communication Server or when the vehicle is not registered on the Control server.

"Last processed data" displays the time and date of receipt of the data that was last processed in Omnicomm. Time and date are highlighted in a certain color, according to the vehicle list display settings (see Omnicomm Online. User Manual. Settings of Objects Tree). Displays the progress of data recalculation as a percentage or "done" when the data recalculation is completed

"Vehicle profile creation date" - date and time when the profile data was first added to Omnicomm Online.

Managing the list of vehicles

Vehicle search

In the search field:

- enter a part of the vehicle's name or of the identification number
- to search for multiple vehicles by their identification numbers, enter the identification numbers (or parts of numbers) separated by commas (with or without spaces). E.g. 346000101,2360154,202360154 or 346000, 2360154, 202360
- to search for multiple vehicles by their names, enter “name:” and the vehicles' names (or parts of names) separated by commas (with or without spaces). E.g. name:Iveco,Man

To reset the search results press  .

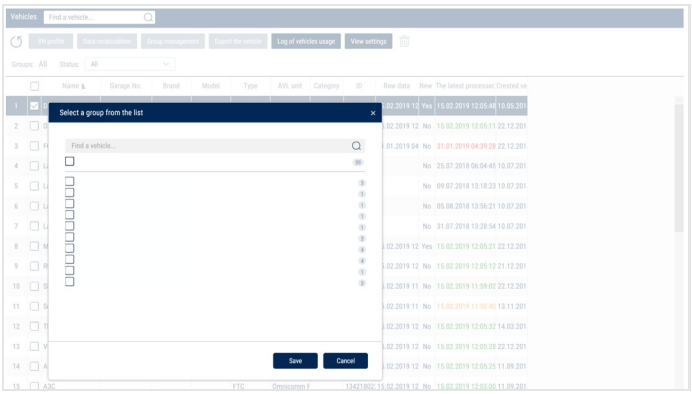
Adding

Adding a vehicle

To add a vehicle, import vehicle profiles (see Exporting and importing objects, users, and notification settings).

Adding a vehicle to a group

In the Omnicomm Online window, in the **“Administration”** section, open the **“Vehicles”** tab. A window will open:



Select from the list the vehicles that you want to add to the group and click **“Manage Groups”**.

Choose a group you want to add the vehicle to or create a new one and click **“Save”**.

Exporting vehicle profiles

In the Omnicomm Online window, in the **"Administration"** section, open the **"Vehicles"** tab.

Select from the list the vehicle profiles you want to export to a file. Press the **"Export"** button.

The vehicle data will be saved in .xml files, compressed in a zip archive without preserving the structure of groups and subgroups.

Block and unblock

In the Omnicomm Online window, in the **"Administration"** section, open the **"Vehicles"** tab. Select from the list the vehicles for which you want to turn off data transfer to Omnicomm Online, and click **"Turn off data reception."**

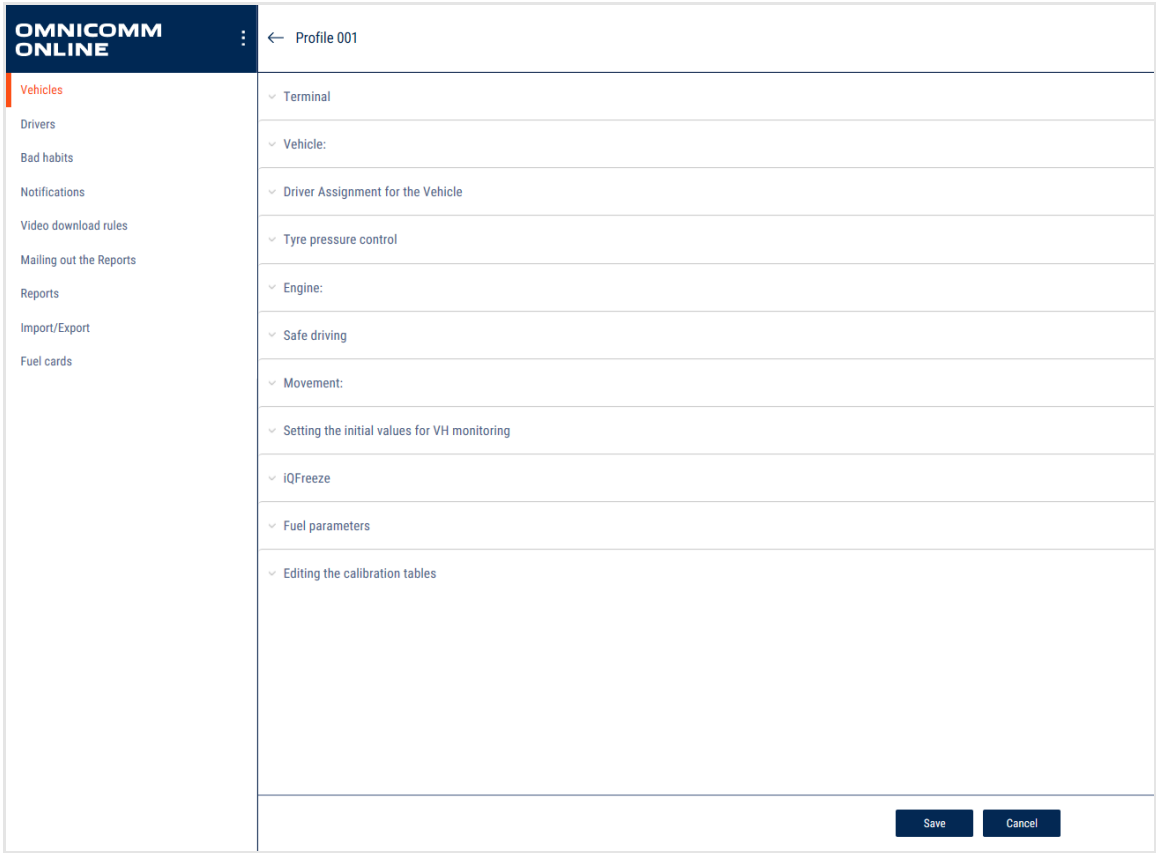
A window will open - click "Ok". The vehicles for which data reception is disabled are highlighted in red in the list of vehicles.

To enable data reception, select the vehicle and click **"Enable data transfer".**

Multitank vehicle profile editing

In the program window, select from the list the vehicle profile you would like to edit. Click **"Multitank vehicle profile"**. A window will open:

Managing the list of vehicles



In the **"Terminal"** section:

"Terminal" – the terminal's model.

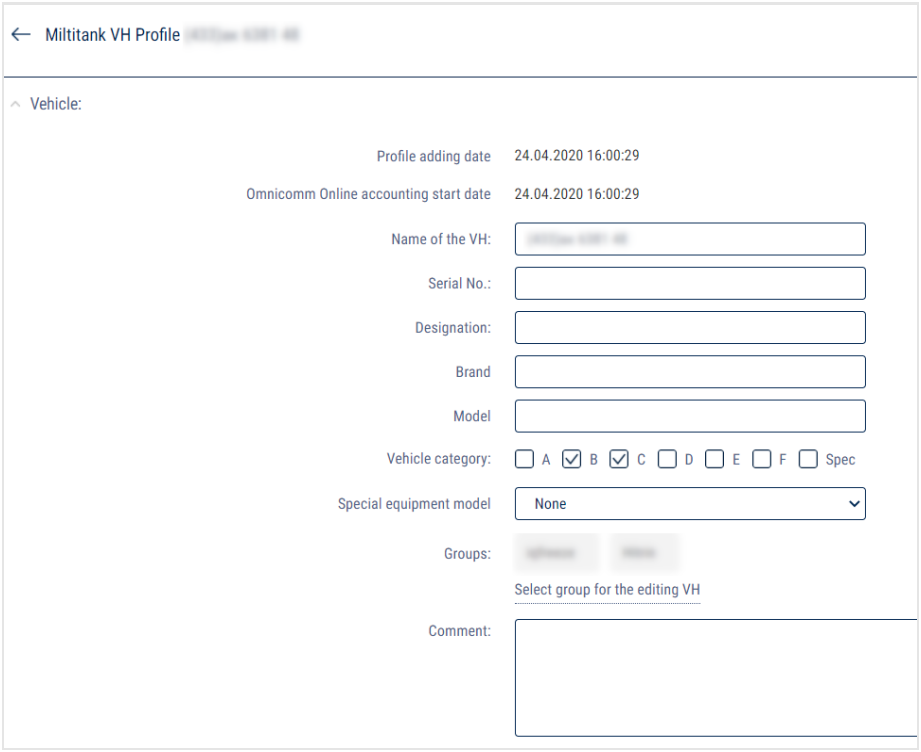
"ID" the identification number of the Terminal installed on the vehicle.

"Factory number" the factory number of the Terminal, which is assigned during the production.

"Phone number" enter the phone number of the SIM card in the Terminal.

In the **"Vehicle"** section:

Managing the list of vehicles



“Profile added date” - the date and time when the profile was added to Omnicomm Online.

“OO account creation date” - date and time when the profile data was first processed in Omnicomm Online.

“Current profile version start date” - the date and time when the vehicle profile was last modified.

“Vehicle Name” – the state registration number (plates) or the name of the vehicle. Example: 10 RU A 123BV. The vehicle name must be unique in Omnicomm Online. The “Vehicle Name” field must not be empty and must not exceed 100 characters.

“Depot ID” – the internal number of the vehicle within the organization.

“Designation” – the vehicle's designation within the organization.

“Brand” – the vehicle's brand.

“Vehicle category” - select the category of the vehicle. Possible options:

- Categories A, B, C, D, E, F, according to the traffic regulations of the Russian Federation
- Category SPEC - specialized machinery

“Special equipment model” - select the model of equipment or vehicle for which you wish to display additional operating parameters in the Log report. Possible options:

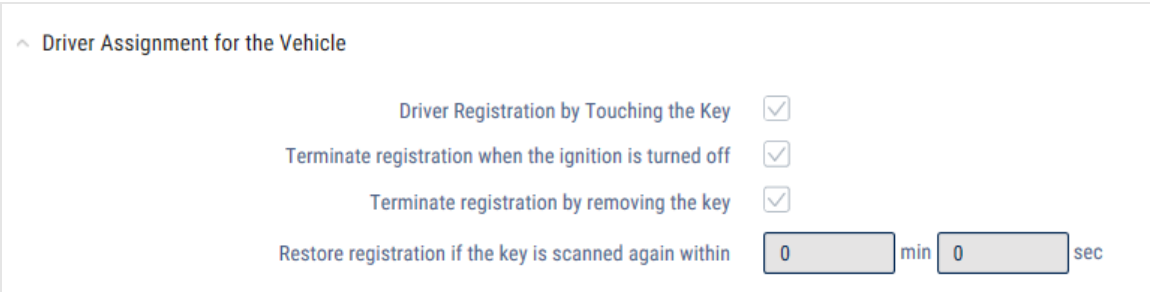
- TG series grader - operation parameters apply to these vehicle models only, the connection is performed via CAN J1939
- Excavator WX200, TX200 - operation parameters apply to these vehicle models only, the connection is performed via CAN J1939
- Tractor PTZ K4, K7 - operation parameters apply to these vehicle models only, the connection is performed via CAN J1939
- Axle load (VOLVO) - parameters apply only to VOLVO trucks with a CAN bus error, which transmit the wheel number instead of the axle number, the connection is performed via CAN J1939
- Axle load (ALM) – the ALM axle load detection system is connected via the RS-232 interface
- Logset Harvester – parameters apply to this vehicle model only, the connection is performed via the CAN bus
- J1939 axle group load - parameters for European trucks/buses, the connection is performed via the CAN bus
- J1939 fuel parameters – parameters for European trucks/buses, the connection is performed via the CAN bus, instantaneous fuel consumption is displayed
- CanExtender – parameters for the CANExtender equipment (UI extender) connected via the CAN bus

To display additional vehicle operation parameters, check the box "Technical parameters operation displaying" in the Log report settings (see Omnicomm Online. User Manual. Log report).

We are constantly expanding the list of special equipment models. If you cannot find the description you are looking for, please contact the Omnicomm technical support team (support@omnicomm-world.com).

"Groups". Click on the **Select group for the vehicle** hyperlink and select from the list the groups to which the vehicle will belong to.

In the **"Driver sign in on a vehicle"**section:



“Driver sign in by tag reading”– y- check the box to sign in a driver when an RFID card or an iButton key is scanned.

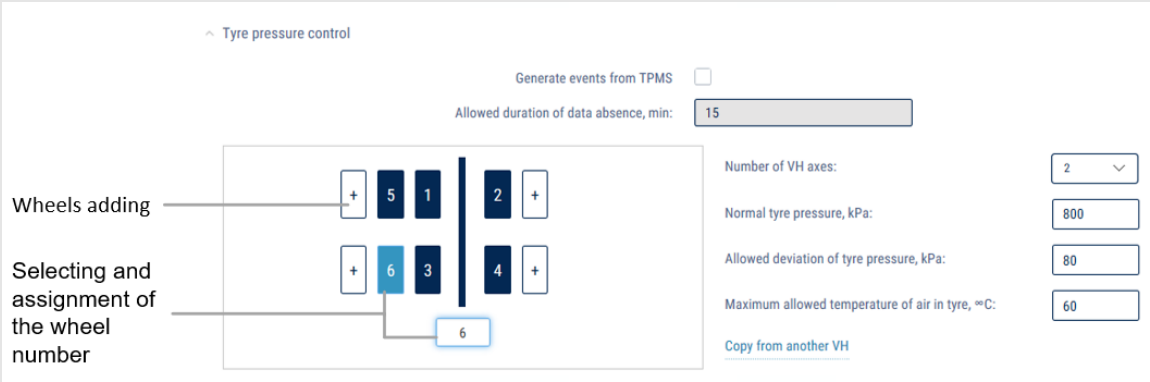
The driver is automatically signed out on the vehicle when the current driver signs in on another vehicle or when another driver signs in on this vehicle.

“Sign out when the ignition is turned off”– check the box to sign the driver out when the ignition is turned off.

“Sign out when the tag is removed from the holder”– check the box to sign the driver out when the iButton key or the RFID card are removed from the holder.

“Resume sign in if the tag is reinserted within”– specify the time in which the RFID card or the iButton key must be reinserted to automatically resume driver sign in. The field is active only when the “Sign out when the ignition is turned off” or “Sign out when the tag is removed from the holder” parameters are enabled.

In the **“Tire Pressure Monitoring”** section:



“Create events from TPMS” – check the box to process data from the tire pressure monitoring system.

“Allowed duration of data absence, minutes”– enter the time after which, in the absence of data, the “No data from the tire pressure monitoring system” event will be recorded. Possible values: from 0 to 1140 min. Default value – 15.

“Number of axles” – select the number of vehicle axles. Possible values: from 1 to 13.

“Normal tire pressure, kPa” – enter the tire pressure value set by the vehicle's manufacturer. Possible values: from 0 to 1000 kPa.

“Permissible tire pressure deviation, kPa”– enter the value of the permissible deviation from the normal tire pressure. If this value is exceeded, the “Drop in tire pressure” event will be recorded.

“Maximum permissible air temperature in the tire, °C”– if this value of air temperature in the tire is exceeded, the “Raise of tire temperature” event will be recorded.

Possible values: from -125 to 125 °C. Default value: 60 °C.

To copy the settings for axles, wheels, and permissible values from another vehicle, click the **Copy from another vehicle** link.

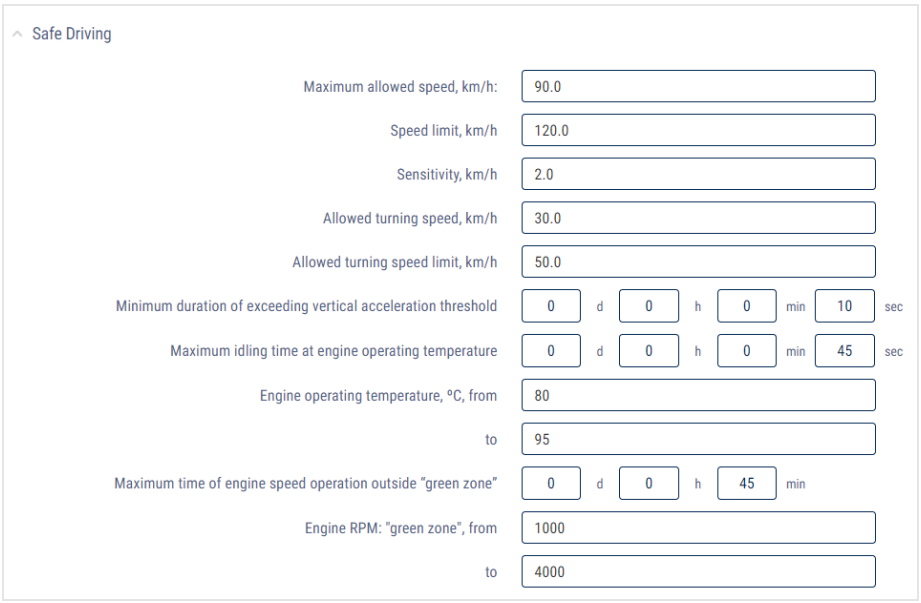
In the **"Engine"** section:

"Correction coefficient for the RPM sensor" – the coefficient of conversion of the number of pulses recorded by the RPM sensor into the number of revolutions.

"Limit level of engine RPM" – the value of engine revolutions, above which Omnicomm Online will record vehicle operation under maximum (ultimate) load. Default value - 5500 RPM.

"Engine idle RPM" – is the value of engine revolutions, above which Omnicomm Online will record the movement of the vehicle. Default value - 1000 RPM.

In the **"Safe driving"** section:



"Maximum allowed speed, km/h"– the value of the vehicle speed, above which Omnicomm will register vehicle movement as exceeding the maximum allowed speed. Possible values: from 0 to 300 km/h. Default value - 0 km/h (no violations will be recorded).

"Speed limit, km/h" – the value of the vehicle speed, above which Omnicomm will

register vehicle movement as exceeding the speed limit. Possible values: from 0 to 300 km/h. Default value - 120 km/h.

> The value of the "Speed limit, km/h" parameter must be greater than the value of "Maximum allowed speed, km/h"

"Sensitivity, km/h" – enter the permissible amount of speed value variation. If the maximum allowed speed or the speed limit are exceeded by a value lesser than this, no violation will be recorded. Possible values: from 0 to 99 km/h. Default value - 2 km/h.

"Allowed turning speed, km/h"– the value of vehicle speed while turning. If this value is exceeded, Omnicomm will record vehicle movement with an exceeded turning speed. Possible values: from 0 to 300 km/h. Default value - 30 km/h.

"Speed limit while turning, km/h" – the value of the vehicle speed, above which Omnicomm will register vehicle movement as exceeding the speed limit while turning. Possible values: from 0 to 300 km/h. Default value - 50 km/h.

"Minimum duration of exceeding the vertical acceleration threshold"– when the vertical acceleration threshold is exceeded for longer than indicated, the corresponding event will be recorded. Possible values: from 0 to 60039 sec. Default value - 0 (no violations will be recorded).

"Maximum duration of idle run at engine operating temperature"– enter the amount of time after which, during idle engine run at operating temperature, the corresponding event will be recorded. Possible values: from 0 to 60039 sec. Default value - 0 (no violations will be recorded).

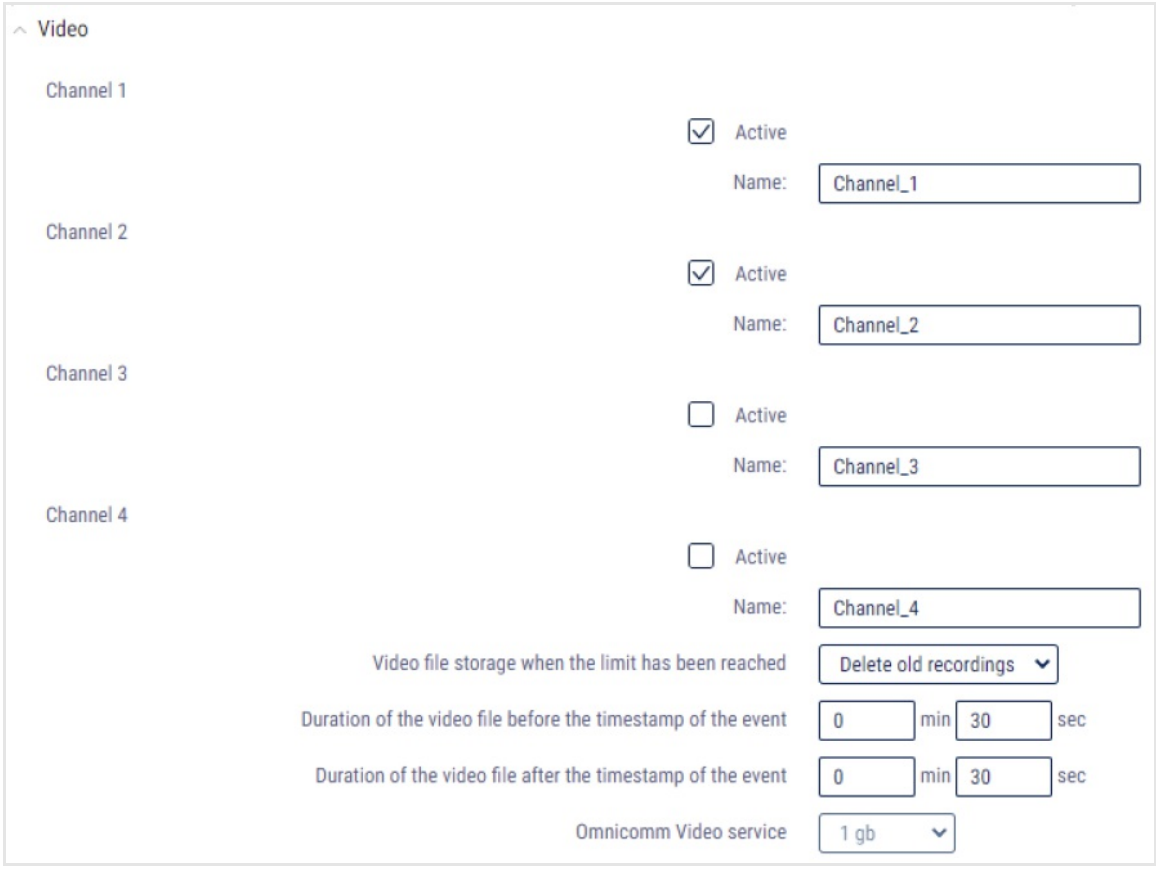
"Engine operating temperature" – specify the range of temperature in which the engine can operate regularly. Possible values: from 0 to 300 °C. Default value: 80 and 100 °C. The operating temperature value is recorded based on the data received from the CAN bus.

"Engine RPM: "green zone" – specify the range of revolutions for engine regular operation. Possible values: from 0 to 10,000 RPM. Default values: 1000 and 4000 RPM.

"Maximum time of engine speed operation outside "green zone"– enter the time after which, during engine operation outside of the "green area", the corresponding event will be recorded. Possible values: from 0 to 60039 sec. Default value - 0 (no violations will be recorded).

In the **"Video"** section:

Managing the list of vehicles



Specify, for each channel:

"Active" - enable/disable the processing of video from the camera

"Name" - enter the name that will be superimposed on the video to identify the camera.

"Video file storage when the limit has been reached". Possible options:

- Delete old recordings - when the storage is full, old recordings will be deleted
- Deny recording - when the storage is full, the recording will stop

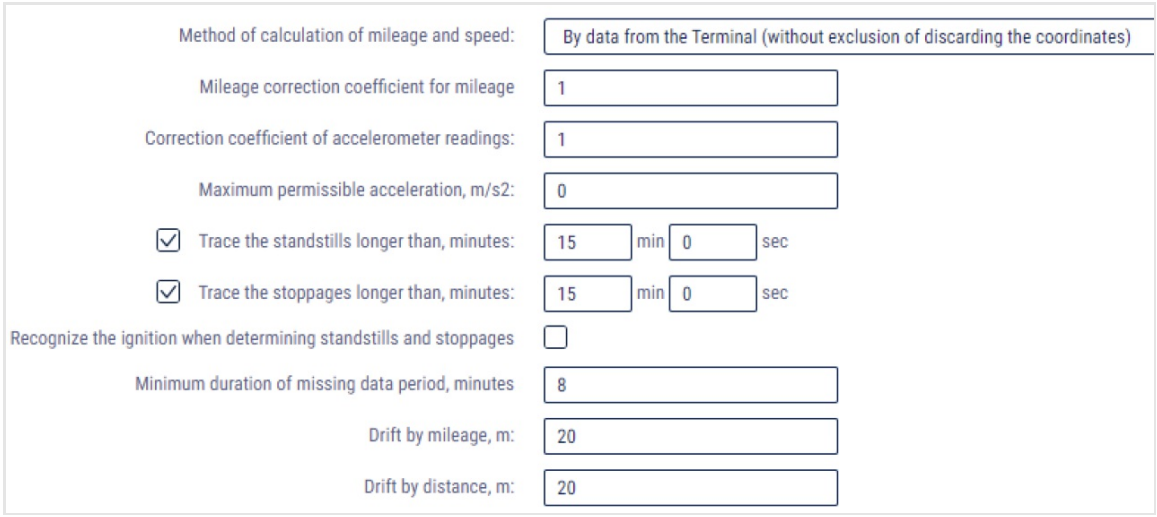
"Duration of the video file before the timestamp of the event"– specify the length of the video before the event is recorded.

"Duration of the video file after the timestamp of the event"– specify the length of the video after the event is recorded.

"Omnicomm Video service" – select the size of disk space reserved for videos. Possible options: off, 1 Gb, 5 Gb.

In the **"Movement"** section::

Managing the list of vehicles



"Method of calculation of mileage and speed" allows you to choose based on what data and using which method are the mileage and speed calculated. Possible options:

- "By data from the Terminal (without exclusion of discarding the coordinates)" - Omnicomm Online calculates the mileage according to the data obtained from the Terminals by discarding the drift coordinates.
- "By data from the Terminal (with the exclusion of discarding the coordinates)" - Omnicomm Online calculates the mileage according to the data obtained from the Terminals without excluding drift coordinates.
- "Speed by GPS coordinates, mileage by GPS coordinates (without exclusion of discarding the coordinates)" - Omnicomm Online calculates mileage based on the GPS coordinates, discarding the non-valid GPS coordinates or those defined by less than 4 satellites.
- "Speed by GPS coordinates, mileage by GPS coordinates (with the exclusion of discarding the coordinates)" - Omnicomm Online calculates mileage based on the GPS coordinates without discarding non-valid GPS coordinates or those defined by less than 4 satellites.
- "By data from the speed sensor" - Omnicomm Online calculates the mileage based on the standard vehicle speed sensor taking into account the correction factor (only for cars).

For a standard speed sensor, select **"Correction coefficient for the Speed Sensor"**, which provides for the correction of the speed sensor readings.

"Trace the standstills longer than, minutes:" – check the box and specify the number of minutes after which, if the appropriate conditions are met, the vehicle will register as parked. The conditions for recording standstills or stoppages depend on the parameter "Consider ignition when determining parking and stoppages".

"Trace the stoppages longer than, minutes:" – check the box and specify the time in minutes after which, when the relevant conditions are met, a vehicle stoppage will be recorded.

"Recognize the ignition when determining standstills and stoppages"– check the box, when it is necessary to record standstills and stoppages taking into account the ignition status. The choice is available only when the parameters "Track standstills longer than, minutes" or "Track stoppages longer than, minutes" are enabled.

The conditions for recording a standstills/stoppages, taking the vehicle's ignition into account:

- more time has passed since the ignition was turned off than indicated in "Track standstills longer than, minutes"
- vehicle speed is less than 2 km/h

The conditions for recording a standstills/stoppages, without taking the vehicle's ignition into account:

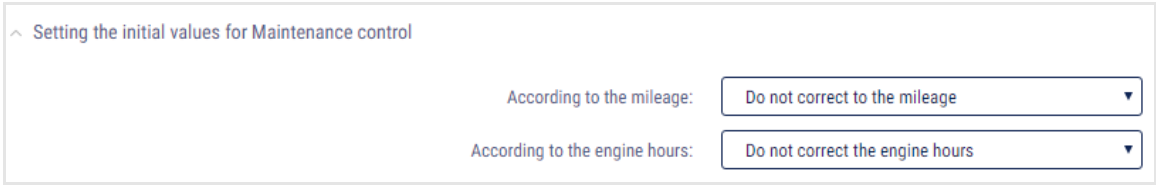
- the vehicle speed is less than 2 km/h for all consecutive events with "raw" data
- the distance between any events with "raw" data is less than 800 m
- the time interval between the first and the last event with "raw" data is greater than the value of the parameter "Track standstills longer than, minutes"
- the time interval between the first and the last event with raw data does not include periods with data absence

"Minimum duration with data absence" – the maximum time between the current and the last event with valid "raw" data, after which Omnicomm will record the event of data "absence".

"Drift by mileage and by distance" – specifies the number of cut off drift coordinates when the vehicle is parked, with the GPS module in operation. When a vehicle is moving at a speed of more than 5 km/h, drift coordinates are not cut off.

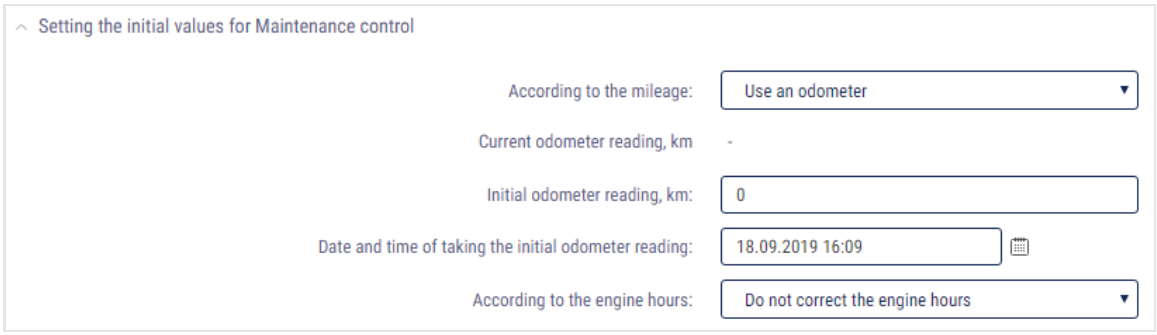
The values **"Drift by mileage, m"** (from 0 to 100 m) and **"Drift by distance, m"** (from 0 to 100 m) are selected taking into account the average speed of the vehicle. The default value for both parameters is 20 m.

In the **"Setting initial values for maintenance control"** section:



"According to the mileage" – allows you to select the data source for tracking vehicle's mileage during maintenance controls. Possible options:

- **"Do not correct to the mileage"** – mileage calculation to check the maintenance outcome will not be performed
- **"Use an odometer"** – the calculation is made according to the odometer set in the vehicle profile in the parameter "Mileage and speed calculation method". Possible options: from the terminal (with drift), from the terminal (without drift), speed according to GPS, mileage according to GPS coordinates, from the speed sensor.

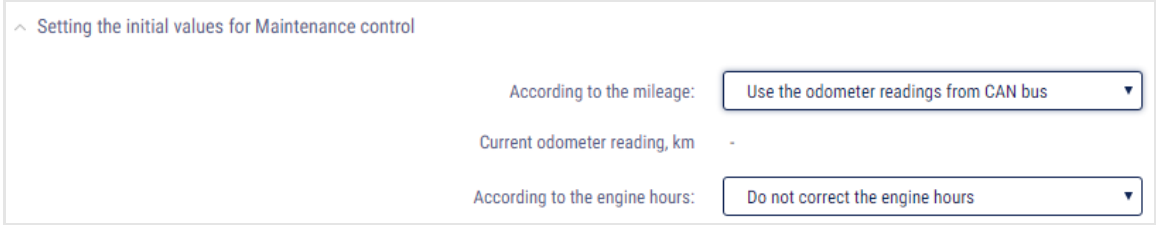


"Initial odometer reading, km" – enter the mileage reading from the odometer.

"Date and time of taking the initial odometer reading" – enter the date and time when the odometer reading was taken.

"Current odometer reading, km" – displays the mileage value calculated by Omnicomm when using an odometer. To display the current odometer reading during the first installation or adjustment, save the changes in the vehicle profile and then reopen it.

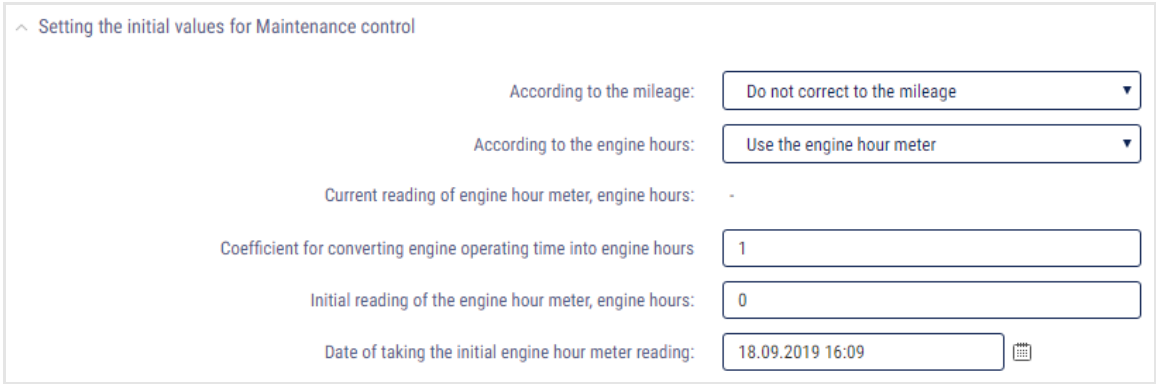
- **"Use odometer reading from CAN bus"** – the mileage to check the maintenance outcome will be calculated based on the values obtained from the CAN bus.



"The current odometer reading, km" displays the last mileage reading sent by the terminal based on the odometer readings of the CAN bus.

"Correct to the engine hours" allows you to select the data source for tracking vehicle's engine hours during maintenance controls. Possible options:

- **"Do not correct to the engine hours"**- engine hours calculation to check the maintenance outcome will not be performed
- **"Use engine hour meter"**- the hourly calculation will be made based on the readings of the vehicle engine hour meter and on engine operating time.

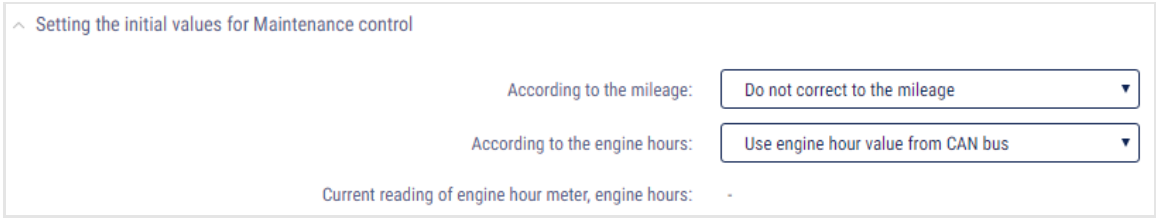


"Coefficient for converting engine operating time into engine hours" - specify the conversion coefficient of the engine operation time to engine hours, indicated in the vehicle documentation.

"Initial reading of the engine hour meter, engine hours:" - the reading of the engine hour meter.

"Date of taking the initial engine hour meter reading:" - enter the date and time when the engine hour meter reading was taken.

- **"Use CAN bus engine hours reading"**– the engine hours used to check the maintenance outcome will be calculated based on the values obtained from the CAN bus.



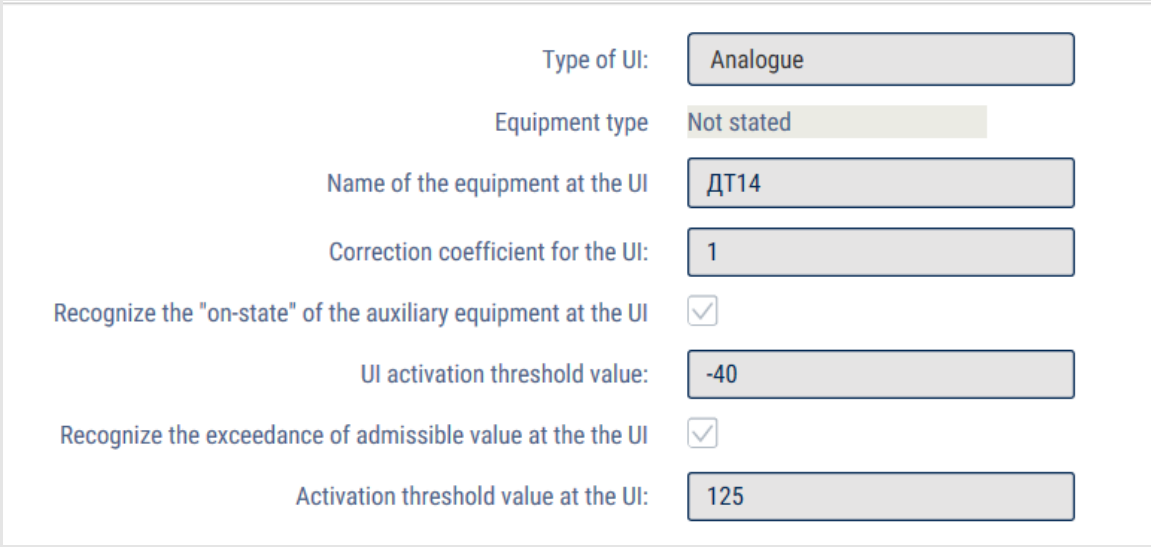
"The current value of the engine hour meter, engine hours" - the number of engine hours from the CAN bus.

In the **"Universal input settings"** section:

Analog universal input

"Type of universal input" displays **"analog"** as the type of input set during terminal

configuration.



"Name of the equipment at the UI:" – enter the name of the sensor or the name of the measured value.

"Correction coefficient for the UI:".
Default value – 1.

"Recognize the "on-state" of the auxiliary equipment at the UI"– record the power-on status of auxiliary equipment at the universal input.

"Threshold of the activation value at the UI:" – for analog sensors, it is recommended to set a value outside the measuring range of the sensor, which will help to avoid recognizing unnecessary sensor-off events. When "Recognize the "on-state" of the auxiliary equipment at the universal input" is turned off, the "Activation threshold value at the universal input" field is not editable.

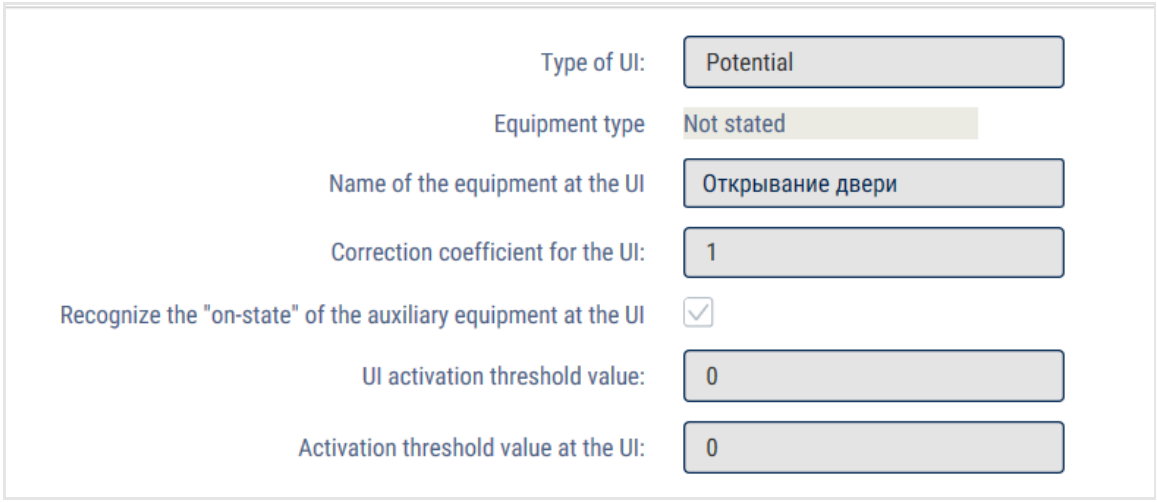
"Recognize the exceedance of admissible value at the UI"– record an excess of the permissible value at the universal input.

"Threshold of the maximum permissible value at the UI:"– enter the measurement value, above which Omnicomm will record work in excess of the permissible value. When "Recognize the excess of the permissible value at the universal input" is disabled, the "Maximum permissible value threshold at the universal input" field is not available for editing.

To save all setting, click **"Save".**

Potential universal input

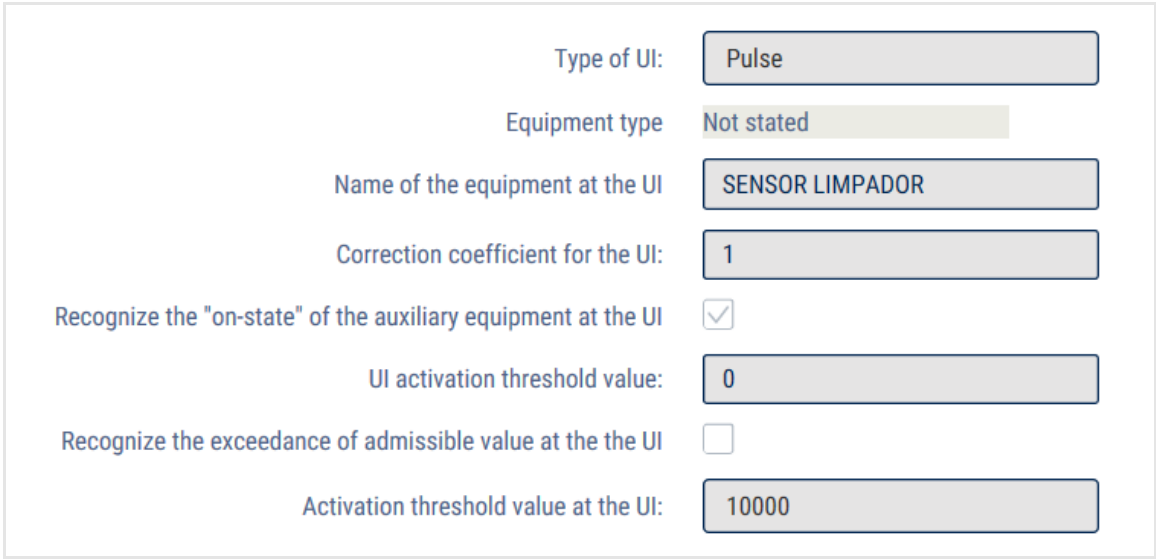
"Type of universal input" – displays "potential" as the type of input set during Terminal configuration.



"Equipment name at universal input"– enter the name of the sensor or the name of the measured value.

Pulse universal input

"Type of universal input" displays **"pulse"** as the type of input set during Terminal configuration.



"Equipment name at universal input"– enter the name of the sensor or the name of the measured value.

It is recommended to change the **"Universal Input Correction Coefficient"** only if the input calibration was not performed correctly.

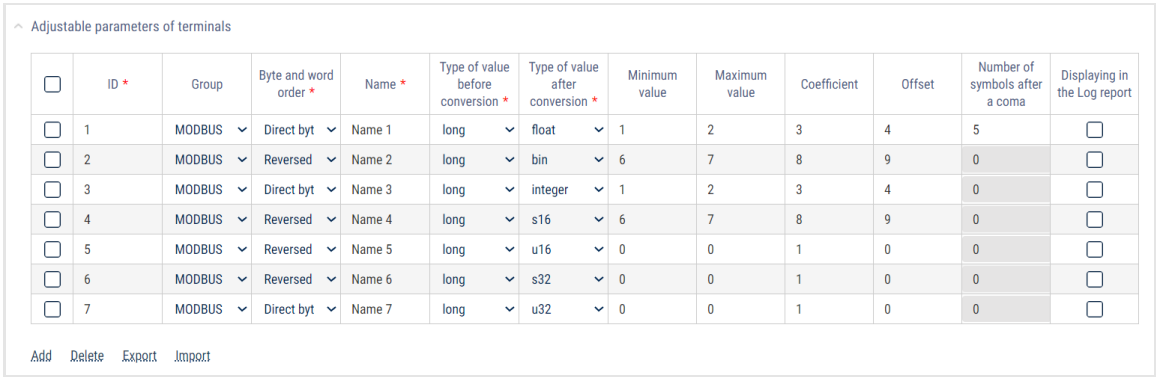
"Recognize the "on-state" of the auxiliary equipment at the universal input"– record the power-on status of auxiliary equipment at the universal input.

When "Recognize the "on-state" of the auxiliary equipment at the universal input" is turned off, the "Activation threshold value at the universal input" field is not editable.

“Recognize the excess of the permissible value at the universal input”– record an excess of the permissible value at the universal input.

“Threshold of the maximum permissible value at the universal input”– enter the measurement value, above which Omnicomm will record work in excess of the permissible value. When “Recognize the excess of the permissible value at the universal input” is disabled, the “Maximum permissible value threshold at the universal input” field is not available for editing.

In the «**Terminal adjustable parameters**» section:


Adjustable parameters of terminals

	ID *	Group	Byte and word order *	Name *	Type of value before conversion *	Type of value after conversion *	Minimum value	Maximum value	Coefficient	Offset	Number of symbols after a coma	Displaying in the Log report
☐	1	MODBUS	Direct byt	Name 1	long	float	1	2	3	4	5	☐
☐	2	MODBUS	Reversed	Name 2	long	bin	6	7	8	9	0	☐
☐	3	MODBUS	Direct byt	Name 3	long	integer	1	2	3	4	0	☐
☐	4	MODBUS	Reversed	Name 4	long	s16	6	7	8	9	0	☐
☐	5	MODBUS	Reversed	Name 5	long	u16	0	0	1	0	0	☐
☐	6	MODBUS	Reversed	Name 6	long	s32	0	0	1	0	0	☐
☐	7	MODBUS	Direct byt	Name 7	long	u32	0	0	1	0	0	☐

Add Delete Export Import

Click the Add link to add the Modbus parameters and specify the values for the following parameters:

“ID”

“Group” – select the parameter group. Possible values: Modbus.

“Byte and word order” – choose the order of words and bytes. Possible values: direct order of words and bytes, reverse order of words and bytes, reverse order of bytes, reverse order of words. Default value – direct order of words and bytes.

“Name” – enter the name of the parameter.

“Type of value before conversion”– select the parameter value type before conversion in Omnicomm Online. Possible values: long.

“Type of value after conversion”– select the parameter value type after conversion in Omnicomm Online. Possible values: integer, float, bin, double, S16, U16, S32, U32, U64.

“Minimum value” – specify the minimum value for a parameter.

“Maximum value” – specify the maximum value for a parameter.

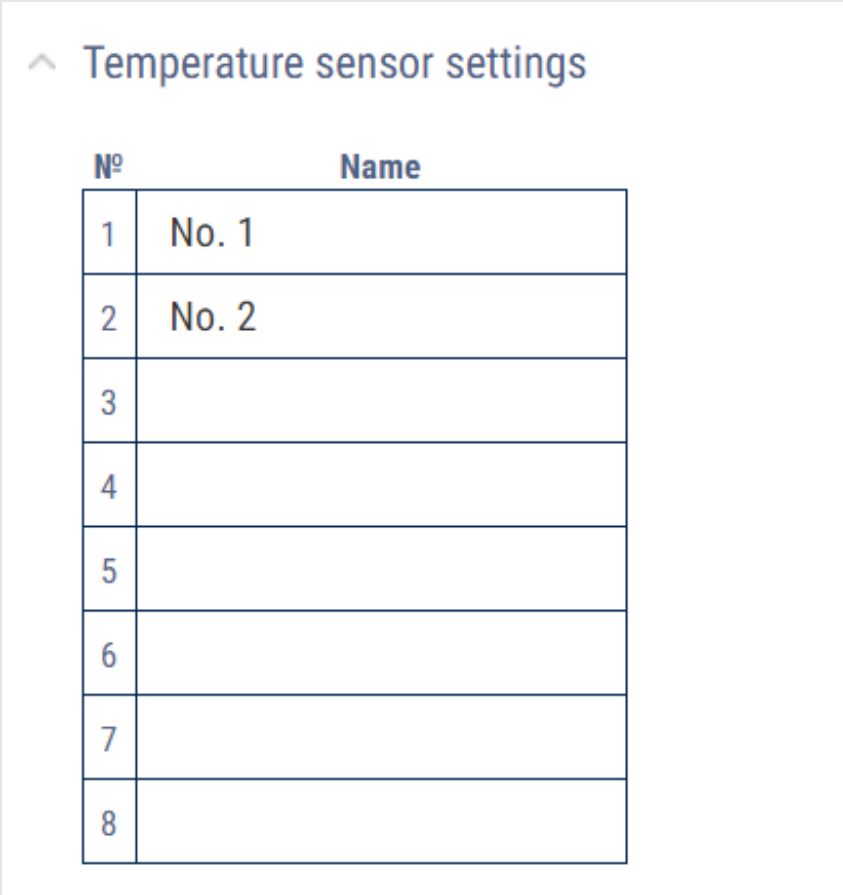
“Factor” – specify the adjustment factor.

“Offset” – specify the offset value for this parameter.

“Decimal places” (for value types after conversion: double, float) – specify the accuracy for an added parameter.

“Display in the Log report”– check the box to display the parameter in the Log report.

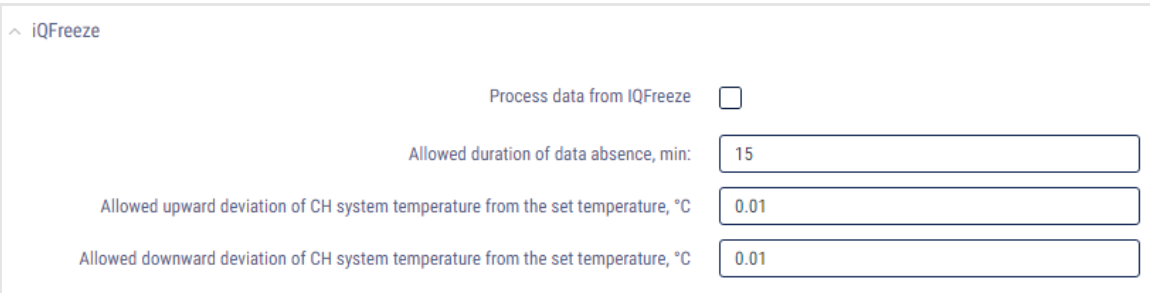
In the **«Temperature sensor configuration»** section:



“No.” – the number of the temperature sensor is displayed.

“Name” – enter the name of the temperature sensor. For example, “cabin”. Maximum length: 16 characters.

In the **«iQFreeze»** section:



“Process data from IQFreeze” – check the box to monitor data from IQFreeze.

“Allowed duration of data absence, minutes”. Possible values: from 0 to 1440 min. Default value – 15 min.

“Allowed upward deviation of CH system temperature from the set

temperature,oC". Possible values: from 0.00 to 100.00 °C

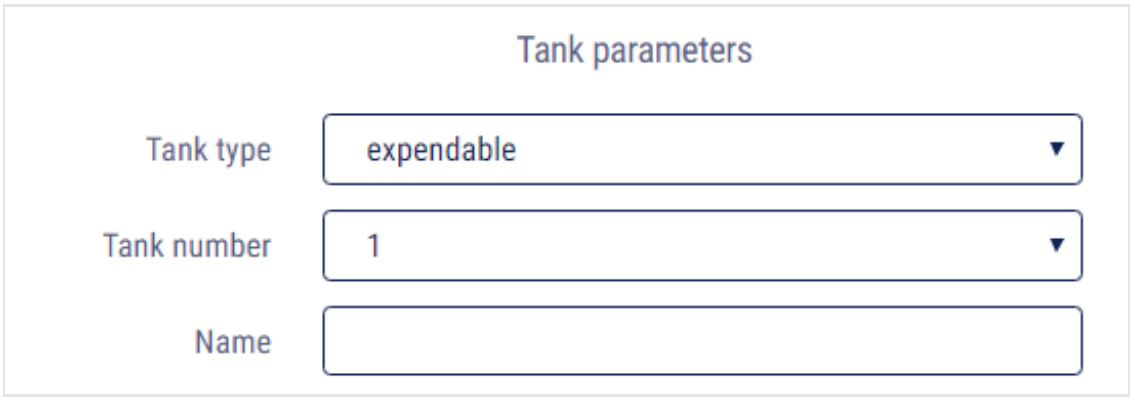
"Allowed downward deviation of CH system temperature from the set temperature, °C". Possible values: from 0.00 to 100.00 °C

In the **"Fuel parameters"** section:

"Fuel tanks" – select the number of fuel tanks installed on the vehicle. Possible value: from 1 to 6. Install the settings for every tank.

Main tank is displayed first, additional tank (if available) - second. Installed parameters of main tank are assigned to the first tank, additional tank (if available) - to the second.

In the **"Tank parameters"** section:

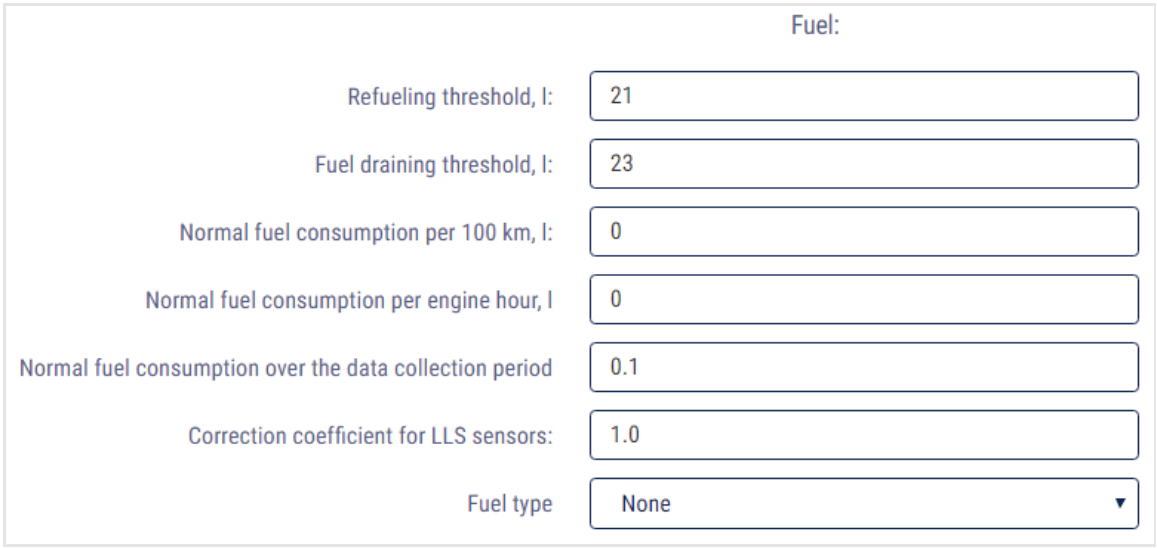


"Type of tank" - dispensing.

"Tank number" - enter the serial number of the vehicle's tank.

"Name" - enter the name of the tank.

In the **"Fuel"** section for the expendable tank:



"Refueling threshold, l" (from 0 to 28000) - the amount of fuel to which the total

amount of the vehicle's fuel must be increased during the designated period of time, in order for the refueling to be registered.

"Draining threshold, l" (from 0 to 28000) - the amount of fuel by which the total amount of the vehicle's fuel must be reduced during the designated period of time, in order for fuel draining to be registered.

Default value of the refueling threshold - 7% of the tank volume.

Default value of the draining threshold - 7% of the tank volume.

Rough filter size (5 -50), default value - 15.

"Normal consumption per 100 km, l" (from 0 to 1000 with an accuracy of 0.1 l) is the volume of fuel consumed by the vehicle per 100 km (only for vehicles).

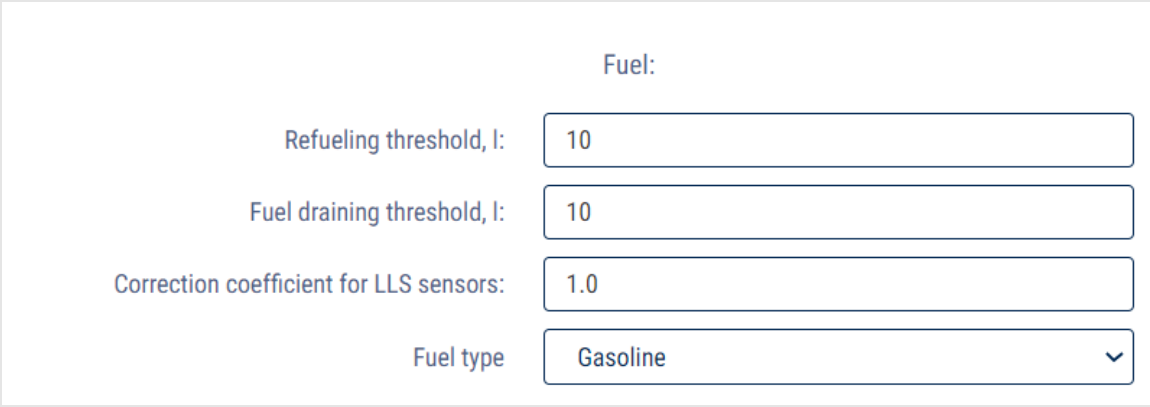
"Normal consumption per engine hour, l" (from 0 to 1000 with an accuracy of 0.1 l) is the volume of fuel consumed by the vehicle during one engine operation hour (only for vehicles).

"Normal consumption over a data collection period, l"(from 0 to 1000 with an accuracy of 0.1 l) is the volume of fuel consumed by the vehicle over one data collection period (only for vehicles).

"Correction coefficient for fuel sensors" (from 0.01 to 1.99) is used to adjust the Omnicomm LLS fuel level sensor readings.

"Fuel type" - select the fuel type to be used. Possible options: gasoline, diesel fuel.

In the **"Fuel"** section for the non-expendable tank:



"Refueling threshold, l" (from 0 to 28000) - the amount of fuel to which the total amount of the vehicle's fuel must be increased during the designated period of time, in order for the refueling to be registered.

"Fuel draining threshold, l" (from 0 to 28000) - the amount of fuel by which the total amount of the vehicle's fuel must be reduced during the designated period of time, in order for fuel draining to be registered.

"Correction coefficient for fuel sensors" (from 0.01 to 1.99) is used to adjust the Omnicomm LLS fuel level sensor readings.

"Fuel type" – select the type of fuel in use. Possible options: gasoline, diesel fuel.

In the **"Parameters of fuel data processing algorithms"** section:

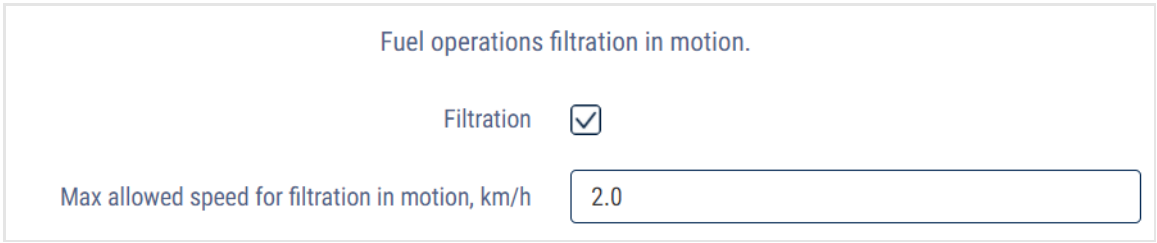
Rough filter lenght (5-50), default value - 15.

The thresholds for refueling/draining and the size of the rough filter are selected based on the volume of the tank, the amount of the detected refueling/draining and the operation conditions of the vehicle.

In cases when the operating conditions and the vehicle characteristics cause significant fluctuations in the fuel level, it is recommended to increase the refueling/draining thresholds and the rough filter value relative to default values.

In cases when the operating conditions and the vehicle characteristics cause slight fluctuations in the fuel level, it is allowed to reduce the refueling/draining thresholds and the rough filter value relative to default values.

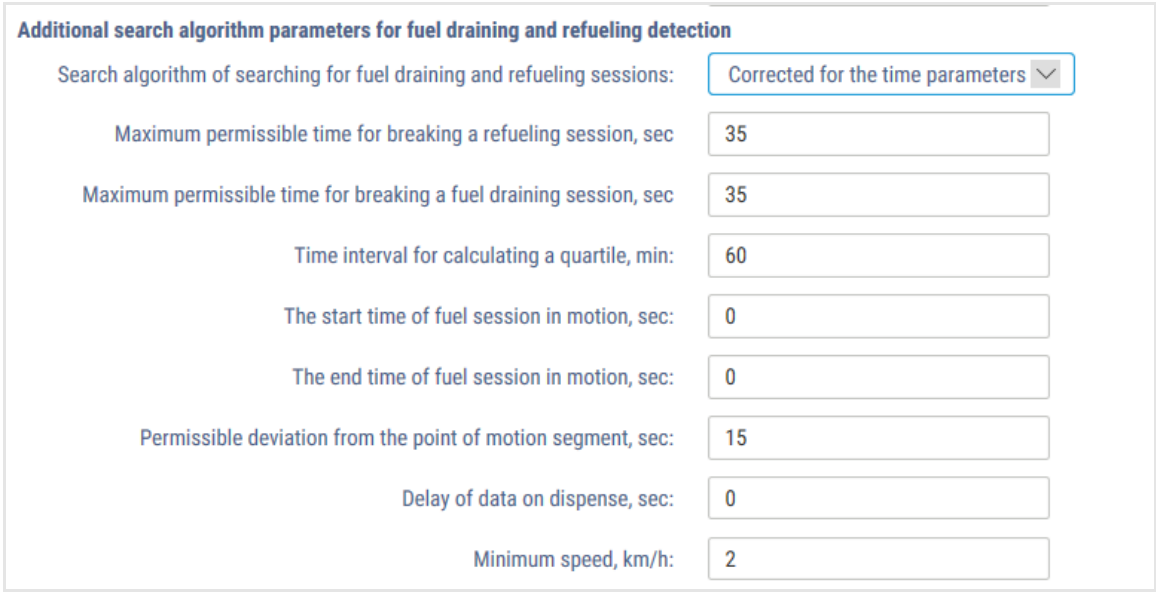
In the **"Filter operations by speed"** section:



"Filtration" – check the box to enable operation filtering at speed.

"Max allowed speed for filtration in motion, km/h"– when this speed limit value is exceeded, draining and refueling events will not be registered. Possible values: from 0 to 500 km/h.

In the **"Additional search algorithm parameters for fuel draining and refueling detection"** section:



For algorithm of searching for fuel draining and refueling sessions **"Corrected for the time parameters"**:

"Maximum permissible time for breaking a refueling session, s"is the time interval in the refueling process, during which the fuel level may not to rise. Default value - 30 s.

"Maximum permissible time for breaking a fuel draining session, s"is the time interval in the draining process during which the fuel level may not to decrease (taking into account the regular fuel consumption).
Default value - 30 s.

When setting the values of the time parameters, take into account the "Data collection period" value and the analysis of specific areas where the draining/refueling events were not defined or interrupted.

The quartile is calculated by the number of fuel level values obtained during the time specified in the parameter **"Time interval for calculating a quartile, min".**

A quartile is the arithmetic mean value of a number of points with raw fuel data from before the start or after the end of a fuel operation with a quarter of the minimum and maximum values removed. It is used to determine the fuel level before and after the refueling/draining operation.

"The end time of fuel session in movement"is chosen depending on the filtration value set in the terminal. Recommended values for filtration levels:

- Disabled – 0
- Weak – 60

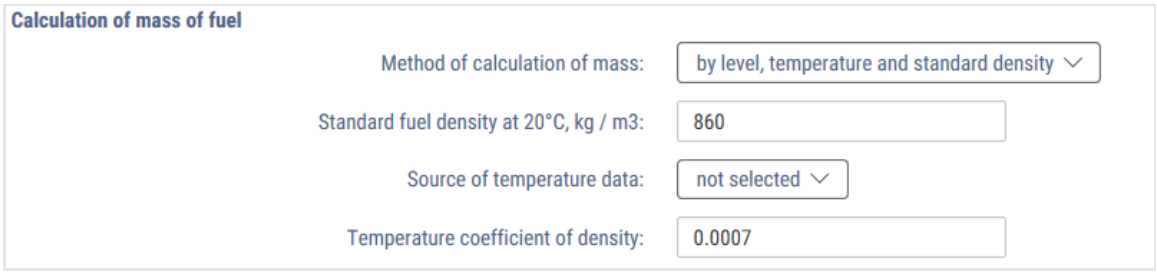
- Medium – 120
- Strong – 200
- Maximum – 300

In the **"Fuel weight calculation"** section:

"Weight calculation method" – select the method for fuel weight calculation. Possible options:

- by level, temperature, and rated density
- by level and actual density

For the method **"by level, temperature, and standard density":**

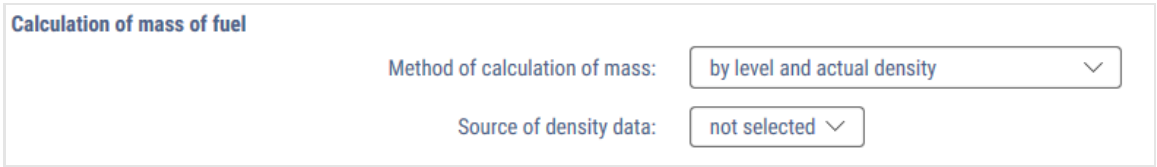


"Standard fuel density at 20°C, kg/m^3" - enter the rated density of the fuel. Default value - 860,0 kg/m^3

"Source of temperature data" – select the universal input to which the temperature sensor is connected.

"Temperature coefficient of density:" - enter the temperature density factor. Default value – 0.7

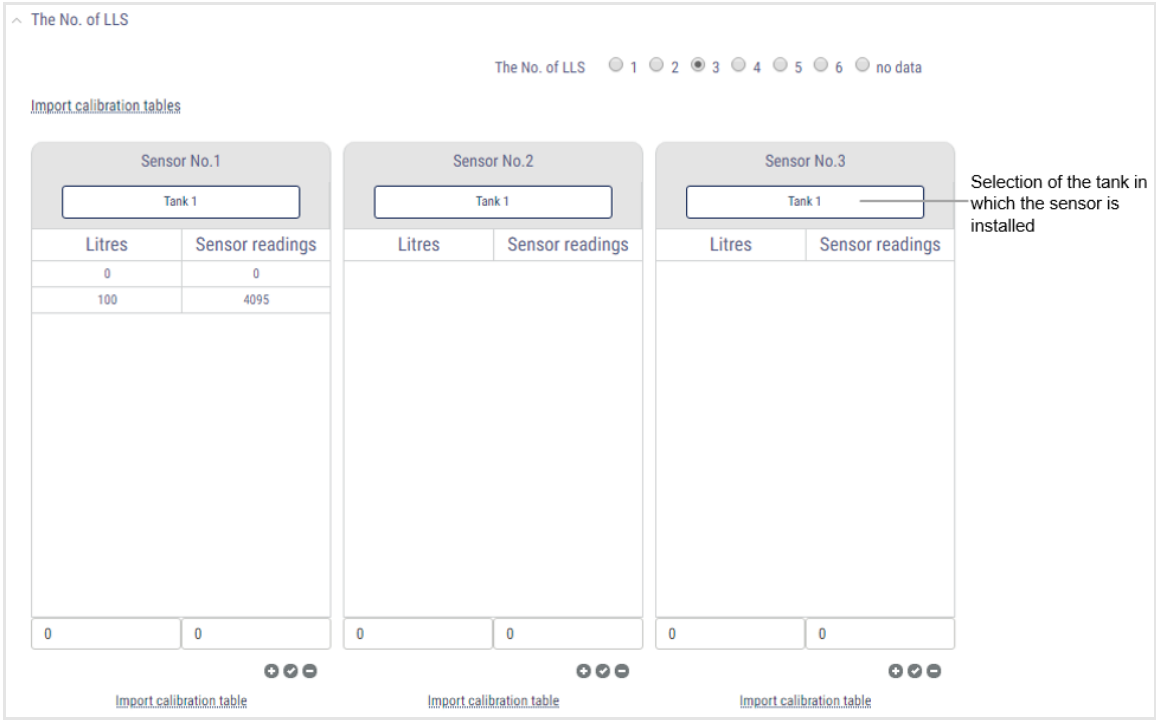
For the method **"by level and actual density":**



"Source of density data" – select the universal input to which the density sensor is connected

In the **"number of sensors"** section:

Managing the list of vehicles



Select the number of fuel level sensors installed on the vehicle.

Select the tank in which the sensor is installed.

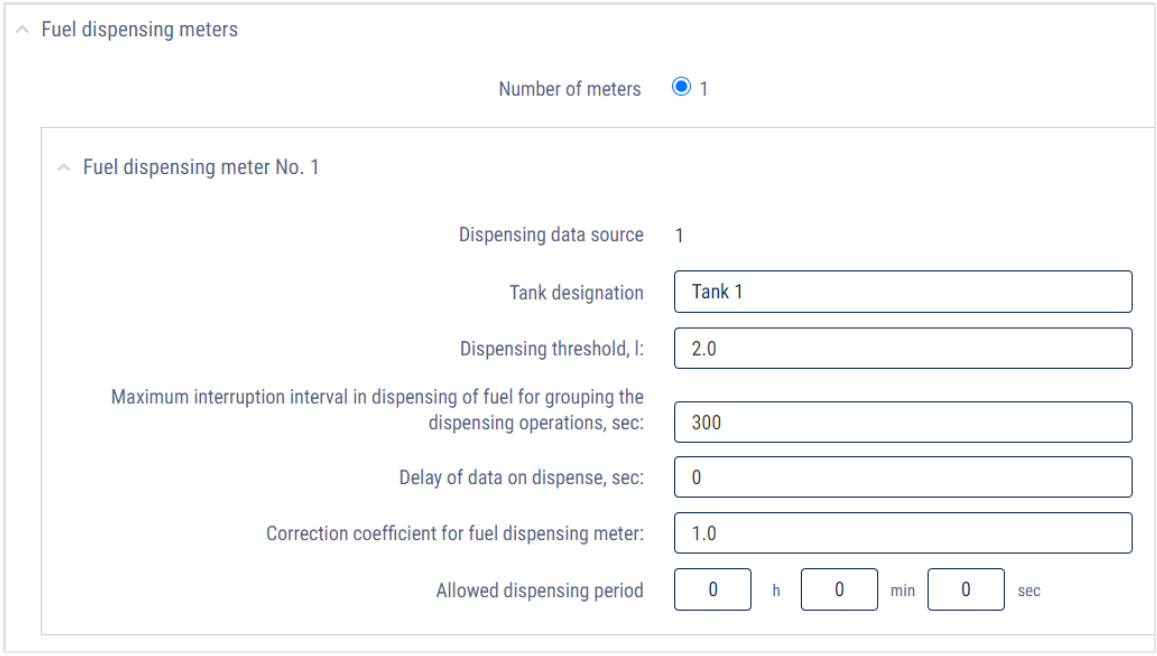
When uploading multiple tables from a file, specify the network addresses of fuel level sensors.

Highlight the row in which you want to change a value. Enter the new values for the given row of the table in the input cells under the table. To enter the values from the row into the table, click .

To add/remove a row of the table, click .

In the **"Fuel dispensing meters"** section:

Managing the list of vehicles



"Tank designation" – select for which tanks this meter is used to track the dispensing operations.

"Dispensing threshold, l" – the level below which the fuel dispensing meter's reading is considered to be equal to 0 (this is necessary to avoid the chatter of the fuel dispensing meter).

"Correction coefficient for the fuel dispensing meter" – the coefficient for correction of the fuel dispensing reading provided by the fuel tanker's terminal. Default value – 1.

"Maximum interruption interval in dispensing of fuel for grouping the dispensing operations, sec" – the maximum period of time between dispensing operations, during which these operations can be collected into one dispensing group. Possible values: from 30 to 300 s. Default value – 120 s.

"Dispensing data delay time, s"– the allowed shift of the dispensing end time.

"Fuel dispensing meter's correction coefficient" – specify the correction coefficient for the dispensing meter.

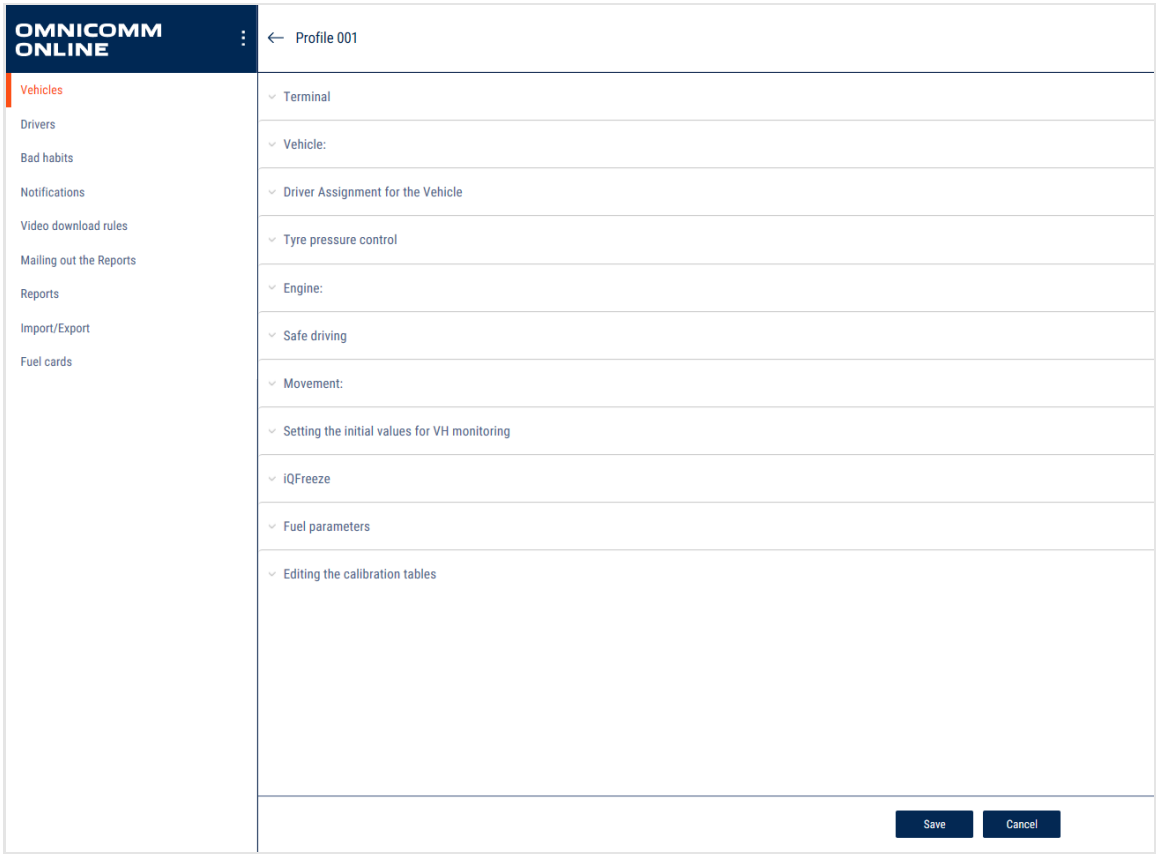
"Allowed dispensing period, s" – specify the period of time after an RFID card tag or an iButton key is applied, during which Omnicomm Online will record a fuel dispensing operation. Possible values: from 1 to 86399.

To save all setting, click **"Save"**.

Profile editing

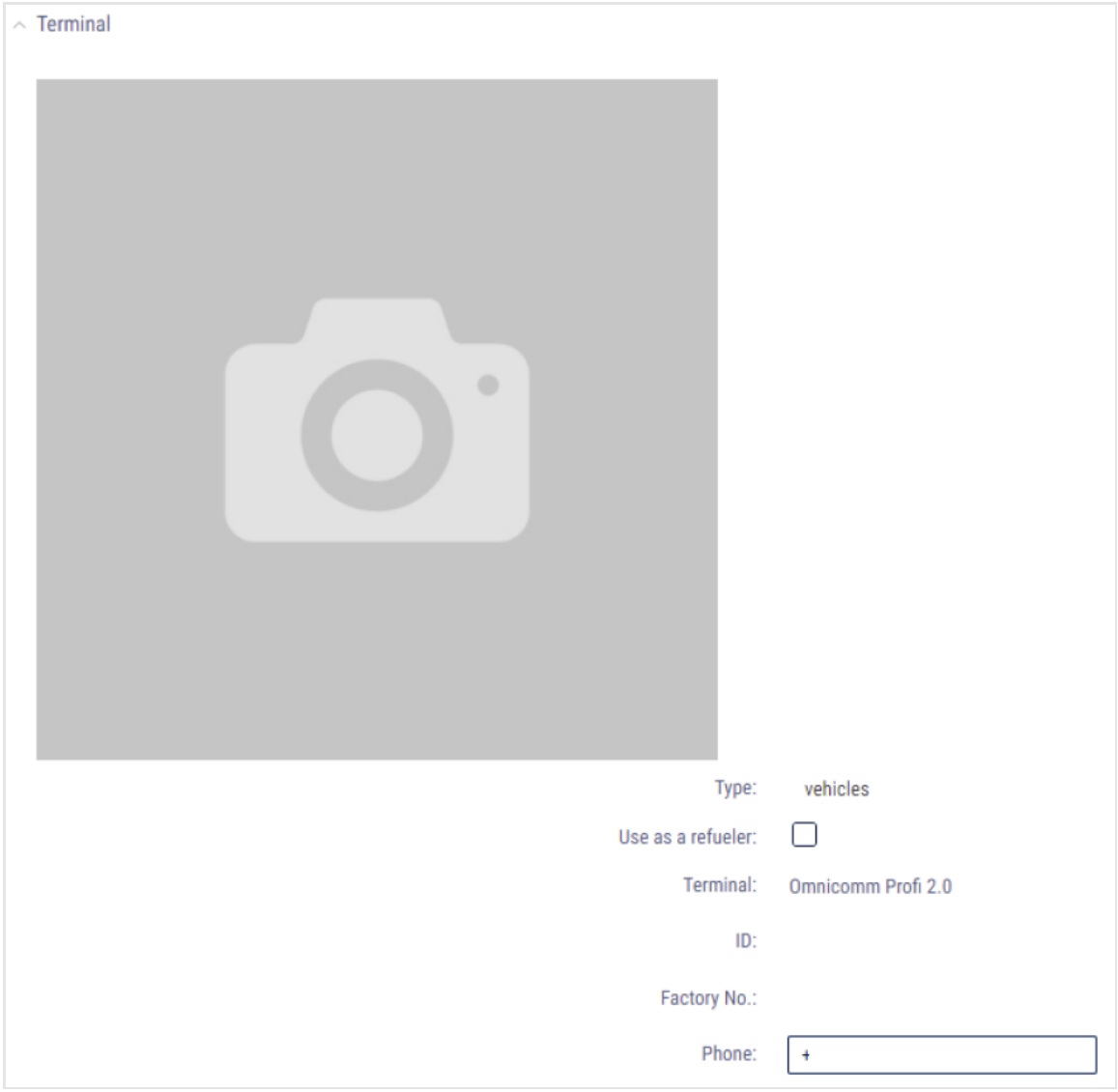
In the program window, select from the list the vehicle profile you would like to edit. Click

“Vehicle profile”. A window will open:



In the **“Terminal”** section:

Managing the list of vehicles



"Type" – the type of vehicle.

"Terminal" – the terminal model.

"Video terminal ID" – enter the ID number of the Omnicomm OKO Light video terminal installed on the vehicle. Click the "Link ID" button. ID linking is used to match video files received from the Omnicomm OKO Light video terminal to telematics data from the terminal installed on the same vehicle. To unlink the terminals, click "Unlink".

"Use as a refueler" (only for the Omnicomm Profi 2.0 terminals) enables/disables the ability to record fuel tanking, draining, and dispensing through a dispensing gun.

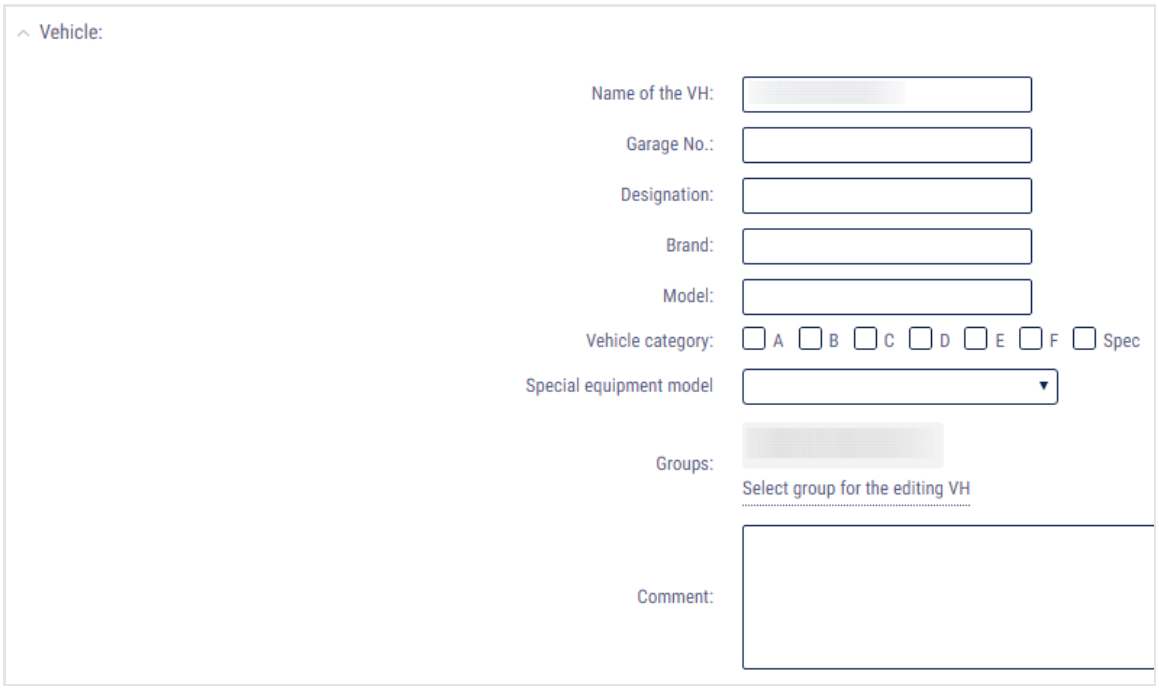
"ID" the identification number of the Terminal installed on the vehicle.

"Factory number" the factory number of the Terminal, which is assigned during the production.

"Phone number" enter the phone number of the SIM card in the Terminal.

Managing the list of vehicles

In the **“Vehicle”** section:



“Vehicle Name” – the state registration number (plates) or the name of the vehicle. Example: 10 RU A 123BV. The vehicle name must be unique in Omnicomm Online. The “Vehicle Name” field must not be empty and must not exceed 100 characters.

“Depot ID” – the internal number of the vehicle within the organization.

“Designation” – the vehicle's designation within the organization.

“Brand” – the vehicle's brand.

“Model” – the vehicle's model.

“Vehicle category” - select the category of the vehicle. Possible options:

- Categories A, B, C, D, E, F, according to the traffic regulations of the Russian Federation
- Category SPEC - specialized machinery

“Special equipment model” - select the model of equipment or vehicle for which you wish to display additional operating parameters in the Log report. Possible options:

- TG series grader - operation parameters apply to these vehicle models only, the connection is performed via CAN J1939
- Excavator WX200, TX200 - operation parameters apply to these vehicle models only, the connection is performed via CAN J1939

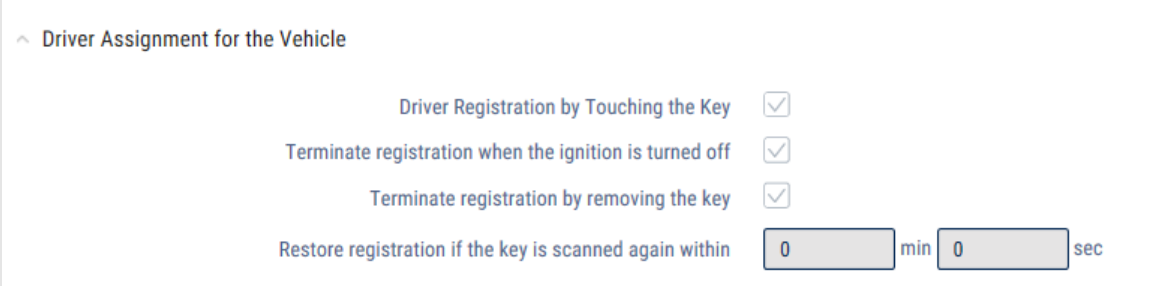
- Tractor PTZ K4, K7 - operation parameters apply to these vehicle models only, the connection is performed via CAN J1939
- Axle load (VOLVO) - parameters apply only to VOLVO trucks with a CAN bus error, which transmit the wheel number instead of the axle number, the connection is performed via CAN J1939
- Axle load (ALM) – the ALM axle load detection system is connected via the RS-232 interface
- Logset Harvester – parameters apply to this vehicle model only, the connection is performed via the CAN bus
- J1939 axle group load - parameters for European trucks/buses, the connection is performed via the CAN bus
- J1939 fuel parameters – parameters for European trucks/buses, the connection is performed via the CAN bus, instantaneous fuel consumption is displayed
- CanExtender – parameters for the CANExtender equipment (UI extender) connected via the CAN bus

To display additional vehicle operation parameters, check the box "Technical parameters operation displaying" in the Log report settings (see Omnicomm Online. User Manual. Log report).

We are constantly expanding the list of special equipment models. If you cannot find the description you are looking for, please contact the Omnicomm technical support team (support@omnicomm-world.com).

"Groups". Click on the **Select group for the vehicle** hyperlink and select from the list the groups to which the vehicle will belong to.

In the **"Driver Assigment for the vehicle"** section:



"Driver registration by touching the key"– y- check the box to sign in a driver when an RFID card or an iButton key is scanned.

The driver is automatically signed out on the vehicle when the current driver signs in on another vehicle or when another driver signs in on this vehicle.

"Terminate registration when the ignition is turned off"– check the box to sign the driver out when the ignition is turned off.

"Terminate registration by removing the key" – check the box to sign the driver out when the iButton key or the RFID card are removed from the holder.

"Restore registration if the key is scanned again within"– specify the time in which the RFID card or the iButton key must be reinserted to automatically resume driver sign in. The field is active only when the "Sign out when the ignition is turned off" or "Sign out when the tag is removed from the holder" parameters are enabled.

In the **"Tire Pressure Monitoring"** section:

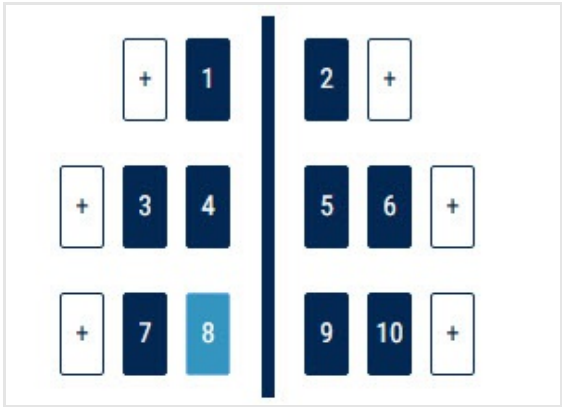
"Generate events from TPMS" – check the box to process data from the tire pressure monitoring system.

"Allowed duration of data absence, minutes"– enter the time after which, in the absence of data, the "No data from the tire pressure monitoring system" event will be recorded. Possible values: from 0 to 1140 min. Default value – 15.

"Number of axles" – select the number of vehicle axles. Possible values: from 1 to 13.

When using the TPMS Conti Pressure Check, axles and wheels must correspond to the TPMS Conti Pressure Check configuration:

Managing the list of vehicles



The wheel position data in TPMS Conti Pressure Check is transmitted in CAN J1939 format. The wheels are numbered from left to right from the first (top) axle, so that the wheel no. 1 is located on the driver's side.

"Normal tire pressure, kPa" – enter the tire pressure value set by the vehicle's manufacturer. Possible values: from 0 to 1000 kPa.

"Permissible tire pressure deviation, kPa" – enter the value of the permissible deviation from the normal tire pressure. If this value is exceeded, the "Drop in tire pressure" event will be recorded.

"Maximum permissible air temperature in the tire, °C" – if this value of air temperature in the tire is exceeded, the "Raise of tire temperature" event will be recorded. Possible values: from -125 to 125 °C. Default value: 60 °C.

To copy the settings for axles, wheels, and permissible values from another vehicle, click the **Copy from another vehicle** link.

In the **"Engine"** section:

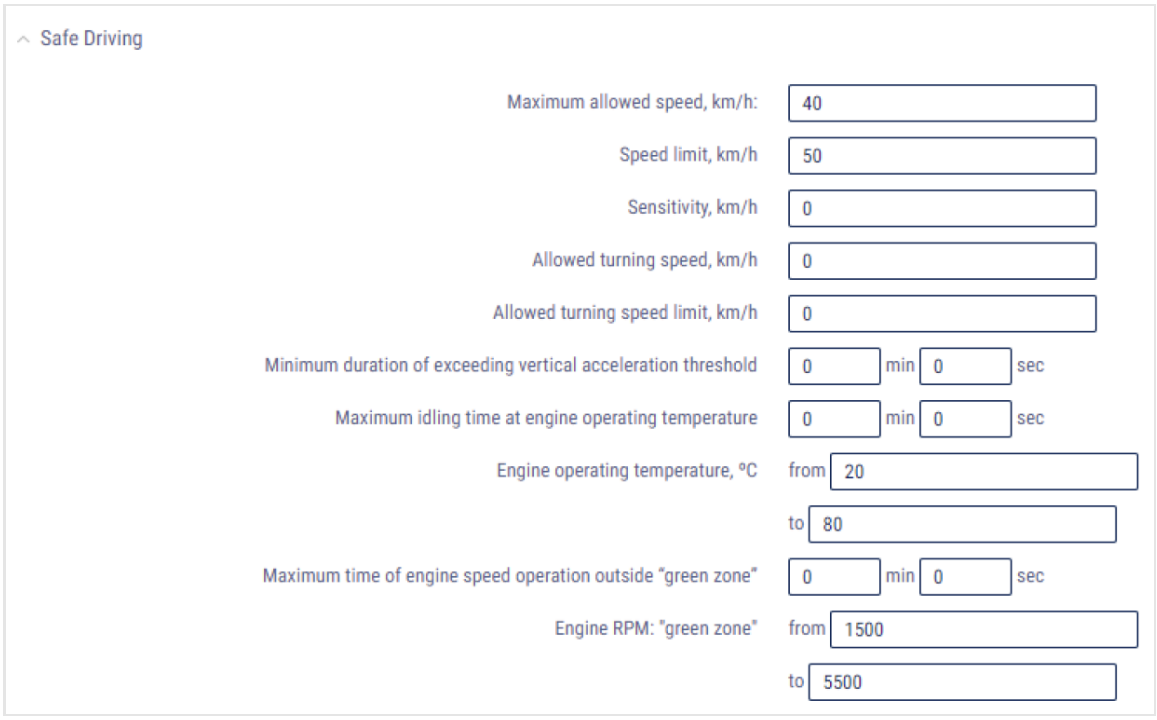
"Correction coefficient for the RPM sensor" – the coefficient of conversion of the number of pulses recorded by the RPM sensor into the number of revolutions.

"Ultimate engine speed value, RPM" – the value of engine revolutions, above which Omnicomm Online will record vehicle operation under maximum (ultimate) load. Default value - 5500 RPM.

"Engine idle speed, RPM:" – is the value of engine revolutions, above which

Omnicomm Online will record the movement of the vehicle. Default value - 1000 RPM.

In the **"Safe driving"** section:



"Maximum allowed speed, km/h"– the value of the vehicle speed, above which Omnicomm will register vehicle movement as exceeding the maximum allowed speed. Possible values: from 0 to 300 km/h. Default value - 0 km/h (no violations will be recorded).

"Speed limit, km/h" – the value of the vehicle speed, above which Omnicomm will register vehicle movement as exceeding the speed limit. Possible values: from 0 to 300 km/h. Default value - 120 km/h.

The value of the "Speed limit, km/h" parameter must be greater than the value of "Maximum allowed speed, km/h"

"Sensitivity, km/h" – enter the permissible amount of speed value variation. If the maximum allowed speed or the speed limit are exceeded by a value lesser than this, no violation will be recorded. Possible values: from 0 to 99 km/h. Default value - 2 km/h.

"Allowed turning speed, km/h"– the value of vehicle speed while turning. If this value is exceeded, Omnicomm will record vehicle movement with an exceeded turning speed. Possible values: from 0 to 300 km/h. Default value - 30 km/h.

"Allowed turning speed limit, km/h"– the value of the vehicle speed, above which Omnicomm will register vehicle movement as exceeding the speed limit while turning. Possible values: from 0 to 300 km/h. Default value - 50 km/h.

“Minimum duration of exceeding the vertical acceleration threshold”– when the vertical acceleration threshold is exceeded for longer than indicated, the corresponding event will be recorded. Possible values: from 0 to 60039 sec. Default value - 0 (no violations will be recorded).

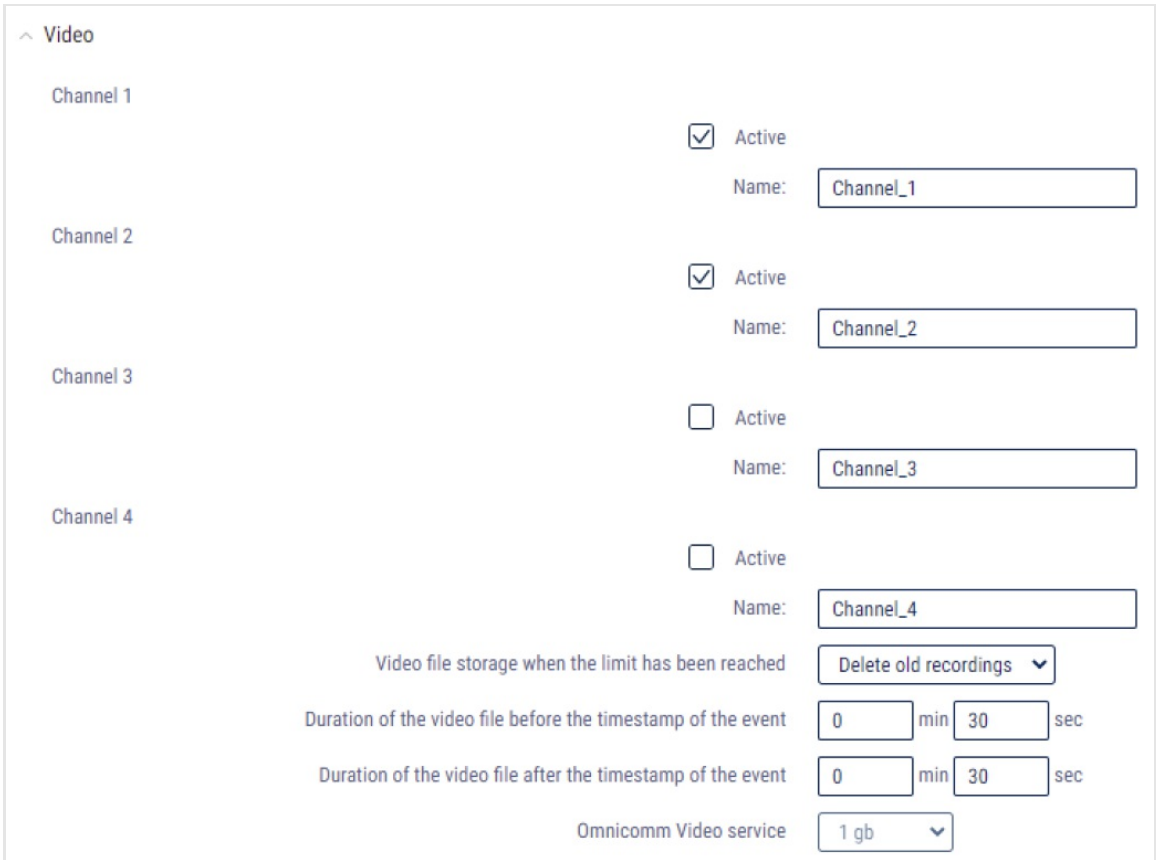
“Maximum idling time at engine operating temperature”– enter the amount of time after which, during idle engine run at operating temperature, the corresponding event will be recorded. Possible values: from 0 to 60039 sec. Default value - 0 (no violations will be recorded).

“Engine operating temperature” – specify the range of temperature in which the engine can operate regularly. Possible values: from 0 to 300 °C. Default value: 80 and 100 °C. The operating temperature value is recorded based on the data received from the CAN bus.

“Engine RPM: “green zone” – specify the range of revolutions for engine regular operation. Possible values: from 0 to 10,000 RPM. Default values: 1000 and 4000 RPM.

“Maximum time of engine speed operation outside “green zone” of engine revolutions” – enter the time after which, during engine operation outside of the “green area”, the corresponding event will be recorded. Possible values: from 0 to 60039 sec. Default value - 0 (no violations will be recorded).

In the **“Video”** section:



Specify, for each channel:

"Active" - enable/disable the processing of video from the camera

"Name" - enter the name that will be superimposed on the video to identify the camera.

"Storage usage mode for video files when the limit is reached". Possible options:

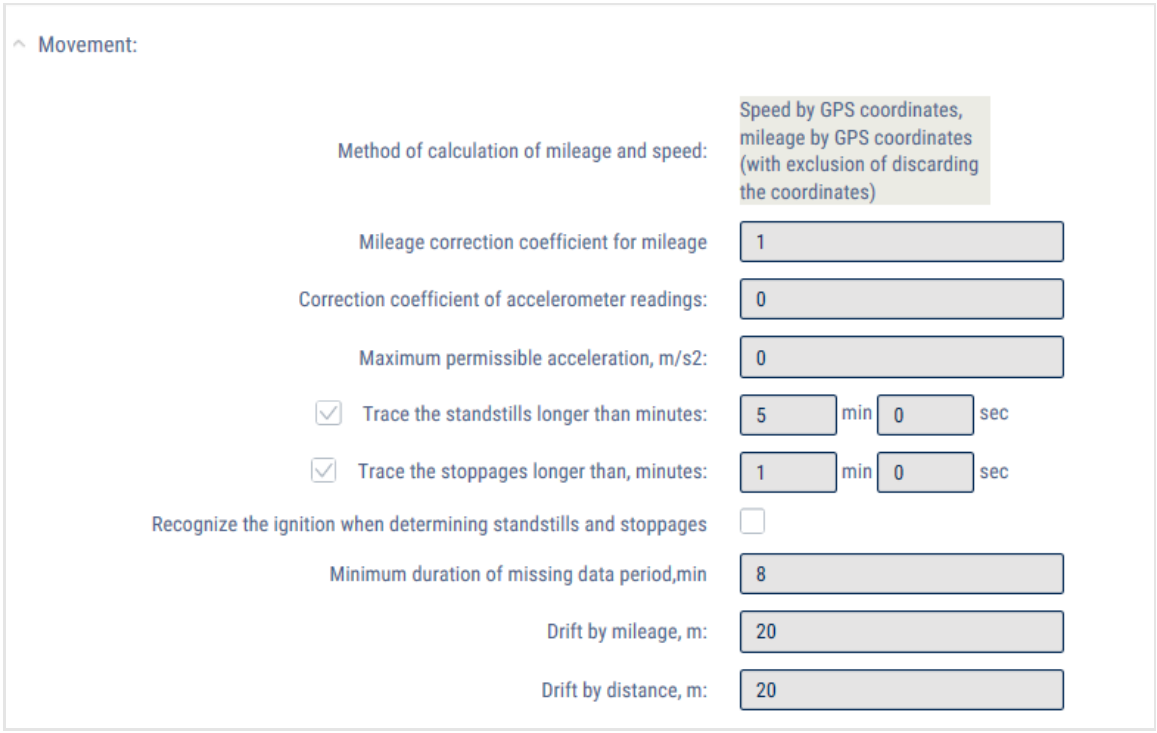
- Delete old recordings - when the storage is full, old recordings will be deleted
- Stop recording - when the storage is full, the recording will stop

"Length of the video file before the event timestamp"– specify the length of the video before the event is recorded.

"Length of the video file after the event timestamp"– specify the length of the video after the event is recorded.

"Omnicomm Video service" - select the size of disk space reserved for videos or disable the Omnicomm Video service. Possible options: 1, 5 Gb.

In the **"Movement"** section::



"Method of calculation of mileage and speed" allows you to choose based on what data and using which method are the mileage and speed calculated. Possible options:

- "By data from the Terminal (with exclusion of discarding the coordinates))" - Omnicomm Online calculates the mileage according to the data obtained from the Terminals by discarding the drift coordinates.
- "By data from the Terminal (without exclusion of discarding the coordinates)" - Omnicomm Online calculates the mileage according to the data obtained from the Terminals without excluding drift coordinates.
- "Speed by GPS coordinates, mileage by GPS coordinates (with exclusion of discarding the coordinates))" - Omnicomm Online calculates mileage based on the GPS coordinates, discarding the non-valid GPS coordinates or those defined by less than 4 satellites.
- "Speed by GPS coordinates, mileage by GPS coordinates (without exclusion of discarding the coordinates))" - Omnicomm Online calculates mileage based on the GPS coordinates without discarding non-valid GPS coordinates or those defined by less than 4 satellites.
- "By data from the speed sensor" - Omnicomm Online calculates the mileage based on the standard vehicle speed sensor taking into account the correction factor (only for cars).

For a standard speed sensor, select **"Correction coefficient for the Speed Sensor"**, which provides for the correction of the speed sensor readings.

"Exclude points with the ignition off from the track"- check the box to build the "Track" report without taking into account the vehicle data when the ignition is off. When the option "Exclude points with the ignition off from the track" is enabled, the points in which the ignition is off are also excluded from the mileage and speed calculation. The points can be excluded only used when the selected "Method of calculating mileage and speed" is: "Speed by GPS coordinates, mileage by GPS coordinates (with exclusion of discarding the coordinates))".

"Maximum permissible acceleration", m/s^2 - enter the value of the maximum permissible vehicle acceleration (lateral, speeding up, breaking); if this value is exceeded, a sudden change in the movement of the vehicle is recorded.

"Track standstills longer than, min:sec" – check the box and specify the number of minutes after which, if the appropriate conditions are met, the vehicle will register as parked. The conditions for recording standstills or stoppages depend on the parameter "Consider ignition when determining parking and stoppages".

"Track stoppages longer than, min:sec" – check the box and specify the time in minutes after which, when the relevant conditions are met, a vehicle stoppage will be recorded.

"Take into account the ignition when determining standstills and stoppages"– check the box, when it is necessary to record standstills and stoppages taking into account the ignition status. The choice is available only when the parameters "Track standstills longer than, minutes" or "Track stoppages longer than, minutes" are enabled.

The conditions for recording a standstills/stoppages, taking the vehicle's ignition into account:

- more time has passed since the ignition was turned off than indicated in "Track standstills longer than, minutes"
- vehicle speed is less than 2 km/h

The conditions for recording a standstills/stoppages, without taking the vehicle's ignition into account:

- the vehicle speed is less than 2 km/h for all consecutive events with "raw" data
- the distance between any events with "raw" data is less than 800 m
- the time interval between the first and the last event with "raw" data is greater than the value of the parameter "Track standstills longer than, minutes"
- the time interval between the first and the last event with raw data does not include periods with data absence

"Minimum duration of missing data period, minutes" – the maximum time between the current and the last event with valid "raw" data, after which Omnicomm will record the event of data "absence".

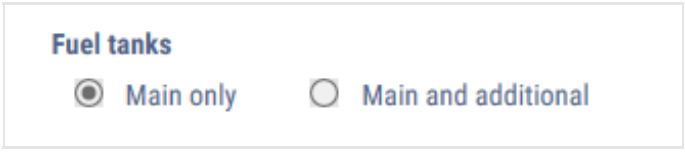
"Drift by mileage and by distance" – specifies the number of cut off drift coordinates when the vehicle is parked, with the GPS module in operation. When a vehicle is moving at a speed of more than 5 km/h, drift coordinates are not cut off.

The values **"Drift by mileage, m"** (from 0 to 100 m) and **"Drift by distance, m"** (from 0 to 100 m) are selected taking into account the average speed of the vehicle. The default value for both parameters is 20 m.

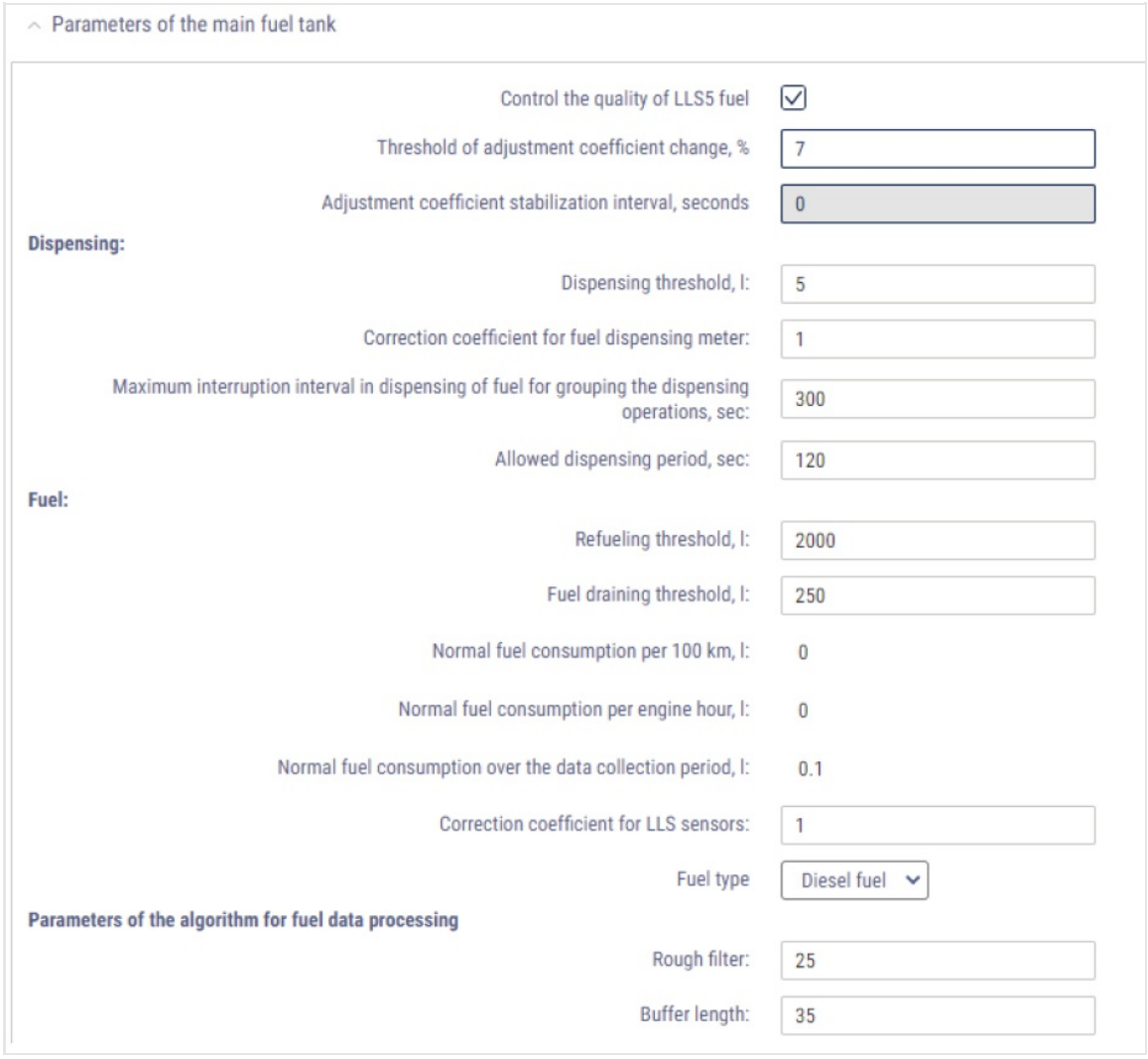
In the **"Fuel parameters"** section:

"Fuel tanks" – select the number of fuel tanks installed on the vehicle:

- main tank only - the vehicle has only one fuel tank
- main and additional tanks - the vehicle has two fuel tanks. For fuel tankers, the main tank is the cistern (product tank) and the additional tank is the engine fuel tank. For a vehicle, the main tank is the engine fuel tank and the additional tank is the fuel tank for additional equipment.



The units of measurement for fuel parameters are liters or gallons, depending on the server settings.



<u>"LLS5"</u>:

To see the parameter «Control the quality of LLS5 fuel» you need to ask Ommnicom Technical Support department (support@omnicomm-world.com).

"Control the quality of LLS5 fuel" - check the box to monitor fuel quality using the LLS 5

fuel level sensors.

"Threshold of adjustment coefficient change, %" - specify the permissible variation value of automatic adjustment coefficient variation. When this value is exceeded, the event ""Adjustment coefficient limit exceeds" will be recorded. Default value - 7. Possible values: 0 to 100.

"Adjustment coefficient stabilization interval, seconds" - 0 (fixed).

Dispensing:"(for refuelers)":

"Dispensing threshold, l" – the level below which the fuel dispensing meter's reading is considered to be equal to 0 (this is necessary to avoid the chatter of the fuel dispensing meter).

"Correction coefficient for the fuel dispensing meter" – the coefficient for correction of the fuel dispensing reading provided by the fuel tanker's terminal. Default value – 1.

"Maximum interruption interval in dispensing of fuel for grouping the dispensing operations, sec:" – he maximum time interval between dispenses at which these dispenses can be combined into one dispensing group. Possible values: from 30 to 300 sec. Default value - 120 sec.

"Allowed dispensing period, s" – specify the period of time after an RFID card tag or an iButton key is applied, during which Omnicomm Online will record a fuel dispensing operation. Possible values: from 1 to 86399.

"Fuel:"

"Main fuel tank parameters" for a car and for the additional tank of the fuel tanker:

"Refueling threshold, l" (from 0 to 28000) - the amount of fuel to which the total amount of the vehicle's fuel must be increased during the designated period of time, in order for the refueling to be registered.

"Draining threshold, l" (from 0 to 28000) - the amount of fuel by which the total amount of the vehicle's fuel must be reduced during the designated period of time, in order for fuel draining to be registered.

"Rough filter:"

The thresholds for refueling/draining and the size of the rough filter are selected based

on the volume of the tank, the amount of the detected refueling/draining and the operation conditions of the vehicle.

In cases when the operating conditions and the vehicle characteristics cause significant fluctuations in the fuel level, it is recommended to increase the refueling/draining thresholds and the rough filter value.

In cases when the operating conditions and the vehicle characteristics cause little fluctuation in the fuel level, it is possible to decrease the refueling/draining thresholds and the rough filter value.

Default value of the refueling threshold - 7% of the tank volume.

Default value of the draining threshold - 7% of the tank volume.

Rough filter size (5 -50), default value - 15.

"Normal consumption per 100 km, l" (from 0 to 1000 with an accuracy of 0.1 l) is the volume of fuel consumed by the vehicle per 100 km (only for vehicles).

"Normal mileage for 1 l, km" is the vehicle mileage for 1 liter of fuel. The parameter is specified depending on the selected standard.

"Normal consumption per engine hour, l" (from 0 to 1000 with an accuracy of 0.1 l) is the volume of fuel consumed by the vehicle during one engine operation hour (only for vehicles).

"Normal consumption over a data collection period, l"(from 0 to 1000 with an accuracy of 0.1 l) is the volume of fuel consumed by the vehicle over one data collection period (only for vehicles).

"Correction coefficient for fuel sensors" (from 0.01 to 1.99) is used to adjust the Omnicomm LLS fuel level sensor readings.

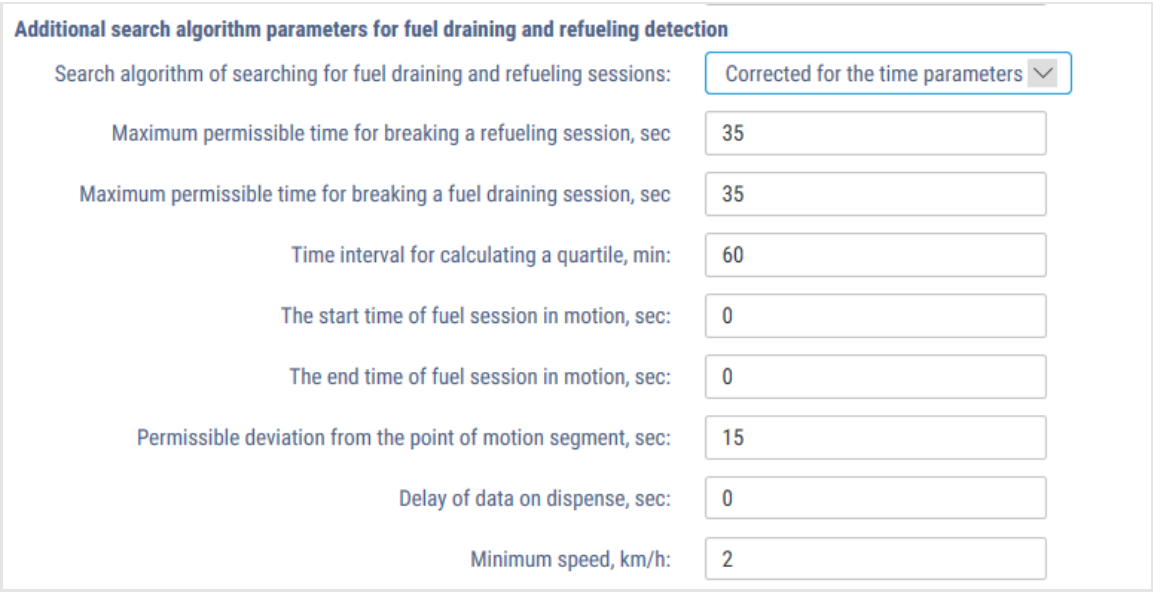
"Fuel type" – select the fuel type for the calculation of CO_2 emissions. Possible options: gasoline, diesel, and not selected.

"Buffer length" provides a more uniform sequence of the average fuel level after processing in Omnicomm Online (10 - 100). It provides a smoothing of the graph of the fuel volume built according to the data processed in Omnicomm Online (the blue graph). Default value – 70. By reducing the length of the buffer, the fuel volume graph constructed using the processed data (blue graph) becomes more approximate to the graph of the fuel volume constructed from the raw data (pink graph).

"Additional fuel tank parameters" - for a vehicle and for the additional tank of the fuel tanker. Parameters for additional fuel tanks are configured in the same way as the parameters of the main fuel tanks.

In the **"Additional search algorithm parameters for fuel draining and refueling**

detection" section:



For algorithm of searching for fuel draining and refueling sessions **"Corrected for the time parameters"**:

"Maximum permissible time for breaking a refueling session, s"is the time interval in the refueling process, during which the fuel level does not have to rise. Default value - 30 s.

"Maximum permissible time for breaking a fuel draining session, s"is the time interval in the draining process during which the fuel level does not have to lower (taking into account the regular fuel consumption).
Default value - 30 s.

When setting the values of the time parameters, take into account the "Data collection period" value and the analysis of specific areas where the draining/refueling events were not defined or interrupted.

A quartile is the arithmetic mean value of a number of points with raw fuel data from before the start or after the end of a fuel operation with a quarter of the minimum and maximum values removed. It is used to determine the fuel level before and after the refueling/draining operation.

The quartile is calculated by the number of fuel level values obtained during the time specified in the parameter **"Time interval for calculating a quartile, min".**

"The end time of fuel session in movement"is chosen depending on the filtration value set in the terminal. Recommended values for filtration levels:

- Disabled – 0

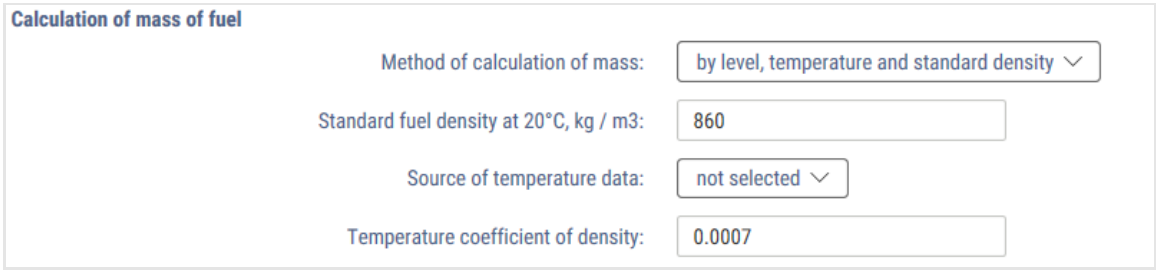
- Weak – 60
- Medium – 120
- Strong – 200
- Maximum – 300

In the **"Fuel weight calculation"** section:

"Weight calculation method" – select the method for fuel weight calculation. Possible options:

- by level, temperature, and rated density
- by level and actual density

For the method **"by level, temperature, and rated density":**

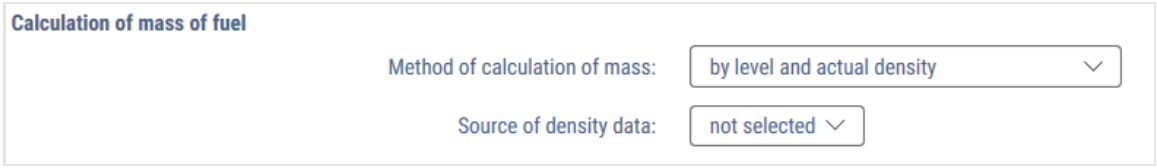


"Fuel rated density at 20°C, kg/m^3" - enter the rated density of the fuel. Default value - 860, kg/m^3

"Temperature data source" – select the universal input to which the temperature sensor is connected.

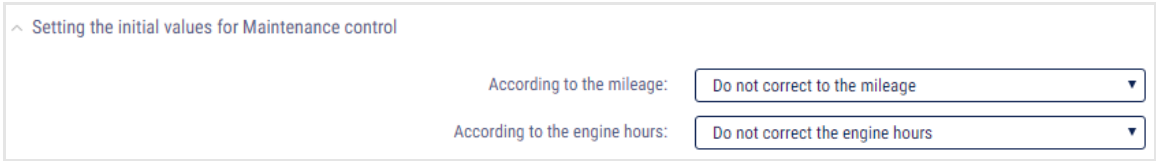
"Temperature density factor" - enter the temperature density factor. Default value – 0.7

For the method **"by level and actual density":**



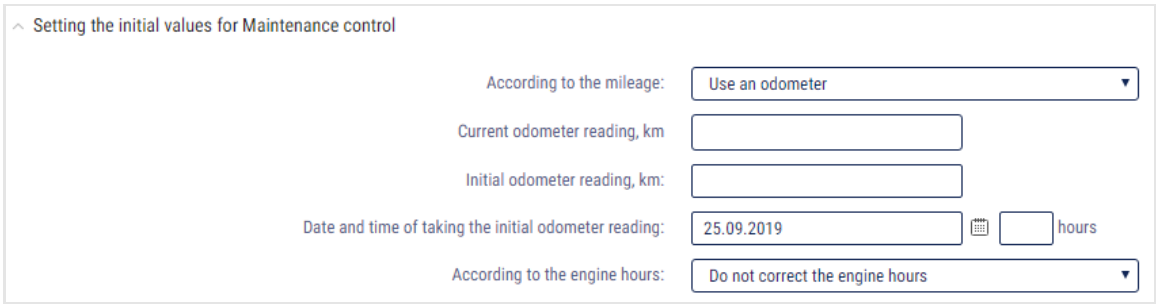
"Density data source" – select the universal input to which the density sensor is connected

In the **"Setting initial values for maintenance control"** section:



"Correct to the mileage" – allows you to select the data source for tracking vehicle's mileage during maintenance controls. Possible options:

- **"Do not correct to the mileage"** – mileage calculation to check the maintenance outcome will not be performed
- **"Use an odometer"** – the calculation is made according to the odometer set in the vehicle profile in the parameter "Mileage and speed calculation method". Possible options: from the terminal (with drift), from the terminal (without drift), speed according to GPS, mileage according to GPS coordinates, from the speed sensor.

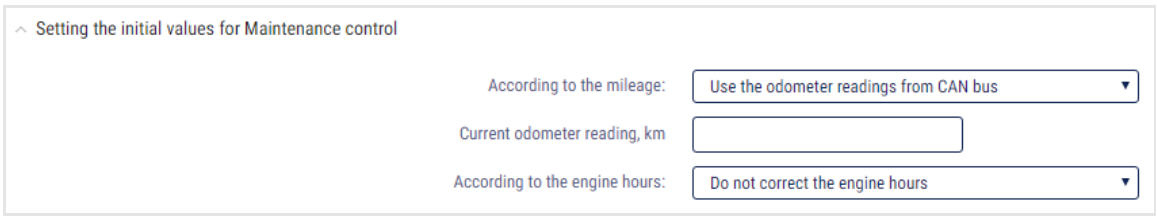


"Initial odometer reading, km" – enter the mileage reading from the odometer.

"Date and time of the initial odometer reading" – enter the date and time when the odometer reading was taken.

"Current odometer reading, km" – displays the mileage value calculated by Omnicomm when using an odometer. To display the current odometer reading during the first installation or adjustment, save the changes in the vehicle profile and then reopen it.

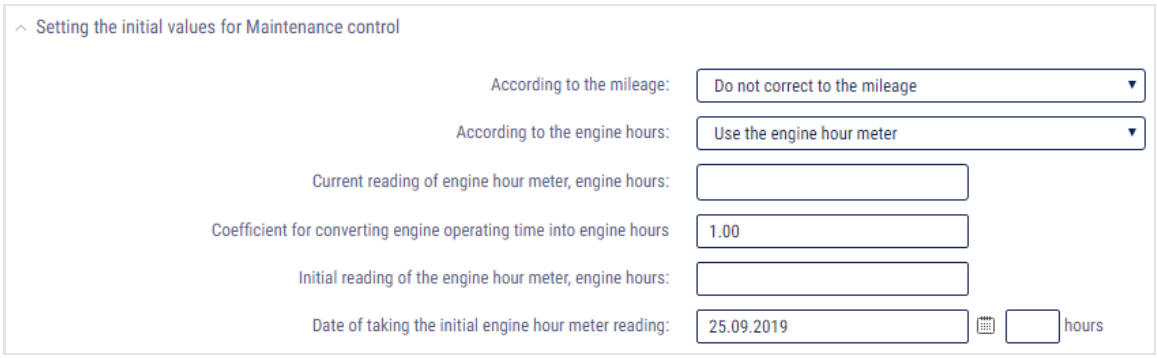
- **"Use CAN bus odometer reading"** – the mileage to check the maintenance outcome will be calculated based on the values obtained from the CAN bus.



"The current odometer reading, km" displays the last mileage reading sent by the terminal based on the odometer readings of the CAN bus.

"Correct to the engine hours" allows you to select the data source for tracking vehicle's engine hours during maintenance controls. Possible options:

- **“Do not correct to the engine hours”**- engine hours calculation to check the maintenance outcome will not be performed
- **“Use engine hour meter”**- the hourly calculation will be made based on the readings of the vehicle engine hour meter and on engine operating time.

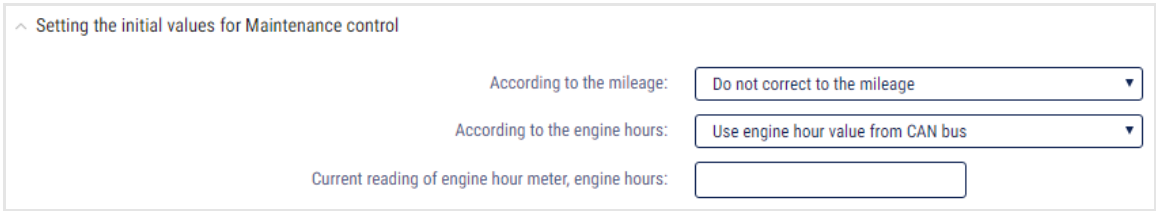


“Conversion coefficient of engine operation time to engine hours” - specify the conversion coefficient of the engine operation time to engine hours, indicated in the vehicle documentation.

“Initial meter reading, engine hours” - the reading of the engine hour meter.

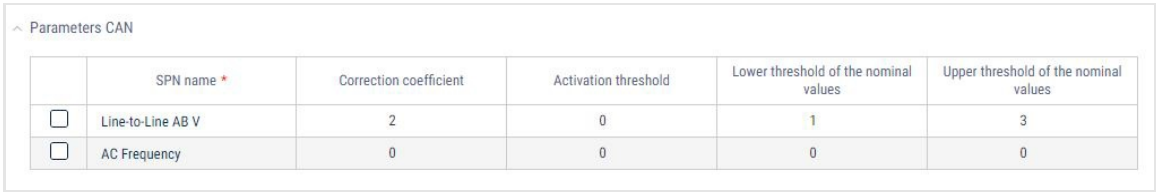
“Date and time of the initial engine hour meter reading” - enter the date and time when the engine hour meter reading was taken.

- **“Use CAN bus engine hours reading”**– the engine hours used to check the maintenance outcome will be calculated based on the values obtained from the CAN bus.



“The current value of the engine hour meter, engine hours” - the number of engine hours from the CAN bus.

In the **«CAN parameters»** section:



Add the required CAN parameters and specify the following values:

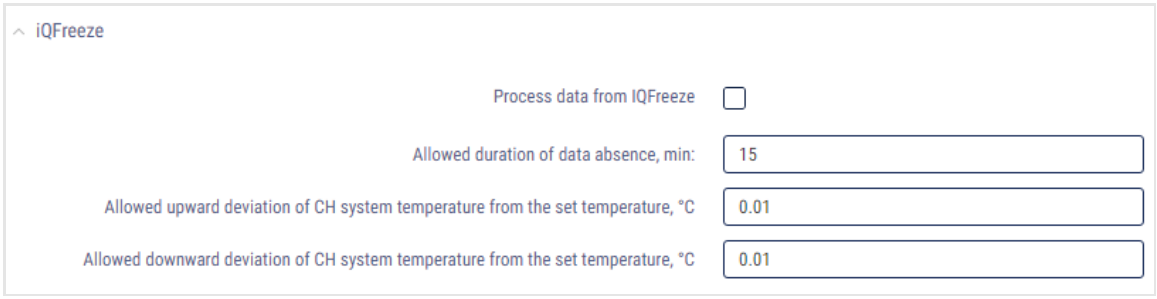
“Correction coefficient” – enter the value of the correction coefficient.

“Activation threshold” – Omnicomm will register activation when this value of the measured parameter is reached.

“Lower threshold of nominal values”– Omnicomm will register operation at nominal values when this value of the measured parameter is reached.

“Upper threshold of nominal values” – Omnicomm will register operation exceeding the nominal value when this value of the measured parameter is reached.

In the **«iQFreeze»** section:



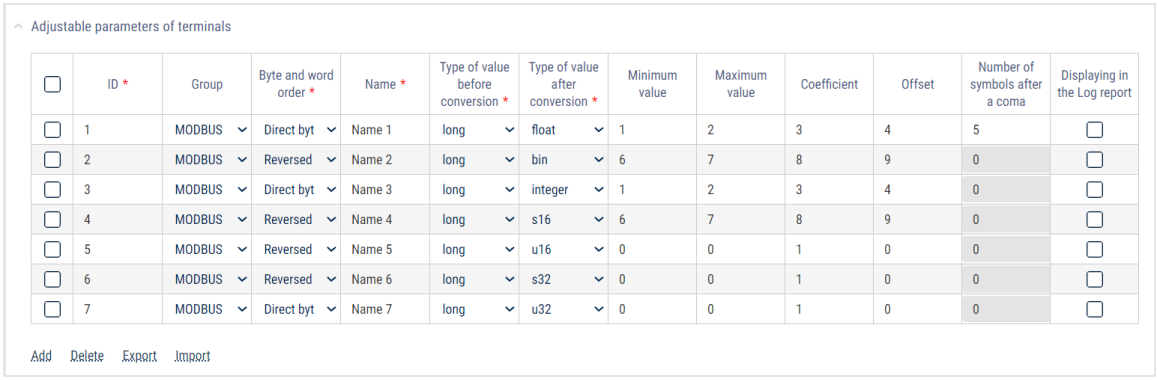
“Process data from IQFreeze” – check the box to monitor data from IQFreeze.

“Allowed duration of data absence, minutes”. Possible values: from 0 to 1440 min. Default value – 15 min.

“Permissible increase of the CHU temperature from the set value”. Possible values: from 0.00 to 100.00 °C

“Permissible decrease of the CHU temperature from the set value”. Possible values: from 0.00 to 100.00 °C

In the **«Terminal adjustable parameters»** section:

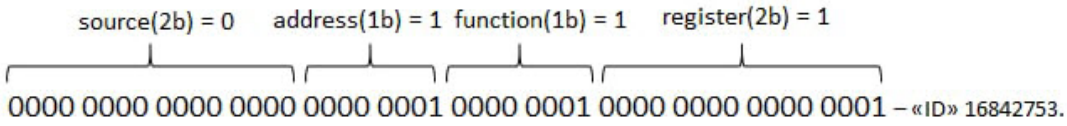


Click the Add link to add the Modbus parameters and specify the values for the following parameters:

“ID” - identification number of parameterr, which created by next rule: source(2b)+address(1b)+function(1b)+register(2b) and convert to decimal:

- source(2b) - data source. Value for Modbus: 0.
- address(1b) - slave address. Possible values: 1 to 247.
- function(1b) - function value. Possible values: 01 – Read coils, 02 – Read discrete inputs, 03 – Read holding registers, 04 – Read input registers.
- register(2b) - register value. Possible values: 0 to 65535.

For example, 0000 0000 0000 0000 0000 0001 0000 0001 0000 0000 0000 0001 - "ID" 16842753:



"Group" – select the parameter group. Possible values: Modbus.

"Byte and word order" – choose the order of words and bytes. Possible values: direct order of words and bytes, reverse order of words and bytes, reverse order of bytes, reverse order of words. Default value – direct order of words and bytes.

"Name" – enter the name of the parameter.

"Type of value before conversion"– select the parameter value type before conversion in Omnicomm Online. Possible values: long.

"Type of value after conversion" – select the parameter value type after conversion in Omnicomm Online. Possible values: integer, float, bin, double, S16, U16, S32, U32, U64.

"Minimum value" – specify the minimum value of parameter.

"Maximum value" – specify the maximum value of parameter.

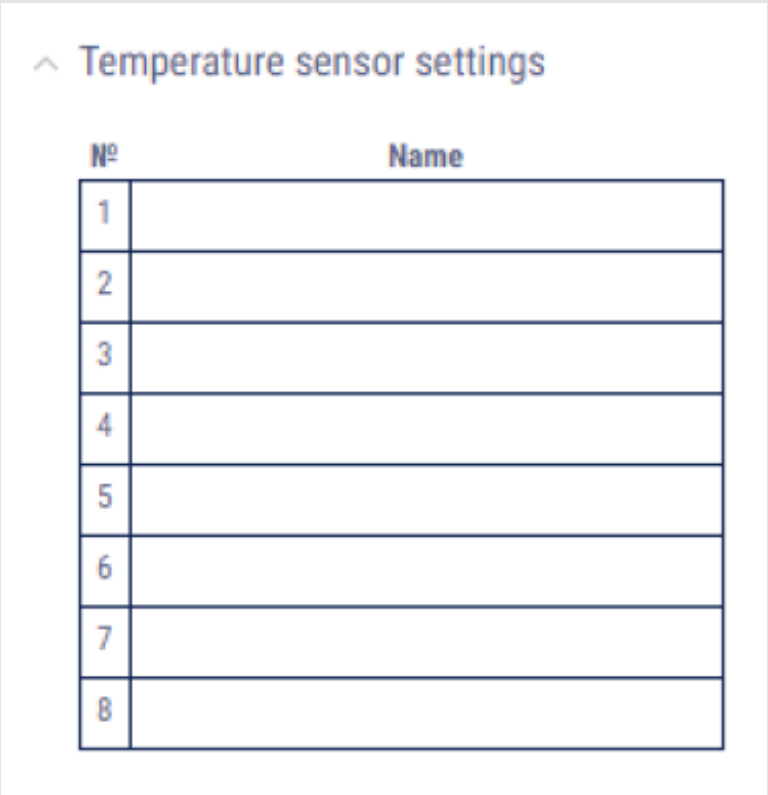
"Coefficient" – specify the adjustment factor.

"Offset" – specify the offset value for this parameter.

"Number of symbols after a comma"(for value types after conversion: double, float) – specify the accuracy for an added parameter.

"Displaying in the Log report" – check the box to display the parameter in the Log report.

In the **"Temperature sensor settings"** section:



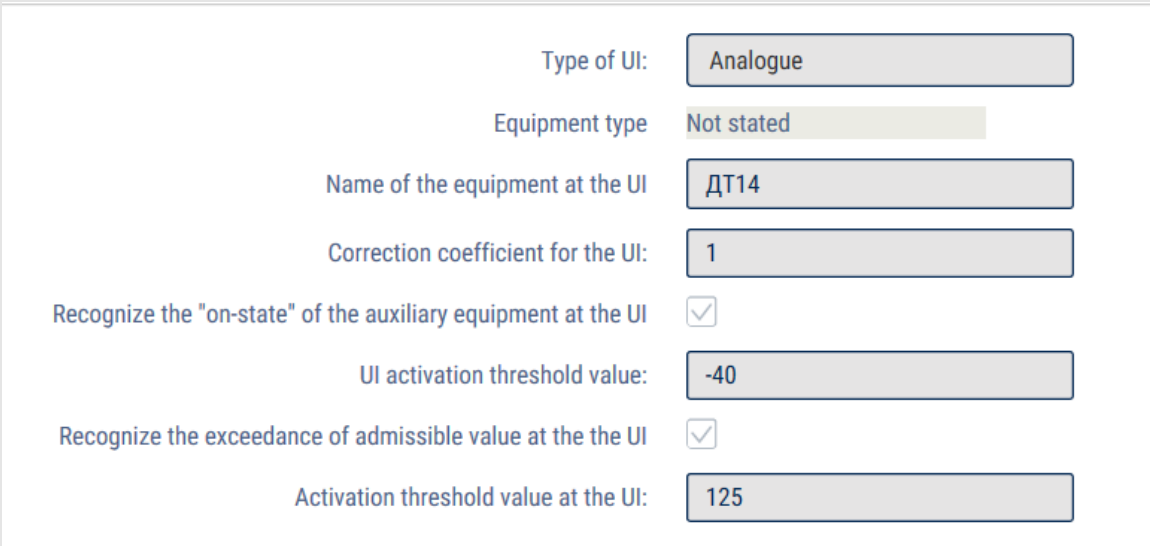
"No." – ordinal number of sensor.

"Name" – name of temperature sensor. For example, cabin. Maximum number of symbols – 16.

In the **"Universal input settings"** section:

Analog universal input

"Type of universal input" displays **"analog"** as the type of input set during terminal configuration.



“Equipment name at universal input”– enter the name of the sensor or the name of the measured value.

“Universal Input Correction Coefficient”.
Default value – 1.

“Recognize the “on-state” of the auxiliary equipment at the universal input”– record the power-on status of auxiliary equipment at the universal input.

“Activation threshold value of the universal input”– for analog sensors it is recommended to set a value outside the measuring range of the sensor, which will help to avoid recognizing unnecessary sensor-off events. When “Recognize the “on-state” of the auxiliary equipment at the universal input” is turned off, the “Activation threshold value at the universal input” field is not editable.

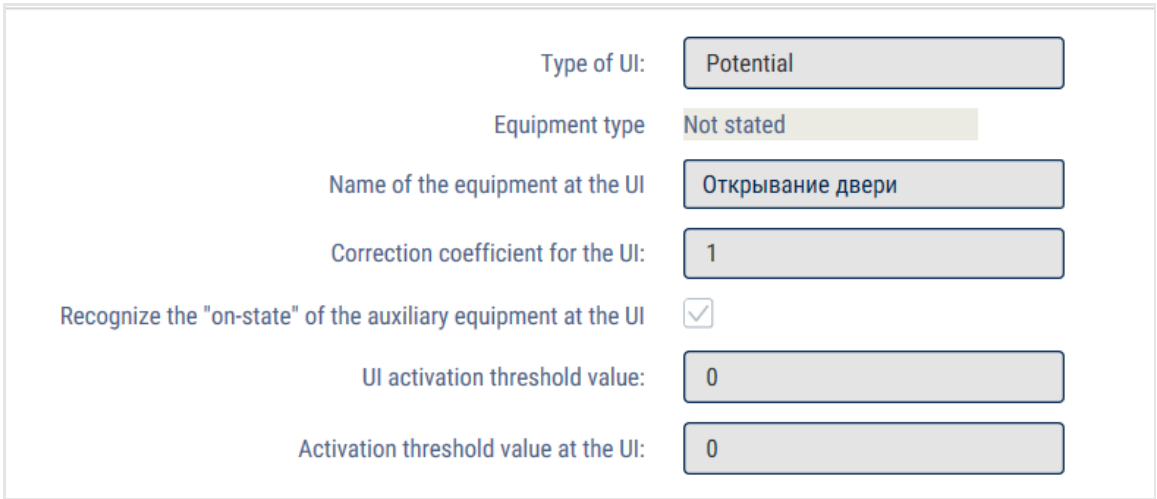
“Recognize the excess of the permissible value at the universal input”– record an excess of the permissible value at the universal input.

“Threshold of the maximum permissible value at the universal input”– enter the measurement value, above which Omnicomm will record work in excess of the permissible value. When “Recognize the excess of the permissible value at the universal input” is disabled, the “Maximum permissible value threshold at the universal input” field is not available for editing.

To save all setting, click **“Save”.**

Potential universal input

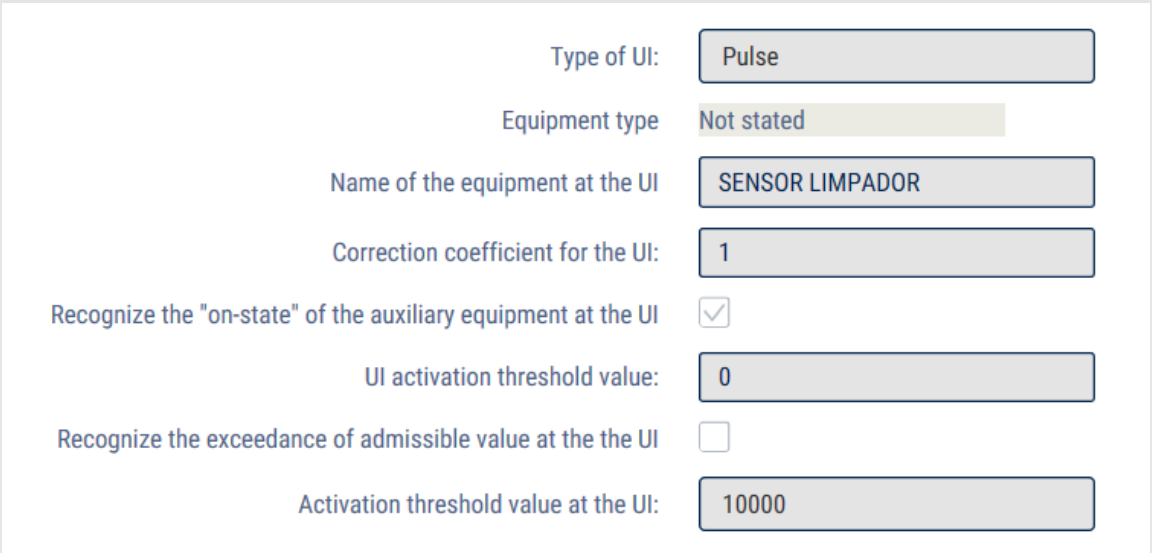
“Type of universal input” – displays “potential” as the type of input set during Terminal configuration.



“Equipment name at universal input”– enter the name of the sensor or the name of the measured value.

Pulse universal input

“Type of universal input” displays **“pulse”** as the type of input set during Terminal configuration.



“Equipment name at universal input”– enter the name of the sensor or the name of the measured value.

It is recommended to change the **“Universal Input Correction Coefficient”** only if the input calibration was not performed correctly.

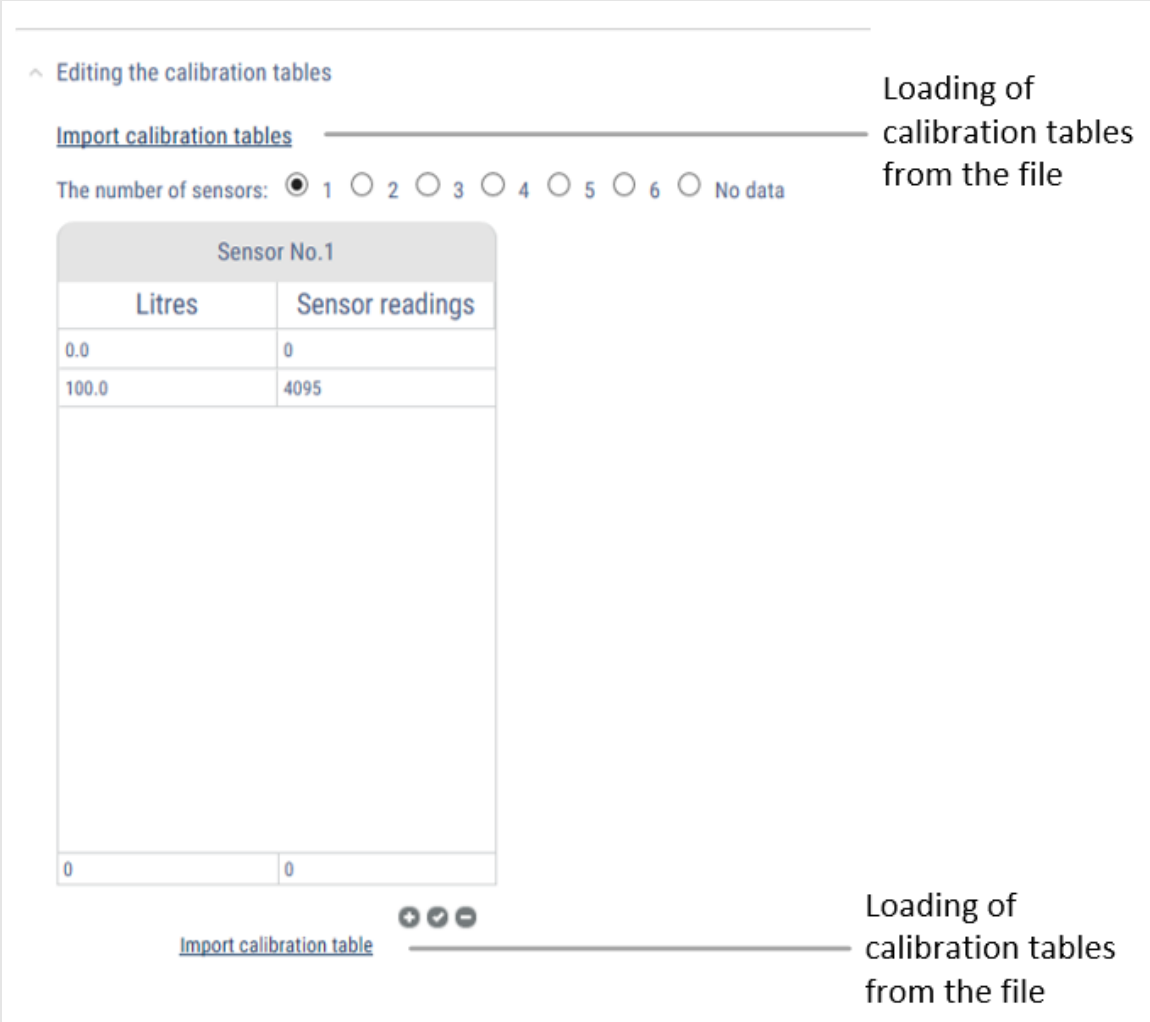
“Recognize the “on-state” of the auxiliary equipment at the universal input”– record the power-on status of auxiliary equipment at the universal input.

When “Recognize the “on-state” of the auxiliary equipment at the universal input” is turned off, the “Activation threshold value at the universal input” field is not editable.

“Recognize the excess of the permissible value at the universal input”– record an excess of the permissible value at the universal input.

“Threshold of the maximum permissible value at the universal input”– enter the measurement value, above which Omnicomm will record work in excess of the permissible value. When “Recognize the excess of the permissible value at the universal input” is disabled, the “Maximum permissible value threshold at the universal input” field is not available for editing.

In the **“Calibration tables editing”** section:



Specify the number of fuel level sensors installed on the vehicle.

When uploading multiple tables from a file, specify the network addresses of fuel level sensors.

For each fuel level sensor, select the tank in which the fuel level sensor is installed. Possible options: **"Main"** and **"Additional"**.

Highlight the row in which you want to change a value. Enter the new values for the given row of the table in the input cells under the table. To enter the values from the row into the table, click .

To add/remove a row of the table, click .

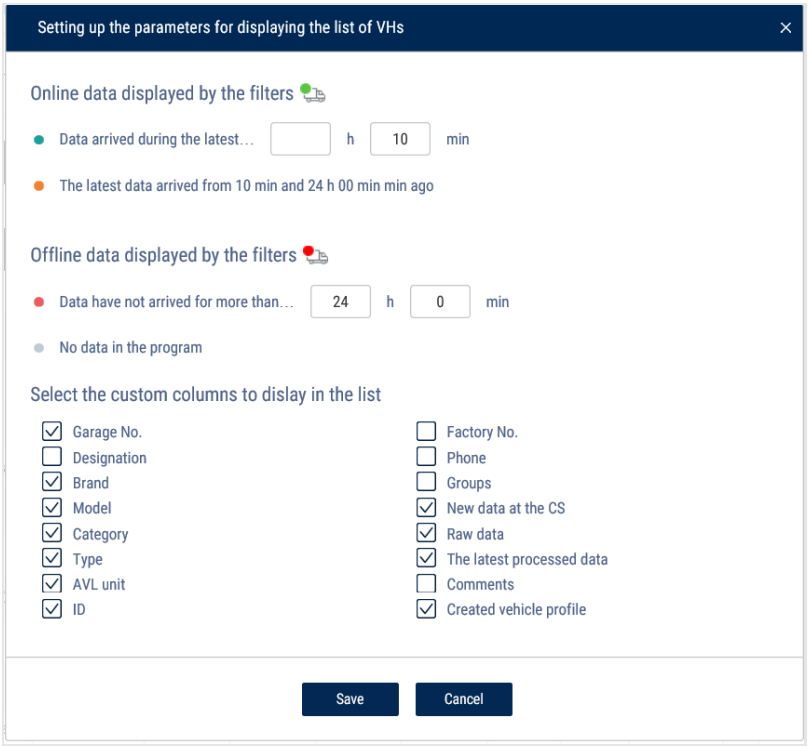
To save all settings, click **"Save"**.

Vehicles information display settings

Managing the list of vehicles

In the Omnicomm Online window, in the “Administration” section, open the “Vehicles” tab.

Press the “Display configuration” button. A window will open:



In the “Data displayed under Online and Offline Filters” section:

Specify the time intervals for receiving data from the terminals according to which the vehicle's activity filters will operate

Data received for last	The marked vehicles' terminals transmitted data to Omnicomm Online within the set period of time
Last data received for period	The marked vehicles' terminals transmitted data to Omnicomm Online within the time interval between the set values “Data received for the last” and “Data not received for more than”
Data not received for more than	The marked vehicles' terminals have not transmitted data to Omnicomm Online beyond the set period of time

● Data absent in program	The marked vehicles' terminals have never transmitted any data to Omnicomm Online

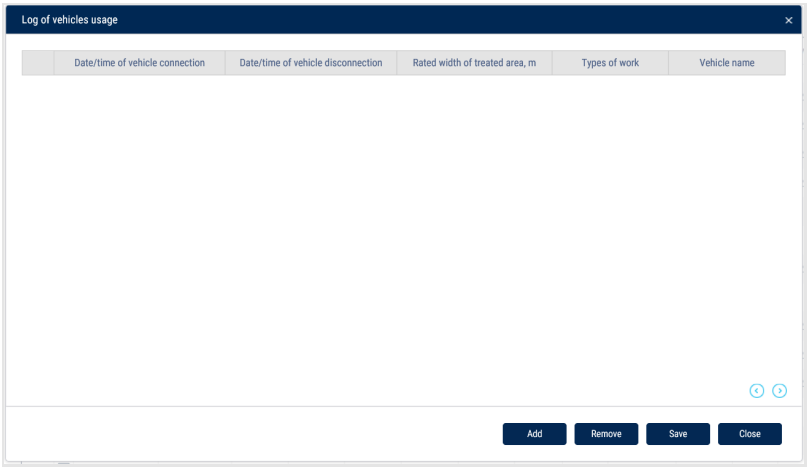
In the section “Select columns to be displayed in the list”, select the information to be displayed in the vehicle list:

- Depot ID
- Designation
- Brand
- Model
- Category
- Type
- Terminal
- ID
- Factory number
- Phone number
- Groups
- New data on CS
- Raw data
- Last processed data
- Note
- Date of vehicle profile creation

Unit usage log

In the Omnicomm Online window, in the “Administration” section, open the “Vehicles” tab.

Select a vehicle and click “Unit usage log”. A window will open:



To add a new unit, click the **“Add”** button.

“Date/time of vehicle connection” – enter the date and time when the unit was connected.

“Date/time of vehicle disconnection” – enter the date and time when the unit was shut down.

“Rated width of treated area, m” – specify the width of the area processed by the unit.

“Types of work” – select the type of work performed by the unit.

“Vehicle name” – specify the name of the unit.

Press the **“Save”** button.

Replacing a vehicle's terminal

In Omnicomm Online it is possible to replace the terminal on a vehicle.

Please follow the following guidelines when replacing a terminal:

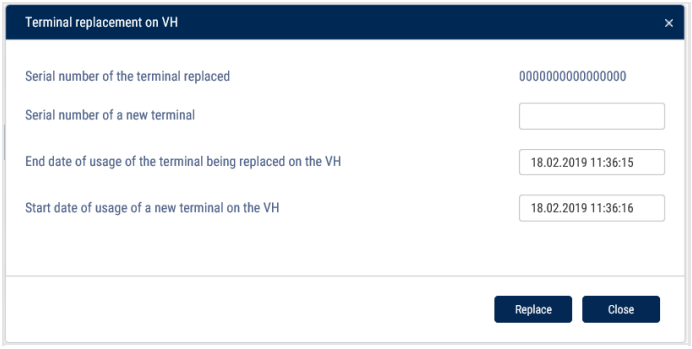
1. The terminal may be replaced only by a terminal of the same model
2. The new terminal must not be registered in Omnicomm Online
3. The new third-party terminal must be added beforehand on the Conversion Server

4. The replacement of some terminals using the inter-server interaction protocol has not been implemented. A corresponding message will be displayed if a terminal cannot be replaced
5. The replacement of terminals on vehicles with an additional tank has not been implemented

Log in to Omnicomm Online using the dealer's login details. In the Omnicomm Online window, in the “Administration” section, open the “Vehicles” tab.

Select a vehicle and click “Replace terminal”.

A window with additional information will appear; click “OK”. A window will open:



“Factory number of the replaced terminal” – displays the factory number of the terminal that will be replaced.

“Factory number of the new terminal”– enter the **factory number** of the terminal that will be installed on the vehicle. For example, 20216000008.

“End date of operation of the replaced terminal on the vehicle”– enter the date and time after which the data from the replaced terminal will not be processed in Omnicomm Online.

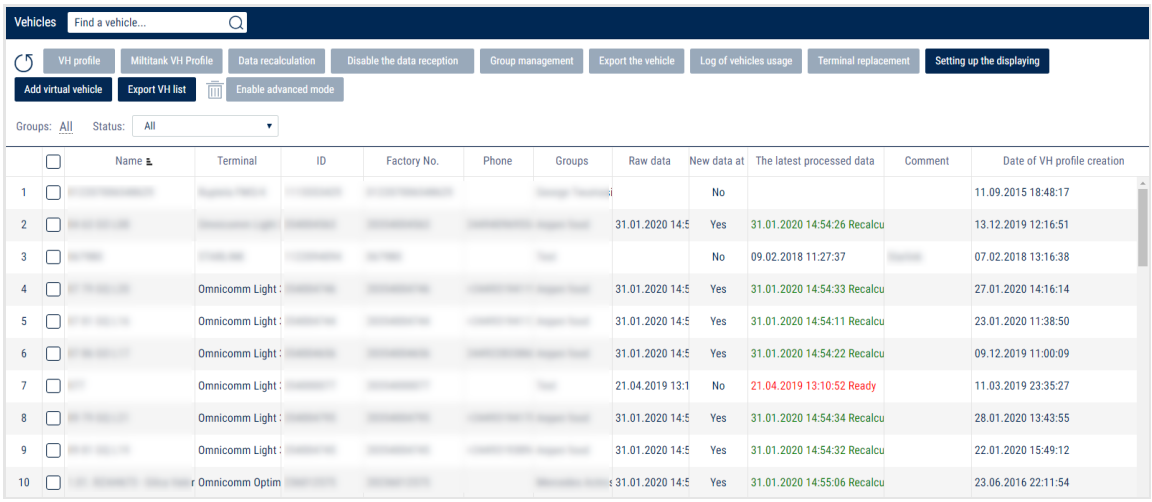
“Start date of operation of the new terminal on the vehicle”– enter the date and time after which the data from the new terminal will be sent to Omnicomm Online.

When the set start date is earlier than the current date, the terminal data will be automatically downloaded only for the last three days. To download all data, please contact technical support.

Export vehicle list to an Excel file

In the Omnicomm Online window, in the “Administration” section, open the “Vehicles” tab.

A window will open:



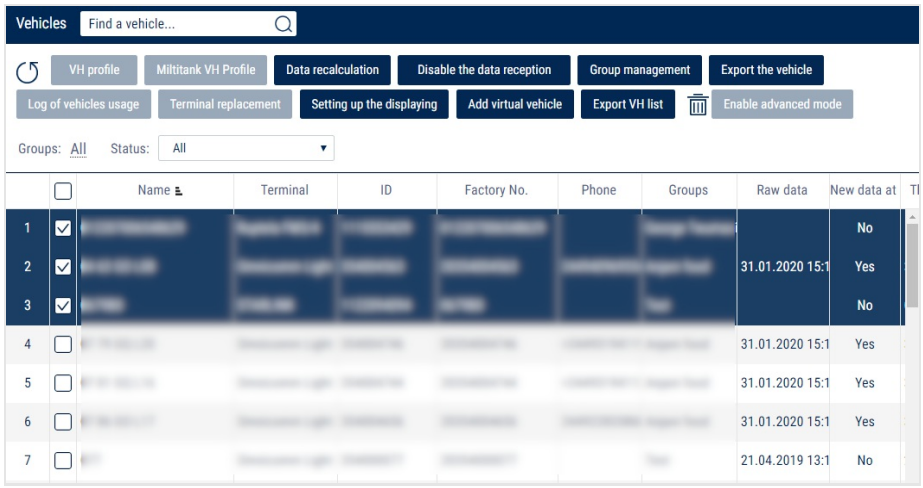
Click the “Export vehicle list” button. The file will be saved to PC as VehicleList[XX-XX-XXXX_XX-XX-XX].xlsx, where [XX-XX-XXXX_XX-XX-XX] is the export date in the DD-MM-YYYY_HH-MM-SS.

The file will contain columns selected when defining the Vehicle information display settings.

Deleting

In the Omnicomm Online window, in the **“Administration”** section, open the **“Vehicles”** tab.

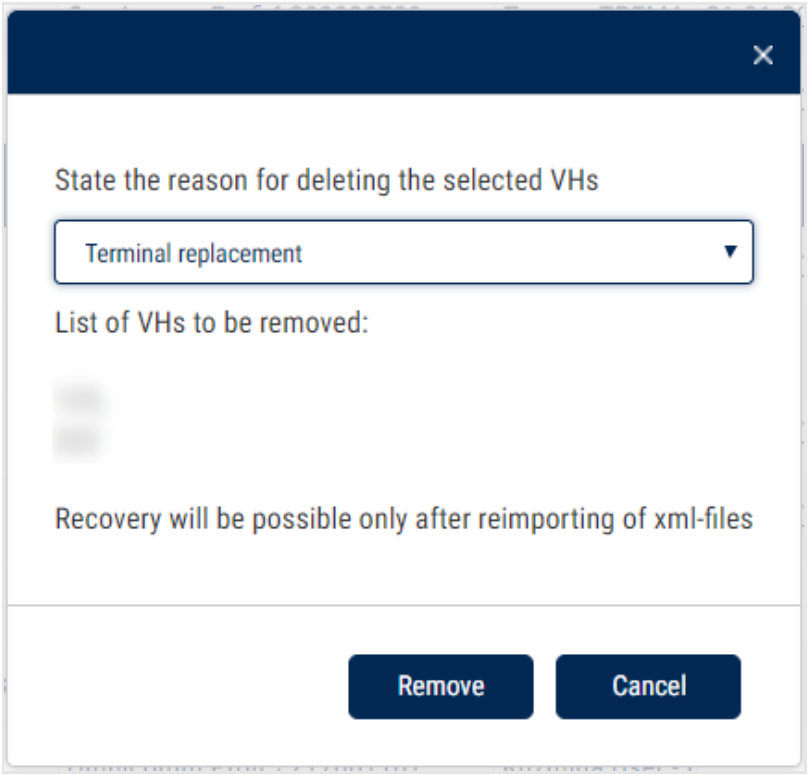
A window will open:



Select from the list the vehicle profiles you want to delete from Omnicomm Online. Click “Delete”.

A window will open:

Managing the list of vehicles



Select the reason for deleting vehicles from the list:

• transfer to another account / switch to another dealer

• disconnected from OO / transfer to another monitoring system

• terminal replacement

• vehicle out of service / under maintenance

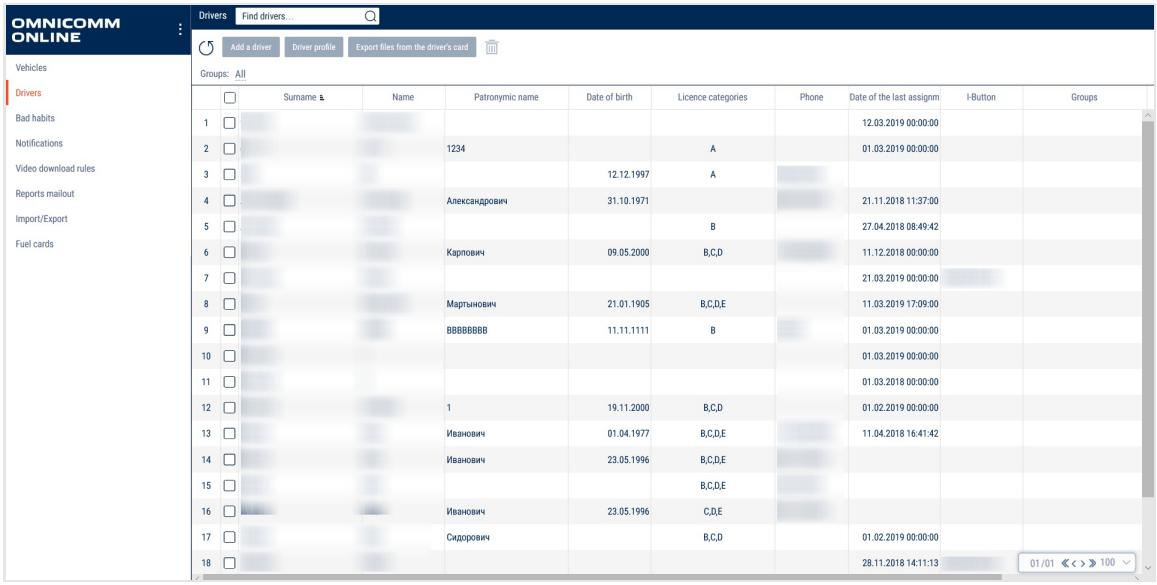
• receivables

• other

To restore deleted vehicles, you will need to re-import vehicle profiles (xml-files).

Managing the list of drivers

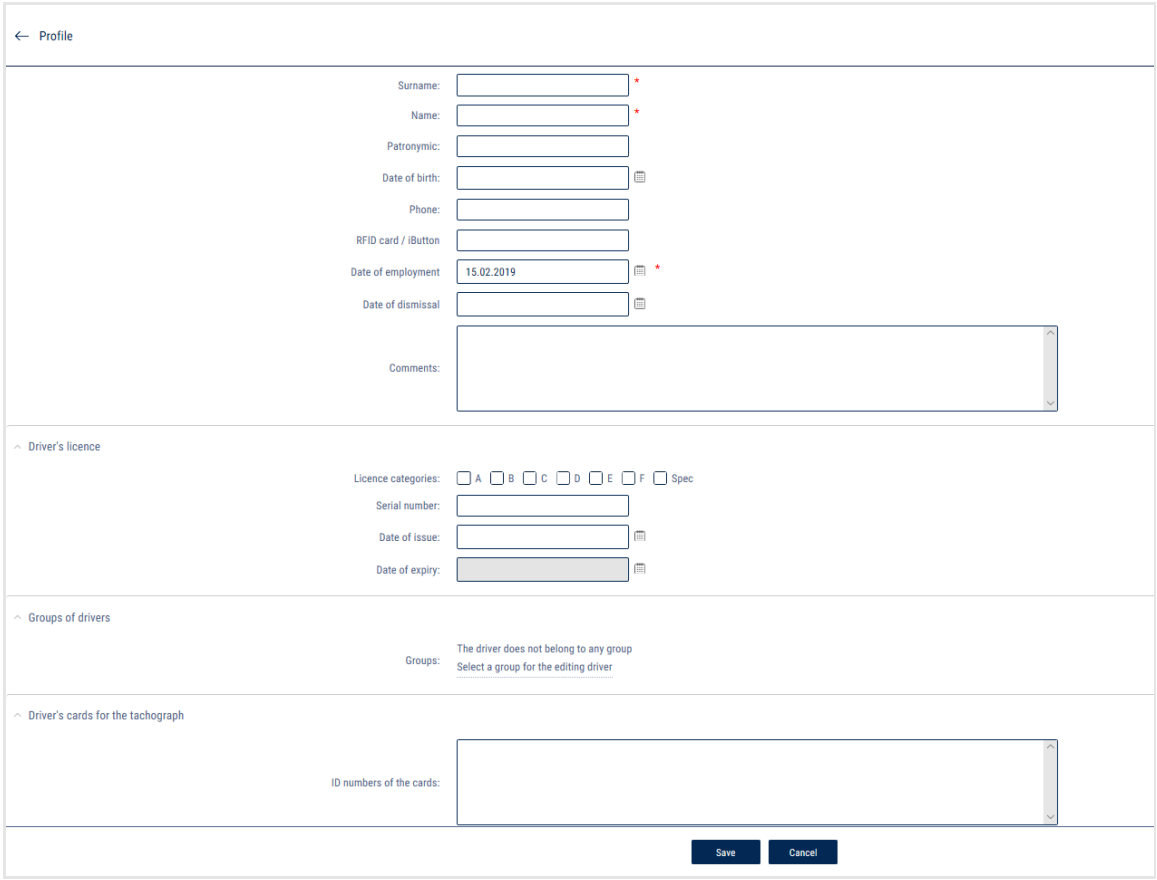
In the **«Administration»** section, open the **«Drivers»**. A window will open:



Adding or editing a profile

In the “Administration” section, open the “Drivers” tab. In the window that opens, click on “Add a driver”. A window will open:

Managing the list of drivers



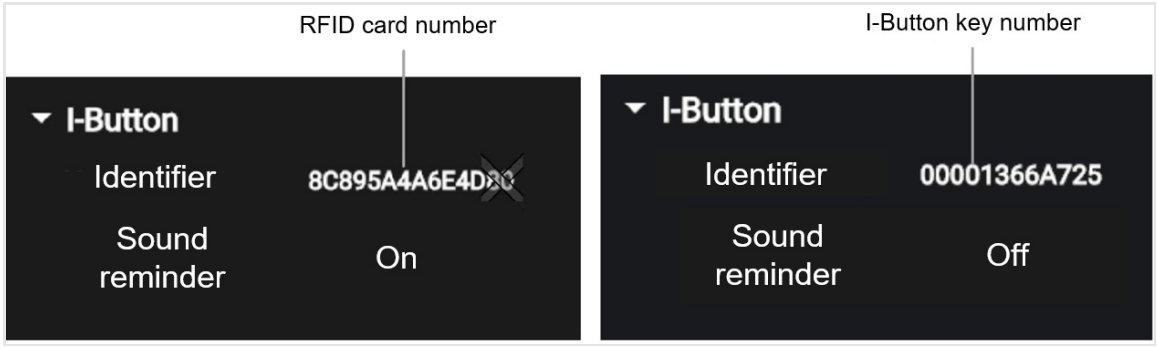
In the «**General driver information**» section:

- «**Last name**» – enter the driver's last name
- «**First name**» – enter the driver's first name
- «**Middle name**» – enter the driver's middle name (or patronymic, if any)
- «**Date of birth**» – enter the driver's date of birth
- «**Phone number**» – enter the driver's phone number
- «**RFID Card/I-Button**» - enter the identification number of the RFID card or I-Button key that will belong to the driver

Enter the identification number of the RFID card without the last two digits. For the I-Button key, enter all the digits of the number. RFID card and I-Button key numbers are displayed in Omnicomm Configurator.

Example:

Managing the list of drivers



- **«Employment start date»** – enter the driver's employment start date

In Omnicomm Online, the driver sign in is displayed only after the "Employment start date". When the set “Employment start date” is before today's date, it will be necessary to recalculate the data for the vehicle on which this driver worked.

«Date of dismissal» - enter the date of driver's dismissal. Dismissing a driver instead of deleting them from the system, will allow you to keep the driver's history in Omnicomm Online.

"Dismissal date" may be any date, starting from the current one, i.e. the driver may not be dismissed retrospectively.

In the **«Driver's license»** section:

- **«Categories»** – select the categories that are authorized on the driver's license
- **«Series and number»** – enter the series and the registration number of the driver's license
- **«Date of issue»** – specify the date when the license was issued
- **«Valid until»** – specify the expiry date on the driver's license

In the **«Driver groups»** section, click on the hyperlink Select a group for the current driver and select one or more groups that the driver will be assigned to.

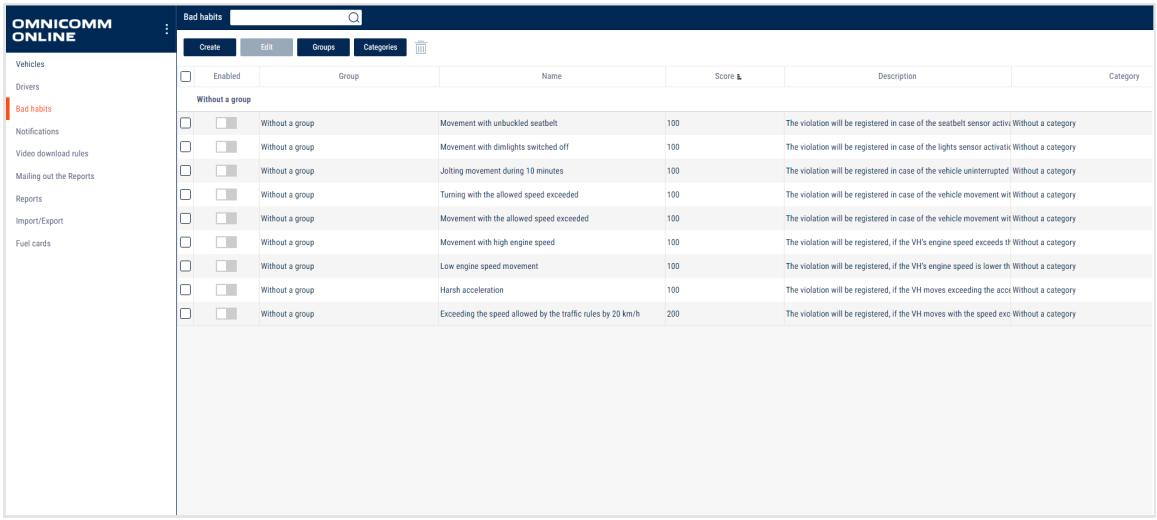
In the **«Driver's cards»** section, enter the card numbers, separated by commas, used by the driver to control work and rest modes using a tachograph.

Bad habits

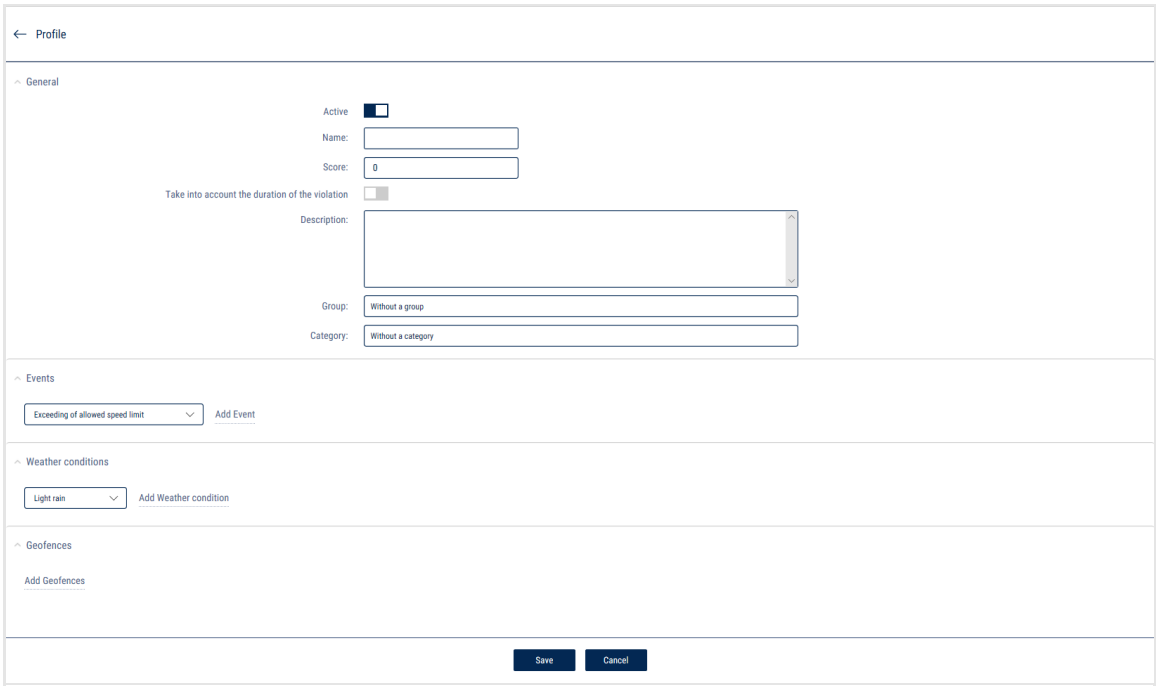
The list of bad habits contains the setting for registering violations based on the events of safe driving, taking into account weather conditions and geofences.

Violations linked to bad driving habits are displayed in the “SafeDrive: Driver Rating” and “SafeDrive: Violation Details” reports. If the list of bad habits has not been filled out, the default list of bad habits will be added and activated when the “Safe driving” service is enabled.

In the **«Administration»** section, open the **«Bad habits»** tab. A window will open:



To add a bad habit, click on the “Add” link. A window will open:



General

Bad habits

«Active» – stop / start checking events.

«Name» – name of the habit.

«Score» – enter the number of points given to the driver or to the vehicle for the violation.

«Take into account the duration of the violation»– check / don't check the duration of the violation.

«Minimum duration of the violation» – how long can a violation persist before it is recorded. Possible values: from 0 days, 0 h, 0 min, 1 sec to 99 days, 23 h, 59 min, 59 sec. Default value – 30 sec.

The option "Take into account the duration of the violation" is not displayed for the following events:

- Short-term exceeding of maximum speed limit
- Short-term exceeding of allowable speed limit
- Positive acceleration threshold exceeding
- Negative acceleration threshold exceeding
- Lateral acceleration threshold exceeding
- Allowed turning speed exceeding
- Maximum turning speed exceeding

Calculation of penalty points:

- There is only one event in the habit:

  Duration of the violation divided by the minimum duration of violations, discard the decimal part of the result and multiply by the number of penalty points, add up all the violations for this event.

  For example, (35/10+25/10)*100=(3+2)*100=500

- There are several events in the habit:

  The duration of a one-time violation for several events divided by the minimum duration of violations, discard the decimal part of the result and multiply by the number of penalty points.

«Description» – enter the description of the violation.

«Group» – select the group that the habit belongs to.

«Category» – select the category that the habit belongs to.

«Select VH» – selection of vehicles to control bad habits. Click on the **Select VH** link. Select one or a group of vehicles. If no vehicle or group is specified, bad habits are controlled for all vehicles.

Events

Select events from the list. Click on the "Add event" link.

Specify the parameters for reporting a violation.

Possible events:

- Exceeding the permissible speed limit. The value of the maximum allowed speed can be set in the vehicle profile, in the "Safe driving" section

  "Exceeding the speed threshold, km/h" - enter the value of speed by which it is allowed to exceed the maximum allowed speed without a violation being recorded

  Duration threshold, sec - enter the amount of time for which it is possible to exceed the maximum allowed speed without a violation being recorded

  Average speed threshold, km/h - enter the average speed value. If the average speed is less than the specified value, the violation will not be recorded

- Exceeding the maximum speed limit. The speed limit value can be set in the vehicle profile, in the "Safe driving" section

  Exceeding the speed threshold, km/h - enter the value of speed by which it is allowed to exceed the speed limit without a violation being recorded

  Duration threshold, sec - enter the amount of time for which it is possible to exceed the speed limit without a violation being recorded

  Average speed threshold, km/h - enter the average speed value. If the average speed is less than the specified value, the violation will not be recorded

Bad habits

- Movement with headlights off. The headlight on/off sensor connects to the terminal's universal input. The headlights on or off status is determined by taking into account the “Inversion of the input signal” (see Terminal user manual. “Universal Inputs”)

  Duration threshold, sec - enter the amount of time for which it is possible to drive with the headlights off without a violation being recorded

- Movement with unfastened seatbelts. The seatbelt sensor connects to the terminal's universal input. The seatbelt status is determined by taking into account the “Inversion of the input signal” (see Terminal user manual. “Universal Inputs”)

  Duration threshold, sec - enter the amount of time for which it is possible to drive with no seatbelt without a violation being recorded

- Short-term exceeding of maximum speed limit

  Instantaneous speed threshold, km/h - when this value of speed is reached, a violation will be recorded

- Exceeding the positive acceleration threshold. The value of the positive acceleration threshold is set during the configuration of the terminal using the Omnicomm Configurator program (see Terminal user manual. “Driving safety control”)

  Acceleration threshold, m/s2 - enter the value of acceleration by which it is possible to exceed the positive acceleration threshold without a violation being recorded

- Exceeding the negative acceleration threshold. The value of the negative acceleration threshold is set during the configuration of the terminal using the Omnicomm Configurator program (see Terminal user manual. “Driving safety control”)

  Acceleration threshold, m/s2 - enter the value of acceleration by which it is possible to exceed the negative acceleration threshold without a violation being recorded

Bad habits

- Exceeding the lateral acceleration threshold. The value of the lateral acceleration threshold is set during the configuration of the terminal using the Omnicomm Configurator program (see Terminal user manual. “Driving safety control”)

  Acceleration threshold, m/s2 - enter the value of acceleration by which it is possible to exceed the lateral acceleration threshold without a violation being recorded

- Exceeding the vertical acceleration threshold. The value of the vertical acceleration threshold is set during the configuration of the terminal using the Omnicomm Configurator program (see Terminal user manual. “Driving safety control”)

  Acceleration threshold, m/s2 - enter the value of acceleration by which it is possible to exceed the vertical acceleration threshold without a violation being recorded

- Exceeding the permissible speed for approaching a turn The value of permissible turning speed can be set in the vehicle profile, in the “Safe driving” section

  Instantaneous speed threshold, km/h - when this value of speed is reached, a violation will be recorded

- Exceeding the maximum speed for approaching a turn. The value of speed limit for turning can be set in the vehicle profile, in the “Safe driving” section

  Instantaneous speed threshold, km/h - when this value of speed is reached, a violation will be recorded

- Traffic violation. Exceeding the speed limit. Traffic violations are recorded based on the data from the Geocenter Consulting service
- Continuous engine idle operation. The maximum value of idle engine operation can be set in the vehicle profile, in the “Safe driving” section

  Duration threshold, sec - enter the amount of time for which it is possible to exceed the maximum time of idle engine operation without a violation being recorded

Bad habits

- Movement with a cold engine. The movement with a cold engine is recorded taking into account the engine's operating temperature range set in the vehicle's profile, in the “Safe driving” section

  Duration threshold, sec - enter the amount of time after which a violation is recorded for driving with a cold engine

- Movement with an overheated engine. The movement with an overheated engine is recorded taking into account the engine's operating temperature range set in the vehicle's profile, in the “Safe driving” section

  Duration threshold, sec - enter the amount of time after which a violation is recorded for driving with an overheated engine

- Movement at decreased RPM. The movement at decreased RPM is recorded taking into account the “green area” of engine revolutions set in the vehicle's profile, in the “Safe driving” section

  Duration threshold, sec - enter the amount of time after which a violation is recorded for driving with decreased RPM

- Movement at increased RPM. The movement at increased RPM is recorded taking into account the “green area” of engine revolutions set in the vehicle's profile, in the “Safe driving” section

  Duration threshold, sec - enter the amount of time after which a violation is recorded for driving with increased engine revolutions

Weather conditions

Select the weather conditions from the list. The weather conditions are recorded based on the data from the OpenWeatherMap service. Click on the “Add weather condition” link.

Possible weather conditions:

- Light rain
- Rain
- Heavy rain
- Heavy rain, thunderstorm

Default bad habits

- Sleet
- Light snow
- Snow
- Blizzard
- Light ice
- Road icing
- Black ice
- Mist
- Daytime
- Nighttime

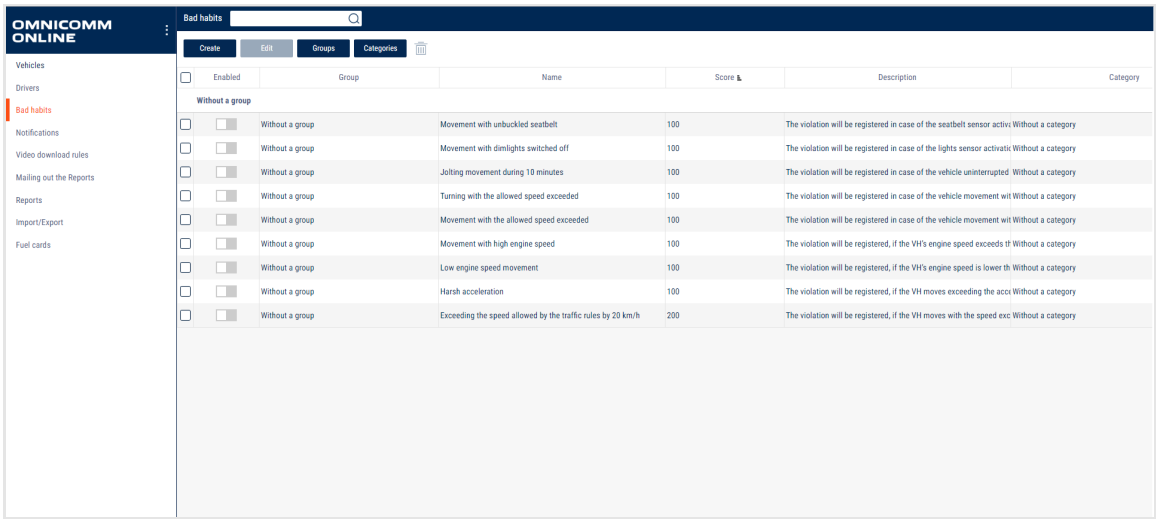
For selected weather conditions, specify the coefficient by which the number of penalty points for the violation will be multiplied.

Geofences

Click the “Add geofences” button to specify the geofences in which the driving habits should be monitored.

In the window that opens select the required geofences.

Default bad habits



- Movement with unfastened seatbelts. Penalty points: 100. A violation will be detected if the seatbelt sensor is triggered while the vehicle is moving at a speed above the threshold specified in the terminal settings.
- Driving with dipped headlights off. Penalty points: 100. A violation will be detected if the headlight sensor is triggered while the vehicle is moving at a speed above the threshold specified in the terminal settings. If the violation is registered at night, double points will be deducted.
- Movement in conditions of shock or vibration for 10 minutes. Penalty points: 100. A violation will be detected in case of continuous movement of the vehicle while exceeding the vertical acceleration threshold specified in the terminal settings for over 10 minutes.
- Taking a turn at an excessive speed. Penalty points: 100. A violation will be detected if the vehicle exceeds the lateral acceleration threshold specified in the terminal settings and the speed threshold for taking a turn specified in the vehicle profile. If the violation is registered during atmospheric conditions involving precipitations, double points will be deducted.
- Movement exceeding the permissible speed. Penalty points: 100. A violation will be detected if the vehicle exceeds the threshold of permissible speed specified in the vehicle profile by 10 km/h for at least 30 seconds. If the violation is detected during atmospheric conditions involving precipitations, double points will be deducted.
- Operation at high engine RPM Penalty points: 100. A violation will be detected if the vehicle is moving with RPM above the green area specified in the vehicle profile and the permissible operating time with engine RPM outside the green area is exceeded.
- Operation at low engine RPM Penalty points: 100. A violation will be detected if the vehicle is moving with RPM below the green area specified in the vehicle profile and the permissible operating time with engine RPM outside the green area is exceeded.
- Sharp acceleration Penalty points: 100. A violation will be detected if the vehicle exceeds the acceleration threshold specified in the terminal settings.
- Exceeding the speed permitted by the traffic rules by 20 km/h. Penalty points: 200. A violation will be detected if a vehicle is moving at a speed higher than the speed permitted by the traffic rules for the current section of road by 20 km/h.

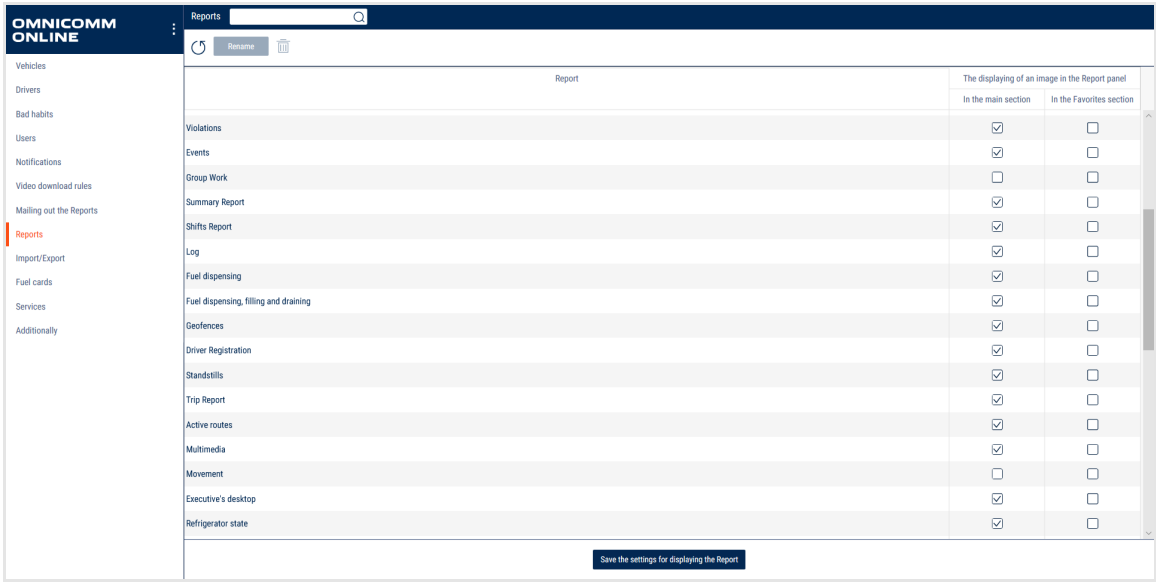
Reports display configuration

Omnicomm Online has the option of hiding unused reports and adding frequently used

reports to the **«Favorites»** section.

The display of reports can be configured only by users who have access to Omnicomm Online reports appearance management.

In the “Administration” section, open the **«Reports»** tab. A window will open:



Custom reports are located under the reports on which they were based, the name of the custom report is indented in relation to the title of the main report.

Check the boxes next to the reports you want to display in the **«Reports»** and in the **«Favorites»** section.

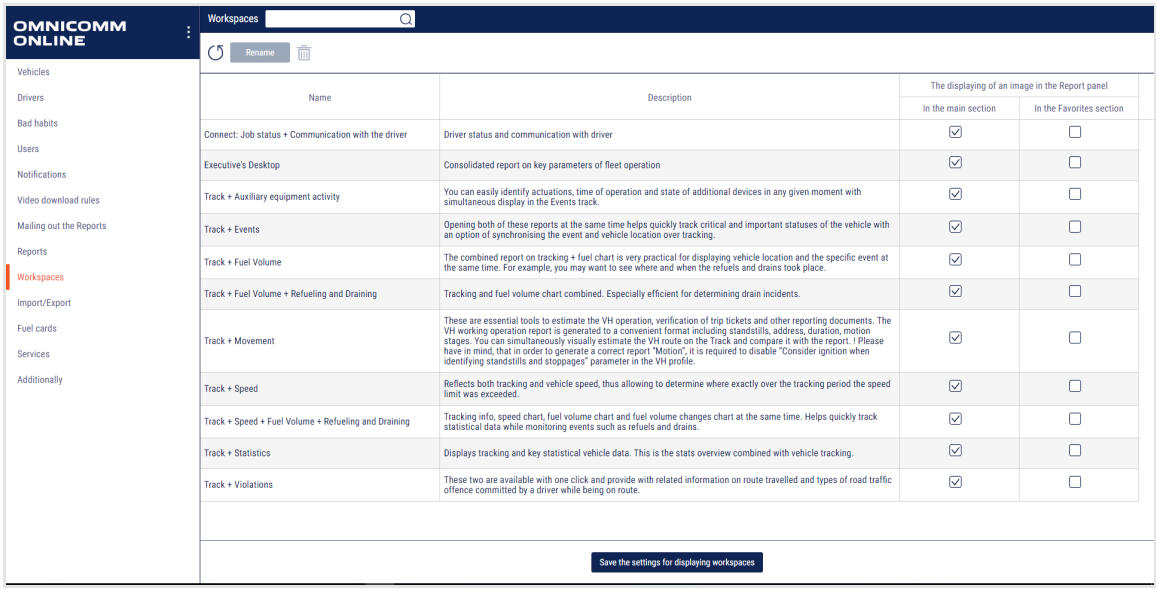
Workspace display settings

Omnicomm Online has the option of hiding infrequently used workspaces and adding the frequently used ones to the **“Favorites”** section.

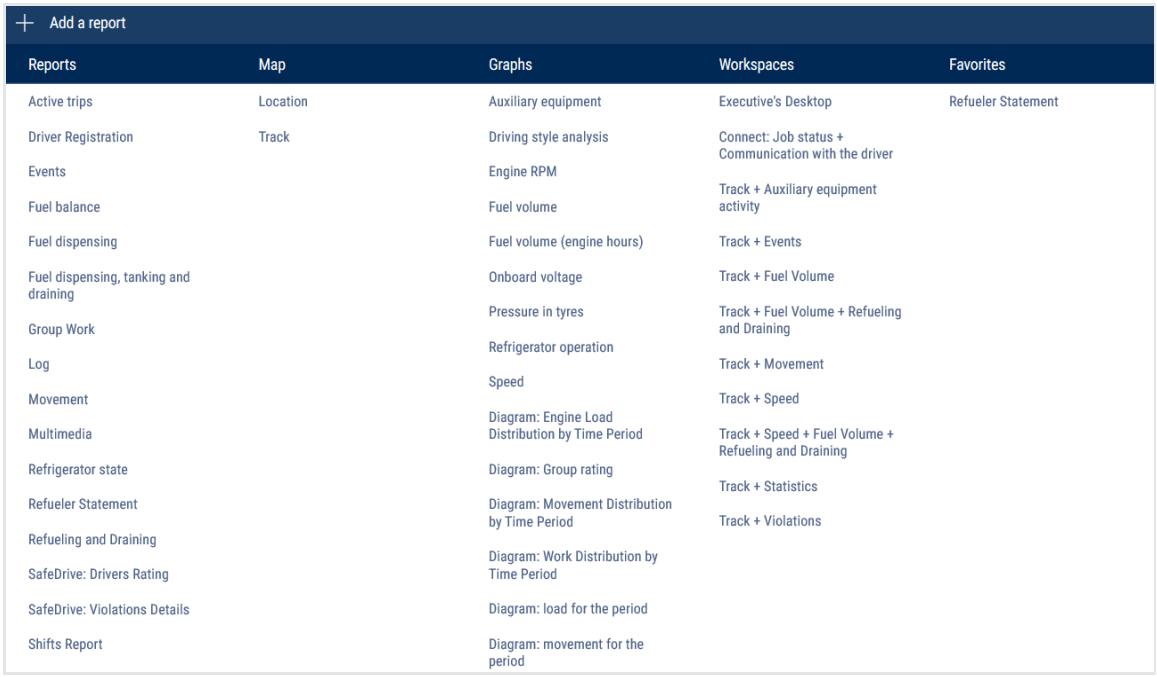
The display of reports can be configured only by users who have access to Omnicomm Online reports appearance management.

In the “Administration” section, open the **«Workspaces»** tab. A window will open:

Reports mailout configuration



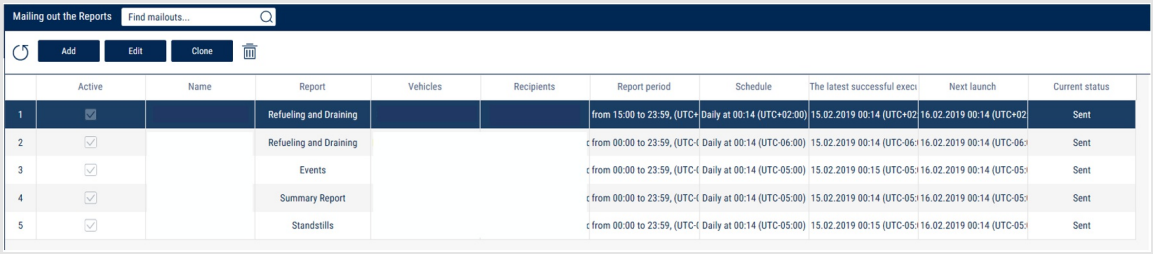
Check the boxes next to the workspaces you want to display in the **“Workspaces”** and in the **“Favorites”** section.



Reports mailout configuration

In the **«Administration»** section, open the **«Reports Mailout»** tab. A window will open:

Reports mailout configuration



«Report» – the name of the report for mailout.

«Vehicles» – the vehicles based on which the report is generated for mailout.

«Recipients» – the list of recipients' email addresses.

«Report period» – the period of report generation, accounting for the time zone set in the mailout task.

«Schedule» – the mailout schedule taking into account the regularity, time zone, and the delay in the generation of the report.

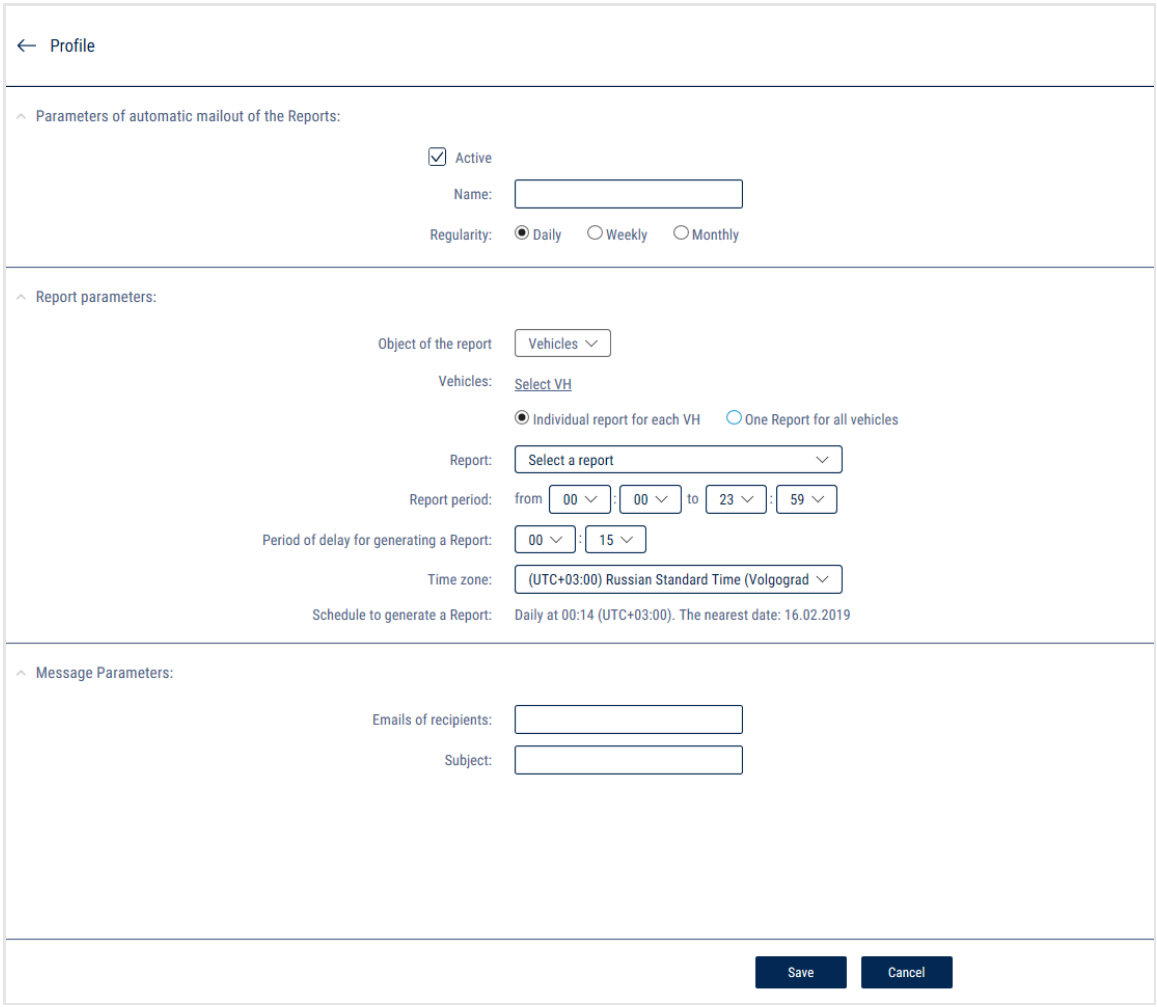
«Last successful execution» – the date and time of the last successful mailout.

«Next launch» – the date and time of the next report mailout, taking into account the time zone specified in the mailout task. **«Current status»** – the status of the mailout task. Possible options:

- «In progress» – the report is currently being generated and sent out
- «Sent» – the report has been generated and sent out
- «Error» – an error has occurred when generating or sending out the report. The “Error” status is kept until the next mailout
- «Empty line» – the mailout has not yet been made for this task, and the “next mailout” has not been carried out yet

Press the **«Add»** button. A window will open:

Reports mailout configuration



Automatic report mailout parameters:

«Enabled» – stop/start report mailout.

«Name» – the mailout name.

«Frequency»:

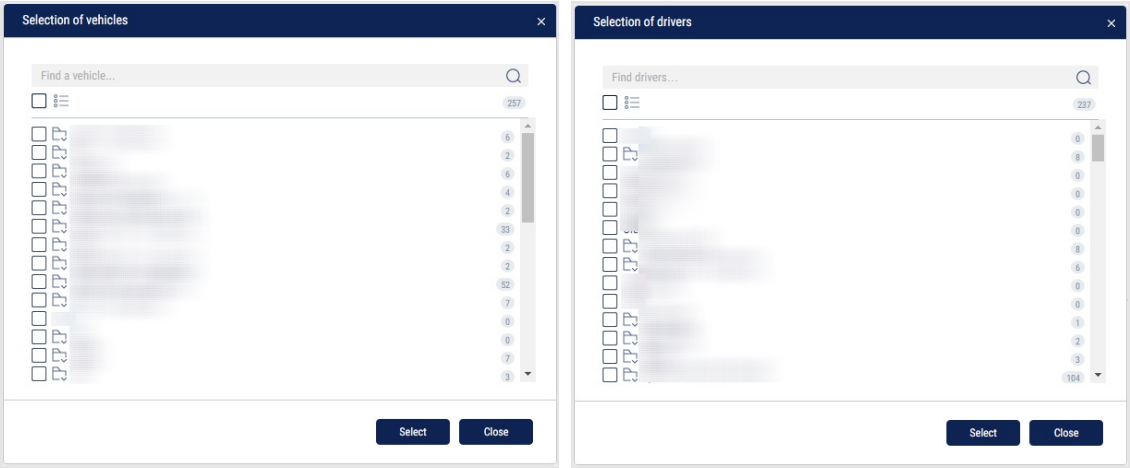
- «Daily» – the report will be sent out on a daily basis
- «Weekly» – the report will be sent out once a week
- «Monthly» – the report will be sent out once a month

Report parameters:

«Report object» – select the object for which you want to generate the report. Possible options: vehicle, driver.

Select the report objects by clicking on the **Selection of vehicles** or **Selection of driver**.

Reports mailout configuration



«A separate report for each vehicle» - reports for each selected vehicle will be generated individually. If the report selected for the mailout does not support the generation of a report for one of the selected vehicles, it will not be generated for this vehicle.

«One report for all vehicles» - generate a single report for all the selected vehicles for mailout. If the report selected for the mailout cannot be generated for multiple vehicles, Omnicomm will generate reports for each vehicle separately.

«Choosing a report for mailout». In the "Reports" section, select the report that will be generated for the selected vehicles and added to the mailout. Possible reports for mailout:

- Track
- Fuel volume
- Statistics
- Group operation
- Summary report
- List of refueling and draining operations
- Shift report
- Events
- Violations
- Work over a period of time
- Geofence visiting
- Movement between stoppages

- Fuel dispensing, tanking, and draining
- Load over time
- Trip execution
- Active trips
- SafeDrive: Driver Rating
- SafeDrive: Violation Details
- Fuel balance
- Refueler statement

Possible reports to be sent to drivers:

- Refueling and draining
- Violations
- Events
- Group work
- SafeDrive: Driver Rating
- SafeDrive: Violation Details

User reports created on the basis of the above reports are also available for mailout.

«Report period» is set according to the frequency of mailout.

For daily mailouts:

from - specify the starting time of the report period.

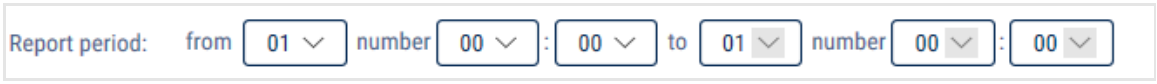
until - specify the end time of the report period.

For weekly mailouts:

from - specify the day of the week for the start of the report period.

until - specify the day of the week for the end of the report period.

For monthly mailouts:



from - specify the date and time for the start of the report period. Possible values: from 1 to 27.

until - the day of the month and the time for the end of the report period will be set automatically.

«Period of delay for generating a Report»– the period of time counted from the end of the report period, after which the report is generated and sent out. The "Period of delay for generating a Report" is necessary to receive and process data from the vehicle. Possible values: from 0 to 1439 minutes (24 hours).

«Time zone» – the time zone in relation to which the report is generated and sent out.

The **«Schedule to generate a Report»**displays the frequency and time of mailout and contains information about the next one.

Message parameters:

«Recipients' e-mail addresses» - enter a list of report recipients by email, the addresses must be separated by commas.

«Subject» - enter the prefix that will be displayed at the beginning of the subject of messages with reports.

Transfer of terminals between clients

While using the Omnicomm terminals, the client has the right to change the servicing company. In this case, the terminals must be reconnected.

The receiving or transferring company should send Omnicomm a request for the provision of a reconnection service.

The terminal transfer procedure:

The transferring company:

1. Download the object profiles (Users, Drivers, Vehicles, Geofences, Routes, Notifications). To do this, in Omnicomm Online "Administration", go to the "Import/Export" section and export the object profiles to file.

2. Send the exported object profiles to the receiving party via email.

3. Delete the client's and the vehicles' profiles from the account in Omnicomm Online.

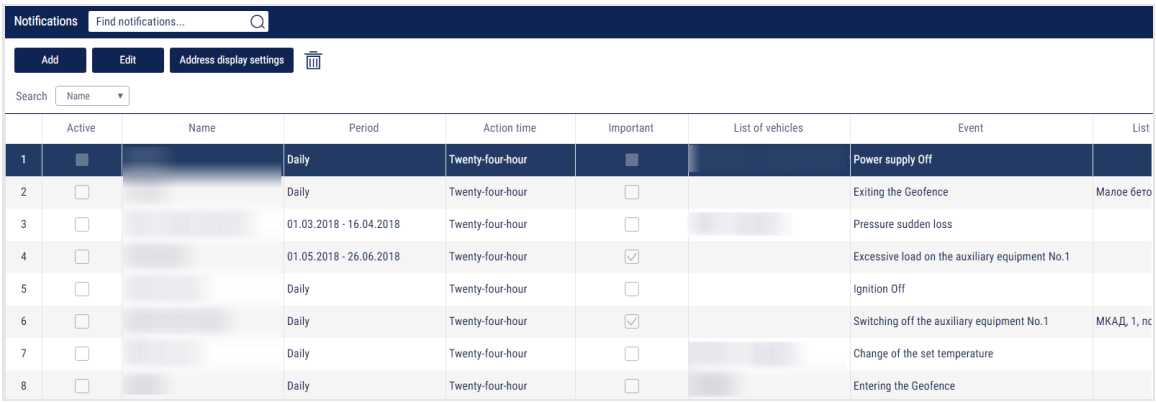
Receiving party:

Import the files you received into your account in Omnicomm Online.

Omnicomm can act as the transferring party.

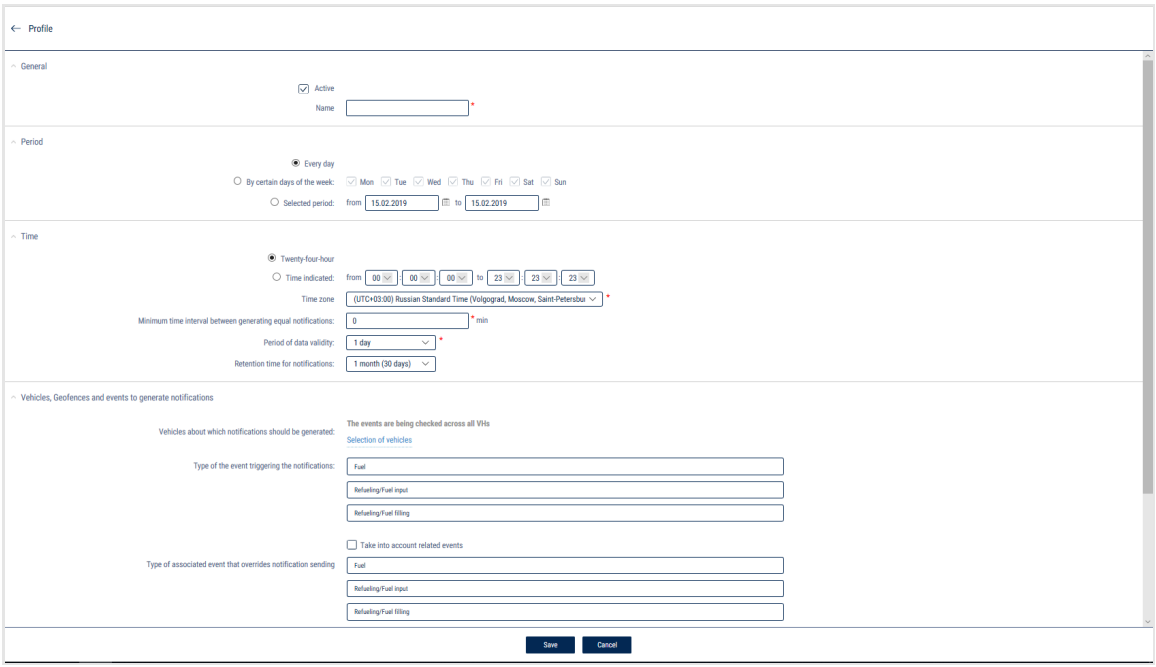
Notification settings

In the «**Administration**» section, open the «**Notifications**» tab. A window will open:



Creating notifications

Press the «**Add**» button. A window will open:



General:

«**Active**» – stop/start checking events.

When deleting a vehicle, a driver or a geofence, for which a notification has been created

and only one of these objects is selected in the settings, the notification will be automatically disabled. If several objects are specified in the settings, then only the deleted object is excluded and the notifications remain "Active".

«Name» – the notification name. The notification must have a name.

Period of validity:

- **«Every day»** – notifications will be generated daily when there are any relevant events
- **«Certain days of the week only»** – notifications will be generated based on events that occurred on the selected days of the week. Select the days of the week
- **«Selected period»** – notifications will be generated for events that occurred during a specified period of time. Set the period

Time of validity:

- **«Twenty-four-hour»** – notifications will be generated 24/7, whenever there are any relevant events
- **«At indicated times»** – notifications will be generated for events that occurred over a specified time interval, taking into account the time zone. Specify the time. If the end time is less than or equal to the start time, then the end time is considered to be that of the next day

«Time zone» – the time zone taken into account when generating notifications.

«Minimum time interval between generating equal notifications» min. – the minimum time after the creation of a notification, during which the events are not checked and no notifications are created.

«Period of data validity» – the maximum time elapsed between the registration of the data by the Terminal and their receipt by Omnicomm, when it is possible to create notifications. If the specified time is exceeded, notifications will not be generated. Possible values: 30 min, 1 hour, 2 hours, 6 hours, 12 hours, 1 day, 3 days, 7 days, 1 month, 3 months.

«Retention time for notifications» – the time during which the created notifications will be stored in Omnicomm Online. After this period, the notifications will be deleted.

Vehicles, geofences, and events for which notifications are generated:

Selecting vehicles for the generation of notifications. Click on the **Select vehicles** link.

Select one or more groups of vehicles for which event notifications will be generated. If no vehicle or group of vehicles is selected, then the notifications will be generated for all vehicles.

Notification settings

«Type of event triggering the notifications». In the list "Type of event triggering the notifications" select the event. Events that can trigger notifications:

Events from the **«Fuel»** section:

- Refueling / tanking

  Refueling / tanking

  Dispensing

- Draining
- LLS failure
- Fuel level in the tank

  Fuel level below 5%

  Fuel level below 10%

  Fuel level below 20%

  Fuel level below 30%

  Fuel level below 40%

  Fuel level below 50%

Events from the **«Movement»** section:

- Standstill

  Standstill start - the notification is sent at the end of standstill if the duration of parking exceeds the time threshold specified in the vehicle profile

  Standstill end - the notification is sent at the end of the standstill period if the duration of the parking period exceeds the time threshold

  Possible standstill start - a notification is sent as soon as the time threshold has been exceeded

Notification settings

- Stoppage

  Stoppage start - the notification is sent at the end of stoppage if the duration of parking exceeds the time threshold specified in the vehicle profile

  Stoppage end - the notification is sent at the end of the stoppage period if the duration of the parking period exceeds the time threshold

  Possible stoppage start - a notification is sent as soon as the time threshold has been exceeded

- Speeding
- Sudden acceleration / breaking
- Entering a geofence
- Leaving a geofence
- Start of exceeding the speed threshold in the geofence
- End of exceeding the speed threshold in the geofence

Events from the **«Engine»** section:

- Ignition

  Ignition on

  Ignition off

- Power

  Turning on the power supply

  Switching to backup battery supply

  Restoring the main power supply

- Exceeding the allowed RPM value

Events from the **«Other»** section:

Notification settings

- Maintenance control

  Maintenance expected

  Maintenance overdue

- Panic button pressed
- Driver sign in
- Driver sign in
- Driver sign out
- Device tampering

Events from the **«Auxiliary equipment»** section:

- Auxiliary equipment switched on

  Auxiliary equipment no. 1, 2, 3, 4 switched on

- Start of the area of exceeding the allowed value for auxiliary equipment

  Exceeding the load on auxiliary equipment no. 1, 2, 3, 4

- End of the area of exceeding the allowed value for auxiliary equipment

  Stop exceeding the load on auxiliary equipment no. 1, 2, 3, 4

- Auxiliary equipment switched off

  Auxiliary equipment no. 1, 2, 3, 4 switched off

Events from the **«Routes»** section:

- Going beyond the route boundaries
- Visiting control points
- Start of the trip
- End of the trip

- Trip force stopped
- Trip did not take place

Events from the **«iQFreeze»** section:

- Changing the set-point temperature
- Setting the set-point temperature
- Door opening
- Door closing
- The temperature is outside of the tolerance range
- The temperature is back within the tolerance range
- Switching to increased RPM
- Switching to reduced RPM
- Refrigerator operation error
- Changing the refrigerator operating mode
- Data transfer interruption

Events from th **«TPMS»** section:

- Pressure drop in the tire
- Pressure rise in the tire
- Pressure restored
- Temperature rise in the tire
- Temperature normalized in the tire
- Sudden loss of pressure
- Possible axis geometry violation
- No data from the Tire Pressure Monitoring System

Events from the **«Save driving»** section:

- Movement with headlights off
- Movement with unfastened seatbelts

Notification settings

- Exceeding the maximum speed limit
- Exceeding the allowed speed limit
- Short-term exceeding of maximum speed limit
- Short-term exceeding of allowable speed limit
- Positive acceleration threshold exceeding
- Negative acceleration threshold exceeding
- Lateral acceleration threshold exceeding
- Vertical acceleration threshold exceeding
- Allowed turning speed exceeding
- Maximum turning speed exceeding
- Traffic violation. Overspeeding
- Continuous engine idle operation
- The engine operation threshold has been exceeded
- Movement with cold engine
- Movement with overheated engine
- Movement at decreased RPM
- Exceeding the allowed amount of time for movement at decreased RPM
- Movement at increased RPM

Events from the **«CAN»** section:

- Start of work is below the nominal values
- Start of work is at nominal values
- Start of work is above the nominal values

Notification settings

- SPN:

  Line-to-Line AB V

  AC Frequency

  Line-to-Line BC V

  Line-to-Line CA V

  Line-to-Neutral AC RMS V (Aver)

  Line-to-Neutral V (Phase A)

  Line-to-Neutral V (Phase B)

  AC Current A (Phase B)

  Line-to-Neutral V (Phase C)

  AC Current A (Phase A)

  AC Current A (Phase C)

  Real Power W (Total)

  Real Power W (Phase A)

  Real Power W (Phase B)

  Real Power W (Phase C)

  Reactive Power VAr (Phase A)

  Reactive Power VAr (Phase B)

  Reactive Power VAr (Phase C)

  Engine Oil Pressure

  Engine Coolant Temperature

  AC Current A (Aver.)

  Temperature of Oil

  Line-to-Line AC RMS V (Aver.)

Click on the **Selection of geofences** link to select the geofences in which you need to monitor the vehicle. Select one or more geofences for which event notifications will be generated.

«Outside of the selected geofences» – create a notification if an event has occurred

outside of the selected geofences.

For events in the sections “Fuel”, “Movement”, “Engine”, “Auxiliary equipment”, “Routes”, and “Other”, it is possible to take into account related events to cancel a notification.

In the **Take into account related events** section:

«Take into account related events»– enables/disables the option.

«Type of related event that cancels a notification»– select the event which, if recorded, will stop the notification from being sent out.

«Time between related events» – if the related events are recorded within this time, the notification will not be sent out.

Notification types and methods:

«Important» – a notification marked as “Important” will be displayed automatically. It will appear pink in the list.

- **«Display notifications in Omnicomm»** – display notifications in Omnicomm Online
- **«Send to Email»** – list of email addresses for receiving notifications
- **«SMS gateway»** – a list of numbers for receiving short notifications. There are short notifications only for the following types of events: refueling (tanking), draining, speeding, fuel level sensor failure. Short notifications are sent in English and must be less than 140 characters long. In short notifications, the vehicle location is displayed as coordinates

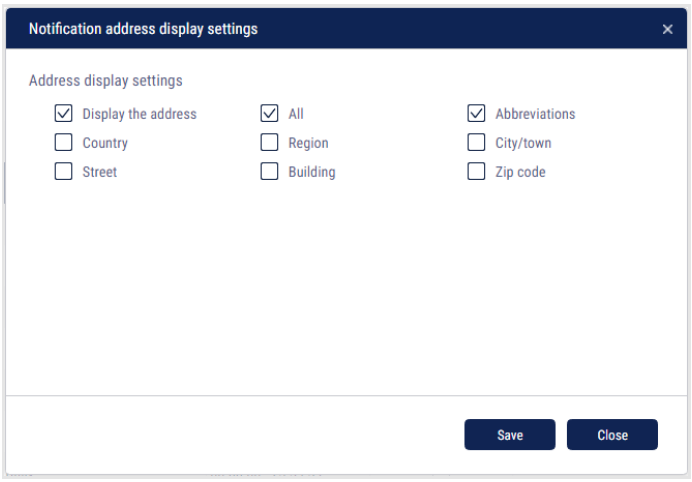
This setting is recommended if the email service includes sending an SMS copy of the messages to a specified phone number.

A sample of a short notification: Draining (92 characters) Asset: x000xx000 Time: 22-04-2015 11:40 PM Type: Draining 777 L Pos.: -15.7885, -137.5884

Click **«Save»**.

Address display configuration

Press the «**Address display configuration**» button. A window will open:



- Display the address - turn on to display the address of the current vehicle location
- All - turn on to display the complete vehicle address
- Abbreviations - turn on to abbreviate address parameters (such as st., ave.)

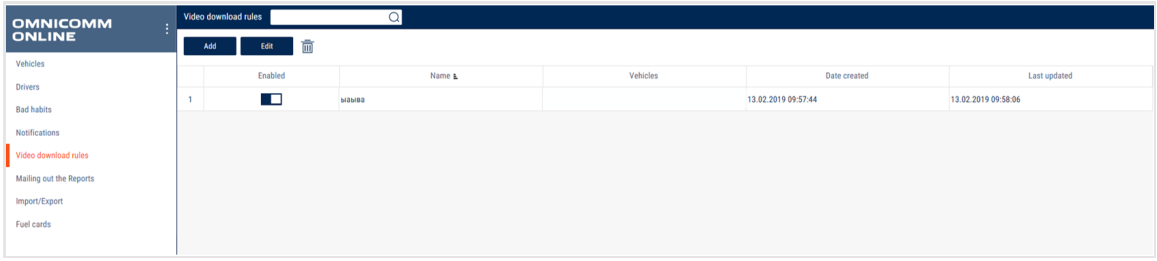
Select the parameters to display in the address:

- Country
- Region
- City/town
- Street
- No.
- Zip code

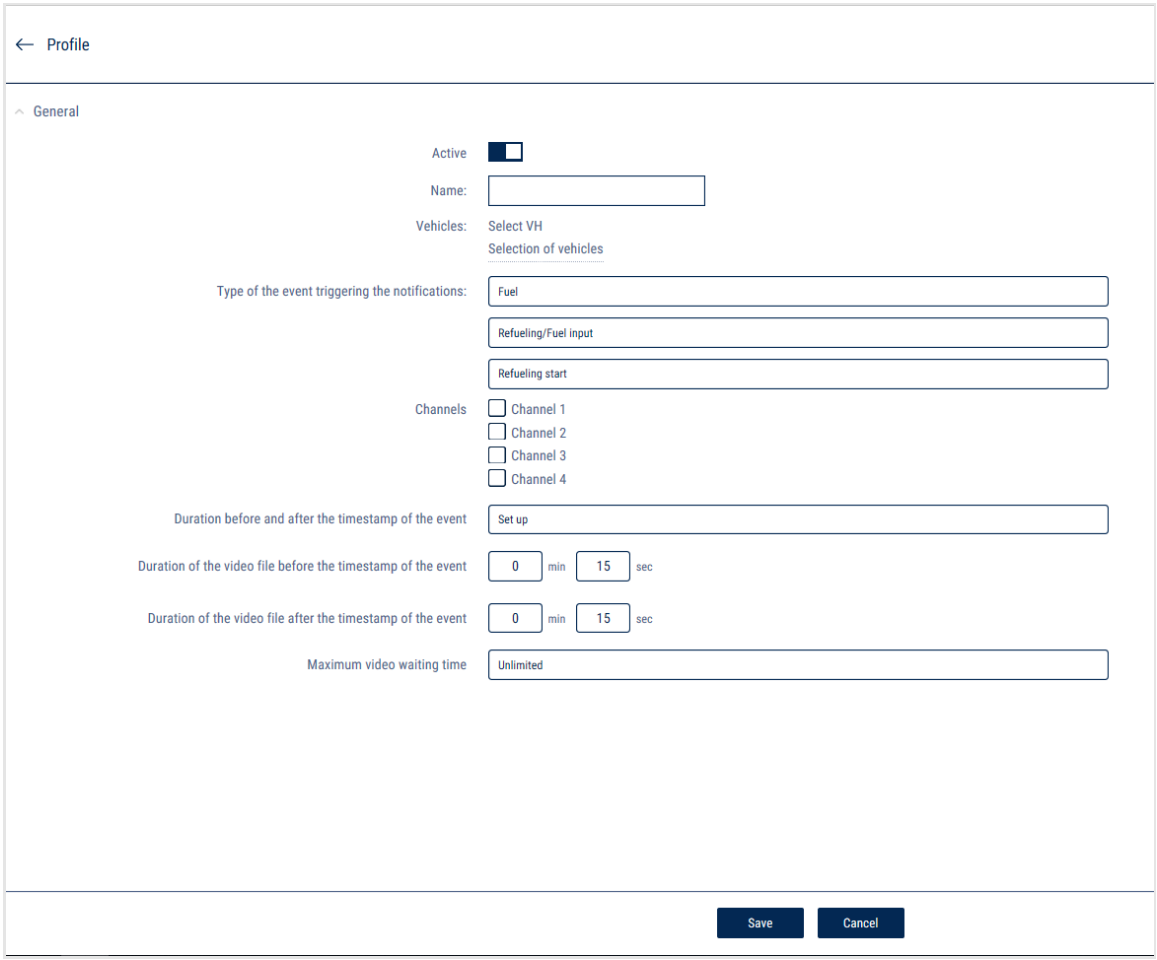
Configuration of rules for video download

In the «**Administration**» section, open the «**Rules for video download**» tab. A window will open:

Configuration of rules for video download



Click the **«Create»** button. A window will open:



«Active» – stop/start checking events.

«Name» – name of the task. The name of the task must be unique.

«Actuated» – select the video to be uploaded based on the event or schedule.

«Vehicles» – - select the vehicle(s). Click on the **Select vehicles** link. Select one or more groups of vehicles for which tasks will be generated based on the events.

«Event» – select the section, type, and parameter of the event. Possible options:

Events from the **«Fuel»** section:

Configuration of rules for video download

- Refueling / draining

    Start of refueling

    End of refueling

    Start of refueling during fuel dispensing

    End of refueling during fuel dispensing

- Draining

    Start of draining

    End of draining

    Start of draining during fuel dispensing

    End of draining during fuel dispensing

- Dispensing

    Start of dispensing

    End of dispensing

- LLS failure

    Start of LLS failure

    End of LLS failure

Events from the «**Movement** section:

- Standstill

    End of standstill (based on ignition status)

    End of standstill (not based on ignition status)

    Start of standstill (based on ignition status)

    Start of standstill (not based on ignition status)

    Change of standstill location

Configuration of rules for video download

- Exceeding the allowed speed

    Speed threshold exceeded briefly

    Start of exceeding the speed threshold

- Entering a geofence
- Leaving a geofence
- Stoppage

    Start of stoppage (based or not based on ignition status)

    End of stoppage (based or not based on ignition status)

- Exceeding the acceleration limit

    Start of exceeding the acceleration limit

    Acceleration limit exceeded briefly

- Start of exceeding the speed threshold in the geofence
- End of exceeding the speed threshold in the geofence

Events from the **«Engine»** section:

- Ignition

    Ignition on

    Ignition off

- Power

    Turning on the power supply

    Turning off the power supply

- Exceeding the allowed RPM value

    Start of exceeding the limit load on the engine

    Limit load on the engine exceeded briefly

Events from the **«Other»** section:

- Service authorization
- iButton presented
- Switching to the main power supply
- Panic button pressed
- Driver sign out
- Switching to the backup power supply
- Driver sign in
- Device tampering

Events from the **«Auxiliary equipment»** section:

- Auxiliary equipment switched on

    Auxiliary equipment 1, 2, 3, 4 switched on

- Start of the area of exceeding the allowed value for auxiliary equipment

    The auxiliary equipment 1, 2, 3, 4 is starting to exceed the limit threshold value

    The auxiliary equipment 1, 2, 3, 4 briefly exceeded the load limit

- End of the area of exceeding the allowed value for auxiliary equipment

    The auxiliary equipment 1, 2, 3, 4 is stopping to exceed the limit threshold value

- Auxiliary equipment switched off

    Auxiliary equipment 1, 2, 3, 4 switched off

Events from the **«iQFreeze»** section:

- Changing the set-point temperature
- Setting the set-point temperature
- Door opening
- Door closing
- The temperature is outside of the tolerance range
- The temperature is back within the tolerance range
- Switching to increased RPM
- Switching to reduced RPM
- Refrigerator operation error
- Changing the refrigerator operating mode
- Data transfer interruption

Events from the **«TPMS»** section:

- Pressure drop in the tire
- Pressure rise in the tire
- Pressure restored
- Temperature rise in the tire
- Temperature normalized in the tire
- Sudden loss of pressure
- Possible axis geometry violation
- No data from the Tire Pressure Monitoring System

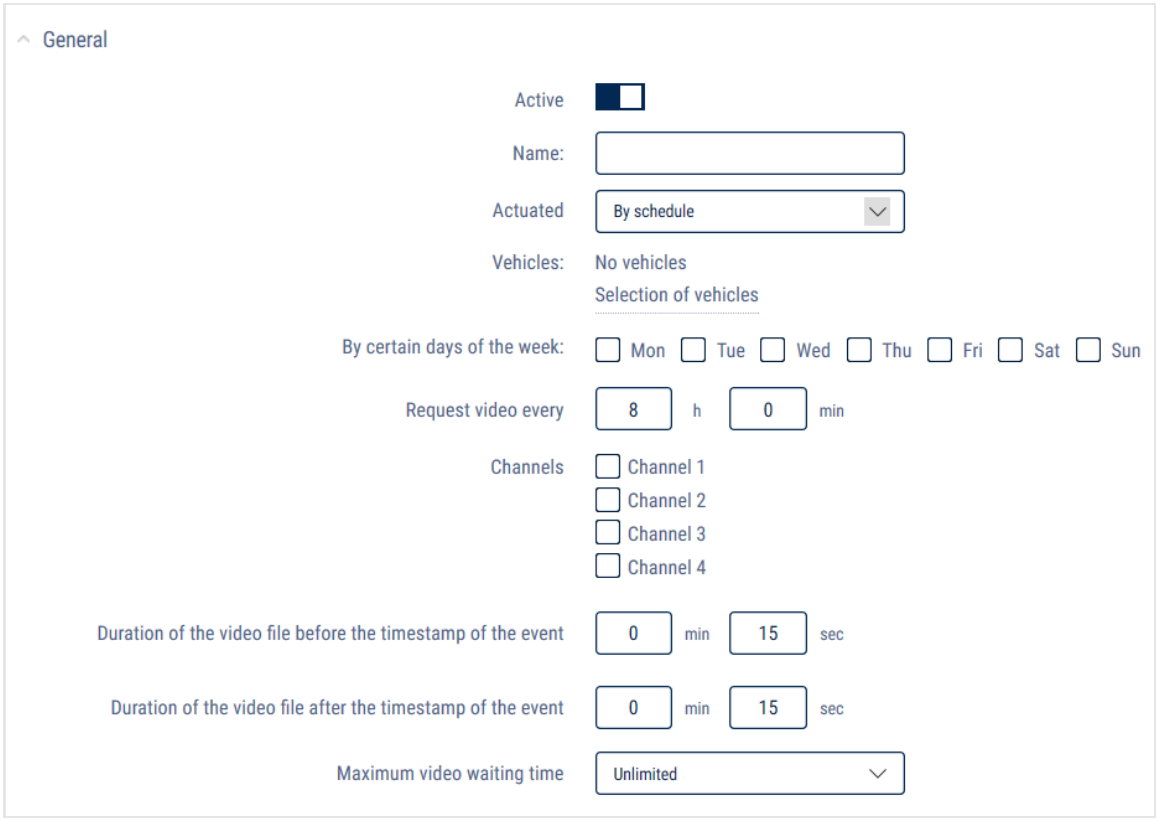
Events from the **«Save driving»** section:

- Movement with headlights off
- Movement with unfastened seatbelts
- Exceeding the maximum speed limit
- Exceeding the allowed speed limit
- Short-term exceeding of maximum speed limit
- Short-term exceeding of allowable speed limit

Configuration of rules for video download

- Positive acceleration threshold exceeding
- Negative acceleration threshold exceeding
- Lateral acceleration threshold exceeding
- Vertical acceleration threshold exceeding
- Allowed turning speed exceeding
- Maximum turning speed exceeding
- Traffic violation. Exceeding the speed limit
- Continuous engine idle operation
- Movement with cold engine
- Movement with overheated engine
- Movement at decreased RPM
- Movement at increased RPM
- No valid GPS data

When selecting to upload videos on a schedule:



“By days of the week” - select the days of the week on which you want to download video files.

“Request video every” - specify the frequency of requests.

“Channels” - select the cameras for which you wish to create a video download task.

“Length of the video file before the event timestamp”- specify the length of the video before the event is recorded.

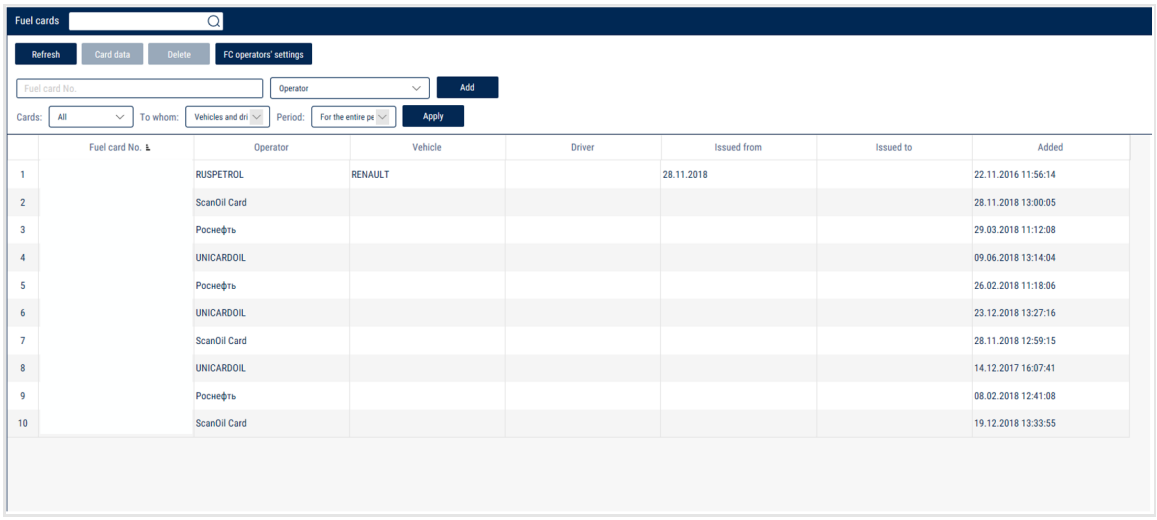
“Length of the video file after the event timestamp”- specify the length of the video after the event is recorded.

«Maximum video waiting time». Possible options:

- Unlimited – the video downloading task will wait for the execution for an unlimited amount of time
- Limited - specify the time after which the video download task will be automatically canceled

Fuel cards management

In the “Administration” section, open the **«Fuel cards»** tab. A window will open:



In the fuel card tab, a list of fuel cards with the following information will be displayed:

- **«Fuel card number»** – the number of the fuel card
- **«Operator»** – the company that issued the card
- **«Vehicle»** – the vehicle that the fuel card is assigned to

- **«Driver»** – the driver that the fuel card is assigned to
- **«Date of issue»** – the date when the fuel card was issued to the vehicle or to the driver
- **«Valid until»** – the card's expiry date for the vehicle or the driver
- **«Added»** – the date and time when the fuel card was added to Omnicomm Online

Adding

In the «Administration» section, open the «Fuel cards» tab.

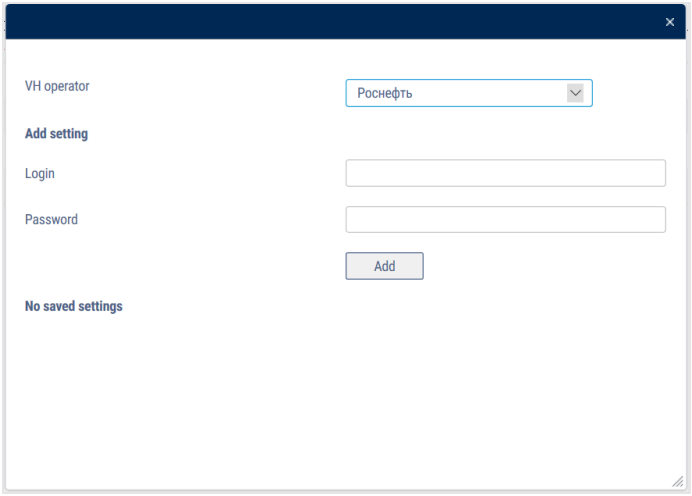
In the **«Fuel cards»** section, in the **«Operator»** field, select the operator's fuel company from the drop-down list.

In the **«Card number»** field, enter the 10-digit fuel card number.

The configuration is performed as follows, depending on the fuel operator:

1. Rosneft

- In the **"Fuel cards"/"Fuel card operator settings"**section, choose "Rosneft" from the "Fuel card operators" list



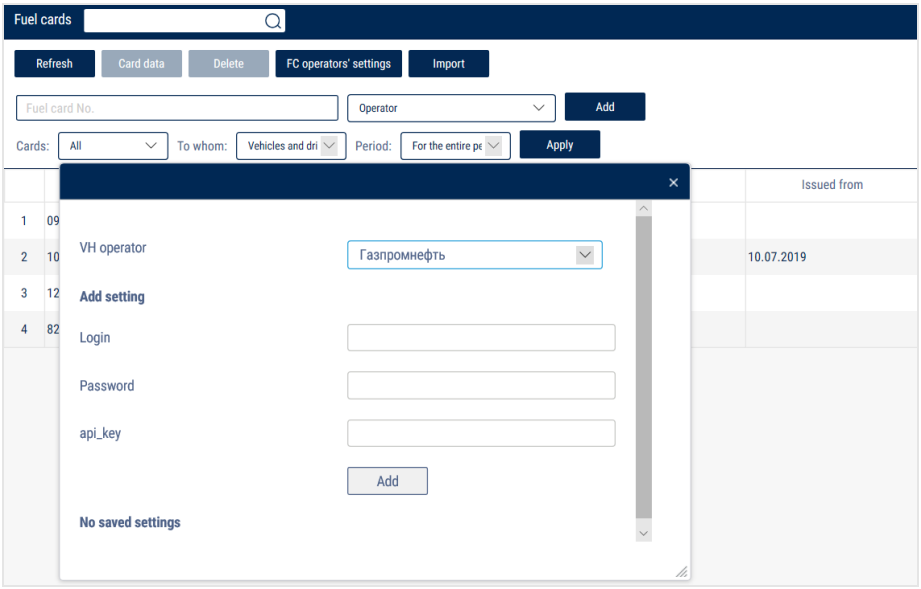
login/password - enter the login/password from your Rosneft personal account.

2. Gazpromneft

- Send a request to access the API to your Gazpromneft manager or on the website: https://api-promo.opti-24.com/
- Fill out the contract and pay the selected tariff. Recommended tariff: START

In the "IP-address" field, enter: 77.246.238.226, 185.9.185.83.

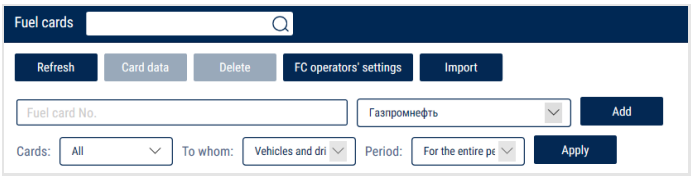
- A letter from Gazpromneft with API access data will be sent to the e-mail address specified in the contract.
- In the **“Fuel cards”**/**“Fuel card operator settings”**section, choose “Gazpromneft” from the “Fuel card operators” list



login/password - enter the login/password from your Gazpromneft personal account.

api_key – the key to access the API.

- Add the fuel card numbers:



For the following fuel operators, add the fuel card numbers:

3. PPR/Fleetcor (Vezdehod/Transit Card)

4. RUSPETROL

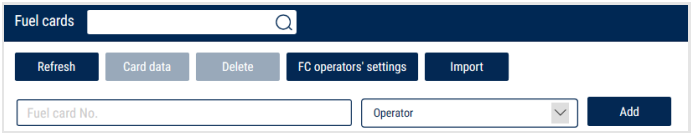
5. Avtomatika Plus

6. Shell

7. ScanOil Card

8. UNICARDOIL

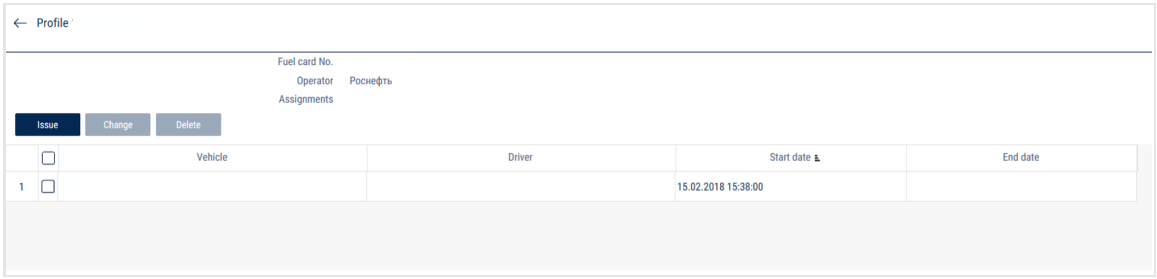
Fuel cards management



Assign a driver or a vehicle

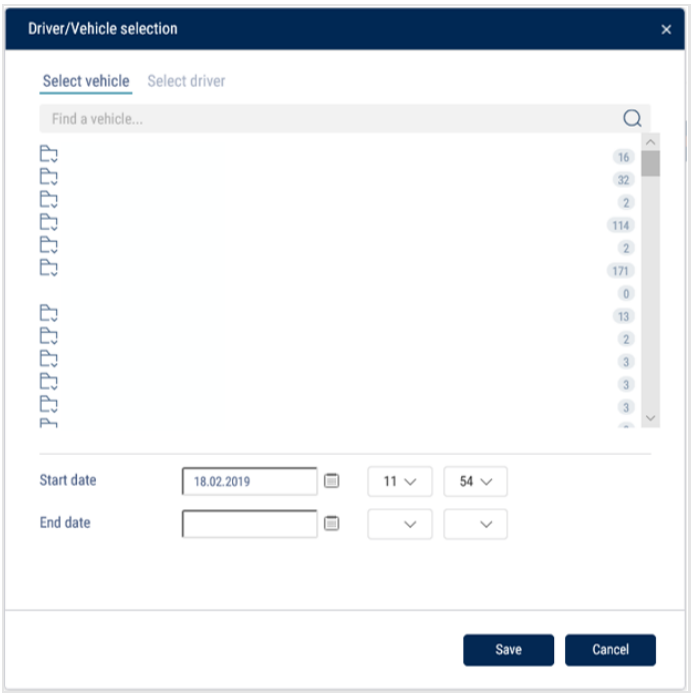
In the **«Administration»** section, open the **«Fuel cards»** tab. In the window that opens, choose the fuel card from the list and click the **«Card data»** button.

A window will open:



Select from the list the vehicle or the driver that you wish to issue the card to Click the **«Issue»** link or, if it is necessary to change the parameters of issue, click on the **Edit** link.

A window will open:



Click the **Select a Vehicle** or **Select a Driver** link, depending on who you need to issue the card to.

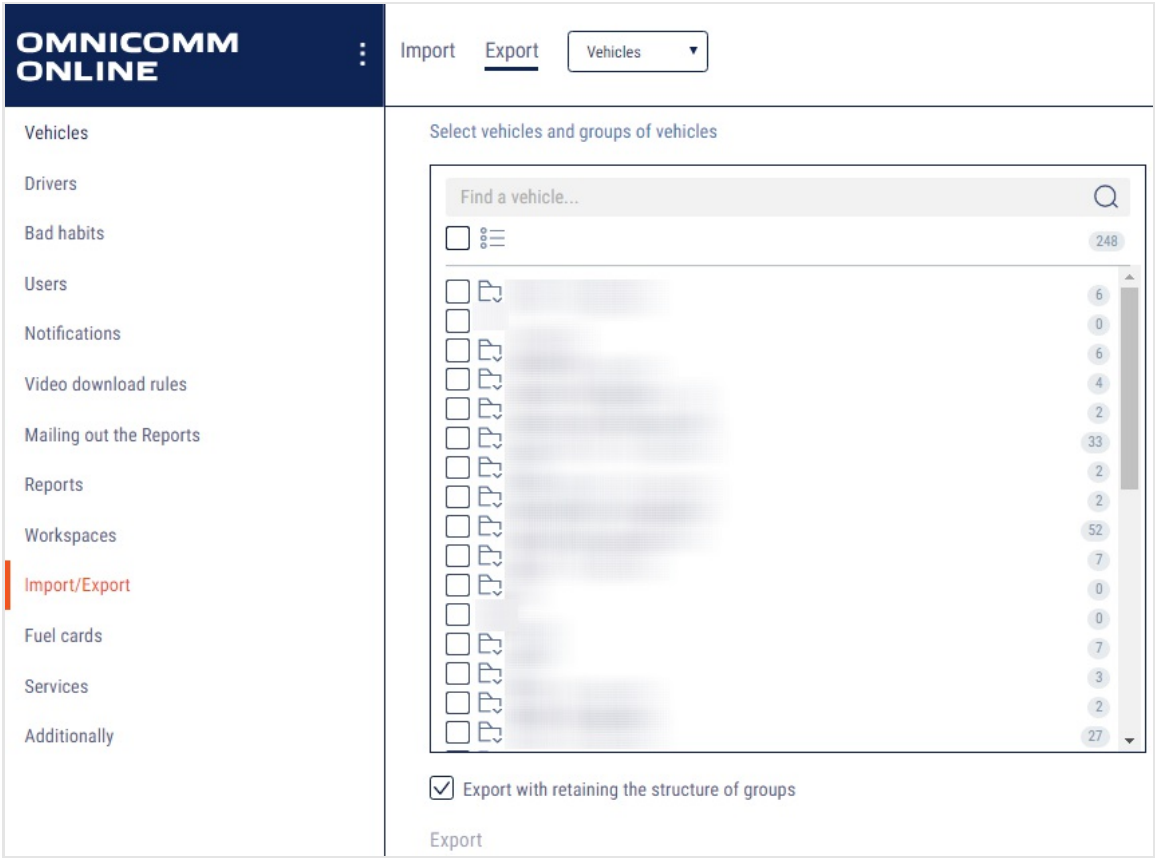
- **«Start date»** – specify the card's date and time of issue
- **«End date»** – specify the card's date and time of expiry

Click **«Save»**.

Exporting and importing objects, users, and notification settings

Only a dealer or a user with full access to imported/exported objects in Omnicomm Online may import and export objects.

In the **«Administration»** section, open the **«Import/Export»** tab:



Select the type of object that you wish to import/export. Possible options: vehicles, drivers, geofences, notification settings, or users.

Before importing the vehicles, create vehicle profiles using Omnicomm Configurator or use the available ones.

Select the export or import tab to download from or upload to Omnicomm Online.

«Export». Select one, several, or a group of objects that you wish to save to file from Omnicomm Online. For vehicles, drivers, and geofences it is possible to keep the structure of groups and subgroups of objects. To export objects and keep their structure, check the box **«Export and keep the structure»**. Click **«Export»**.

After the export, the selected groups of profiles will be saved into one archive, with their structure preserved. "WithStructure" will be added at the end of archive name. The name of the archive will be generated based on the type of exported objects and will contain

the time and date of objects export:

- **driversExport** – archive containing driver profiles
- **geozonesExport** – archive containing geofence profiles
- **rulesExport** – archive containing notification settings
- **userExport** – archive containing user profiles
- **routesExport** – archive containing route profiles
- **vehicleExport** – archive containing vehicle profiles

«Import». Click the **Select profile files** link and select the vehicle, driver, or geofence profiles or the notification settings to be uploaded to Omnicomm Online.

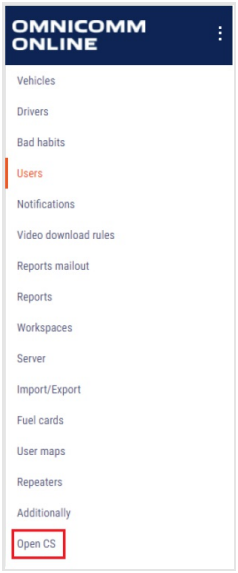
Depending on the type of imported object:

- When importing vehicles, drivers, or geofences, select the group of objects that the profiles will be uploaded to
- When importing notification settings, select the login details of the user for whom the notification settings will be added

It is possible to import geofences from third-party monitoring systems. File format: kml and MapInfo MIF.

Log into Conversion Server

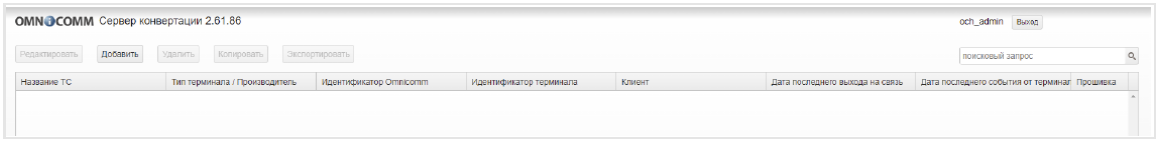
In the **"Administration"** section, open the «CS» tab.



Log into Conversion Server

Authorization in the conversion server will be done automatically under dealer credentials.

The main window of the conversion server will open:



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