OMNICOMM

Omnicomm Online

User Manual

09.10.2024

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Omnicomm Online

Introduction

Manual Overview

The user manual contains detailed description of operation with Omnicomm Online reports generated for the objects: vehicles (cars and fuel tankers), drivers, geofences and routes.

General Information

Omnicomm Online allows a user to control operation of vehicles and drivers using reports being its feature. To access Omnicomm Online you need only a PC connected to the Internet.

Processing and storage of the obtained data is performed on the basis of Omnicomm company resources.

Browsers recommended for work in Omnicomm Online: Google Chrome, Mozilla Firefox, Yandex Browser.

There are three types of users in the system:

User

- who generates reports on objects to which this user has a right of access
- performs addition, removal, editing of profiles, assignment and unassignment of drivers to/from VH
- performs setup and review of notifications
- performs import and export of objects

Partner (Dealer)

- creates users and it sets up rights of access
- performs import and export of objects, notifications and user settings
- manages objects list

Administrator

- performs partners (dealers) management
- is an employee of Omnicomm company

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

Authorization

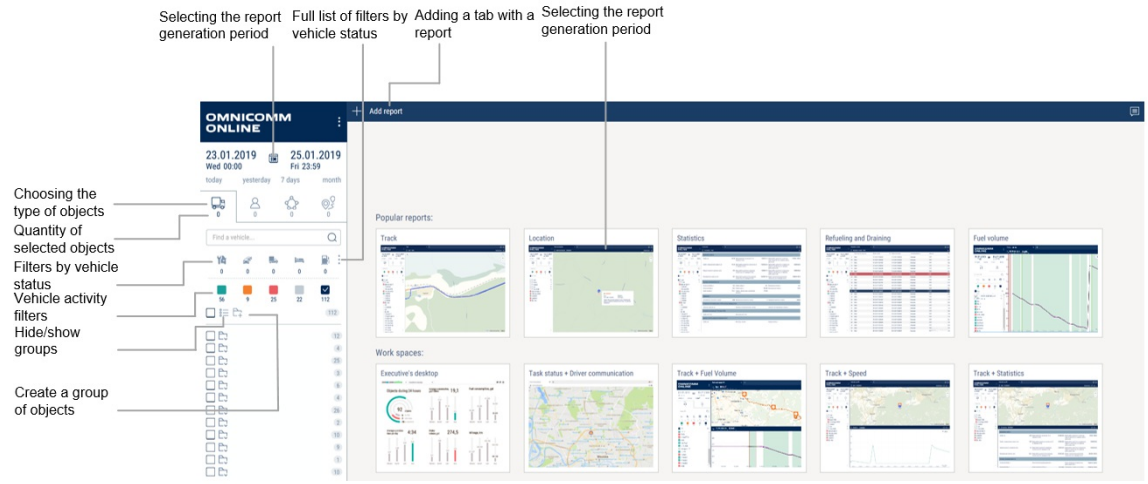
Open your browser and enter the address https://online.omnicomm.ltd/. A user authorization window will open:

Introduction

Partner's (Dealer's) **«Login»** and **«Password»** are to be obtained at Omnicomm Sales department.

When Omnicomm Online services are terminated, including when a client transfers their vehicles to a third-party service (Wialon, Avtograf, SCOUT, etc.), all actions described in the current User Manual and available after Login will become unavailable.

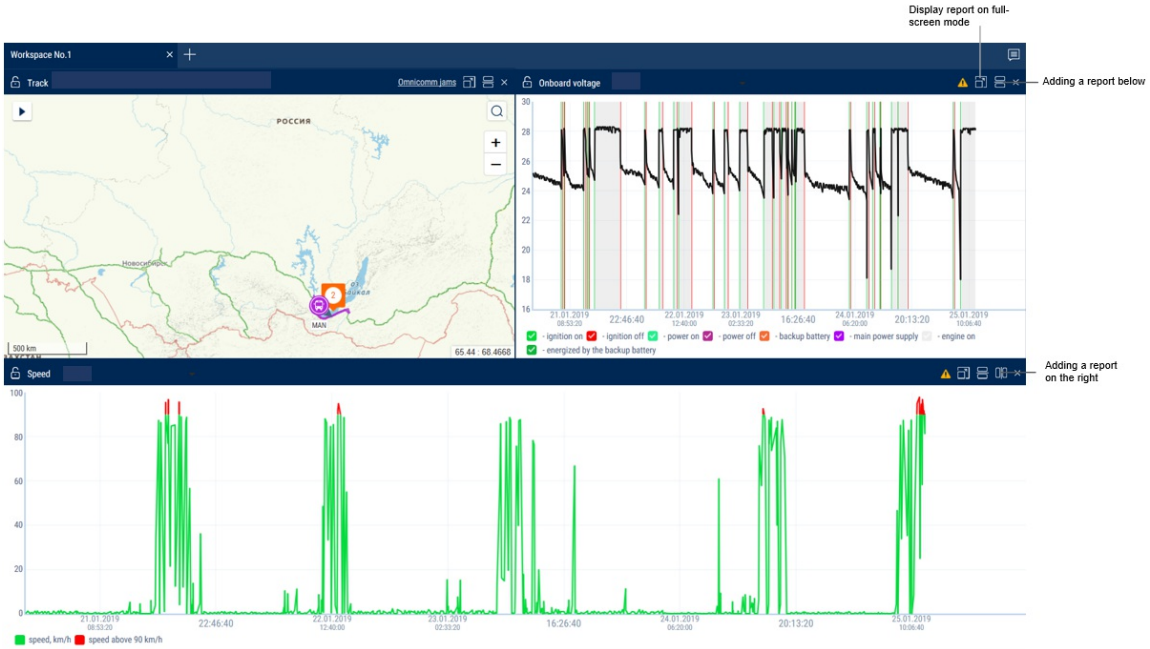
Operations with Reports



Workspace

There are two types of workspaces in Omnicomm Online:

- Executive's desktop is a report containing general information on all VH of the user. Description of the Executive's desktop is given in the “Reports” section
- Workspace is a combined set of related reports on the VH. Please see the example:



The maximum number of reports on the workspace:

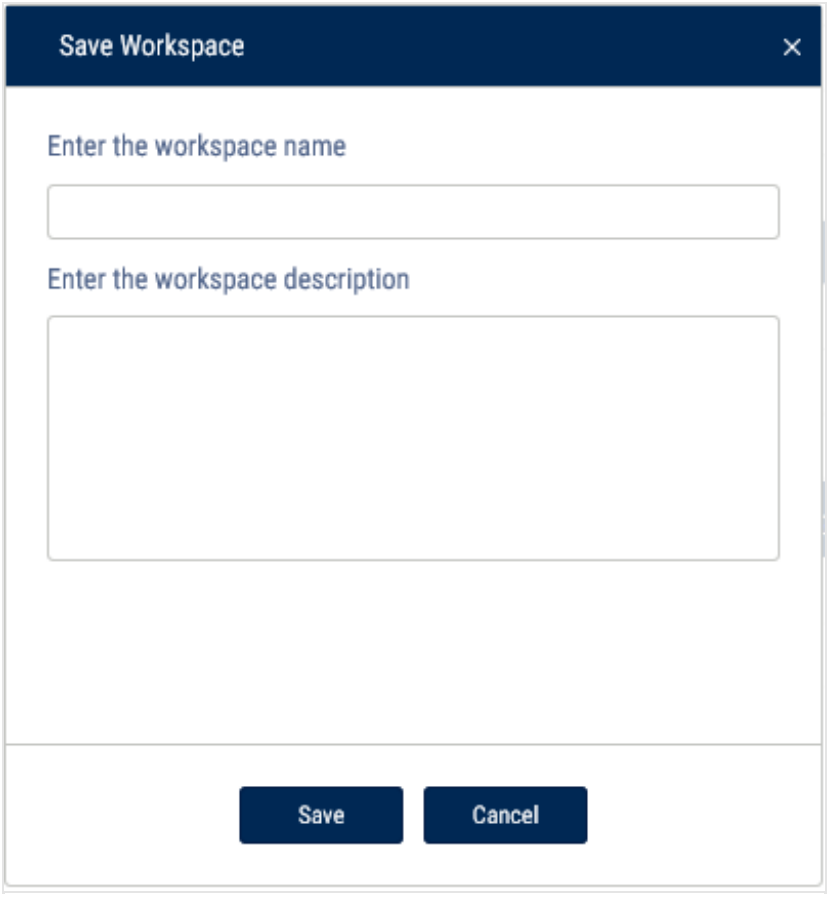
- 10 reports, each 1/2 of the desktop in size

- 20 reports, each 1/4 of the desktop in size

To save a user workspace:

1. Select a vehicle
2. Select reports to create a user workspace. User workspaces may not be based on “Fuel balance”, “Refueler Statement”, “Violation details”, “Driver rating” reports
3. Right-click the workspace tab and select “Save as”.

A window will open:



“Enter the workspace name” - enter the name that will be displayed in the list of workspaces. Maximum length: 255 characters.

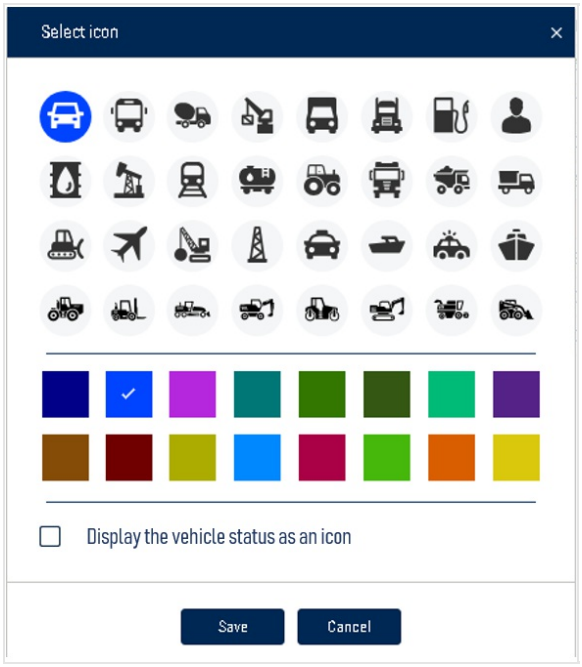
“Enter the workspace description” - enter a short description of the workspace reports. Maximum length: 1000 characters.

Workspace display settings can be modified in the “Administration” section, see Workspace display settings.

Setting of VH Icons

The vehicles are displayed as icons in the cartographic reports.

Select VH, for which it is required to set an icon, press the right mouse button and select “Select icon”.



Select icon, background icon and track color of VH.

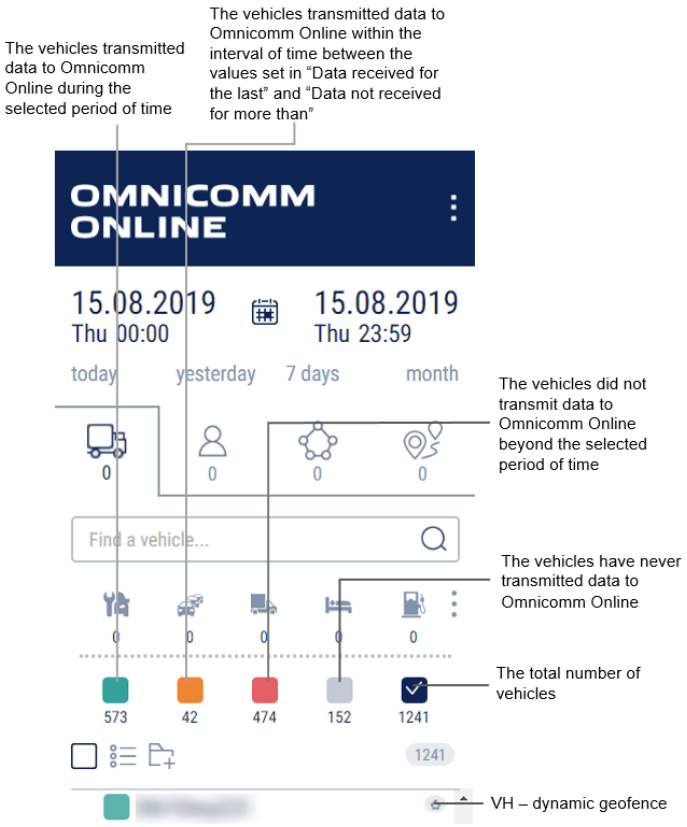
“Display the vehicle status as an icon”– put a check to display the vehicle status as an icon in the cartographic reports.

Click “Save”.

Settings of Objects Tree

The objects tree displays the list of VH, drivers, geofences or routes.

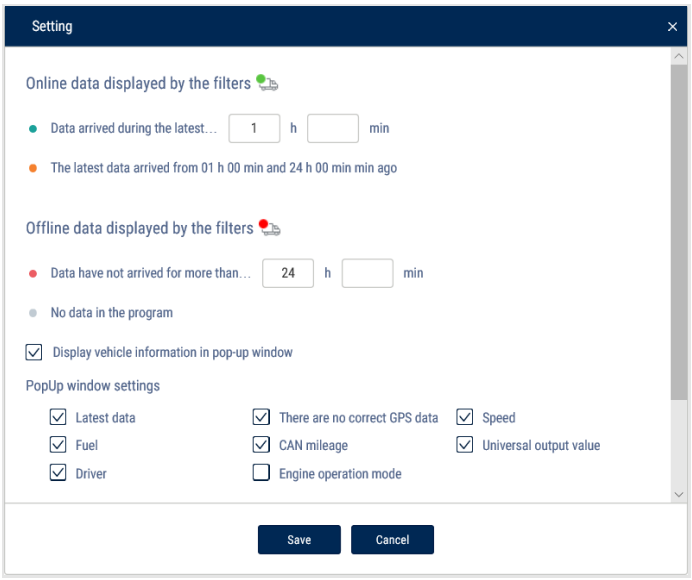
Operations with Reports



Vehicles will be displayed according to the selected activity filter.

The object tree configuration allows set up the parameters of the activity filters and pop-up information about the vehicle in the vehicle object tree and cartographic reports.

Hover over any vehicle/group of vehicles or activity filter, right-click and select "Settings".



In the "Online and Offline data displayed by the Filters" section:

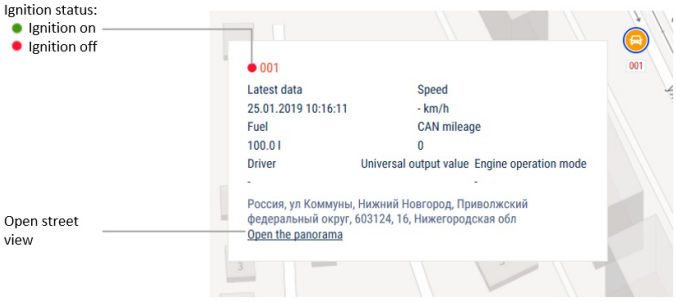
Specify the time intervals for receiving data from the terminals according to which the

vehicle's activity filters will operate

● Data arrived during the last	The marked vehicles' terminals transmitted data to Omnicomm Online within the set period of time
● The latest data arrived for period	The marked vehicles' terminals transmitted data to Omnicomm Online within the time interval between the set values “Data arrived during the last”” and “Data have not arrived for more than”
● Data have not arrived for more than	The marked vehicles' terminals have not transmitted data to Omnicomm Online beyond the set period of time
● No data in the program	The marked vehicles' terminals have never transmitted any data to Omnicomm Online

Setting of VH Pop-Up Information

Check the “Display vehicle information in pop-up window” box to display information on the vehicle in cartographic reports:



In the “Pop-Up Message Settings” section, select the information to display:

- Latest data - the date and time when the latest data was received from the vehicle are displayed in the “Location” report and in the vehicle tree. The date and time of the event are displayed in the “Track” report
- Correct GPS data absent – date and time when the latest valid GPS data was received. “GPS data not available from…” is displayed:

- if there is no valid GPS data for 60 seconds after the latest data was received (for the "Location" report and the vehicle tree)
- if the event point has invalid GPS data and the previous point has valid data (for the "Track" report)
- Speed - vehicle speed
- Fuel – fuel volume in the main and additional tank
- Total mileage as per CAN – total vehicle mileage according to CAN bus data
- Current auxiliary equipment readings - current value or status of the auxiliary equipment
- Driver – driver registered on the vehicle
- Engine operation mode - engine operation mode value. Possible values: idle operation or load. Displayed only in case of engine operation at the time when the pop-up information was generated.

In the "Setting up the address displaying" section, select:

- 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.)

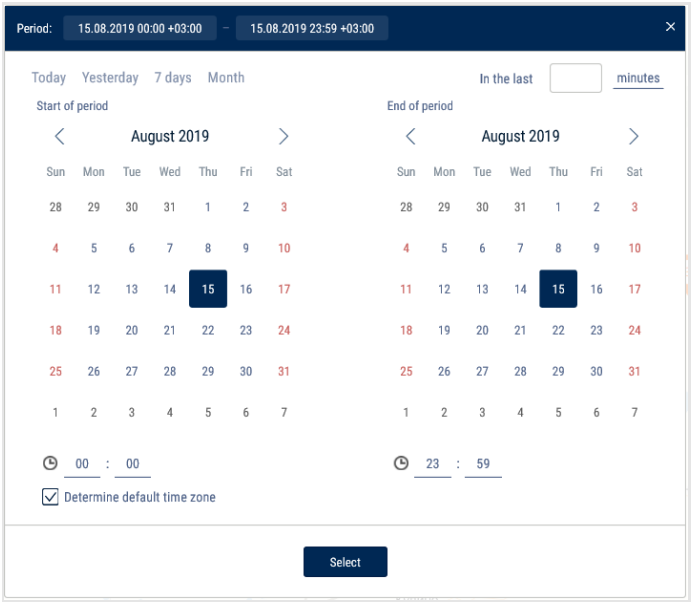
Select the parameters to display in the address:

- Country
- Region
- City/town
- Street
- Building
- Zip code

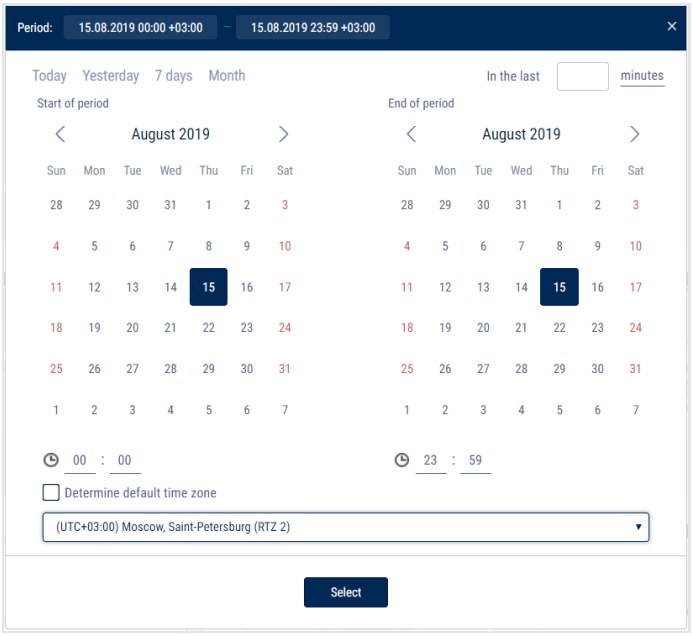
Selection of a Period for Report Generation

For reports that displays the current state of the vehicle, period selection is not available.

In the "Reports" window select a period for report generation.



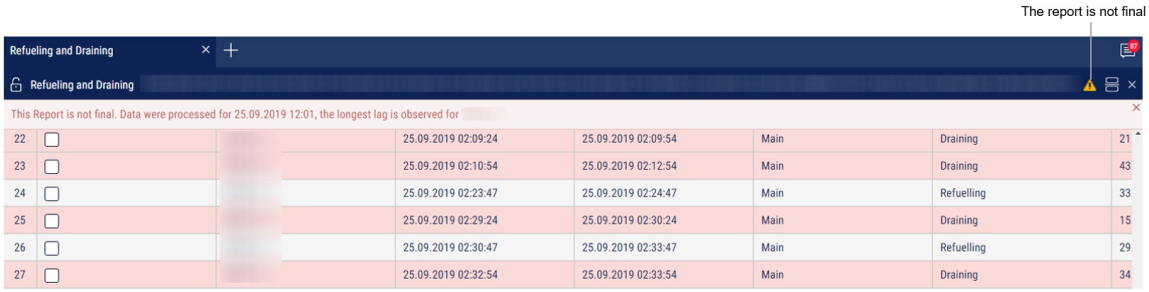
"Determine default time zone" - check the box to use your computer's time zone when generating the report. If the option is disabled, select the required time zone from the list:



If a selected period includes a period of blocking, the report will not be generated. Select another period for report generation.

In case VH data recalculation for the period of report generation is not finished, the report will display information on a period of the processed data included in the report:

Operations with Reports



To display a final report on all data of the period of report generation, wait for VH data recalculation to be completed and refresh the report.

Report Pin-Up

Select an object from the list for which it is required to generate report or change a period of report generation. If it is required, pin the report memorized.

	Unpinned report. If another object or period is chosen, the report will be automatically rebuilt.
	Pinned report. If another object or period is chosen, the pinned up report will not change.

User Reports

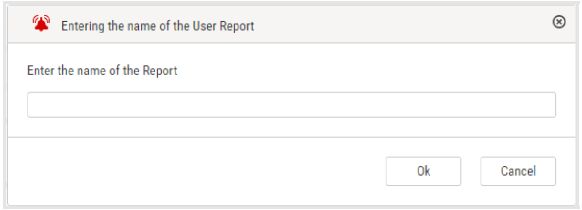
User reports are based on the standard reports with the possibility of displayed parameters setup.

Custom reports are located in the list of reports below the reports from which they were created.

To create a user report do the following:

1. Select an object, for which it is required to create a user report
2. Press “Add report” button and select a report
3. Choose information to be displayed in the report. Press button “Save as”

The window will open in which it is required to enter a user report name:



Access Reports via a Link

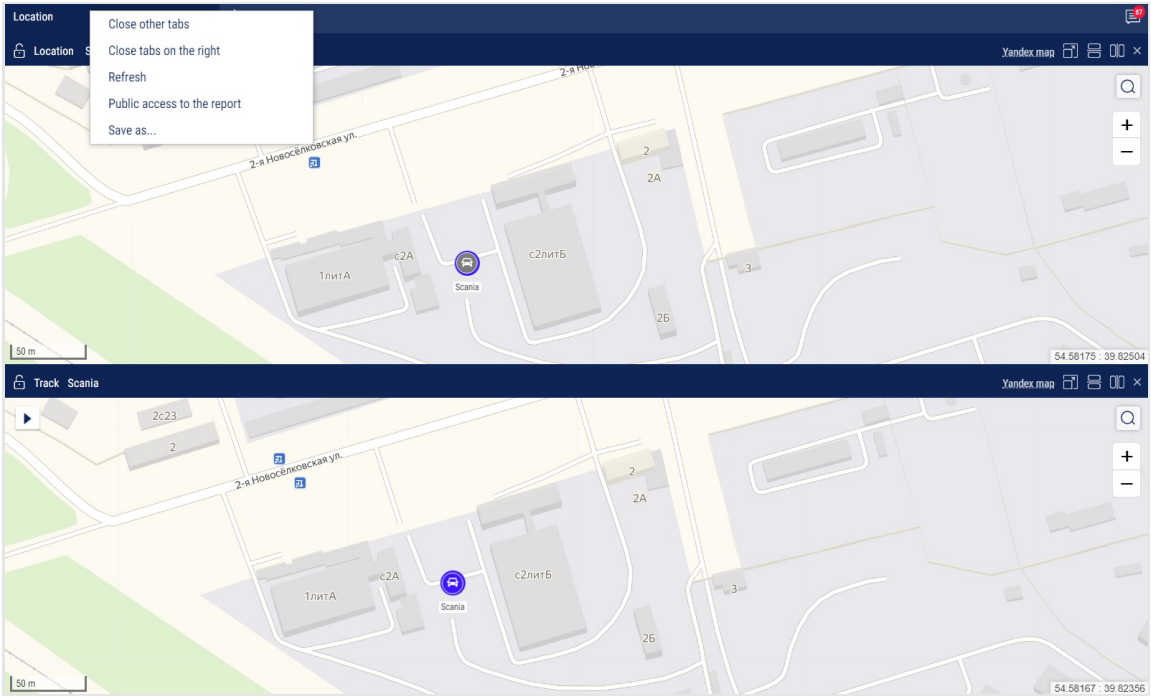
The “Location”, “Track”, “SafeDrive: Violation Details”, “SafeDrive: Driver Rating” reports, as well as a workspace based on these reports can be accessed via a shared link without the need for authorization in Omnicomm Online.

> To get link creation rights, contact the Omnicomm technical support team at suport@omnicomm-world.com.

Sharing a link with a user:

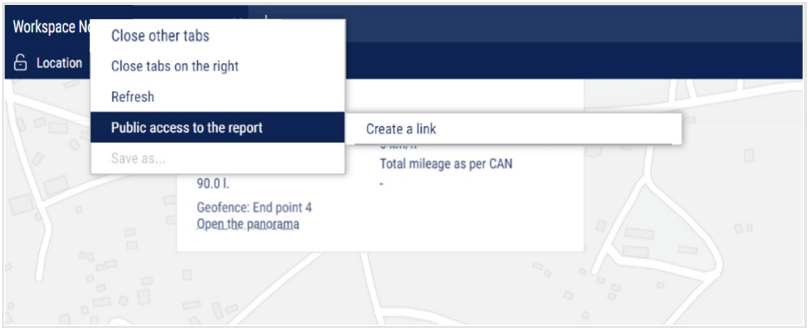
1. Select a vehicle
2. Select a time period for which you wish to build a report or workspace reports
3. Click the “Add report” button and select a workspace, a “Track” or a “Location” report, “SafeDrive: Violation Details” or “SafeDrive: Driver Rating”

The program window will display the workspace or one of the reports. Right-click the workspace tab or the report name:

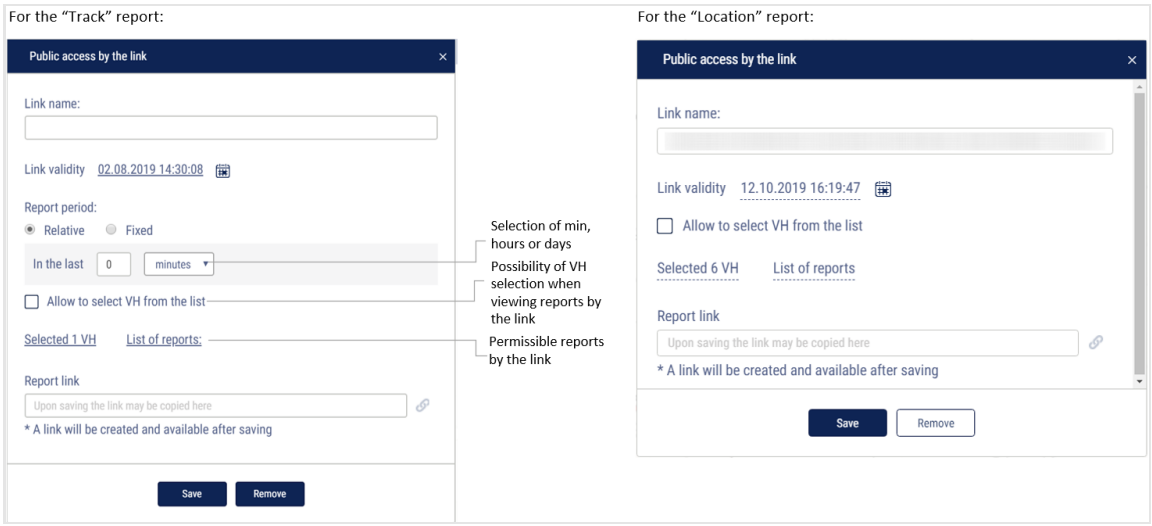


Select “Public access by the link” / “Create a link”:

Operations with Reports



A window will open:



"Link name" - enter the link name that will be displayed in the link menu.

"Link validity" - specify the date and time until which the link will be valid for viewing the reports.

In the "Data availability period" (except the Location report):

The period selection is not available for the Location report. The report is generated according to the latest relevant data of the vehicle.

"Relative" - select to count the time from the current moment.

- "In the last" - specify the time for which you want to generate reports

"Fixed" - select this option if the period of report generation is limited by calendar dates.

- "Allow to modify data period within the range" - check the box to allow changing the report period within the selected calendar dates

"Available reports" - workspace reports. Possible options: Track, Location, Fuel Volume, Refueling and Draining, Visiting the Geofences, MultiTank: Fuel volume in the tanks, SafeDrive: Violation Details, SafeDrive: Driver Rating.

Click “Save” to automatically save the report access link to the clipboard and display it in the “Report Link” field.

The created links will be saved and displayed in the “Public access by the link” menu.

To edit or delete a link, select it from the “Public access by the link” menu. You can edit the link parameters in the window that opens.

Reports

Executive's Desktop

The Executive's Desktop is a report containing overall information on all VHs of a user regardless of the VH selected.

Click the “Add” report button and select “Executive's desktop”.

The report data are updated once in 30 minutes.

“Objects during 72 hours” – is a quantity of the user's VH on Omnicomm Online during the last 72 hours:

- “No data” – a number of VH on which the data are absent

- "With draining" – a number of VH on which a draining was identified
- "No deviations" – a number of VH on which the data were not received or a draining was not identified

"Average consumption, l/100 km" – an average consumption on all VH of the user. It is calculated with the indicators from this report by the formula: Fuel consumption/Mileage * 100

"Fuel consumption, l" – a total fuel consumption for all VH.

Predicted value is calculated as of the end of month proportionally to the current value. It is not displayed with the current consumption of less than 100 liters.

"Average operation time during a day"– an average number of hours of all VH during the day.

"Draining volume, l" – a total volume of drains for all VH.

"Mileage, km" – a total mileage for all VH of a user. The values are rounded up to the nearest whole number (1 km).

The predicted value is calculated as of the end of month proportionally to the current value. It is not displayed with the current mileage less than 1000 km.

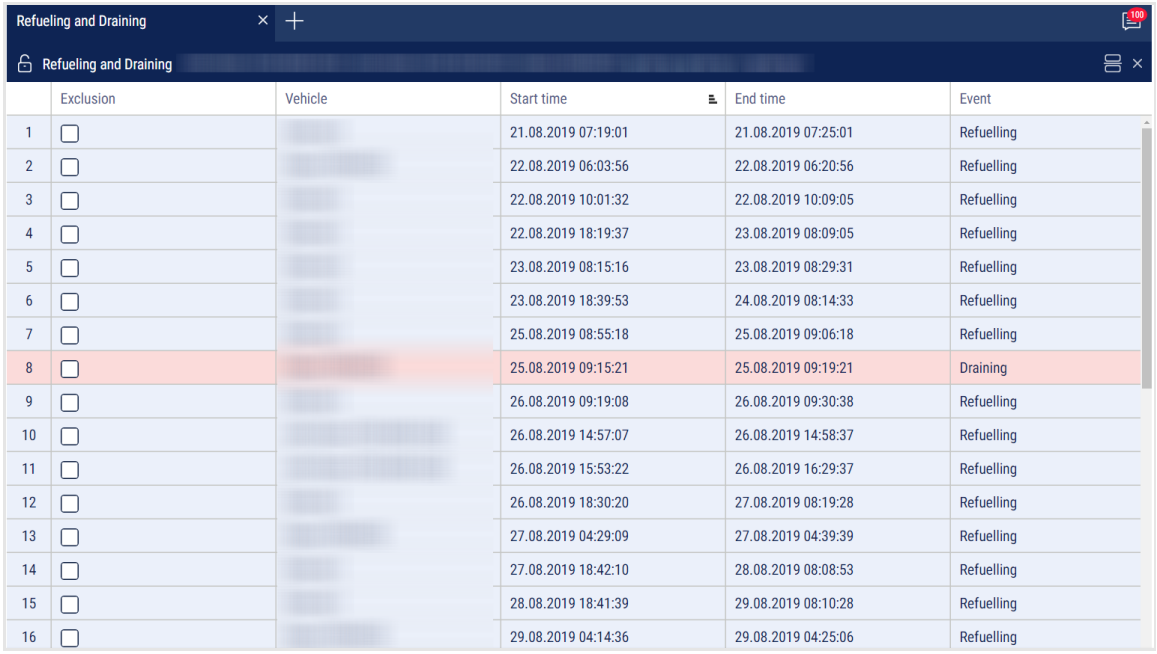
The values for the current month are displayed after the set number days from the month beginning. The time shall be set by the web-site administrator, the default value is 7 days.

Fuel

Refueling and Draining

1. Select one or several objects
2. Select a period of time for report generation
3. Press the button "Add report" and select "Refueling and draining"

Reports



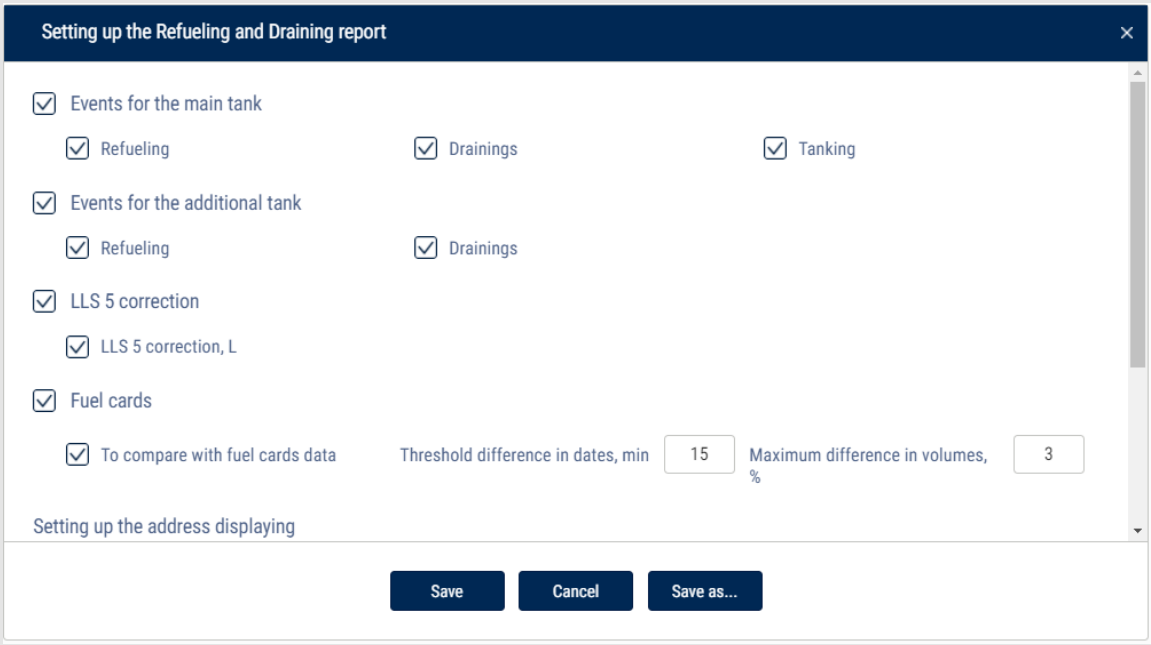
	Exclusion	Vehicle	Start time	End time	Event
1	☐		21.08.2019 07:19:01	21.08.2019 07:25:01	Refuelling
2	☐		22.08.2019 06:03:56	22.08.2019 06:20:56	Refuelling
3	☐		22.08.2019 10:01:32	22.08.2019 10:09:05	Refuelling
4	☐		22.08.2019 18:19:37	23.08.2019 08:09:05	Refuelling
5	☐		23.08.2019 08:15:16	23.08.2019 08:29:31	Refuelling
6	☐		23.08.2019 18:39:53	24.08.2019 08:14:33	Refuelling
7	☐		25.08.2019 08:55:18	25.08.2019 09:06:18	Refuelling
8	☐		25.08.2019 09:15:21	25.08.2019 09:19:21	Draining
9	☐		26.08.2019 09:19:08	26.08.2019 09:30:38	Refuelling
10	☐		26.08.2019 14:57:07	26.08.2019 14:58:37	Refuelling
11	☐		26.08.2019 15:53:22	26.08.2019 16:29:37	Refuelling
12	☐		26.08.2019 18:30:20	27.08.2019 08:19:28	Refuelling
13	☐		27.08.2019 04:29:09	27.08.2019 04:39:39	Refuelling
14	☐		27.08.2019 18:42:10	28.08.2019 08:08:53	Refuelling
15	☐		28.08.2019 18:41:39	29.08.2019 08:10:28	Refuelling
16	☐		29.08.2019 04:14:36	29.08.2019 04:25:06	Refuelling

For vehicles equipped with video recording terminals:

	The video is available for viewing. Click on the icon to view the video.
	Video available for order.
	Video requesting in progress.

Select the information to be displayed in the report pressing the right mouse button and choosing “Report settings”:

Reports



For the primary tank of the refueler, tanking and draining are displayed, for the additional tank – refueling and draining.

Exception of the events from the report is allowed for the primary tank of the vehicle.

In the section “LLS 5 correction”: “LLS 5 correction, L” - turn on to display the difference in the volume of the filled fuel based on the results of the correction.

In section fuel cards specify the following:

“Compare with fuel cards data” — turn on to compare fuel volume filled in VH in accordance with Omnicomm Online data with fuel card data.

“Threshold difference in dates, min” — specify allowed difference in date and time of refueling between Omnicomm Online and fuel card data.

The default value is 15 min.

“Maximum difference in volumes, %” — specify allowed difference in the volume of fuel filled in between Omnicomm Online and fuel card data. The default value is 3%. There is an opportunity to apply color indication and data fit. To turn on color indication, select “Highlight operations with color”.

With turned-off “To compare with fuel cards data” parameter:

- White background of the line is for refueling
- Red background is for fuel draining
- Gray background of the line is an excepted event of draining or refueling

With turned-on “To compare with fuel cards data” parameter:

Reports

Green background of line means a volume of refueling according to Omnicomm Online data corresponds to refueling volume according to a fuel card taking into account values of parameters “Threshold difference in dates, min” and “Maximum volume difference, %”;

- Red background is for fuel draining
- Blue background of line means refueling has been performed without a fuel card or refueling according to Omnicomm Online does not correspond to fuel card data (considering the value of “Threshold difference in dates, min” and “Maximum volume difference, %” parameters)
- Gray background of the line is an excepted event of draining or refueling

With turned-on display excepted events are displayed on grey line background with ticked “Exception”. Press the button “Apply”.

In the program window, the list of refueling and draining within the selected period will be displayed.

In the “Setting up the address displaying” section, select:

- 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
- Building
- Zip code

The report contains the following data::

- Volume, start and end time of refueling/draining according to Omnicomm Online data
- Fuel capacity (main or auxiliary)
- Event (draining or refueling)

- Exception tick if it is required to except draining or refueling from the report. This feature is available only to users to whom appropriate rights are assigned. Press the button “Apply”
- Date/time of fuel card transaction: date and time of refueling according to the fuel card data
- Volume of fuel card data refueling — the volume of refueling according to fuel card data
- Difference, l — the difference in the volume of fuel filled in between Omnicomm Online and fuel card data.

It is calculated by the formula:

Difference, l = Volume according to fuel card data - (minus) Volume according to Omnicomm Online

- Difference, % is difference in volume of fuel filled in between Omnicomm Online and fuel card data. It is calculated by the formula:

Difference, % = (Volume according to the fuel card data - (minus) Volume according to Omnicomm Online)/(Volume according to the fuel card data)*100%

- LLS5 correction, L - a difference of filled fuel volume according to corrected result

If the correction value exceeds the Correction coefficient, set in vehicle profile, the marker is displayed

- The address where the start of draining or refueling was performed.

To cancel the exclusion, untick the box and press the “Apply” button.

Upon changing of fuel parameters in VH profile and data recalculation the excepted events won't be returned.

Fuel Volume

1. Select a vehicle
2. Select a period of time for report generation
3. Press the button “Add report” and select “Fuel volume”

In the program window, a report on fuel volume in the tank of VH for the selected period of time will be displayed.

In case there are two tanks installed in the VH, report on the fuel volume will be displayed for each tank:

Select the information to be displayed in the legend:

- Green line is time of ignition turn-on
- Red line is time of ignition turn-off
- Gray background of the diagram is an engine working period
- White background is a period of time during which the engine did not work
- Pink background is a period of time during which a failure of the LLS fuel level sensors took place
- Gray diagram is a diagram based on “raw” data
- Black color in the diagram is a diagram based on the processed data

If necessary, increase the diagram scale. Select a part of the diagram, to be increased by holding the left mouse button.

To return to the original scale of the diagram refresh the report.

To display a pop-up tip with an accurate value of the fuel volume select a required spot in the diagram with a mouse pointer.

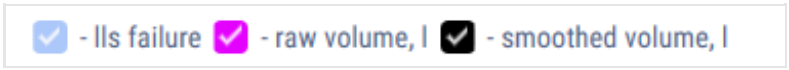
Fuel Volume (engine hours)

1. Select a vehicle

2. Select a period of time for report generation
3. Press button “Add report” and select “Fuel volume” (engine hours)»

In the program window the report on VH consumption during engine operation will display:

Select the information to be displayed in the legend:



The following color designations are used in the report:

- Purple graph color - the graph is generated on raw data
- Black graph color - the graph is generated on “smoothed” data

If necessary, increase a diagram scale. Select a part of the diagram to be increased holding the left mouse button.

Fuel Dispensing

1. Select a refueler
2. Select a period of time for report generation
3. Press button “Add report” and select “Fuel dispensing”

In the program window the report on fuel dispensing by fuel tanker will be displayed:

Reports

	Vehicle	Start time	End time	Volume, l
1		04.06.2019 01:27:19	04.06.2019 01:30:04	262.99
2		04.06.2019 01:41:04	04.06.2019 01:42:34	174.22
3		04.06.2019 02:45:19	04.06.2019 02:46:34	102.29
4		04.06.2019 03:32:34	04.06.2019 03:36:49	399.52
5		04.06.2019 04:02:09	04.06.2019 04:07:39	463.51
6		04.06.2019 04:23:09	04.06.2019 04:25:54	228.94
7		04.06.2019 04:33:54	04.06.2019 04:35:24	138.95
8		04.06.2019 04:52:39	04.06.2019 04:53:39	105.68
9		04.06.2019 05:41:39	04.06.2019 05:42:54	119.52
10		04.06.2019 05:45:54	04.06.2019 05:48:39	246.47
11		04.06.2019 05:51:24	04.06.2019 05:53:09	172.39
12		04.06.2019 05:56:24	04.06.2019 05:58:39	196.30
13		04.06.2019 06:09:39	04.06.2019 06:11:39	185.00
14		05.06.2019 02:30:41	05.06.2019 02:32:41	208.16
15		05.06.2019 03:06:41	05.06.2019 03:09:41	297.36
16		05.06.2019 03:13:11	05.06.2019 03:16:26	295.06
17		05.06.2019 03:18:56	05.06.2019 03:21:11	226.23
18		05.06.2019 03:43:11	05.06.2019 03:46:56	372.14
19		05.06.2019 04:05:11	05.06.2019 04:06:56	123.47

The report contains the following information:

- Total volume of fuel dispensed for the selected period, (l)
- Fuel dispensing start/end time, (dd/mm/yyyy hh:mm:ss)
- Volume of dispensed fuel, (l)

Fuel Dispensing, Tanking and Draining from Tank

1. Select a refueler
2. Select a period of time for report generation
3. Press the button “Add report” and select “Fuel dispensing, tanking and draining”

In the program window fuel tanker report will be displayed:

	Vehicle	Operation	Start	End Date	Initial volume, l	Final volume, l	Tanking, l	Dispensing, l	Drain
1		Dispensing	13.08.2019 01:00:16	13.08.2019 01:01:16	11235.4	11200.1	0.0	102.31	0.0
2		Tanking+Dispensing	13.08.2019 01:09:01	13.08.2019 01:12:46	11189.8	-	0.0	364.42	0.0
3		Tanking+Dispensing	13.08.2019 01:15:16	13.08.2019 01:17:31	-	-	0.0	224.54	0.0
4		Tanking+Dispensing	13.08.2019 01:20:31	13.08.2019 01:23:31	-	-	0.0	265.95	0.0
5		Tanking+Dispensing	13.08.2019 01:28:16	13.08.2019 01:30:01	-	-	0.0	146.20	0.0
6		Tanking+Dispensing	13.08.2019 01:33:01	13.08.2019 01:37:01	-	-	0.0	333.21	0.0
7		Tanking+Dispensing	13.08.2019 01:37:16	13.08.2019 01:37:31	-	-	0.0	2.64	0.0
8		Tanking+Dispensing	13.08.2019 01:42:16	13.08.2019 01:44:01	-	10579.3	871.3	144.89	0.0
9		Dispensing	13.08.2019 01:56:16	13.08.2019 01:58:16	10523.4	10379.5	0.0	191.60	0.0
10		Dispensing	13.08.2019 04:17:38	13.08.2019 04:19:53	9774.8	9617.9	0.0	201.63	0.0
11		Dispensing	13.08.2019 04:53:23	13.08.2019 04:55:38	9596.5	-	0.0	167.61	0.0
12		Dispensing	13.08.2019 04:57:08	13.08.2019 04:58:49	-	9401.7	0.0	135.17	0.0
13		Dispensing	13.08.2019 08:26:58	13.08.2019 08:29:43	9345.9	-	0.0	236.43	0.0
14		Dispensing	13.08.2019 08:33:28	13.08.2019 08:35:58	-	-	0.0	203.10	0.0
15		Dispensing	13.08.2019 08:38:43	13.08.2019 08:42:28	-	8677.5	0.0	360.04	0.0
16		Dispensing	13.08.2019 08:51:13	13.08.2019 08:54:58	8652.0	-	0.0	336.28	0.0
17		Dispensing	13.08.2019 08:58:28	13.08.2019 08:59:58	-	-	0.0	156.73	0.0
18		Dispensing	13.08.2019 09:02:43	13.08.2019 09:04:43	-	-	0.0		0.0

The report is provided with a feature allowing to sort the list by operation, start and end time of operation.

Reports

The report contains the following general information:

- Initial volume, (l) is the volume of fuel in the tank at the start of the selected period
- Final volume, (l) is the volume of fuel in the tank at the end of the selected period
- Increase of dispensing volume over tanking volume, (l) or potential draining, (l) is the difference between readings of LLS Fuel level sensor and counter is calculated by the formula:

“Difference between readings” = “Initial volume” - “Final volume” + “Volume of tanking” – “Volume of draining” - “Volume of dispensing”.

If the value “Difference between readings” is less than zero, the parameter “Excess of dispensing volume over tanking volume, l”.

If value “Difference between readings” is less than one of maximum values: “Fuel draining threshold”, “Refueling threshold”, “1% of fuel tank volume” or “20 liters”, Omnicomm Online assumes “Increase of dispensing volume over tanking volume, (l)” to be equal to zero.

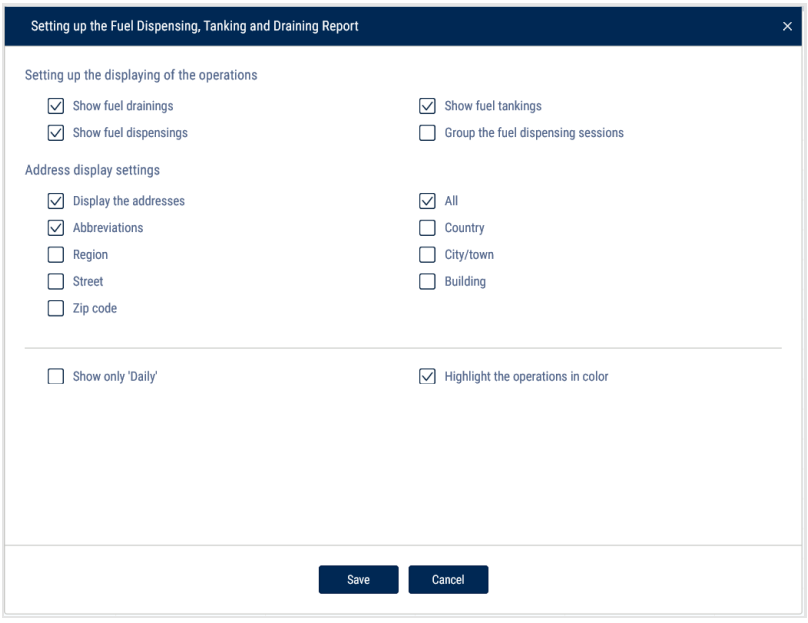
If “Difference between readings” is over or equal to zero, Omnicomm Online renames the parameter and displays “Potential draining, l”.

Total dispensing volume, (l) - total volume of fuel dispensed during the period

Total tanking volume, (l) - total volume of fuel filled into the tank during the period

Total draining volume, (l) - total volume of all drains during the period

To set up report press right mouse button and select “Report settings”:



There is a feature allowing to apply color indication of fuel draining/tanking/dispensing.

To turn on color indication, select “Select operations with color”. The following color designations are used in the report:

- White background of line means fuel tanking
- Pink background is for fuel draining
- Blue background of line means dispensing, draining+dispensing; tanking+dispensing; start of draining/tanking; end of draining/tanking

If it is required to display the information only for one day select “Display ‘Show only Daily’”.

Dispensing display can be grouped. One group of dispensing includes all dispensing which took place during a time period specified in the VH profile. The group may include only one dispense if no dispensing took place after this one.

According to the LLS sensors readings for a group of dispensing an initial (the volume before of the first dispensing in a group) and end value of fuel volume in the tank (the volume after of the last dispensing in a group) are recorded.

Comparison of cumulative volume of all dispensing in a group with change of volume in the tank is performed. If values are different by a value which greater than the allowed value, an additional draining or refueling, performed during dispenses, are recorded:

- Decrease of volume in the tank is greater than cumulate volume of all dispensing, additional draining of fuel is recorded (e.g. performed through lid and access holes in the tank)
- Decrease of volume in the tank is less than total volume of all dispensing, an additional tank refueling is registered (e.g. if fueling operator “twists” dispensing counter to make it correspond to paper fuel ticket and, for example, at the same time inserts fueling nozzle to the hatch of their own tank)

If it is necessary to analyze fuel movement and detect stealing and manipulations, it is recommended to group together the dispensing groups for them to be displayed in the report as one line. If it is necessary to examine all dispensing performed from fuel tanker, groups of dispensing can be ungrouped and only one dispensing will be displayed in the line, and the size of table will increase.

To switch on grouping select “Group dispensing”.

Apply settings by pressing “Save”.

This report table shows the following information:

- “Operation“ includes operations performed with fuel in the tank:

Reports

“Tanking” is fuel filling to the tank

“Draining” is fuel draining from the tank

“Dispensing” is fuel dispensing through fuel nozzle

“Dispensing + Draining” is simultaneous operation of dispensing fuel through the fuel nozzle and its draining from the tank

“Tanking + Dispensing” is simultaneous operation of tanking of fuel into the tank and dispensing of fuel through the fuel nozzle

- “Start” is a date and time of an operation start
- “End” is a date and time of the operation end
- “Initial volume, (l)” is a volume of fuel in the tank at the moment of the operation start
- “Dispensing, (l)” is a volume of dispensed fuel upon fulfillment of the “Dispensing” or “Refueling + Dispensing” operation
- or “Refueling + dispensing”
- “Draining”, (l) is a volume of drained fuel when performing “Draining” or “Dispensing + Draining” operation
- “Refueling, (l)” is a volume of fuel filled to the tank
- “Address” is an address of dispensing. It is displayed only for group fuel dispensing

In the “Address Display Settings” section, select:

- 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.)

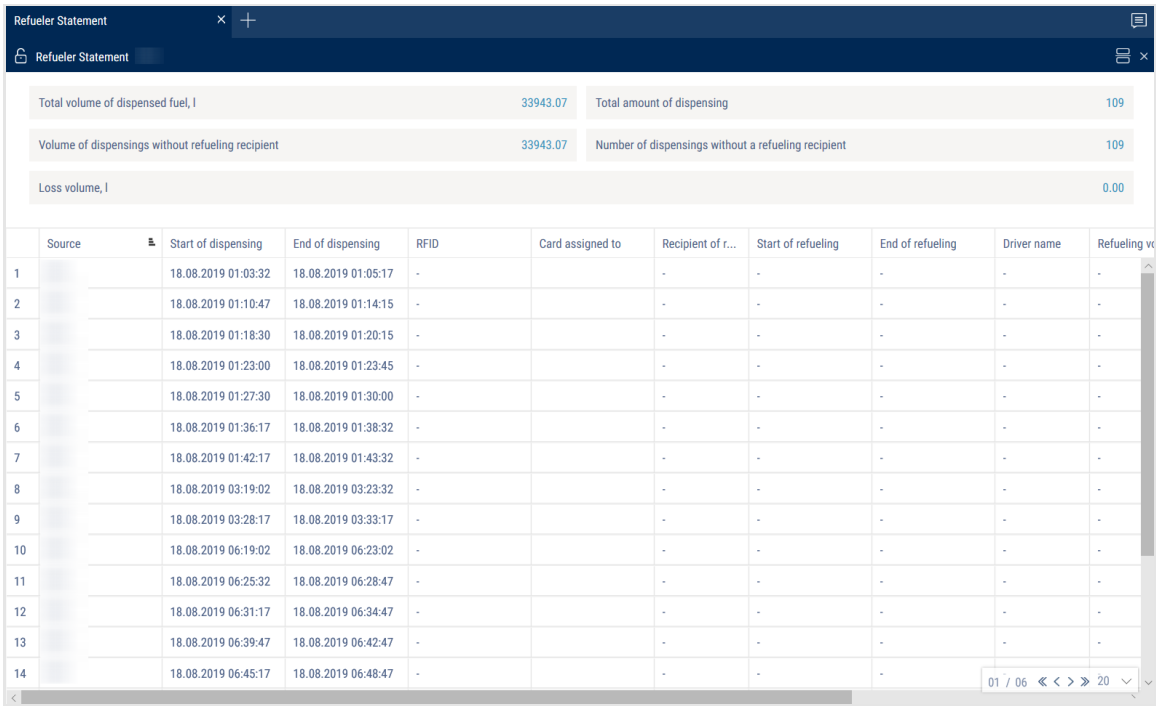
Select the parameters to display in the address:

- Country
- Region
- City/town
- Street
- Building
- Zip code

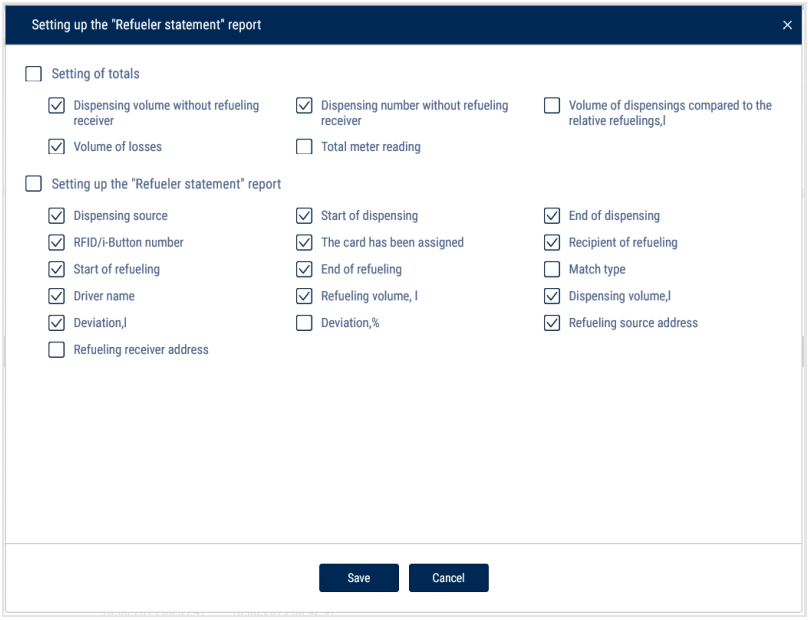
Refueler Statement

1. Select one or several refuelers
2. Select the time period for report generation
3. Press the “Add report” button and select “Refueler Statement”

A report on the refueler will be displayed in the program window:



To select the information displayed in the report, right-click and select “Report settings”:



Reports

General information in the report:

- "Total dispensing volume,l" - the total amount of fuel dispensed during the report period
- "Total amount of dispensing" - the number of fuel dispensing operations for the report period
- "Total dispensing volume without a refueling receiver" - the volume of fuel dispensed by a fuel tanker without a corresponding refueled vehicle
- "Number of dispensing without a refueling receiver" - the number of dispensing operations performed by a fuel tanker without a corresponding refueled vehicle
- "Volume of dispensing compared to the relevant refueling, l" - the volume of fuel dispensed by the fuel tanker with a corresponding refueled vehicle
- "Volume of losses, l" - the difference between the volumes of dispensed and received fuel
- "Total volume on the meter at the beginning of the period" (when only one refueler is selected) - fuel volume according to the meter at the beginning of the period
- "Total volume on the meter at the end of the period" (when only one refueler is selected) - fuel volume according to the meter at the end of the period

The report contains the following information:

- Dispensing source - name of the refueler
- Start of dispensing - date and time of the start of the fuel dispensing operation
- End of dispensing - date and time of the end of the fuel dispensing operation
- RFID / iButton - the number of the RFID tag or iButton key presented at the refueler:

  within 60 seconds before the fuel dispensing

  within allowed dispensing period that can be set in the vehicle profile (see Omnicomm Online. Administration Manual)

  before removing the RFID tag or iButton key

- The card has been assigned - full name of the key or card holder
- Receiver - name of the vehicle that is being refilled
- Recipient of refueling - name of the refueled vehicle

- Start of refueling - date and time of the start of refueling
- End of refueling - date and time of the end of refueling
- Match type - the method used to match the source of dispensing and the refueled vehicle. Possible options: coordinates and time, iButton key, RFID card, fuel card, document.
- Driver's name - full name of the driver of the refueled vehicle. The driver's name is displayed depending on the type of match:

  iButton key, RFID card - full name of the key or card holder

  coordinates and time - full name of the driver registered on the refueled vehicle

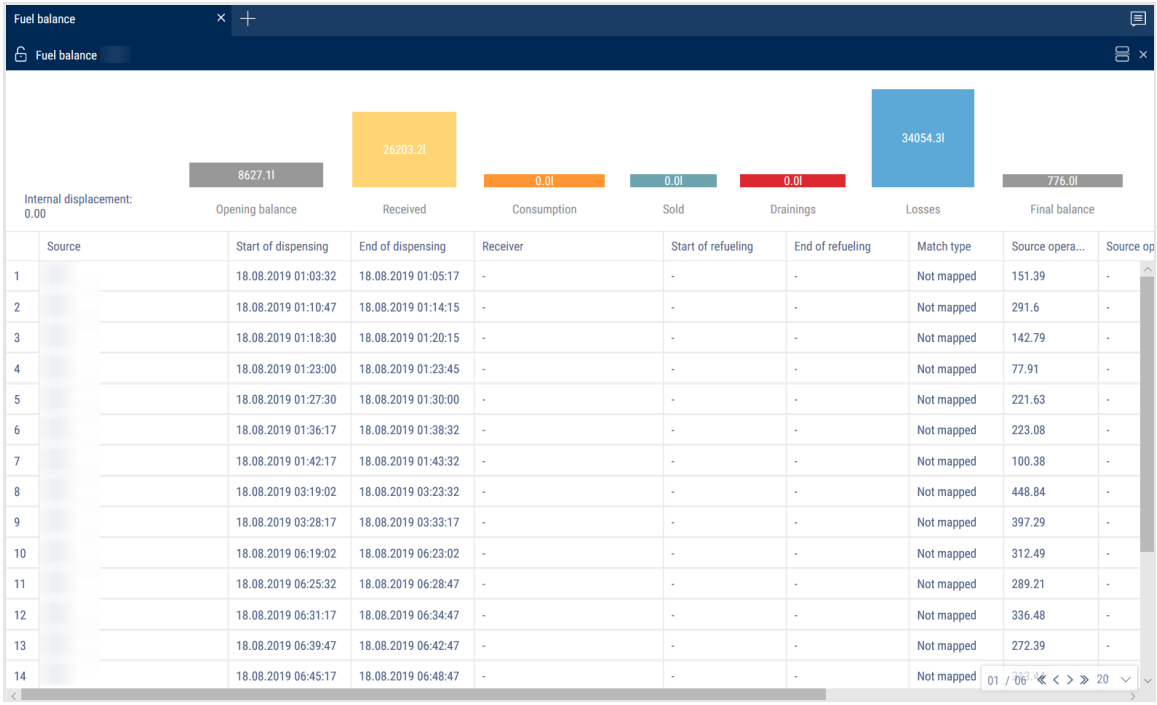
- Refueling volume - the volume of the fuel filled in the vehicle
- Dispensing volume - the volume of the fuel dispensed by the fuel tanker
- Deviation, l - the difference between the refilled volume and the dispensed volume in liters
- Deviation, % - the difference between the refilled volume and the dispensed volume in percentage
- Refueling source address - the address at which the start of fuel dispensing was recorded
- Refueling receiver address - the address at which the start of vehicle refueling was recorded

The fuel dispensing log is associated with the following reports: “Fuel dispensing”, “Fuel dispensing, tanking, and draining”, “Refueling and draining”, “Fuel volume”, “Events”, “Log”, “Track”.

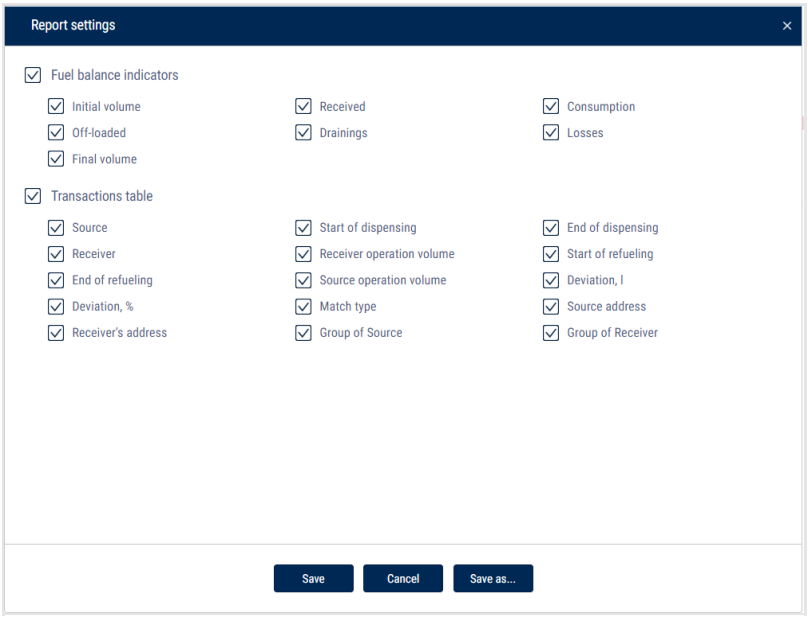
Fuel Balance

1. Select one or several vehicles
2. Select the time period for report generation
3. Press the “Add report” button and select “Fuel Balance”

Reports



To select the information displayed in the report, right-click and select “Report settings”:



General information in the report:

- “Internal displacements” - the total volume of the source fuel for the “dispensing” and/or “draining” events associated with the “refueling” and/or “tanking” events of the selected vehicle, according to the report table
- “Initial Balance” - the total volume of fuel in the main and auxiliary tanks at the start of the report period for the selected vehicles according to the reading of fuel level sensors

Reports

- “Received” - the total volume of fuel including:

    the volume of positive deviations according to the report table

    the volume of fuel of the receiver's refueling and tanking events, that do not match or match the dispensing from a source that is not selected to generate the report

    the volume of source events in which the “Refueling” and “Tanking” events match the fuel card operations

    the modulo value of “Difference between readings” module = “Initial volume” - “Final volume” + “Tanking volume” - “Draining volume” - “Dispensing volume” (only when the value is negative)

- “Consumption” - the total of actual fuel consumption for the main and additional tanks according to the fuel level sensors for the period for the selected vehicle
- “Off-loaded” - the total amount of fuel according to the source events, associated with the vehicle's “Refueling” or “Tanking” events, not selected to generate the report
- “Draining” - the total volume of draining operations for the main and additional tanks according to the fuel level sensors, excluding the volume of discharges included in the calculation of the “Internal displacement” and “Off-loaded” parameters
- “Losses” - the total volume of fuel including:

    the volume of negative deviations according to the report table

    the fuel volume of the source dispensing events that do not match the receiver's events according to the report table

    the value of “Difference between readings” = “Initial volume” - “Final volume” + “Tanking volume” - “Draining volume” - “Dispensing volume” (only when the value is positive)

- “Final volume” - the total volume of fuel in the main and additional tanks at the end of the report period for the selected vehicles according to the reading of fuel level sensors

The table report contains the following information:

- Source - the vehicle performing the dispensing or draining operation

Reports

- Start of source operation - date and time of fuel dispensing or draining start. Format DD.MM.YYYY hh:mm:ss
- End of source operation - date and time of fuel dispensing or draining end. Format DD.MM.YYYY hh:mm:ss
- Receiver - the vehicle receiving the fuel as a result of the refueling or tanking operation
- Start of recipient operation - date and time of vehicle refueling start. Format DD.MM.YYYY hh:mm:ss
- End of receiver operation - date and time of the vehicle refueling end. Format DD.MM.YYYY hh:mm:ss
- Match type - the parameters used to match the source and the recipient. Possible options:

    fuel card

    RFID / iButton

    coordinates and time

    not matched

- Volume of source operation, l - the volume of fuel dispensed by the source
- Volume of recipient operation, l - the volume of fuel received by the recipient
- Deviation, l - the difference between the volume of fuel received by the receiver and the volume dispensed by the source. Possible values: positive and negative numbers displayed taking the sign into account
- Deviation,% - the deviation calculated using the formula:

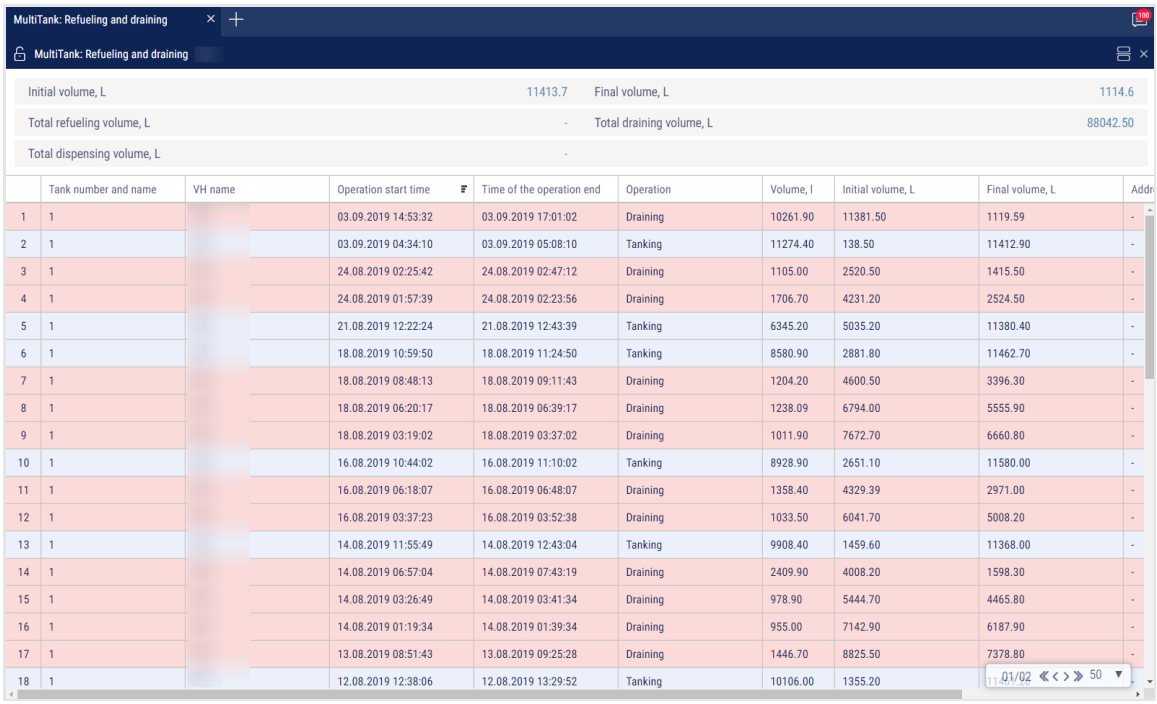
    100 %*(“Deviation, l” / “Volume of source operation, l”)

- Source operation address - the address at which the dispensing or draining of fuel by the source is recorded
- Receiver operation address - the address at which the refueling or tanking of fuel into the recipient is recorded

MultiTank: Dispensing, Refueling and Draining

1. Select one or several vehicles

2. Select the time period for report generation
3. Press the “Add report” button and select “MultiTank: Dispensing, Refueling and Draining”

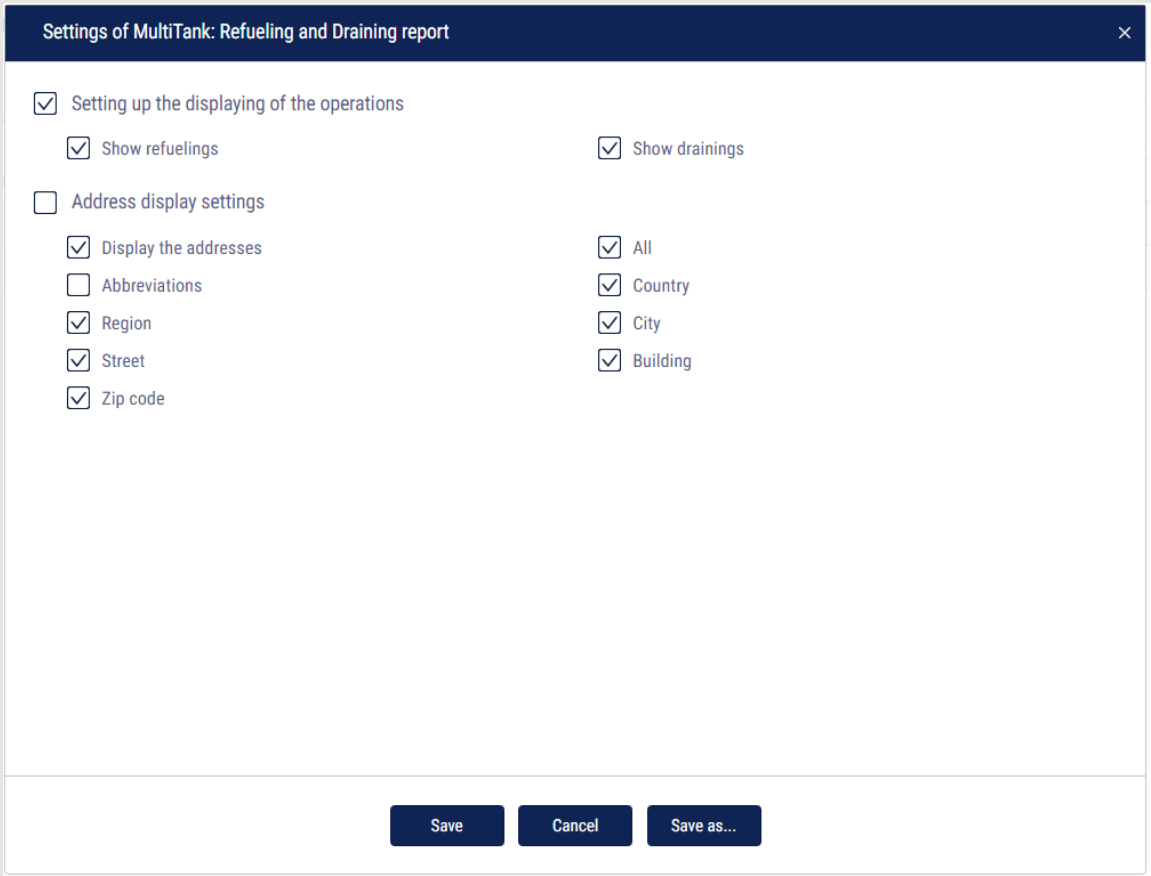


	Tank number and name	VH name	Operation start time	Time of the operation end	Operation	Volume, l	Initial volume, L	Final volume, L	Addr
1	1		03.09.2019 14:53:32	03.09.2019 17:01:02	Draining	10261.90	11381.50	1119.59	-
2	1		03.09.2019 04:34:10	03.09.2019 05:08:10	Tanking	11274.40	138.50	11412.90	-
3	1		24.08.2019 02:25:42	24.08.2019 02:47:12	Draining	1105.00	2520.50	1415.50	-
4	1		24.08.2019 01:57:39	24.08.2019 02:23:56	Draining	1706.70	4231.20	2524.50	-
5	1		21.08.2019 12:22:24	21.08.2019 12:43:39	Tanking	6345.20	5035.20	11380.40	-
6	1		18.08.2019 10:59:50	18.08.2019 11:24:50	Tanking	8580.90	2881.80	11462.70	-
7	1		18.08.2019 08:48:13	18.08.2019 09:11:43	Draining	1204.20	4600.50	3396.30	-
8	1		18.08.2019 06:20:17	18.08.2019 06:39:17	Draining	1238.09	6794.00	5555.90	-
9	1		18.08.2019 03:19:02	18.08.2019 03:37:02	Draining	1011.90	7672.70	6660.80	-
10	1		16.08.2019 10:44:02	16.08.2019 11:10:02	Tanking	8928.90	2651.10	11580.00	-
11	1		16.08.2019 06:18:07	16.08.2019 06:48:07	Draining	1358.40	4329.39	2971.00	-
12	1		16.08.2019 03:37:23	16.08.2019 03:52:38	Draining	1033.50	6041.70	5008.20	-
13	1		14.08.2019 11:55:49	14.08.2019 12:43:04	Tanking	9908.40	1459.60	11368.00	-
14	1		14.08.2019 06:57:04	14.08.2019 07:43:19	Draining	2409.90	4008.20	1598.30	-
15	1		14.08.2019 03:26:49	14.08.2019 03:41:34	Draining	978.90	5444.70	4465.80	-
16	1		14.08.2019 01:19:34	14.08.2019 01:39:34	Draining	955.00	7142.90	6187.90	-
17	1		13.08.2019 08:51:43	13.08.2019 09:25:28	Draining	1446.70	8825.50	7378.80	-
18	1		12.08.2019 12:38:06	12.08.2019 13:29:52	Tanking	10106.00	1355.20		

The report contains the following general information:

- Initial volume, (l) is the volume of fuel in the tank at the start of the selected period
- Final volume, (l) is the volume of fuel in the tank at the end of select period
- Total dispensing volume, (l) - total volume of fuel dispensed during the period
- Total refueling volume, (l) - total volume of fuel refueled during the period
- Total draining volume, (l) - total volume of all drains during the period

To select the information displayed in the report, right-click and select “Report settings”:



In the program window the list of refueling and draining within the selected period will be displayed.

In the “Setting up the displaying of the operations” section, select:

- Show refueling - fuel filling into the tanks
- Show draining - fuel draining
- Show dispensing - fuel dispensing through fuel nozzle
- Group dispensing - combining fuel dispensing group into one dispensing

In the “Address Display Settings” section, select:

- 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
- Building
- Zip code

The report contains the following data:

- Fuel tank number and name
- VH name
- Operation start time
- Operation end time
- Operation is draining or refueling
- Volume, (l) is the volume of drained or refueled fuel
- Initial volume, (l) is the volume of fuel in the tank before the operation
- Final volume, (l) is the volume of fuel in the tank after the operation
- The address where start of draining or refueling was performed

The following color designations are used in the report:

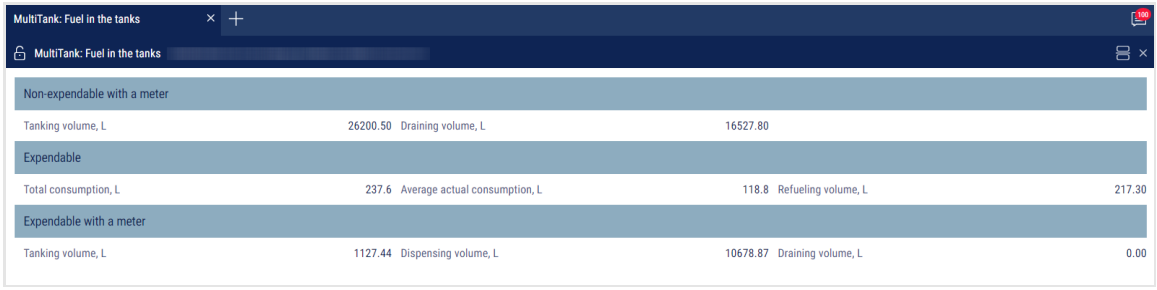
White background of line means fuel tanking

Blue background of line is for refueling

Pink background of line is for draining

MultiTank: Fuel in the Tanks

1. Select one or several vehicles
2. Select the time period for report generation
3. Press the “Add report” button and select “MultiTank: Fuel in the Tanks”



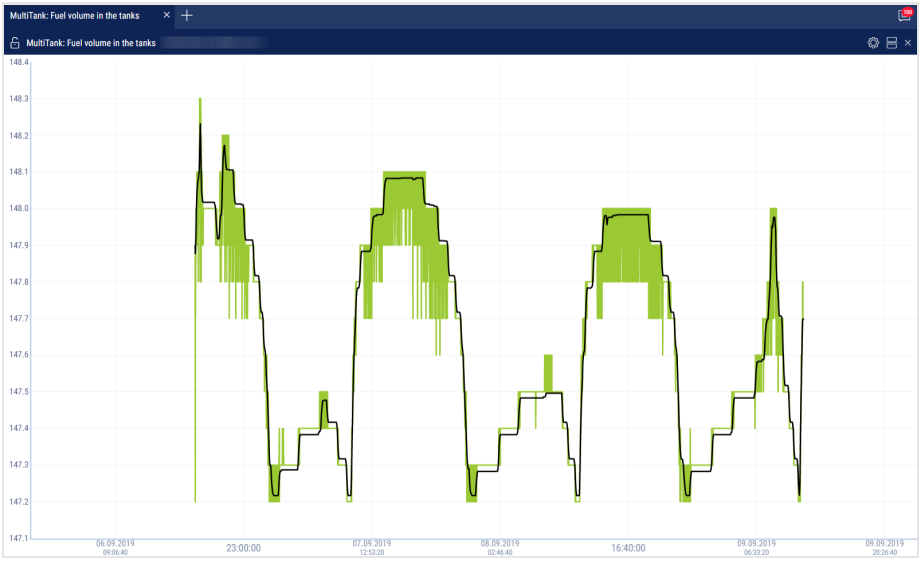
The report contains the following data for each fuel tank of VH:

- Initial volume, (l) is the volume of fuel in the tank at the beginning of the period
- Final volume, (l) is the volume of fuel in the tank at the end of the period
- Minimum volume, (l) is the minimum volume of fuel in the tank for the period
- Maximum volume, (l) is the maximum volume of fuel in the tank for the period
- Actual consumption, (l) is the volume of fuel in the tank at the beginning of the period
- Refueling volume, (l) is total refueling volume for the period
- Draining volume, (l) is total draining volume for the period
- Dispensing volume, (l) is total dispensing volume through fuel nozzle for the period
- Tanking during a dispensing operation is simultaneous operation of tanking of fuel into the tank and dispensing of fuel through the fuel nozzle
- Draining during a dispensing operation is simultaneous operation of dispensing fuel through the fuel nozzle and its draining from the tank

MultiTank: Fuel Volume in the Tanks

1. Select one or several vehicles
2. Select a period of time for report generation
3. Press button “Add report” and select “MultiTank: Fuel Volume in the Tanks”

In the program window it will be displayed a report on fuel volume in the tank of VH for the selected period of time.



Press on the icon and select the information to be displayed:

Cartographic

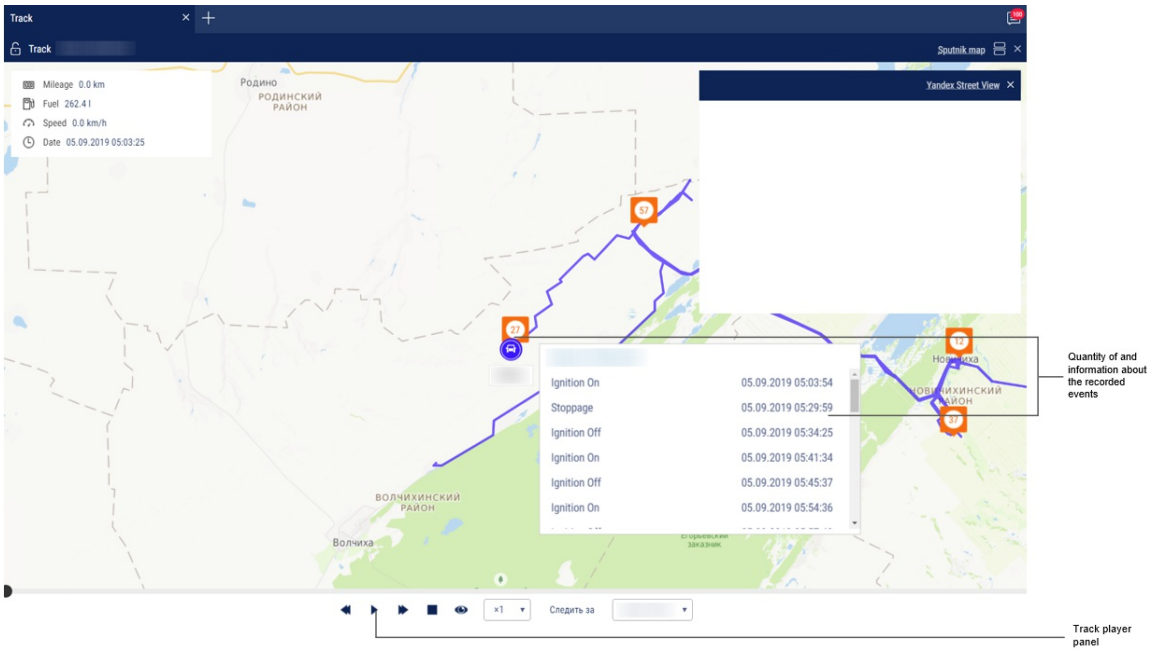
Track

The “Track” report allows a user to view of one selected VH for the selected time.

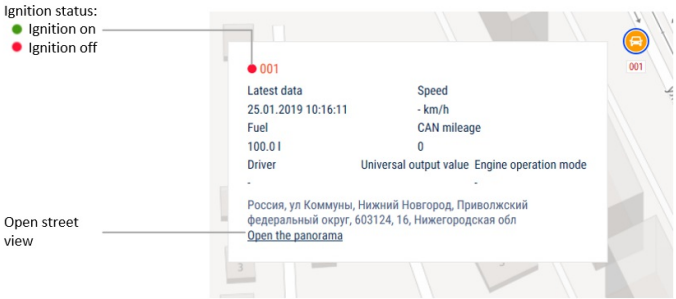
1. Select a VH
2. Select a period of time for report generation
3. Press “Add report” button and select “Track”

A map with the VH's track for this period of time will be displayed in the program window:

Reports



To display a tooltip press the VH icon .



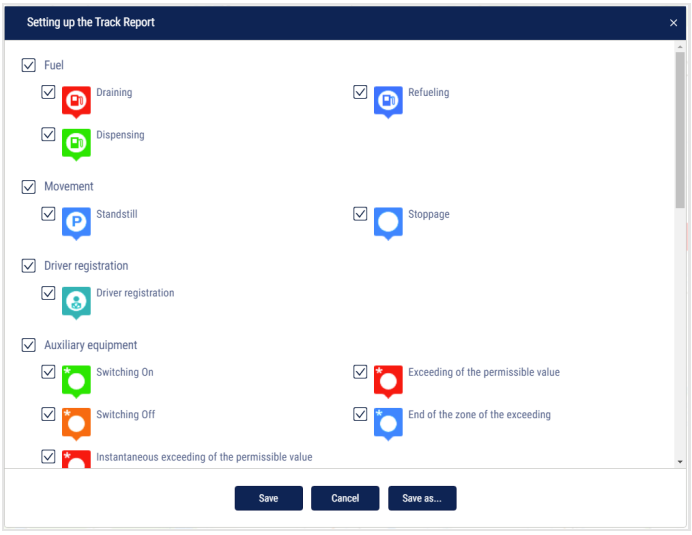
The tooltip contains the following information:

- “Date” is the date and time the VH presence in the selected part of the track
- “Registration number” is the VH name
- “Speed” is a speed of the VH in the selected place of the track
- “Address” is the address where the VH was found in the selected place of the track
- “Mileage” is a VH mileage starting from the track beginning
- “Fuel volume in the primary tank” is a volume of fuel in the primary tank. It is not displayed, if the fuel level sensors are not connected or “0” number of sensors is set in the VH profile settings. The units of fuel parameters measurement (liters or gallons) shall be given according to the server settings

- “Fuel volume in the additional tank” is a volume of fuel in the additional tank (if there is such). It is not displayed, if the fuel level sensors are not connected or “0” number of sensors is set in the VH profile settings. The units of fuel parameters measurement (liters or gallons) shall be given according to the server settings
- “Ignition” is a position of the ignition key (on/off) in the selected place of the track
- “GPS data” are correct or incorrect data. If the data are incorrect, the date and time of receipt of the certain data are displayed
- “Total mileage as per CAN” – total vehicle mileage according to CAN bus data
- “Current auxiliary equipment readings” - current value or status of the auxiliary equipment
- “Driver” – driver registered on the vehicle

The format of the address and the content of the pop-up information about the vehicle can be configured in the object tree (see. Settings of objects tree).

To set up the report, press the right mouse button and select “Report settings”:



Configure the route displaying:

- Disabled - during the track vehicle parameters and auxiliary equipment operation are not considered

- During the movement

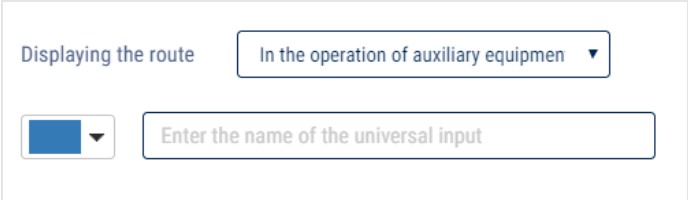
  Select the color of a track segment which was completed with exceeding the speed allowed

  Select the color of a track segment which was completed with ignition off

- In the operation of auxiliary equipment

  Select the color of a track segment which was completed with auxiliary equipment turned on

  Enter an appropriate name for auxiliary equipment, which will be displayed in vehicles profile under “Name of the equipment at the universal input” (see Omnicomm Online. Administration Manual. The "Profile editing" section / "Universal input settings")

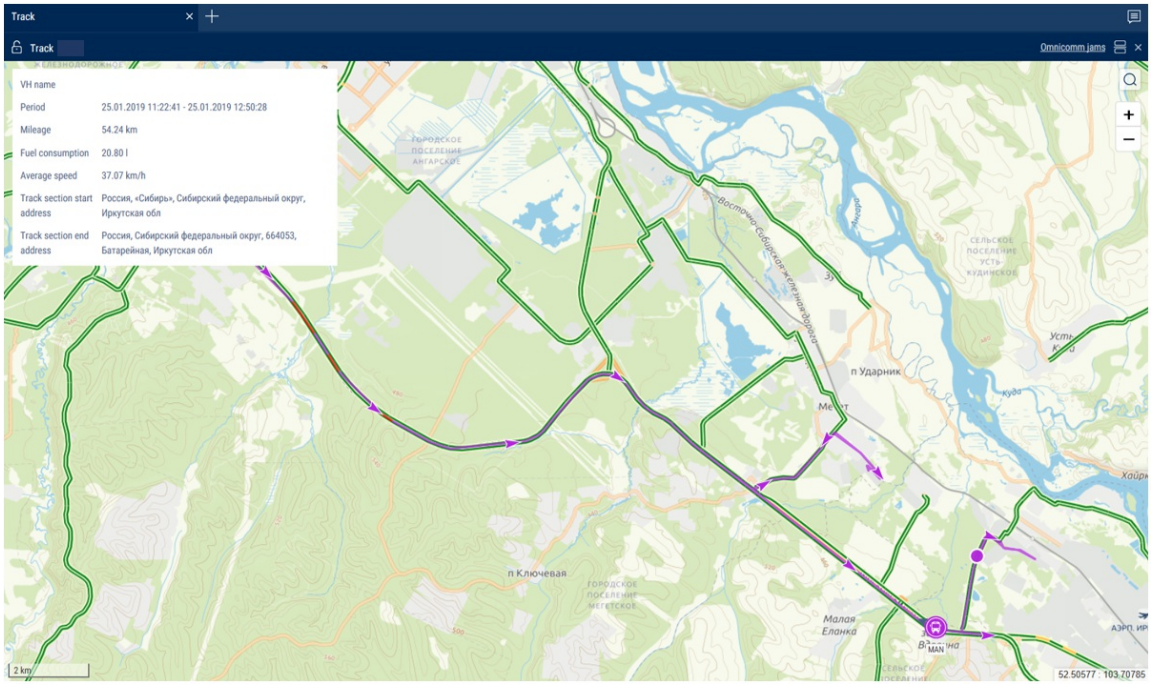


For an automatic track update right-click and select “Enable track autoupdate”. This setting is applicable for one vehicle only and Automatic updates every 30 seconds.

Measuring parameters between two points of the track

1. Right-click on the track and select “Track Section Parameters”
2. Select the starting point for the measurement on the track
3. Select the end point for the measurement on the track. To clear the selection, click anywhere on the map (not on the track).

Reports



For a section of the track, the following information is displayed:

- Vehicle name
- Period
- Mileage
- Fuel consumption
- Average speed
- Track section start address
- Track section end address

Exit the parameter measurement mode by pressing Enter or Esc.

To display track points, right-click and select “Track Detailing”.

> If you select one vehicle and a report period of 7 days or fewer, track points corresponding to all rows of the “Log” report will be displayed (at maximum scale).

The map in OpenStreetMaps mode has a feature enabling additional painting of necessary section of maps, please see www.openstreetmap.org for details.

If it is required to zoom in the map section, select it with the mouse cursor continuously pressing “Shift” button.

To create a geofence using a track it is required to use the map control panel.

Location

A “Location” report allows to monitor movement of the VH in the real time mode. Information on the VH is refreshed upon receipt of the new data.

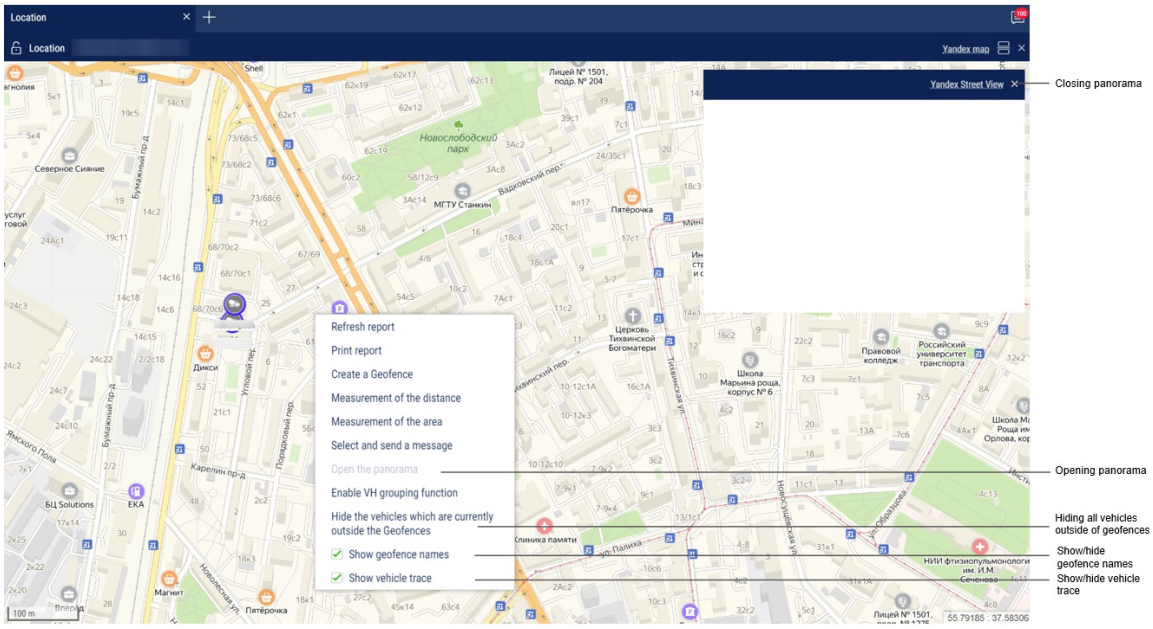
The location is recorded according to the valid GPS data (upon identification over 3 satellites).

For more effective tracking of moving objects in the real time mode we suggest that you use “VH tracking” mode. For more effective tracking of objects in geofences please use “Hide VH outside geofences” mode.

“Location” report in a normal mode

1. Select one or several VH
2. Open “Mapping” tab and select “Location”

In the program window the map with the VH location will be displayed:



	When the ignition is on, the color of the icon corresponds to that chosen when setting the vehicle icon. The arrow indicates the direction of the vehicle
	When the ignition is turned off, the color of the icon is orange

Reports

To view information on the VH move the cursor to the VH icon. To pin the tooltip window with the information on VH, press the left mouse button.

This report contains the following information on the VH:

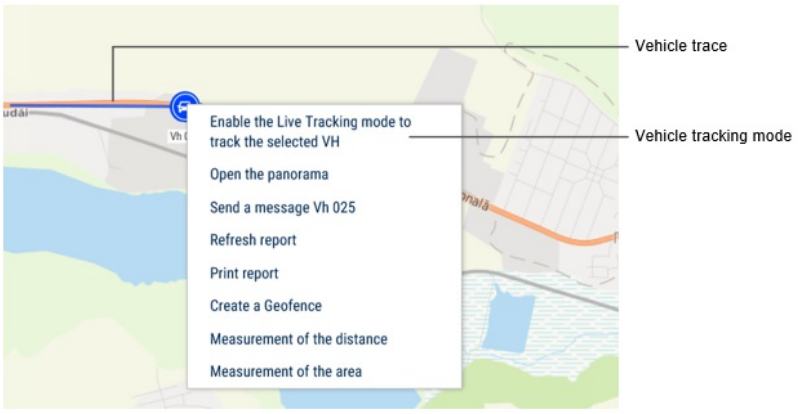
- VH name is a name or registration number of the VH
- Date is a date of the last received data in DD/MM/YYYY HH:MM:SS format
- Speed, (km/h) is a speed of the VH at the moment of data transfer
- Address is an address of the last location
- Volume of fuel in primary tank is a volume of fuel in the primary tank at the moment of data transfer
- Volume of fuel in the additional tank is a volume of fuel in the additional tank (if there is such) at the moment of data transfer
- Ignition is on/off
- The date and time of the last correct GPS data are displayed if within 60 seconds, there were not valid data.
- Total mileage as per CAN – total vehicle mileage according to CAN bus data
- Current auxiliary equipment readings - current value or status of the auxiliary equipment
- Driver – driver registered on the vehicle

The format of the address and the content of the pop-up information about the vehicle can be configured in the object tree (see Settings of objects tree).

"Location" report in vehicle tracking mode

"VH tracking" enables automatic actualization of map display, providing permanent display of the VH in center of the map section.

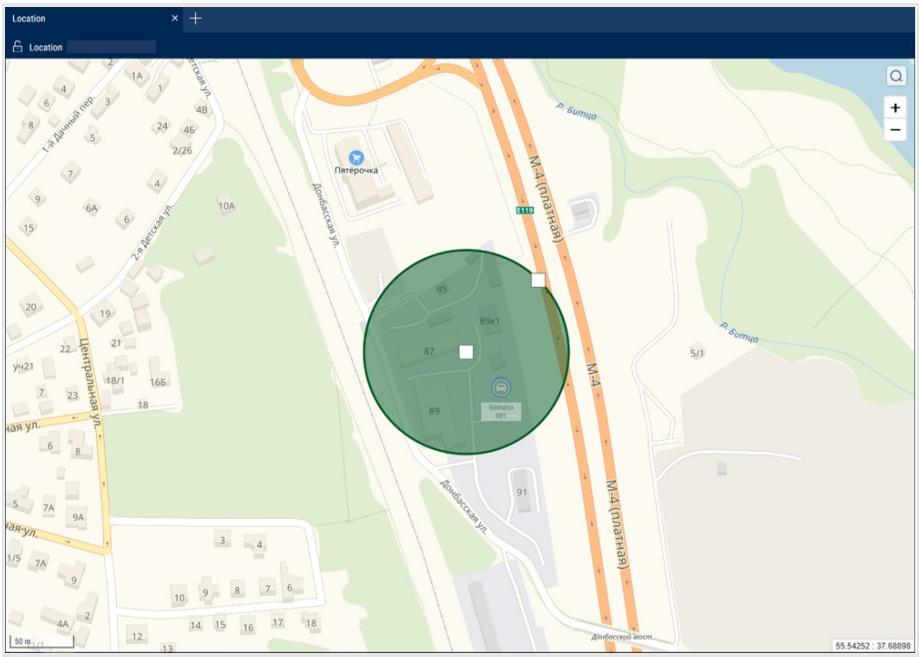
In case for generation of "Location" report several VH are selected, it is required to select one VH pressing the left mouse button on the icon of the required VH. The name of the selected VH will be highlighted in red. In the vehicle menu, select to "Enable the tracking mode of the selected vehicle".



Switching on the mode of the VH tracking enables recording of the report and when selecting another object or period the recorded report will not change. The report recording allows you to view reports on other objects simultaneously. After switching off of the VH tracking mode, the report is not automatically recorded.

"Location" report in the mode of the VH hiding outside the geofences

"Mode of VH hiding outside geofences" allows changing of the VH icons located outside the geofences:



The full name of the geofence is displayed when you hover the mouse over it.

Movement

Standstills

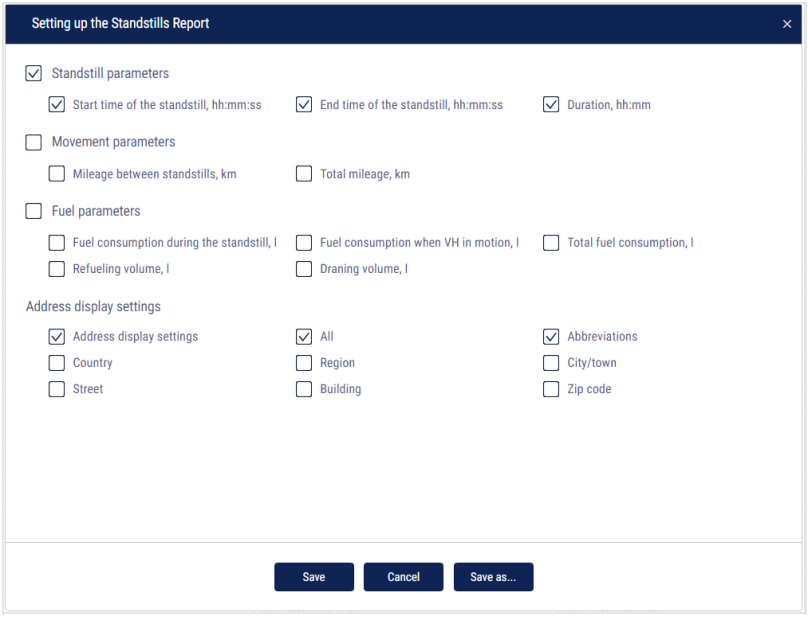
Reports

1. Select a vehicle
2. Select a period of time for report generation
3. Press the button “Add report” and select “Standstills”

Determination of stoppages and standstills shall be performed taking into account the VH ignition or by GPS coordinates in accordance with the settings in the VH profile.

	Address of the standstill	Start time of the standstill, hh:mm:ss	End time of the standstill, hh:mm:ss	Duration, hh:mm
1	-	10.09.2019 03:46:11	10.09.2019 04:32:17	0:46
2	-	10.09.2019 05:36:34	10.09.2019 05:52:46	0:16
3	-	10.09.2019 05:53:25	10.09.2019 06:10:32	0:17
4	-	10.09.2019 08:47:27	10.09.2019 09:07:58	0:20
5	-	10.09.2019 11:48:58	10.09.2019 12:11:57	0:22
6	-	10.09.2019 14:13:10	11.09.2019 02:37:32	12:24
7	-	11.09.2019 03:45:53	11.09.2019 04:12:44	0:26
8	-	11.09.2019 04:16:19	11.09.2019 04:43:41	0:27
9	-	11.09.2019 06:13:11	11.09.2019 06:38:10	0:24
10	-	11.09.2019 06:43:54	11.09.2019 07:11:55	0:28
11	-	11.09.2019 08:13:31	11.09.2019 09:05:26	0:51
12	-	11.09.2019 10:05:02	11.09.2019 10:23:08	0:18
13	-	11.09.2019 11:13:30	11.09.2019 11:30:24	0:16
14	-	11.09.2019 11:48:34	11.09.2019 12:07:11	0:18
15	-	11.09.2019 12:47:24	11.09.2019 13:23:41	0:36
16	-	11.09.2019 14:22:51	11.09.2019 15:02:42	0:39
17	-	11.09.2019 15:08:18	11.09.2019 15:30:19	0:22
18	-	11.09.2019 15:35:45	11.09.2019 16:31:50	0:56
19	-	12.09.2019 03:52:29	12.09.2019 04:19:09	0:26
20	-	12.09.2019 08:41:17	12.09.2019 09:44:15	1:02
21	TOTAL	-	-	21:54

Select the information to be displayed in the report by pressing the right mouse button and choosing “Report settings”:



In the “Address Display Settings” section, select:

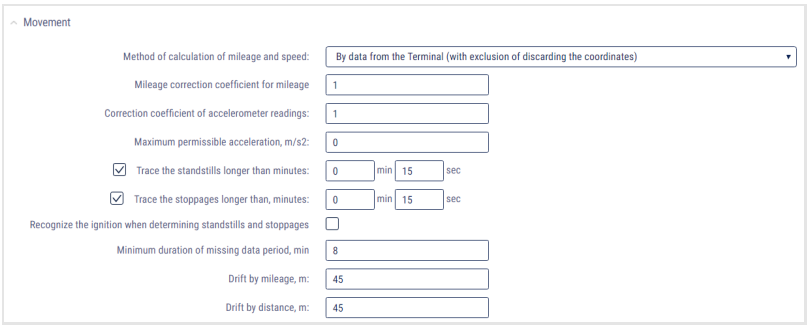
- Display the address - turn on to display the address of the current vehicle location

- 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
- Building
- Zip code

A standstill is registered, when the following conditions are met: the ignition is off, the speed is less than 2 km/h, the time since the ignition was turned off has exceeded the value of “Trace the standstills longer than minutes” set in the vehicle profile, and at the current time the standstill is completed.



“Standstill address” – address, at which the parking was registered, i.e. the “Trace the standstills longer than, minutes” value was exceeded.

“Start time of the standstill, hh:mm:ss” - the date and time when the standstill started, i.e. the date and time when the standstill was recorded more than the value of “Trace the standstills longer than minutes” minus the value of “Trace the standstills longer than minutes” itself.

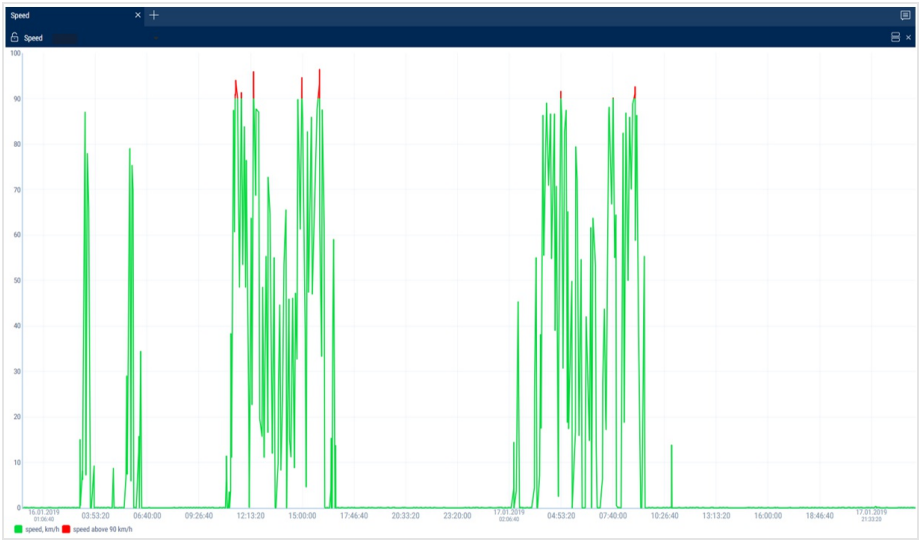
“End of standstill, hh:mm:ss” – date and time of the end of the standstill or of the report period.

“Duration, hh:mm:ss” - the duration of the parking, determined depending on the selected report period.

Speed

1. Select a vehicle
2. Select a period of time for report generation
3. Press “Add report” button and select “Speed”

The program window will display a report on the VH speed:



If a period between neighboring events recorded in the register is shorter than 8 minutes, ignition turn-off won't be displayed on the speed diagram.

The following color designations are used in the report:

- Green diagram means that the VH speed is lower or equal to the maximum allowed speed value
- Red diagram means the speed exceeds the maximum allowed speed value

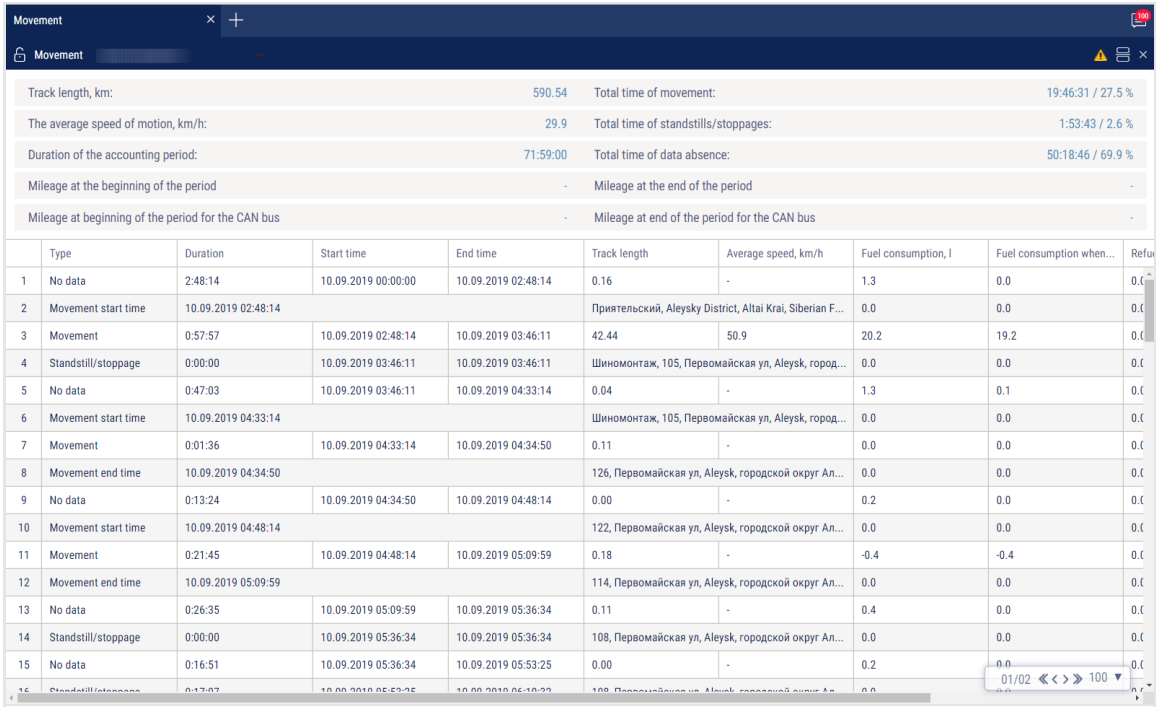
If necessary, increase the diagram scale. Select a part of the diagram, which shall be increased withholding left mouse button.

Movement

To generate this report it is required to switch off “Take in account ignition when identifying standstills and stoppages” in the VH profile.

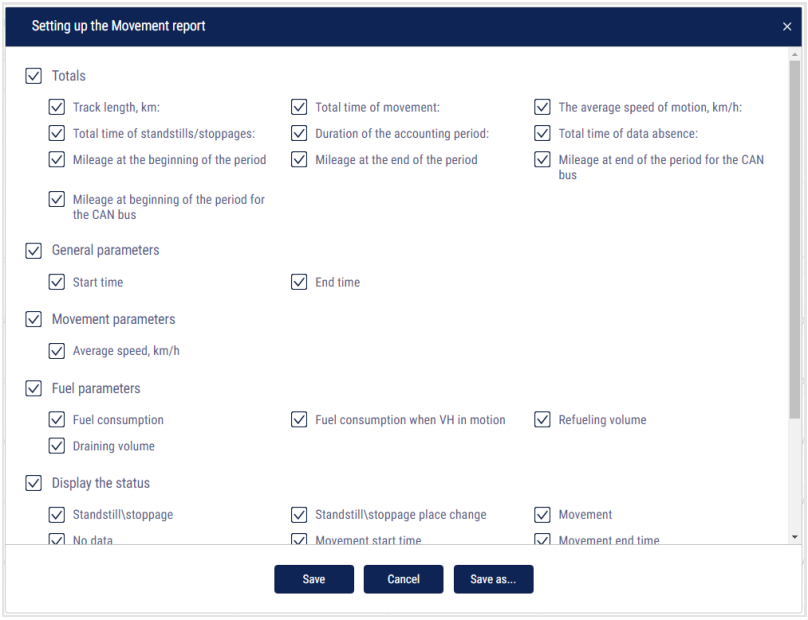
1. Select a vehicle
2. Select a period of time for report generation
3. Press “Add report” button and select “Movement”

The program window will display a report on the VH movement:



	Type	Duration	Start time	End time	Track length	Average speed, km/h	Fuel consumption, l	Fuel consumption when...	Refu
1	No data	2:48:14	10.09.2019 00:00:00	10.09.2019 02:48:14	0.16	-	1.3	0.0	0.(
2	Movement start time	10.09.2019 02:48:14			Приятельский, Aleysky District, Altai Krai, Siberian F...		0.0	0.0	0.(
3	Movement	0:57:57	10.09.2019 02:48:14	10.09.2019 03:46:11	42.44	50.9	20.2	19.2	0.(
4	Standstill/stoppage	0:00:00	10.09.2019 03:46:11	10.09.2019 03:46:11	Шиномонтаж, 105, Первомайская ул, Aleysk, город...		0.0	0.0	0.(
5	No data	0:47:03	10.09.2019 03:46:11	10.09.2019 04:33:14	0.04	-	1.3	0.1	0.(
6	Movement start time	10.09.2019 04:33:14			Шиномонтаж, 105, Первомайская ул, Aleysk, город...		0.0	0.0	0.(
7	Movement	0:01:36	10.09.2019 04:33:14	10.09.2019 04:34:50	0.11	-	0.0	0.0	0.(
8	Movement end time	10.09.2019 04:34:50			126, Первомайская ул, Aleysk, городской округ Ал...		0.0	0.0	0.(
9	No data	0:13:24	10.09.2019 04:34:50	10.09.2019 04:48:14	0.00	-	0.2	0.0	0.(
10	Movement start time	10.09.2019 04:48:14			122, Первомайская ул, Aleysk, городской округ Ал...		0.0	0.0	0.(
11	Movement	0:21:45	10.09.2019 04:48:14	10.09.2019 05:09:59	0.18	-	-0.4	-0.4	0.(
12	Movement end time	10.09.2019 05:09:59			114, Первомайская ул, Aleysk, городской округ Ал...		0.0	0.0	0.(
13	No data	0:26:35	10.09.2019 05:09:59	10.09.2019 05:36:34	0.11	-	0.4	0.0	0.(
14	Standstill/stoppage	0:00:00	10.09.2019 05:36:34	10.09.2019 05:36:34	108, Первомайская ул, Aleysk, городской округ Ал...		0.0	0.0	0.(
15	No data	0:16:51	10.09.2019 05:36:34	10.09.2019 05:53:25	0.00	-	0.2	0.0	0.(

Select information to be displayed in the report by pressing the right mouse button and choosing “Report settings”:



In the “Address Display Settings” section, select:

- 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
- Building
- Zip Code

General information in the report:

- “Track length, km” is a total length of the track for all report events
- “Total time of movement” is total time, calculated for the events with a parameter “Track length, km” being different from 0
- “The average speed of motion km/h” is a ratio of the parameter “Track length, km” to the “Total time of movement” parameter value

- "Total time of standstills/stoppages" is a total time of standstills and stoppages in the report
- "Duration of the accounting period" is a duration of the generated report period
- "Total time of data absence" is the total time, calculated for the events "data absence"
- "Mileage at the beginning of the period as per CAN bus, km" - the CAN odometer value at the beginning of the period
- "Mileage at the end of the period as per CAN bus, km" - the CAN odometer value at the end of the period

Use the mileage meter only during the configuration of "Vehicle profile"/ "Setting the initial values for Maintenance control"/"According to the mileage"/"Use an odometer":

- "Mileage at the beginning of the period, km" - the mileage calculated as the sum of the initial value of the odometer and the distance to the date of the beginning of the period
- "Mileage at the end of the period, km" - the mileage calculated as the sum of the initial value of the odometer and the distance to the date of the end of the period

The report contains information on the following events:

1. Standstill/stoppage

Start of a standstill is recorded, if the following conditions are met:

- The VH speed is less than 2 km/h for all continuous events with "raw" data
- The distance between any events with "raw" data is less than 800 m
- The time period between the first and last event with "raw" data is greater than the value of "Trace the stoppages longer than, minutes"
- The time period between the first and last event with raw data does not include periods of data absence

End of a standstill is recorded, if the following conditions are met:

- Start of a standstill has been identified
- One of the standstill conditions has stopped being performed

2. Change of a standstill place

- The current event of the standstill start was identified

- According to the valid data the previous event was the end of the standstill
- The event of data absence start has not been identified

3. Data absence

The start of the data absence period shall be recorded, when the following conditions are met:

- The time between the current event and the last event with the valid data is greater than the time set in the “Minimum duration of missing data period, minutes”
- If the current event is the first valid event with “raw” data, the date and time of the VH profile import shall be assumed the last event with the valid data

The end of the data absence period shall be recorded, when the following conditions are met:

- The start of data absence has been recorded
- The current event has valid data

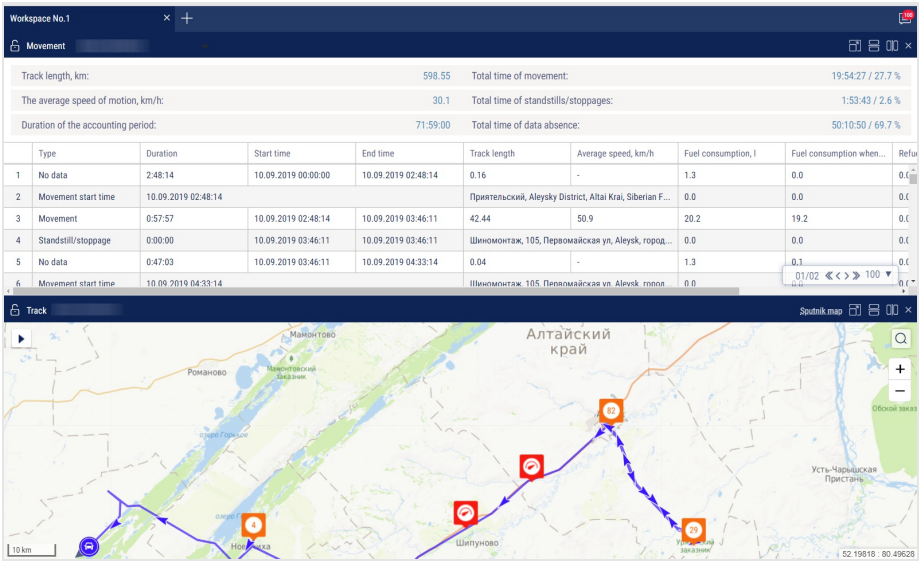
4. Movement

The movement shall be recorded, if the VH's speed is greater than 2 km/h.

For the events “movement” and “absence of data” the following information shall be provided:

- “Movement start time”
- “Movement end time”
- “Duration”
- “Track length, km”
- “Maximum recorded speed, km/h”
- “Average speed, km/h”

To display the motion section on the map, add the “Track” report to the tab with the “Movement” report. In the table in the “Movement” report, select the row corresponding to the vehicle movement. In the “Track” report it will display the track section of the vehicle.

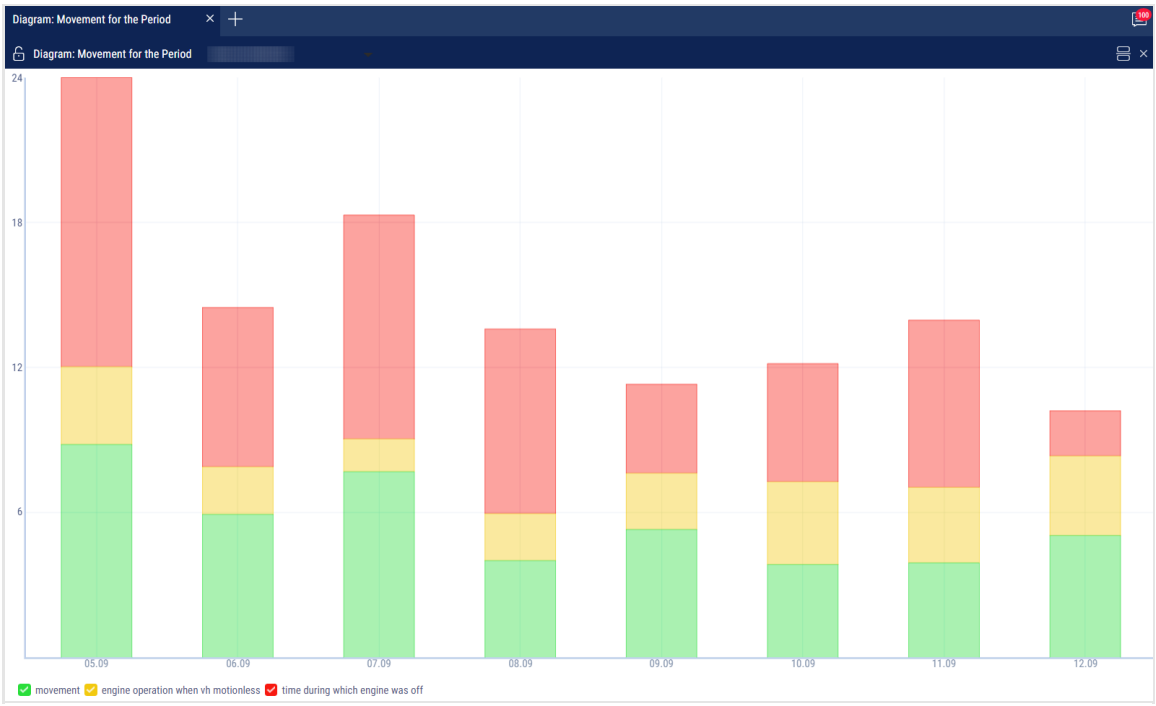


To return to the entire track, click the left mouse button anywhere on the map.

Movement for the Period

1. Select a vehicle
2. Select a period of time for report generation
3. Press button “Add report” and select “Diagram: Movement for the Period”

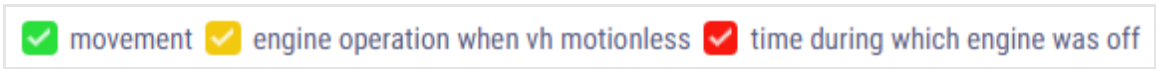
In the program window the report on the VH movement by day will display:



The following color-coding is used in the report:

- Green - the total time that the vehicle was in movement for the day
- Yellow - the total time of idle vehicle operation for the day
- Red - the total vehicle downtime for the day, i.e. the time that the vehicle spent with the engine turned off

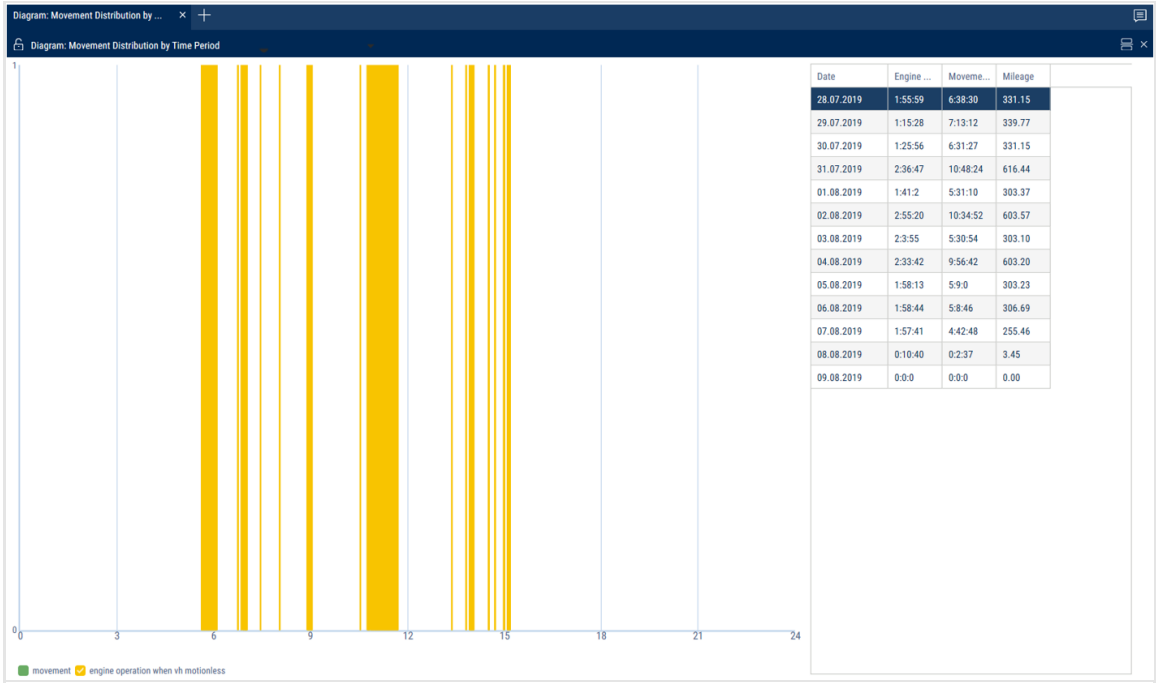
Select the information to display in the legend:



Movement Distribution by Time Period

1. Select a vehicle
2. Select a period of time for report generation
3. Press button “Add report” and select “Diagram: Movement Distribution by Time Period”

In the program window the report on VH movement distribution for the selected day depending on time of day will display:



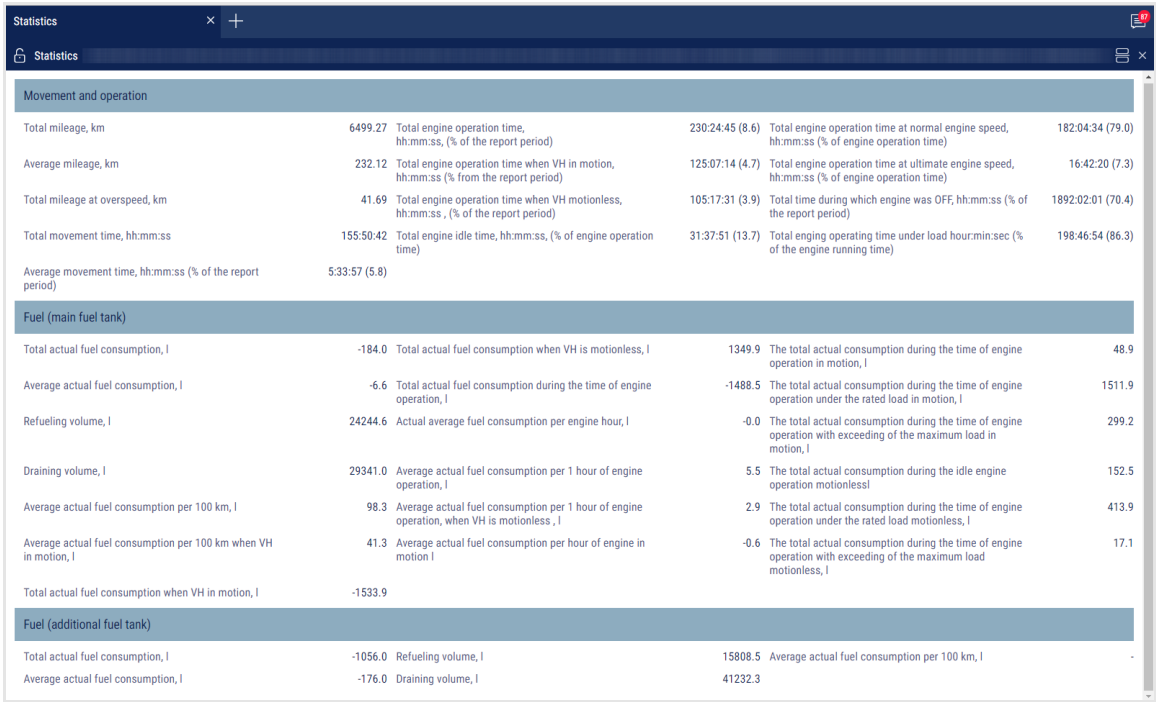
Select the information to be displayed in the legend:

- Green - movement of the VH
- Yellow - operation of the VH at idle RPM

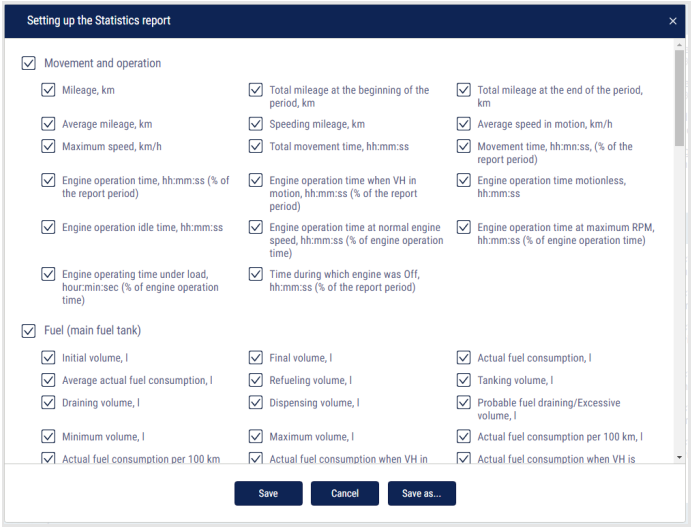
Statistics

Statistics

1. Select one or several drivers or VH
2. Select a period of time for report generation
3. Press the “Add report” button and select “Statistics”



Select information to be displayed in the report by pressing the right mouse button and choosing “Report settings”:



Reports

The program window will display a report with statistical data on a VH or driver for the selected period.

Description of the VH operation parameters calculation is given in Appendix B.

In the section *"Movement and operation"*:

- Mileage, km
- Average mileage, km
- Speeding mileage, km
- Total mileage at the beginning of the period, km - the value of mileage from the CAN bus or from the mileage meter at the beginning of a time period. The appropriate source for this value can be selected in the vehicle's profile (see Omnicomm Online. Administration Manual. The "Profile editing" section / "Setting initial values for maintenance control")
- Total mileage at the end of the period, km - the value of mileage from the CAN bus or from the mileage meter by the end of the time period. The appropriate source for this value can be selected in the vehicle's profile (see Omnicomm Online. Administration Manual. The "Profile editing" section / "Setting initial values for maintenance control")
- Average speed in motion, km/h
- Maximum speed, km/h
- Movement time, hh:mm:ss, (% from the report period)
- Engine operation time, hh:mm:ss, (% from the period of report)
- Engine operation time when VH in motion, hh:mm:ss, (% from the report period)
- Engine operation time motionless, hh:mm:ss
- Engine operation idle time, hh:mm:ss
- Engine operation time at normal engine RPM, hh:mm:ss, (% from engine operation time)
- Engine operation time at engine RPM limit, hh:mm:ss, (% from engine operation time)
- Time during which engine was OFF time, hh:mm:ss, (% from the report period)

In the section *"Fuel" (main tank)*:

- Initial volume, l
- Final volume, l

Reports

- Actual consumption, l
- Average actual fuel consumption, l
- Refueling volume, l
- Tanking volume, l
- Draining volume, l
- Dispensing volume, l
- Probable fuel draining/Excessive volume, l
- Minimum volume, l
- Maximum volume, l
- Actual consumption per 100 km, l
- Actual consumption per 100 km when VH in motion, l
- Actual consumption when VH in motion, l
- Actual consumption when VH is motionless, l
- Consumption rate per 100 km, l
- Estimated consumption rate per 100km, l
- Deviation from the rate per 100 km, %
- Overconsumption against the rate per 100 km for the period, l
- Actual fuel consumption during the time of engine operation, l
- Actual fuel consumption per engine hour, l
- Actual fuel consumption per hour of engine operation, l
- Actual fuel consumption per hour of engine operation, when VH is motionless, l
- Fuel consumption rate per hour of engine operation
- Estimated consumption by the rate per 1 hour of engine operation, l
- Deviation from the rate per hour of engine operation, %
- Overconsumption against the rate per 1 hour of engine operation, l
- The actual consumption during the engine idle time in motion, l
- The actual consumption during the time of engine operation under the rated load in motion, l

Reports

- The actual consumption during the time of engine operation with exceeding of the maximum load in motion, l
- The actual consumption during the engine idle time motionless, l
- The actual consumption during the time of engine operation under the rated load motionless, l
- The actual consumption during the time of engine operation with exceeding of the maximum load motionless, l
- Volume of CO_2 emissions, kg

Volume of CO_2 for gasoline = 2392*actual consumption during the period

Volume of CO_2 emissions for diesel = 2640*actual consumption during the period

In the the *"Fuel mass" (main fuel tank)* section:

- Initial mass, kg
- Final mass, kg
- Actual consumption, kg
- Mass of refueling, kg
- Mass of draining, kg
- Actual consumption per 100 km, kg
- Actual consumption per hour of engine operation, kg

In the section *"LLS5 correction"*:

- Underestimated, l
- Overestimated, l
- Sum, l

In the section *"Fuel" (additional tank)*:

- Initial volume, l
- Final volume, l
- Actual consumption, l
- Average actual consumption, l

- Refueling volume, l
- Draining volume, l
- Minimum volume, l
- Maximum volume, l
- Actual consumption per 100 km, l

In the *Auxiliary Equipment Operation* Section:

- Maximum value within the period
- Minimum value within the period
- Total value during the period
- Time of operation, hh:mm:ss
- Downtime, hh:mm:ss
- Time of operation is higher than the permissible value, hh:mm:ss
- Time of operation is lower than the permissible value, hh:mm:ss
- Mileage with auxiliary VH equipment is ON, km
- Consumption with auxiliary VH equipment turned ON, l
- Consumption with auxiliary VH equipment turned ON per engine hour, l
- Consumption with auxiliary VH equipment turned ON per 100 km, l

In the *"Meter readings (from the CAN bus)"* section:

- Reading of CAN odometer at the beginning of the period, km
- Reading of CAN odometer at the end of the period, km
- Engine hour meter reading, hh:mm
- Fuel consumption meter reading, l

In the "Meter readings (CAN bus data) before maintenance service" section:

- Mileage before Maintenance service, km
- Engine hours before Maintenance service, hour

In the *"CAN bus data over the report generation period"* section:

- Mileage, km
- Engine hours, hh:mm
- Fuel consumption, l

In the *"iQFreeze work"* section:

- Unite type
- Number of errors during the period
- Time of refrigerator operation 1, 2, 3
- Engine hours, h, (% from the report period)
- Engine hours at the beginning of period, h
- Total fuel volume consumed, l
- Fuel consuption per motor hour (Heating/Cooling Unit), l
- Engine hours at the end of period, h
- Consumption with increased rpm per 100 km, l
- Consumption with increased rpm per engine hour, l
- Consumption with lowered rpm per 100 km, l
- Consumption with lowered rpm per engine hour, l
- Door opening for section 1, 2, 3
- Fuel consumption per motor hour (CHU), l, is calculated using the following formula: Fuel consumed total, l / Motor hours, hour:min:sec, (% of report period)
- Fuel consumption in the "Stop" refrigerator operation mode, l
- Fuel consumption in the "Heating" refrigerator operation mode, l
- Fuel consumption in the "Cooling" refrigerator operation mode, l
- Fuel consumption in the "Defrosting" refrigerator operation mode, l
- Fuel consumption in the "Special" refrigerator operation mode, l

To view a detailed report on the refrigerator errors, click **Number of errors during the period**.

To view a detailed report on the reefer door opening events, click **Number of door openings notifications**.

Reports

In the *"TPMS"* section:

- Mileage without data from the tire pressure control system on at least one wheel, km (% from mileage for the period)
- Mileage with data from the tire pressure control system, km (% from mileage for the period)
- Mileage with violation of normal pressure in at least one wheel, km (% from mileage for the period)
- Economy of tyre cover resource for the period (maintaining the target pressure), km
- Fuel saved during the period (maintaining the target pressure), l

In the *"Technical work parameters display"* section:

"Type of equipment" - select the type of equipment for which to display technological parameters.

For the TG series Grader equipment:

- Duration of operation by gear, h

    Gear 1

    Gear 2

    Gear 3

    Gear 4

    Gear 5

    Gear 6

    Neutral

    Limp mode

    No information on the gear

    Total

- Transmission. Operation with errors, h

    Error code with duration

    No errors with duration

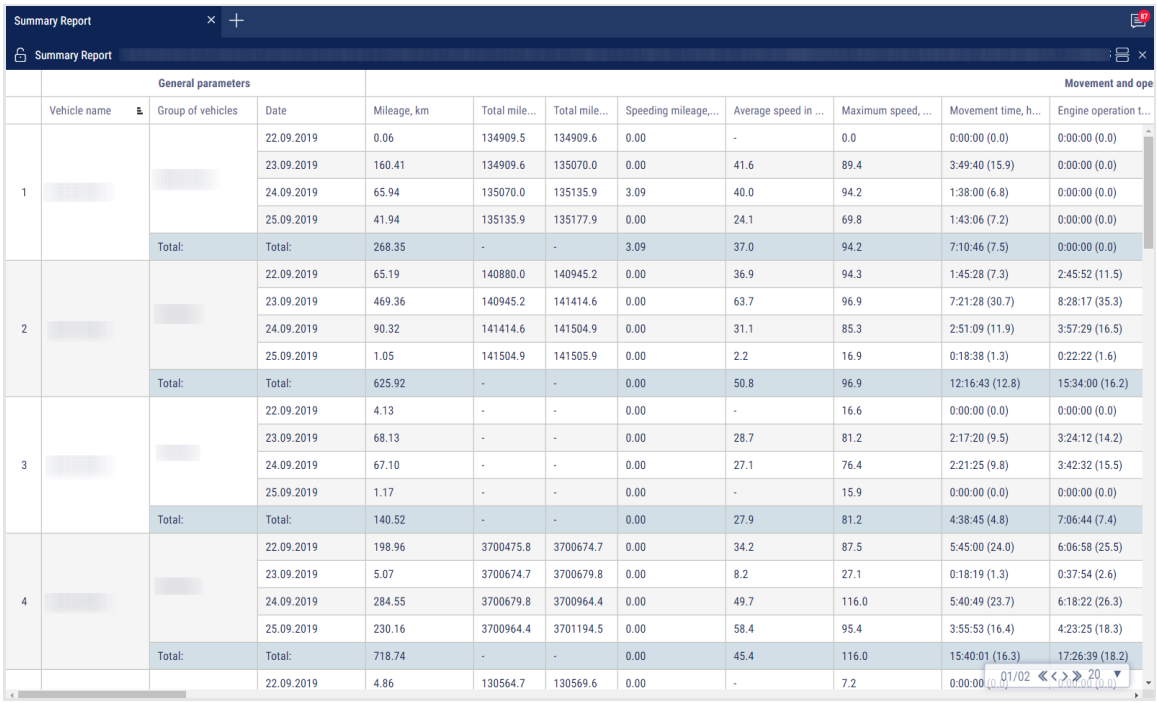
- Engine. Operation with errors, h

    Error code with duration

    No errors with duration

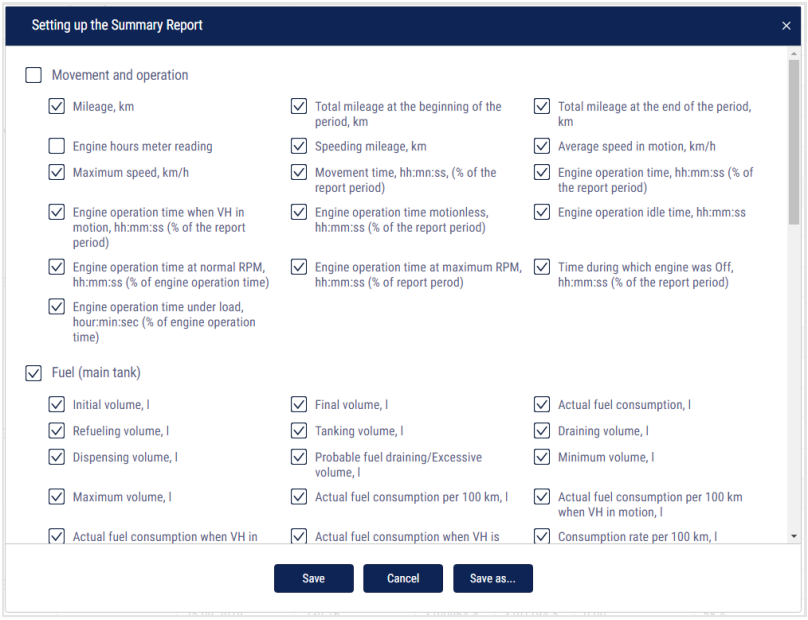
Summary Report

1. Select a one or several VH
2. Select a period of time for report generation
3. Press “Add report” button and select “Summary report”



Summary report groups by vehicle and by date.

To set up the report, press the right mouse button and select “Report settings”:



The Summary Report is built for one or several vehicles and includes all parameters of the "Statistics" report, except for the parameters calculated for multiple vehicles and listed below:

In the *"Movement and operation"* section:

Use the mileage meter only during the configuration of "Vehicle profile"/ "Setting the initial values for Maintenance control"/"According to the mileage": Use an odometer

- Total mileage at the beginning of the period, km - the mileage calculated as the sum of the initial value of the odometer and the distance to the date of the beginning of the period
- Total mileage at the end of the period, km - the mileage calculated as the sum of the initial value of the odometer and the distance to the date of the end of the period

In the *"CAN bus" data* section

- Reading CAN odometer reading at the beginning of the period, km - CAN bus odometer reading at the beginning of the period
- Reading CAN odometer reading at the end of the period, km - CAN bus odometer reading at the end of the period

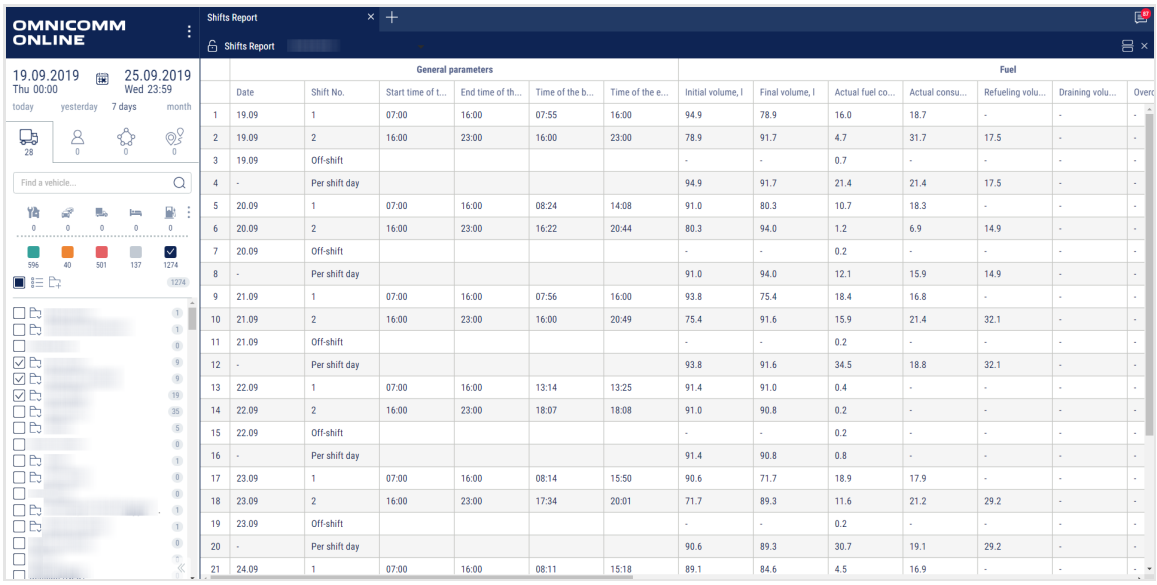
The vehicle fuel saving parameters are displayed in accordance with the established standard.

Shifts Report

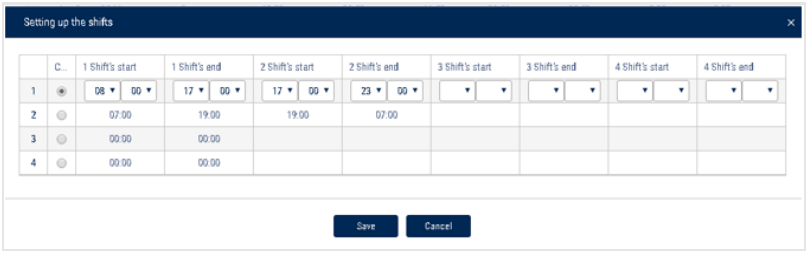
1. Select a VH

2. Please select a period of time for report generation
3. Press “Add report” button and select “Shifts report”.

If, according to the schedule, the shift continues on the next calendar day and the selected period does not include this day, the shifts report will include the period up to the end of shift (i.e. the report will include the next day).



Set up the shift schedule by pressing the right mouse button and selecting “Setting up the shift”. The window will open, in which you will see a line with a schedule to be added.



In the fields “Shift 1 start”, “2 Shift's start”, “3 Shift's start”, “4 Shift's start” enter the time in hh:mm format, from which the start of the first, second, third and fourth shifts will be accounted.

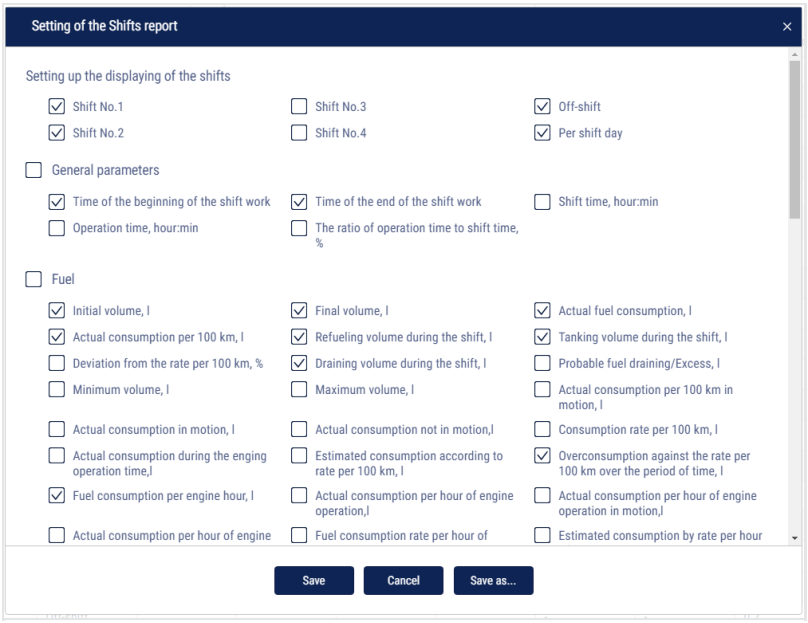
In the fields “1 Shift's end», “2 Shift's end”, “3 Shift's end”, “4 Shift's end” enter the time in hh:mm format starting from which the end of shift will be accounted.

In column “Current” select the checkbox. Press “Save” button.

Reports

The shifts report can be different from the report for a vehicle for a day as the shifts report is generated for shifts day according to the set shifts schedule but the report for a vehicle for the selected period from 00-00 to 23-00.

To set up the report, press the right mouse button and select “Report settings”:



The report contains the following information:

- Date is a day/month for which the report is generated
- Shift number is a number of shift according to the schedule
- Time of shift start, (hh:mm) is time of shift start according to the shifts schedule
- End time of the shift, (hh:mm) is time of the shift end according to the shifts schedule
- Start of work during a shift work is an actual shift start which is determined by the first ignition switch during the shift
- End of work during a shift work is an actual end of shift which is determined by the last switching on of ignition during the shift
- Initial volume, (l) is a volume of fuel at the start of the shift
- Final volume, (l) is a volume of fuel at the end of shift
- Actual consumption, (l) is an actual consumption of fuel during the shift
- Consumption per 100 km, (l) is an average consumption of fuel per 100 km

Reports

- Refueling volume during the shift, per shift, (l) is a volume of fuel refueled during the shift
- Draining volume during the shift, per shift, (l) is a volume of fuel draining during the shift
- Overconsumption against the rate per 100 km, (l) is a difference between actual consumption and consumption against the rate per 100 km. The value can be negative
- Consumption per one hour of engine operation, (l) is consumption of fuel calculated in accordance with engine operation per shift
- Deviation from the rate per engine hour, (%) is a difference between the actual and rated fuel consumption per hour of engine operation during the shift
- Overconsumption against the rate per hour of engine operation, (l) is a difference between an actual consumption and rated consumption per hour of engine operation during the shift: "overconsumption against the rate per engine hour" = "actual consumption" - "rated consumption per engine hour". The value can take negative values
- Deviation against the rate per 100 km, (l) is a difference between actual consumption and rated consumption per 100 km
- Mileage, (km) is a VH mileage per shift
- Time of engine operation, (hh:mm:ss) is a number of engine operation hours per shift
- Movement time, (hh:mm:ss) – is time of movement per shift which is calculated based on conditions: revolutions level is over 10 rev/min, speed is over 2 km/h and ignition is ON
- Engine OFF time, (hh:mm:ss)
- Engine operation time under load, (hh:mm:ss) is time per shift during which the level of engine revolutions was higher than idle revolutions level and lower than engine RPM level limit which are set in the VH profile
- Average speed in movement, (km/h) is an average VH motion speed during the shift
- CAN odometer reading at the beginning of the period, km - CAN bus odometer reading at the beginning of the period
- CAN odometer reading at the end of the period, km - CAN bus odometer reading at the end of the period

Use the mileage meter only during the configuration of "Setting the initial values for Maintenance control"/"According to the mileage": Use an odometer":

- Mileage at the beginning of the period, km - the mileage calculated as the sum of the initial value of the odometer and the distance to the date of the beginning of the period
- Mileage at the end of the period, km - the mileage calculated as the sum of the initial value of the odometer and the distance to the date of the end of the period

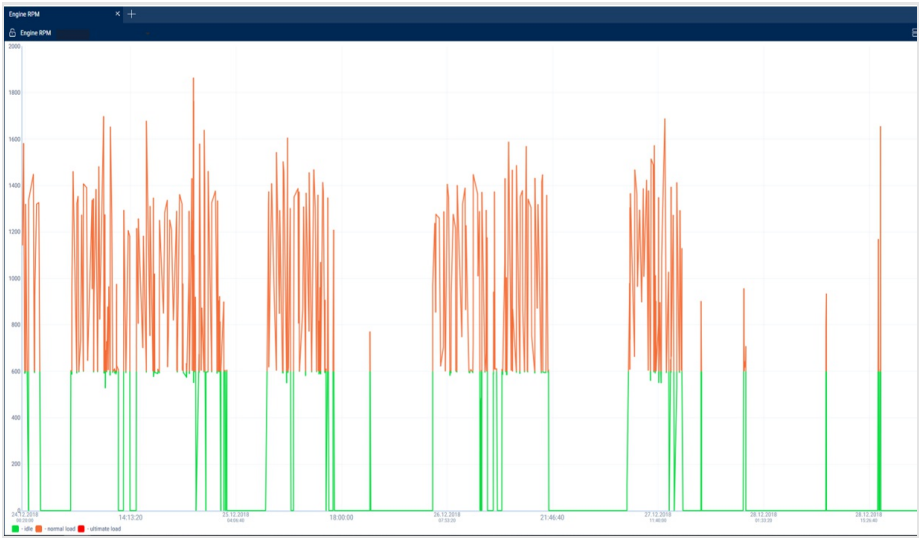
Operation

Engine Revolutions (RPM)

1. Select a VH
2. Please select a period of time for report generation
3. Press the button “Add report” and select “Engine revolutions”

In the program window, the report on VH engine revolutions will display.

> If a period between neighboring events recorded in the register is shorter than 8 minutes, ignition turn-off won't be displayed on the revolutions diagram.



The following color designations are used in the report:

- Green diagram means level of idle revolutions of the VH engine. The level of idle revolutions shall be set in the VH profile

- Yellow diagram means normal load, level of engine revolutions is greater than level idle revolutions and less than level of ultimate revolutions. The level of idle revolutions and engine RPM level limit shall be set in the VH profile
- Red diagram means ultimate load, level of revolutions greater than ultimate engine speed. The engine RPM level limit is set in the VH profile.

If necessary, increase the diagram scale. Select a part of the diagram, which shall be increased by pressing the left mouse button continuously

To return to the original diagram scale, refresh the report.

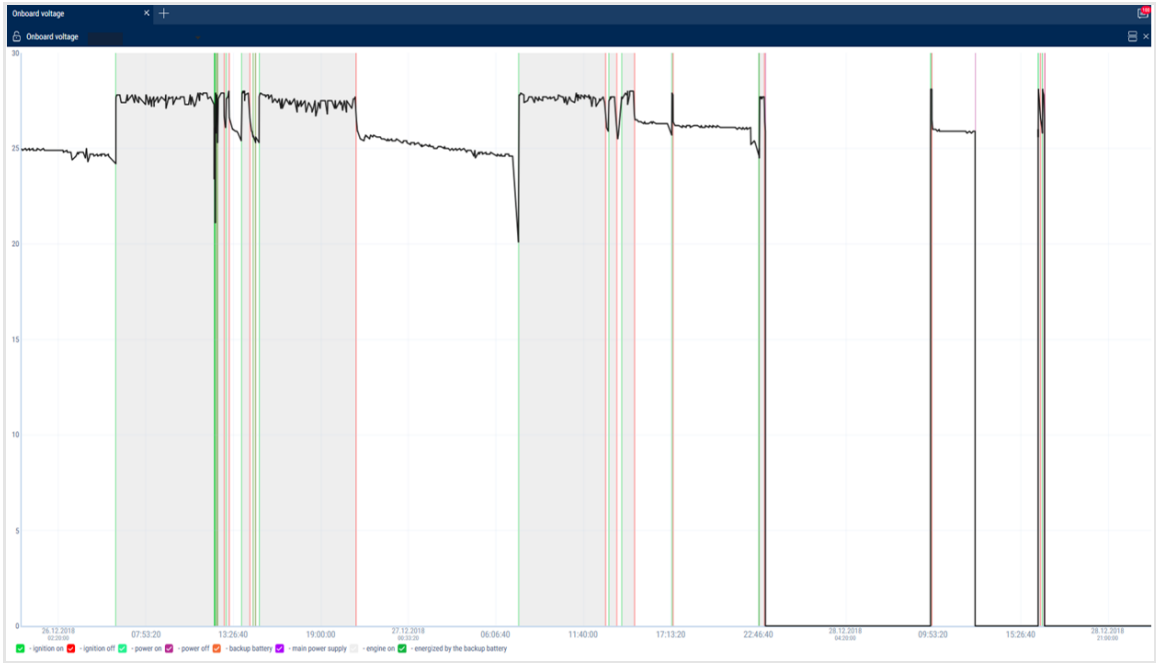
To display a pop-up tip with an accurate value of engine RPM select a required spot in the diagram.

Revolutions values from 0.0 to 1.0 mean there is no connection to revolutions sensor, please contact specialists who installed on-board equipment.
In case the values exceed 10 000 RPM, contact the specialists who installed on-board equipment, in order to get the “Correction coefficient of revolutions sensor” corrected.

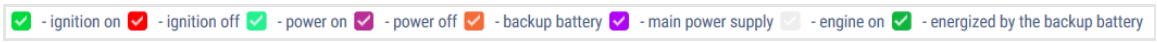
Onboard Voltage

1. Select a VH
2. Please select a period of time for report generation
3. Press the button “Add report” and select “Onboard voltage”

In the program window the report with data on onboard voltage of VH for the selected period will open.



Select the information to be displayed in the legend:



If time between the neighboring events is greater than the double value of data collection timer, the value of power voltage for this period shall be displayed equal to zero.

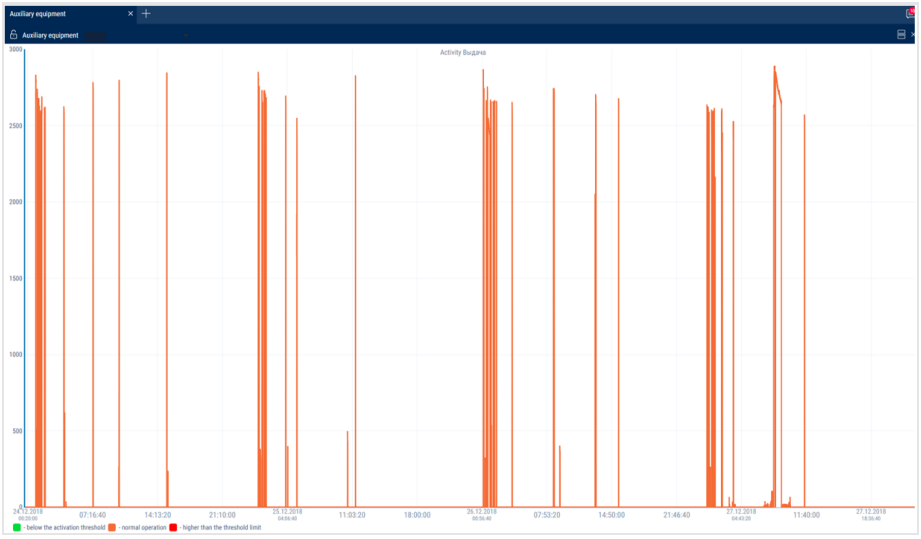
To display a pop-up tip with an accurate value of VH on-board network voltage select a required spot in the diagram with the mouse pointer.

Auxiliary Equipment Operation

One report can display up to four diagrams on operation of auxiliary equipment (for Omnicomm Profi Terminals).

1. Select a VH
2. Please select a period of time for report generation
3. Press the button “Add report” and select “Auxiliary equipment”

In the program window the report on operation of additional equipment will display:



The following color designations are used in the report:

- Red diagram means that the value is higher than the ultimate value set in the VH profile
- Green diagram means that the value does not exceed ultimate value set in the VH profile

To display a pop-up tip with an accurate value of fuel volume select a required spot in the diagram with a mouse pointer.

Refrigerator Operation

1. Select a VH
2. Press the button “Add report” and select “Refrigerator Operation”

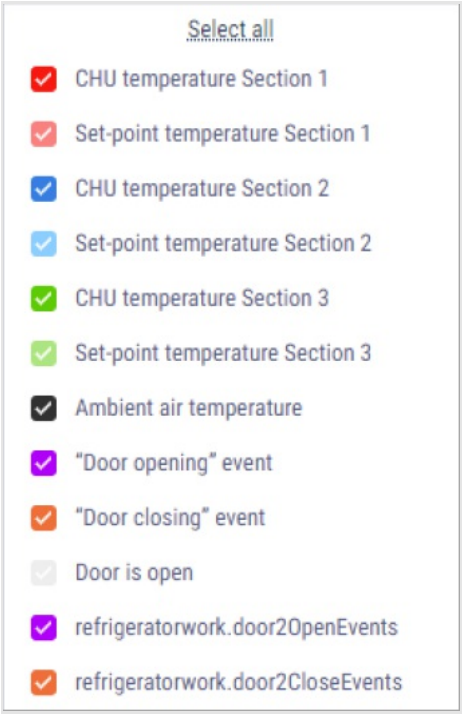
In the program window will display the report on operation of the current refrigerator state.

Reports

	Parameter	Value
1	iQFreeze name	iQF306363876376623
2	Serial number	306363876376623
3	Firmware version	3.8.062
4	Connection with CH system	available
5	Data actuality	24.10.2018 09:56:14
6	Installation type	Carrier Supra/Maxima
7	System serial number	478832
8	Number of errors	No errors
9	CH system temperature	3.00 °C
10	Set temperature	5.00 °C
11	Engine revolutions	Low
12	Compressor configuration	Continuous
13	System state	cooling
14	Accumulator voltage	14.3
15	Ambient air temperature	7.20 °C
16	Engine hours	7928.02

Press on the icon and select information for review:

Reports



The report contains the following information:

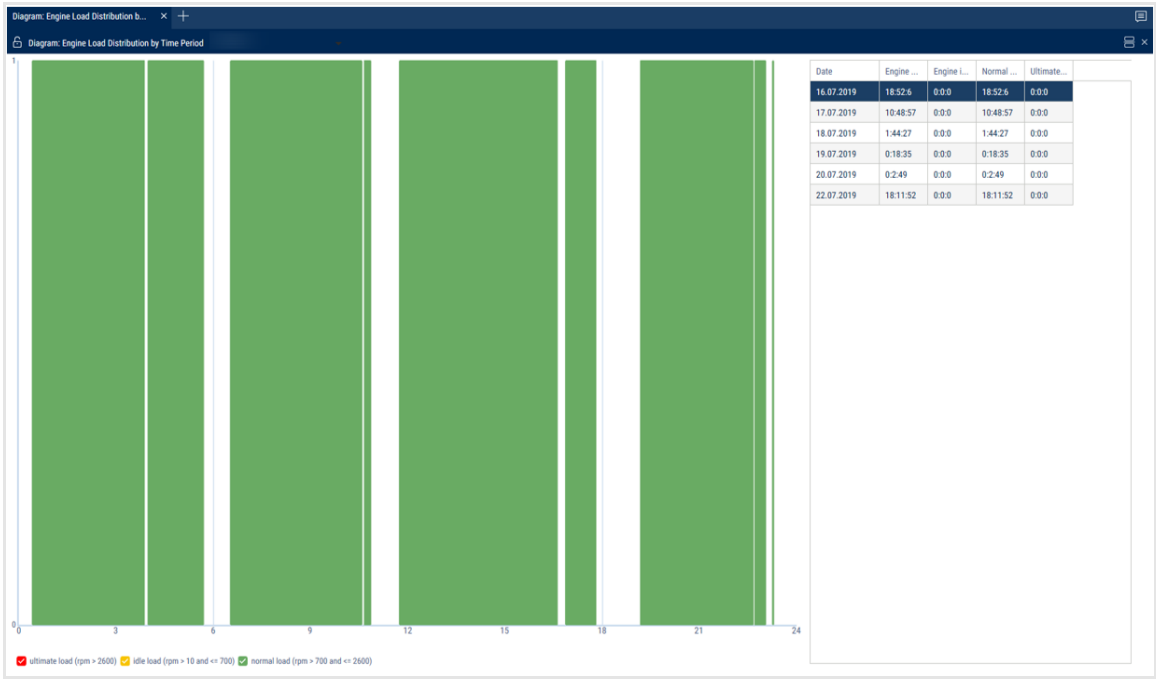
- iQFreeze name – iQFreeze name in the Bluetooth network
- Serial number – iQFreeze serial number
- Firmware version – iQFreeze firmware version
- Connection with CHU – availability of connection with cooling and heating unit. Possible options: "No connection", "Connection available"
- Data actuality – the date and time of raw data received from iQFreeze
- Installation type – CHU type. Possible options: ThermoKing SLX, Carrier Supra/Maxima, Zanotti, ThermalMaster 5100/8100, Carrier Vector 1850
- System serial number – CHU serial number
- Number of errors – number of CHU errors
- CHU temperature – actual temperature in the CHU section. Possible values: from -128.00 to +128.00
- Set temperature – set-point temperature in the CHU section. Possible values: from -128.00 to +128.00
- CHU temperature section 2 (3) – actual temperature in section 2 (3). Possible values: from -128.00 to +128.00

- Set-point temperature section 2 (3) – set-point temperature in section 2 (3). Possible values: from -128.00 to +128.00
- Door status – status of the CHU door. Possible options: open, closed
- Coolant temperature – CHU coolant temperature. Possible values: from -128.00 to +128.00
- Engine RPM – status of the CHU engine RPM. Possible options: stop, low, high
- Compressor configuration – configuration of the CHU compressor. Possible options: Start/Stop, Continuous
- System status – CHU system status. Possible options: stop, heating, cooling, defrosting
- Battery voltage – CHU battery voltage. Possible values: from 0.00 to +99.00
- Ambient air temperature – CHU ambient air temperature. Possible values: from -128.00 to +128.00
- Engine hours – Engine hours of CHU from the engine. Possible values: from 0.00 to 1000000.00

Engine Load Distribution by Time Period

1. Select a VH
2. Select a period of time for report generation
3. Press the button “Add report” and select “Diagram: Engine Load Distribution by Time Period”

In the program window the report on VH load distribution by time period per day will display.



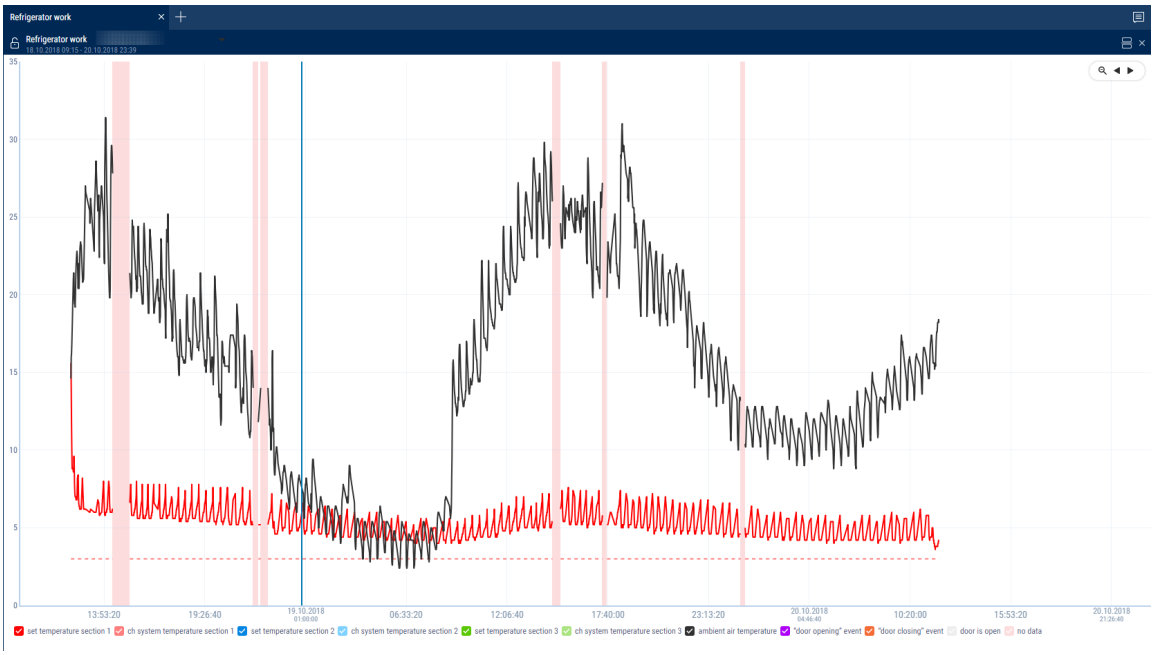
Select the information to be displayed in the legend:

- Green color - engine operation under normal loading
- Yellow color - engine idle time operation
- Red color - engine operation under ultimate loading

Refrigerator Operation

1. Select a VH
2. Please select a period of time for report generation
3. Press the button “Add report” and select “Refrigerator operation”

In the program window the report on operation of refrigerator operation will display.



Select the information to display in the legend:

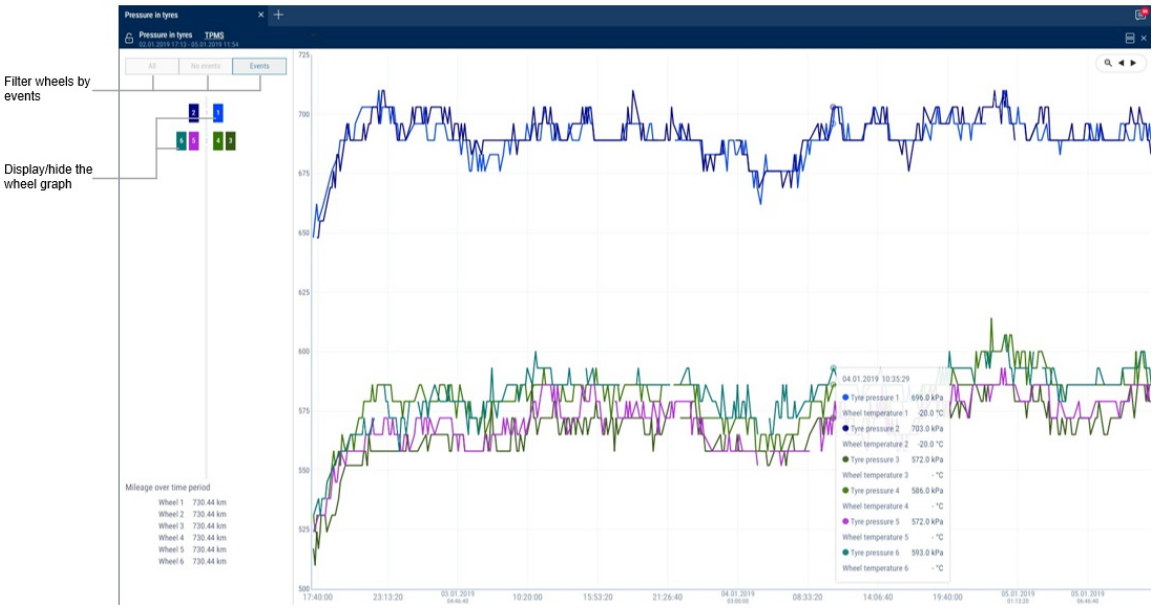
To build graphs with divisions into sections, click the right button and select “Analyze by section”.

Pressure in Tyres

1. Select a VH
2. Select a period of time for report generation
3. Press the button “Add report” and select “Pressure in tyres”

In the program window, the report on operation of pressure in tyres will display.

Reports



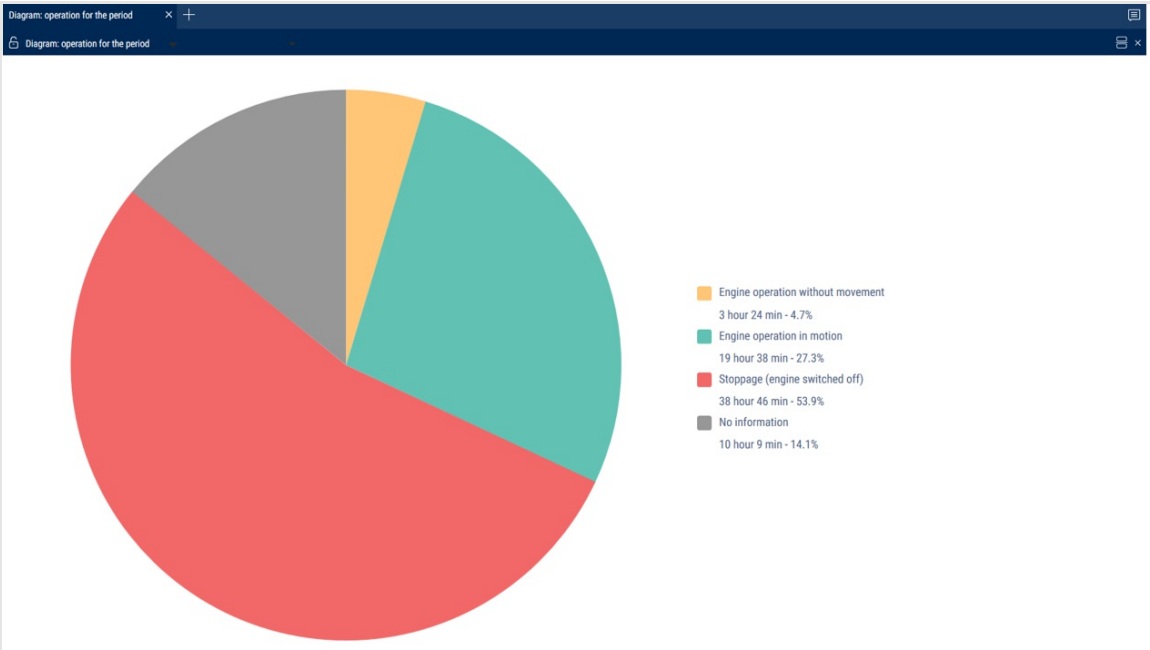
To display the mileage of each wheel for the period, right-click and select “Show mileage”.

To display pressure in tyres in Bar/kPa, right-click and select required parameter.

Operation for the Period

1. Select a VH
2. Select a period of time for report generation
3. Press the button “Add report” and select “Diagram: Operation for the Period”

In the program window the report on VH engine revolutions will display for the selected period.



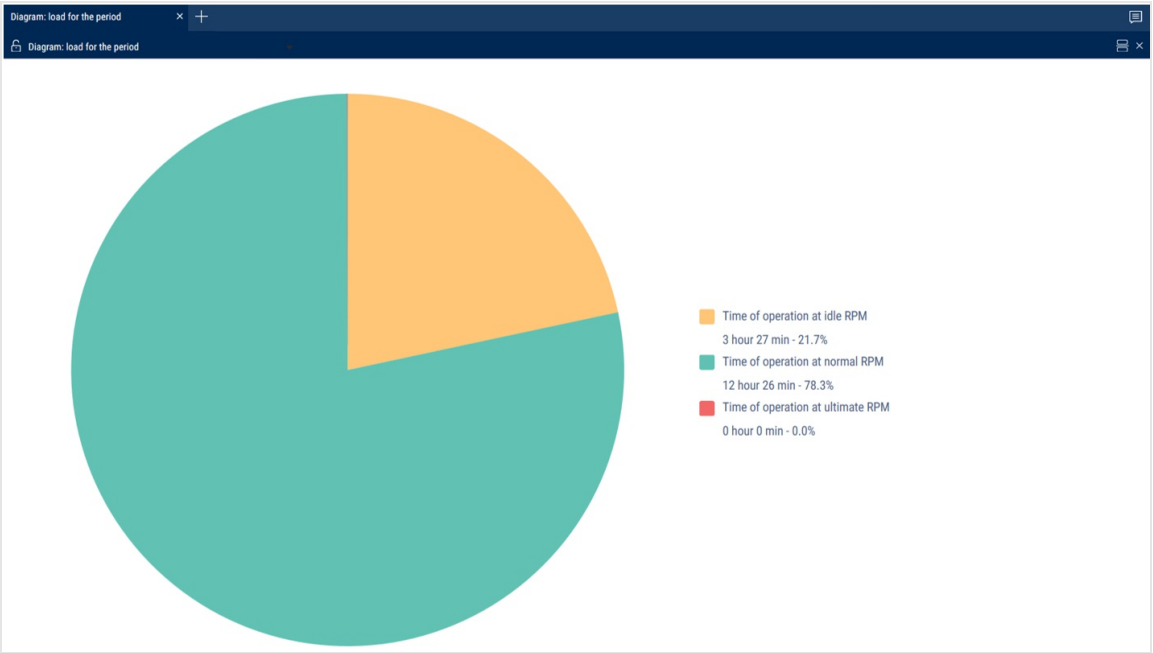
The following color designations are used in the report:

- Green color - the part of the period when VH was in motion
- Yellow color - the part of the period when VH worked at idle
- Red color - the part of the period when the vehicle was idle, i.e. it was with the engine off
- Gray color - the part of the period for which information has not arrived yet (for example, when report generation for the current day from 00:00 to 23:59 with the current time of 20:00 it will be shown that there is no information for 4 hours) or it is absent

The report displays the time in hours and as a percentage of the total time of the period that the vehicle was in motion, worked at idle and was with the engine off.

Load for the Period

1. Select a VH
2. Select a period of time for report generation
3. Press the button “Add report” and select “Diagram: Load for the Period”



The load diagram for a period of time displays the ratio of the period of time to the engine running time at idle, at nominal load, and at full load.

The following color designations are used in the report:

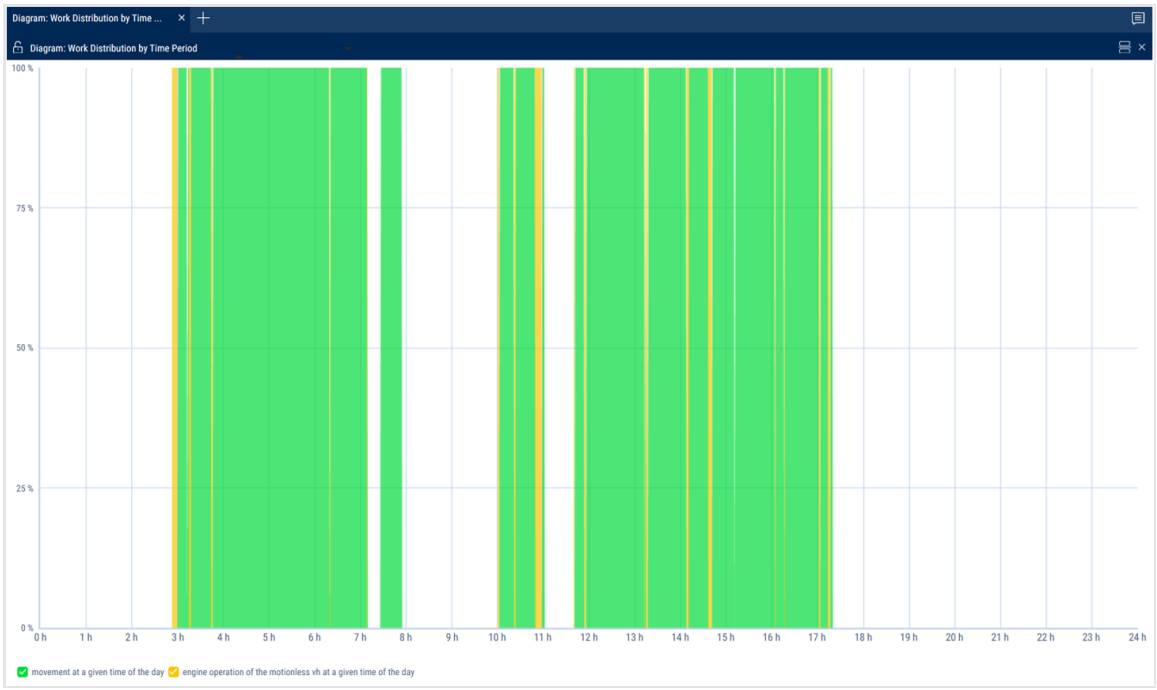
- Green color - the part of the period when the vehicle was at idle.
- Yellow color - the part of the period when the vehicle was operating under normal load (hh:mm) - the time during which the level of engine rpm was higher than the idling level and less than the ultimate load level. The idle and the ultimate levels of rpm is set in the VH profile
- Red color - the part of the period when the VH was working with exceeding the ultimate load (level of engine rpm was higher than the ultimate load level)

The report displays the time in hours and as a percentage of the total time of the period that the VH worked: at idle, under normal load and with excess of ultimate load.

Work Distribution by Time Period

1. Select a VH
2. Select a period of time for report generation

3. Press the button “Add report” and select “Diagram: Operation for the Period”



The following color designations are used in the report:

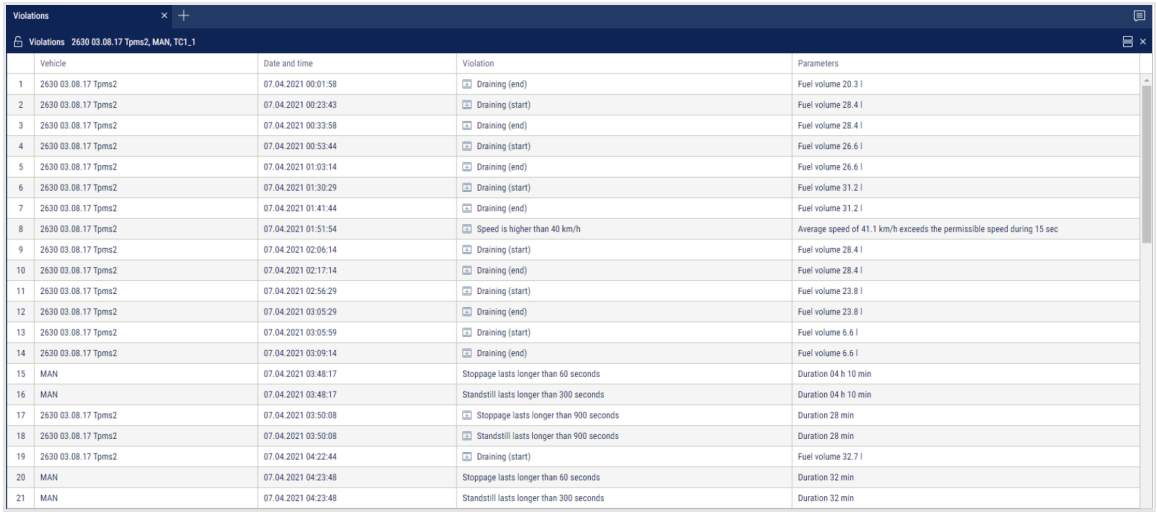
- Green color - movement of the VH
- Yellow color - operation of the VH at idle RPM

Events and Violations

Violations

1. Select a driver or vehicle
2. Select a period of time
3. Press the “Add report” button and select “Violations”

Reports


Violations

Violations 2630 03.08.17 Tpms2, MAN, TC1_1

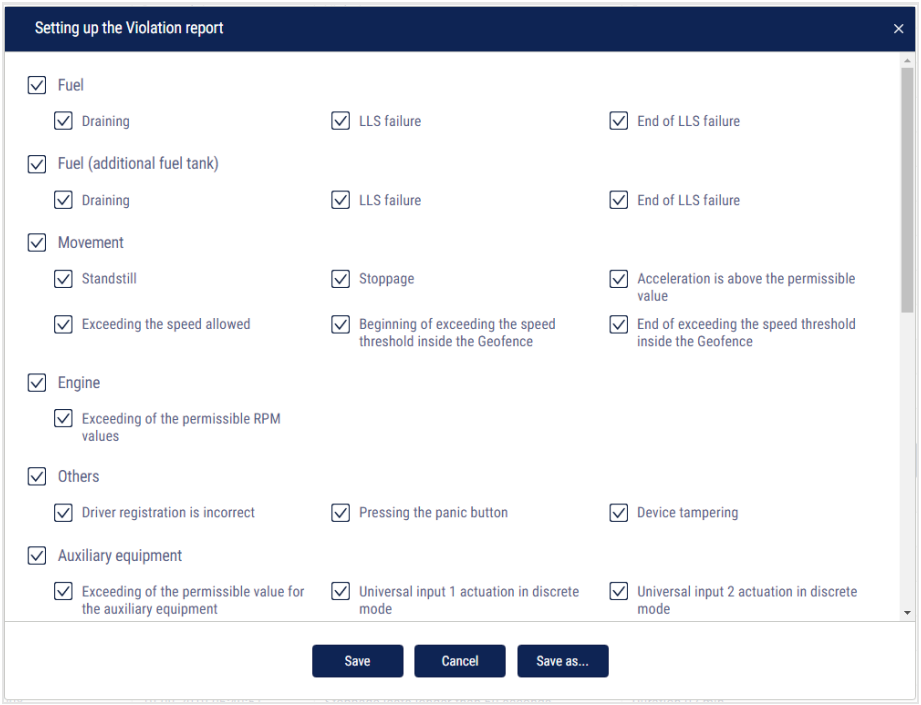
	Vehicle	Date and time	Violation	Parameters
1	2630 03.08.17 Tpms2	07.04.2021 00:01:58	Draining (end)	Fuel volume 20.3 l
2	2630 03.08.17 Tpms2	07.04.2021 00:23:43	Draining (start)	Fuel volume 28.4 l
3	2630 03.08.17 Tpms2	07.04.2021 00:33:58	Draining (end)	Fuel volume 28.4 l
4	2630 03.08.17 Tpms2	07.04.2021 00:53:44	Draining (start)	Fuel volume 26.6 l
5	2630 03.08.17 Tpms2	07.04.2021 01:03:14	Draining (end)	Fuel volume 26.6 l
6	2630 03.08.17 Tpms2	07.04.2021 01:30:29	Draining (start)	Fuel volume 31.2 l
7	2630 03.08.17 Tpms2	07.04.2021 01:41:44	Draining (end)	Fuel volume 31.2 l
8	2630 03.08.17 Tpms2	07.04.2021 01:51:54	Speed is higher than 40 km/h	Average speed of 41.1 km/h exceeds the permissible speed during 15 sec
9	2630 03.08.17 Tpms2	07.04.2021 02:06:14	Draining (start)	Fuel volume 28.4 l
10	2630 03.08.17 Tpms2	07.04.2021 02:17:14	Draining (end)	Fuel volume 28.4 l
11	2630 03.08.17 Tpms2	07.04.2021 02:56:29	Draining (start)	Fuel volume 23.8 l
12	2630 03.08.17 Tpms2	07.04.2021 03:05:29	Draining (end)	Fuel volume 23.8 l
13	2630 03.08.17 Tpms2	07.04.2021 03:05:59	Draining (start)	Fuel volume 6.6 l
14	2630 03.08.17 Tpms2	07.04.2021 03:09:14	Draining (end)	Fuel volume 6.6 l
15	MAN	07.04.2021 03:48:17	Stoppage lasts longer than 60 seconds	Duration 04 h 10 min
16	MAN	07.04.2021 03:48:17	Standstill lasts longer than 300 seconds	Duration 04 h 10 min
17	2630 03.08.17 Tpms2	07.04.2021 03:50:08	Stoppage lasts longer than 900 seconds	Duration 28 min
18	2630 03.08.17 Tpms2	07.04.2021 03:50:08	Standstill lasts longer than 900 seconds	Duration 28 min
19	2630 03.08.17 Tpms2	07.04.2021 04:22:44	Draining (start)	Fuel volume 32.7 l
20	MAN	07.04.2021 04:23:48	Stoppage lasts longer than 60 seconds	Duration 32 min
21	MAN	07.04.2021 04:23:48	Standstill lasts longer than 300 seconds	Duration 32 min

For vehicles equipped with video recording terminals:

	The video is available for viewing. Click on the icon to watch the video.
	The video can be requested.
	Video requesting in progress.

Select information to be displayed in the report by pressing the right mouse button and choosing “Report settings”:

Reports



In the “Fuel” and “Fuel (additional tank)” sections:

- Draining is a volume of drained fuel exceeding value “Fuel draining threshold” set up in the VH profile
- LLS failure is a date and time of start of LLS liquid level sensor failure
- End of LLS failure is a date and time when LLS liquid level sensor failure ended

In the “Movement” section:

- Standstill is a standstill over quantity of minutes set in the VH profile. Standstill shall be recorded upon the following conditions: ignition is OFF and speed is less than 2 km/h
- Stoppage shall be recorded upon the following conditions: ignition ON and speed is less than 2 km/h. The address shall not be recorded for stoppages
- Acceleration exceeds the permissible value — excession of the maximum allowed acceleration set in the VH profile
- Exceeding the speed allowed is exceeding maximum allowed speed set in the VH profile
- Beginning of exceeding the speed threshold inside the geofence is date and time of start of the allowable speed exceed when the VH is in the geofence
- End of exceeding the speed threshold inside the geofence is date and time of speed limit excess, when the VH is in the geofence

Reports

In the “Engine” section:

- Exceeding of the permissible RPM value means exceeding of maximum allowed level of engine RPMs set in the VH profile

In the “Other” section:

- Incorrect registration of a driver is an application of the I-Button with the identification number not registered in Omnicomm Online or application of the I- Button with the identification number registered for a driver, which has a “Fired” status in Omnicomm Online
- Device tampering is actuation of a device-tampering sensor (only for Omnicomm Profi 2.0 Terminal)
- Pressing the panic button is actuation of the panic button

In the “Auxiliary equipment” section:

- Exceeding of permissible value for auxiliary equipment - readings from auxiliary equipment exceed the limits set in vehicles profile
- Universal Input 1 actuation in discrete mode is control over actuation of universal input No. 1 of discrete type taking in account VH speed. In case there is no actuation, a violation will be recorded
- Universal Input 2 actuation in discrete mode is control over actuation of universal input No. 2 of discrete type taking in account VH speed. In case there is no actuation, a violation will be recorded

In the “Routes” section:

- Start of the trip is a deviation from the planned start of the trip, if the planned time of the trip start is set in the settings
- Visiting the control points is deviation from planned visiting of the control points, if the planned time of visiting is given in settings of the control points and control of control points visiting is ON
- Overriding route borders — exiting geofence limiting the route
- Trip completion — deviations on trip completion : deviation from trip completed to scheduled trip completion, completion of trip upon maximum allowed duration of trip control, the trip did not take place, the trip was forced to be completed

In the “Safe driving” section:

- Movement with headlights off
- Movement with unfastened seatbelts
- Exceeding of maximum speed limit
- Exceeding of allowed speed limit
- Short-term exceeding of maximum speed limit
- Short-term exceeding of allowed speed limit
- Exceeding the threshold of positive acceleration
- Exceeding the threshold of negative acceleration
- Exceeding the threshold of lateral acceleration
- Exceeding the threshold of vertical acceleration
- Allowed turning speed exceeding
- Maximum turning speed exceeding
- Traffic violation. Overspeeding
- Long-term idle engine operation
- Operation with cold engine
- Operation with overheated engine
- Operation in low RPM mode
- Operation in high RPM mode
- No valid GPS data

A description of data sources for safe driving parameters is provided in Omnicomm Online Administration Manual. The "Bad habits" section.

“Display event addresses” - check the box to display the address where the violation was recorded.

“Duration threshold” - enter the time period for which it is allowed to exceed the maximum allowable or the maximum speed, without a violation being recorded.

Duration threshold is used for the following events:

- Briefly exceeded the speed threshold
- Exceeding of maximum speed limit

- Exceeding of allowed speed limit
- Short-term exceeding of maximum speed limit
- Short-term exceeding of allowable speed limit
- Traffic violation. Overspeeding

The report contains the following information:

- Vehicle means a registration number or a unique vehicle name
- Date and time are date and time when Omnicomm Online has identified a violation
- Violation is one of violations selected to be displayed in the report
- Parameters mean a parameter typical for a particular type of violation. For example, in case of draining is a volume of fuel and time during which the draining took place
- Address is an address at which Omnicomm Online has identified a violation

In the “Address Display Settings” section select:

- 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:

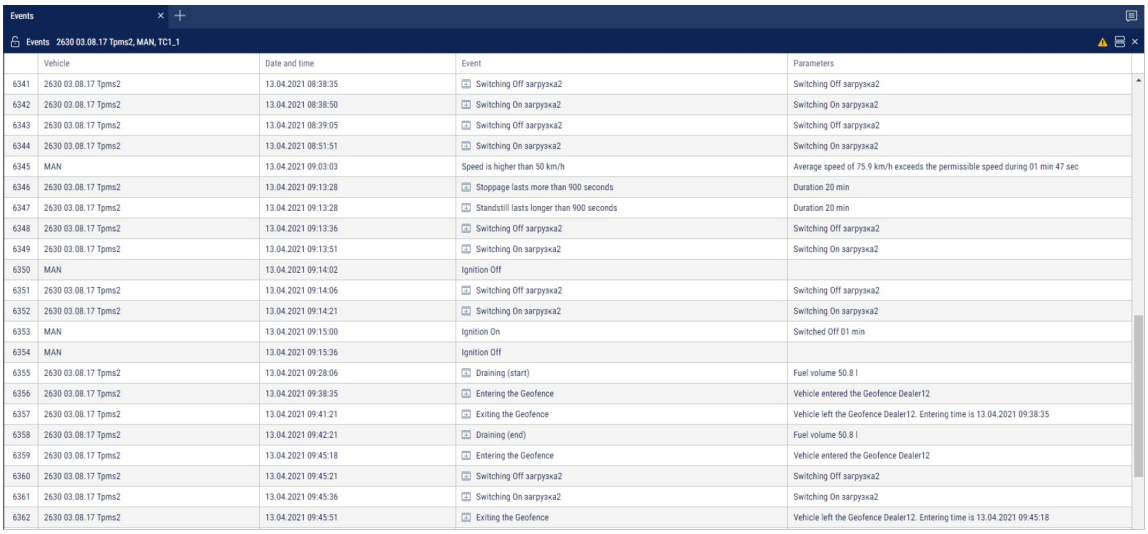
- Country
- Region
- City/Town
- Street
- Building
- Zip code

Events

1. Select an object
2. Select a period of time for report generation
3. Open the “Reports” tab and select “Events”

Reports

In the program window a report on the object events for the selected period will be displayed:

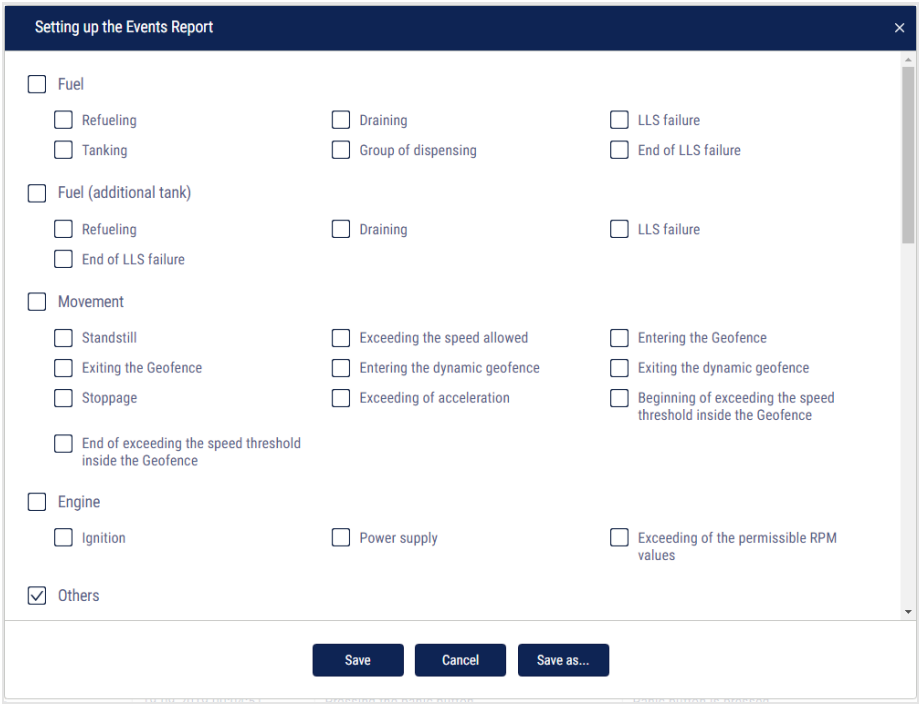


	Vehicle	Date and time	Event	Parameters
6341	2630 03.08.17 Tpms2	13.04.2021 08:38:35	Switching Off зарруэка2	Switching Off зарруэка2
6342	2630 03.08.17 Tpms2	13.04.2021 08:38:50	Switching On зарруэка2	Switching On зарруэка2
6343	2630 03.08.17 Tpms2	13.04.2021 08:39:05	Switching Off зарруэка2	Switching Off зарруэка2
6344	2630 03.08.17 Tpms2	13.04.2021 08:51:51	Switching On зарруэка2	Switching On зарруэка2
6345	MAN	13.04.2021 09:03:03	Speed is higher than 50 km/h	Average speed of 75.9 km/h exceeds the permissible speed during 01 min 47 sec
6346	2630 03.08.17 Tpms2	13.04.2021 09:13:28	Stoppage lasts more than 900 seconds	Duration 20 min
6347	2630 03.08.17 Tpms2	13.04.2021 09:13:28	Standstill lasts longer than 900 seconds	Duration 20 min
6348	2630 03.08.17 Tpms2	13.04.2021 09:13:36	Switching Off зарруэка2	Switching Off зарруэка2
6349	2630 03.08.17 Tpms2	13.04.2021 09:13:51	Switching On зарруэка2	Switching On зарруэка2
6350	MAN	13.04.2021 09:14:02	Ignition Off	
6351	2630 03.08.17 Tpms2	13.04.2021 09:14:06	Switching Off зарруэка2	Switching Off зарруэка2
6352	2630 03.08.17 Tpms2	13.04.2021 09:14:21	Switching On зарруэка2	Switching On зарруэка2
6353	MAN	13.04.2021 09:15:00	Ignition On	Switched Off 01 min
6354	MAN	13.04.2021 09:15:36	Ignition Off	
6355	2630 03.08.17 Tpms2	13.04.2021 09:28:06	Draining (start)	Fuel volume 50.8 l
6356	2630 03.08.17 Tpms2	13.04.2021 09:38:35	Entering the Geofence	Vehicle entered the Geofence Dealer12
6357	2630 03.08.17 Tpms2	13.04.2021 09:41:21	Exiting the Geofence	Vehicle left the Geofence Dealer12. Entering time is 13.04.2021 09:38:35
6358	2630 03.08.17 Tpms2	13.04.2021 09:42:21	Draining (end)	Fuel volume 50.8 l
6359	2630 03.08.17 Tpms2	13.04.2021 09:45:18	Entering the Geofence	Vehicle entered the Geofence Dealer12
6360	2630 03.08.17 Tpms2	13.04.2021 09:45:21	Switching Off зарруэка2	Switching Off зарруэка2
6361	2630 03.08.17 Tpms2	13.04.2021 09:45:36	Switching On зарруэка2	Switching On зарруэка2
6362	2630 03.08.17 Tpms2	13.04.2021 09:45:51	Exiting the Geofence	Vehicle left the Geofence Dealer12. Entering time is 13.04.2021 09:45:18

For vehicles equipped with video recording terminals:

	The video is available for viewing. Click on the icon to watch the video.
	The video can be requested.
	Video requesting in progress.

Select information to be displayed in the report by pressing the right mouse button and choosing “Report settings”:



This report contains the following information:

The “Fuel” and “Fuel (additional tank)” section:

- Start/end date and time of refueling
- Volume of refueling, (l)
- Start/end date and time of fuel tanking, (l)
- Volume of tanking, (l)
- Start/end date and time of draining
- Volume of draining, (l)
- Volume of dispensing, (l)
- Fuel level sensor failure
- End of fuel level sensor failure

The “Movement” section:

- Standstill is a standstill over quantity of minutes set in the VH profile. A standstill is recorded, if the following conditions are met: ignition is turned off, speed is less than 2 km/h, time from the moment of ignition turn-off has exceeded value “Standstills threshold” set in the VH profile

- "Date and time" displays date and time of standstill end, i.e. "Standstill over" shall be recorded only after the standstill end
- Speed higher than the value, set in the VH profile, (km/h)
- Entering the geofence
- Exiting the geofence
- Entering the dynamic geofence
- Exiting the dynamic geofence
- Beginning of exceeding the speed threshold inside the geofence Switching on control over speed exceeding in geofence and setting-up value of allowed speed shall be performed in the geofence profile
- End of exceeding the speed threshold inside the geofence
- Stoppage shall be recorded upon the following conditions: ignition ON and speed is less than 2 km/h;
- "Date and time" displays date and time of stoppage end, i.e. "Stoppage" shall be recorded only after the stoppage end
- Exceeding acceleration, set up in the VH profile

The "Engine" section:

- Date and time of ignition switching on/switching off
- Time during which the ignition was off. Duration of the ignition off time shall be calculated from the moment of ignition turning off to the moment of ignition switching on
- Exceeding of the permissible RPM values set up in the VH profile

The "Other" section:

- Establishing the connection displays date and time of the Terminal connection with the communication server
- Pressing the panic button
- Driver registration. Driver assignment shall be performed with a single I-Button key, with identification number registered on Omnicomm Online to I-Button reader or when assigning a driver to a VH. In case of application of the I-Button key with the same identification number Driver registration event will not be recorded

Reports

- OBDII. Check Engine deactivation
- I-Button application. The event is recorded upon application of the I-Button key with identification number registered on Omnicomm Online. If identification number of I-Button is not registered on Omnicomm Online, the event shall be highlighted in pink
- Completion of the driver registration. Completion of registration shall be performed upon application of I-Button key with identification number registered on Omnicomm Online and not corresponding with the previous one, or upon driver deassignment from the VH
- Device tampering
- Returning to the main power supply
- Changing to the backup battery supply (Omnicomm Profi terminals only)
- OBDII. Check Engine activation.

The “Auxiliary equipment” section:

- Date and time of auxiliary equipment switching on/ off
- Exceeding allowed value for auxiliary equipment
- Exiting area of exceeding allowed value for auxiliary equipment
- Address at which the event took place, if address display was switched on during setup

The “Routes” section:

- Overriding the route borders
- Start of the trip
- Visiting the control points
- Trip completion

The “iQFreeze” section:

- Changing the set-point temperature
- Door closing
- Switching to increased RPM
- Changing the refrigerator operating mode

- Setting the predetermined temperature
- The temperature is outside of the tolerance range
- Switching to reduced RPM
- Data transfer interruption
- Door opening
- The temperature is back within the tolerance range
- Refrigerator operation error

The “TPMS” section:

- Drop in the tire pressure
- Increase in tire temperature
- Possible violation of axis geometry
- Increase in the tire pressure
- Temperature normalization in the tire
- No data from the Tire Pressure Monitoring System
- Pressure restored
- Sudden loss of pressure

The “Safe Driving” section:

- Movement with lights off
- Exceeding of allowed speed limit
- Positive acceleration threshold exceeding
- Vertical acceleration threshold exceeding
- Traffic violation. Overspeeding
- Operation with overheated engine
- No valid GPS data
- Movement with unfastened seatbelts
- Short-term exceeding of maximum speed limit
- Negative acceleration threshold exceeding

- Allowed turning speed exceeding
- Long idling
- Operation in low RPM mode
- Exceeding of maximum speed limit
- Short-term exceeding of allowable speed limit
- Lateral acceleration threshold exceeding
- Maximum turning speed exceeding
- Operation with cold engine
- Operation in high RPM mode

A description of data sources for safe driving parameters is provided in Omnicomm Online. Administration Manual. "Bad habits" section .

In the “LLS 5” section:

- Exceeding the threshold for LLS5 correction coefficient - turn on to display event of exceeding the threshold for LLS5 correction coefficient set up in VH profile Omnicomm Online. Administration Manual. "Profile Editing" section .

In the “Address Display Settings” section, select:

- 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.)

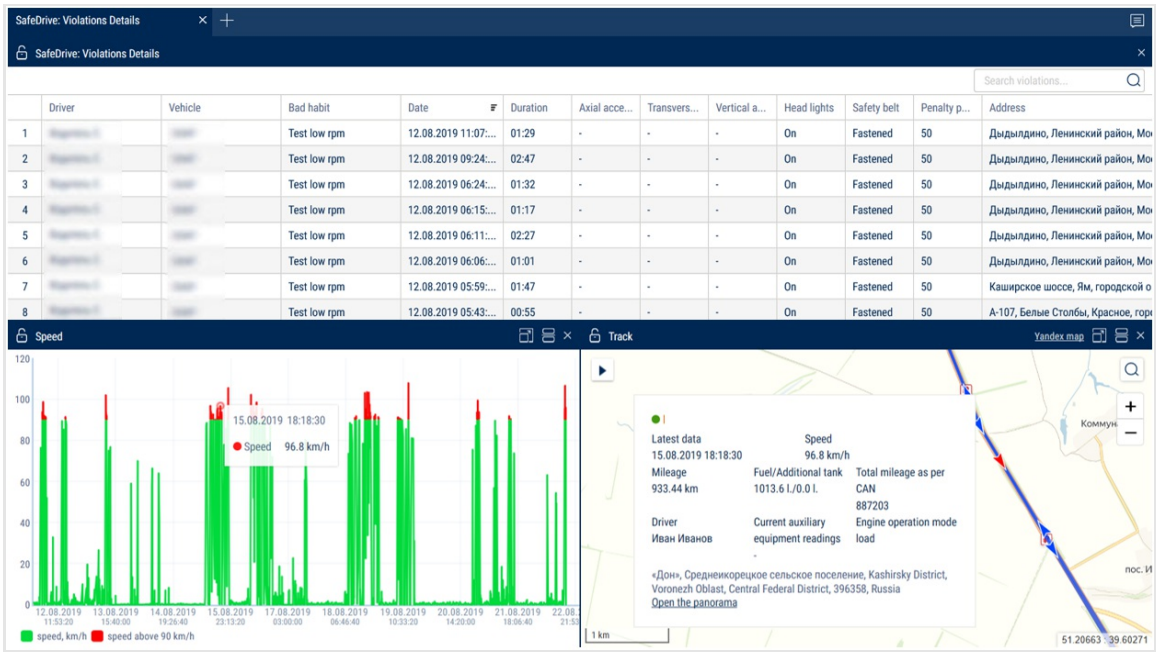
Select the parameters to display in the address:

- Country
- Region
- City/town
- Street
- Building
- Zip code

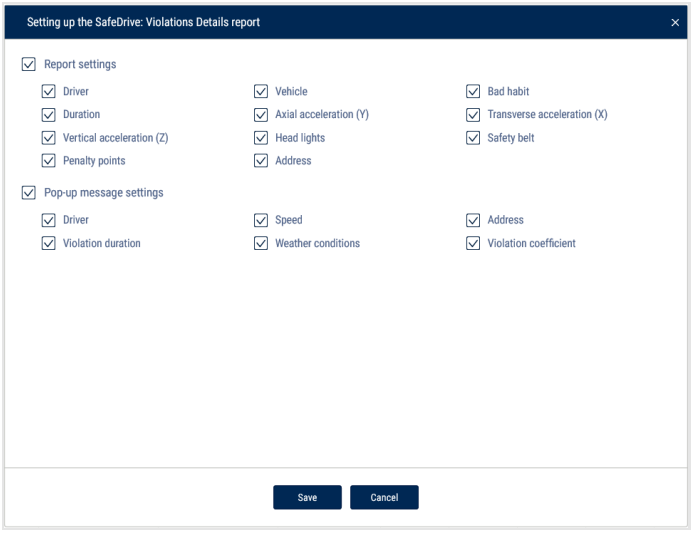
SafeDrive: Violations Details

Only the violations recorded according to the list of bad habits are displayed in the "SafeDrive: Violations details" report, (see Omnicomm Online. Administration Manual. The "Bad habits" section.) In order to display a violation, all the conditions of a bad habit must be recorded simultaneously (event, weather conditions, time of the day). If the "Safe driving" service is enabled, but the list of bad habits has not been filled out, the system will use the default list of bad habits.

1. Select the vehicles or the drivers
2. Select a time period
3. Press the “Add report” button and select “SafeDrive: Violations details”



To select the information displayed in the report, right-click and select “Report settings”:



Reports

The table report contains the following data:

- Driver – details of the driver registered on the vehicle
- Vehicle - the name of the vehicle
- Bad habit - the name of the bad habit
- Date - the date and time of the start of violation
- Duration - violation duration
- Vertical, axial, and transverse acceleration - acceleration values on the Z, Y, and X axes
- Headlights - the status of the lights (on/off)
- Seatbelt - the status of the seatbelt (fastened/unfastened)
- Penalty points - the number of points corresponding to the violation according to the bad habits settings
- Address - the address or the name of the geofence where the violation was recorded

To download the Excel file or to print the table report, right-click and select the required option.

To display the graphic report and track, select the violation from the list.

The graphic report is displayed depending on the recorded event:

- The “Speed” report:

Exceeding the permissible speed limit

Exceeding the maximum speed limit

Short-term exceeding of the maximum speed limit

Short-term exceeding of the permissible speed limit

Exceeding the positive acceleration threshold

Exceeding the negative acceleration threshold

Exceeding the lateral acceleration threshold

Exceeding the vertical acceleration threshold

Exceeding the permissible speed for approaching the turn

Exceeding the maximum speed for approaching the turn

Violation of traffic rules. Exceeding the speed limit

- The “Engine RPM” report:

Long term idle engine operation

Operation at low RPM

Operation at high RPM

- The “Auxiliary Equipment operation” report:

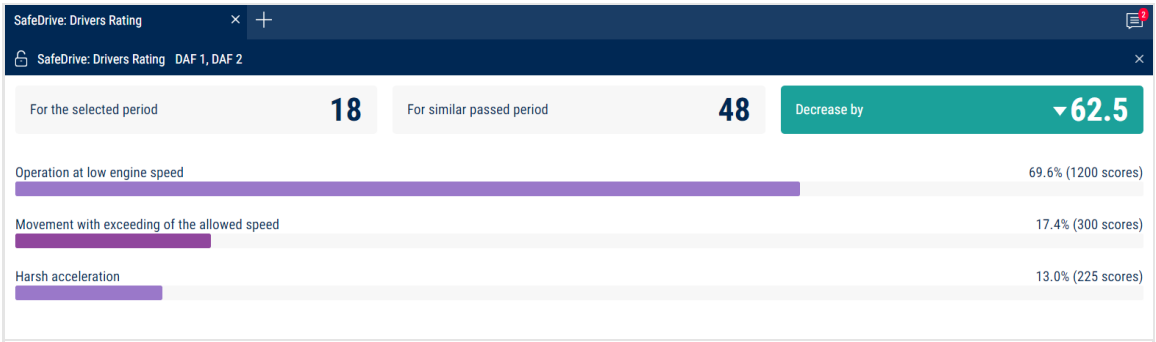
Movement with lights off

Movement with seat belts unfastened

SafeDrive: Drivers Rating

> Only the violations recorded according to the list of bad habits are displayed in the "SafeDrive: Drivers rating" report, (see Omnicomm Online. Administration Manual. The "Bad habits" section.) In order to display a violation, all the conditions of a bad habit must be recorded simultaneously (event, weather conditions, time of the day). If the "Safe driving" service is enabled, but the list of bad habits has not been filled out, the system will use the default list of bad habits.

1. Select the vehicles or the drivers
2. Select a time period
3. Press the “Add report” button and select “SafeDrive: Drivers rating”



In the “Number of violations” section:

- For the selected period - the total number of violations for the chosen period recorded for the selected vehicles/drivers
- For the corresponding period in the past - number of violations for the same period in the past

- Decreased by/Increased by - the difference, in percentage, between the current period and a corresponding one in the past

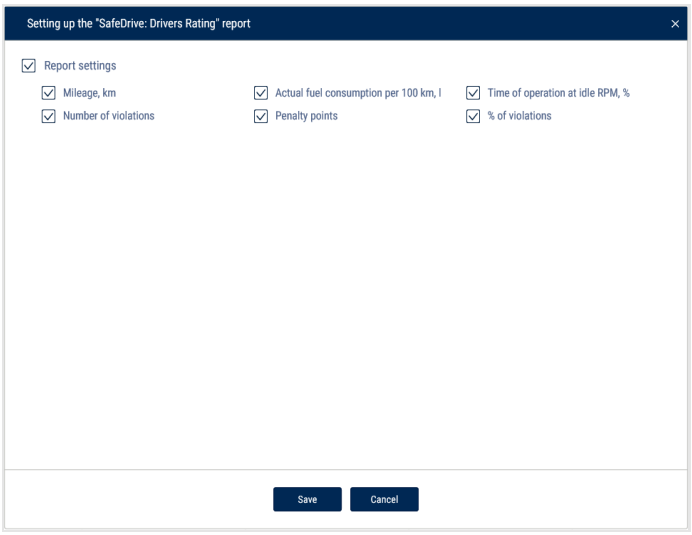
Color code: decrease - green. Increase - red.

In the “Bad habits” section:

The rating shows the distribution of violations by type.

Color code: critical violations - red, non-critical violations - blue.

To select the information displayed in the report, right-click and select “Report settings”:



The table report contains the following data:

- Vehicle/Driver - information about the vehicle or the driver registered on the vehicle
- Mileage, km
- Actual fuel consumption per 100 km, l
- Time of operation at idle RPM, %
- Number of violations – the number of violations registered during the period
- Penalty points - the number of points corresponding to each violation according to the bad habits settings
- % of violations – percentage of total points for violations of all objects over the selected time period

You can sort by any column in a table report.

To upload the table report to an Excel file, right-click and select “Export to .xls”.

Other

Current State

1. Select the vehicles
2. Press the “Add report” button and from the “Reports” list select “Current state”

Location

Location

	Vehicle name	Address	Driver	Main/additional. fuel, L	Speed, km/h	Latest data	GPS	Current readings from ...	Total mileage as per C.
1		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	84.8	0.00	29.01.2019 14:42:59	GPS data are not avail...	-	0
2		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	218.8	0.00	29.01.2019 14:43:10	Correct	-	0
3		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	395.2	0.00	29.01.2019 14:43:06	Correct	-	0
4		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	261.9	0.00	29.01.2019 14:42:39	GPS data are not avail...	-	0
5		Mauritius, Flacq, 40606, Bonne Mere	-	228.6	0.00	29.01.2019 14:42:52	Correct	-	0
6		Mauritius, Flacq, 40606, Bonne Mere	-	358.9	0.10	29.01.2019 14:42:45	GPS data are not avail...	-	0
7		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	150.1	0.00	29.01.2019 14:43:05	Correct	-	0
8		Mauritius, Queen Victoria, Flacq, 40606	-	418.8	0.00	29.01.2019 14:18:25	GPS data are not avail...	-	0
9		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	265.7	0.00	03.01.2019 03:17:48	GPS data are not avail...	-	0
10		Mauritius, Flacq, 40606, Bonne Mere	-	336.0	20.00	13.12.2018 16:34:48	Correct	-	0
11		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	126.1	0.00	06.12.2018 08:39:56	GPS data are not avail...	-	0
12		Mauritius, Rivière du Rempart, A6, Rivière du Rempart, Rivière du	-	319.2	0.00	29.01.2019 14:43:13	Correct	-	0
13		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	353.6	0.10	11.12.2018 19:44:39	GPS data are not avail...	-	0
14		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	339.9	0.00	29.01.2019 14:43:15	Correct	-	0
15		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	191.8	0.00	29.01.2019 14:42:49	GPS data are not avail...	-	0
16		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	216.7	0.00	29.01.2019 14:42:46	GPS data are not avail...	-	0
17		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	23.0	0.00	29.01.2019 14:25:53	GPS data are not avail...	-	0
18		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	198.4	0.00	29.01.2019 14:42:38	GPS data are not avail...	-	0
19		Mauritius, Queen Victoria, Flacq, 40606	-	144.6	0.00	29.01.2019 14:42:55	GPS data are not avail...	-	0
20		Mauritius, Grewals Lane, Moka, 80825, Moka	-	88.6	0.00	29.01.2019 14:42:55	GPS data are not avail...	-	0
21		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	137.6	0.00	29.01.2019 14:42:30	GPS data are not avail...	-	0
22		Mauritius, Mahebourg, B28, Grand Port, 51403, Vallee de ferney	-	120.9	0.00	29.01.2019 14:42:49	GPS data are not avail...	-	0
23		Mauritius, Alteo (FUEL) Refinery, B25, Flacq, 40606, Bonne Mere	-	139.9	0.00	29.01.2019 14:42:38	GPS data are not avail...	-	0
24		Mauritius, Flacq, Sebastopol	-	182.5	0.00	29.01.2019 14:42:44	GPS data are not avail...	-	0
25		Mauritius, Queen Victoria, Flacq, 40606	-	275.5	0.00	29.01.2019 14:42:35	GPS data are not avail...	-	0
26		Mauritius, Queen Victoria, Flacq, 40606	-	90.6	0.00	29.01.2019 14:42:26	GPS data are not avail...	-	0

The report contains the following information:

- Vehicle name
- Address - address of the last identified vehicle location
- Driver
- Main/additional fuel – fuel volume in the main and additional tanks
- Speed - current speed
- Latest data
- GPS - validity of the GPS data. Possible options: Correct, GPS data not available
- Current auxiliary equipment readings
- Total mileage as per CAN, km

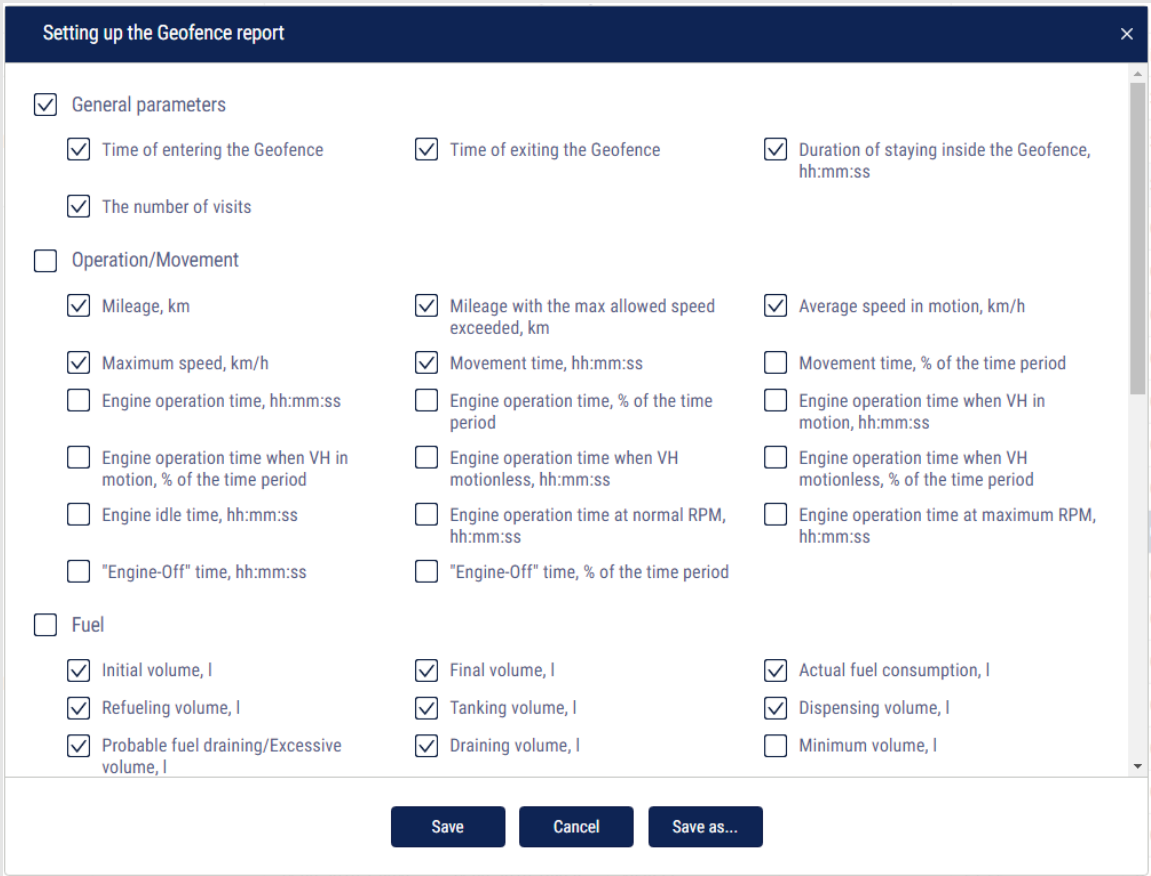
The address format can be set up in the object tree (see Settings of objects tree).

Visiting the Geofences

1. Select a vehicle or geofence
2. Please select a period of time for report generation
3. Press button “Add report” and select “Visiting the Geofences”

			General parameters				Operation/Movement				
	Vehicle	Geofence	Time of entering t...	Time of exiting th...	Duration of stayin...	The number of vis...	Mileage, km	Mileage with the ...	Average speed in ...	Maximum speed, ...	Mo
1		Outside the Geofe...	19.09.2019 00:00:...	24.09.2019 23:59:...	143:59:00	-	586.46	8.38	38.0	95.9	1
2		Total visits:	-	-	143:59:00	1	586.46	8.38	38.0	95.9	1
3		Total objects: 1	-	-	143:59:00	1	586.46	8.38	38.0	95.9	1
4			-	19.09.2019 11:34:...	11:34:01	-	0.19	0.00	-	5.7	0
5		Total visits:	-	-	11:34:01	1	0.19	0.00	-	5.7	0
6			-	19.09.2019 16:19:...	16:19:27	-	0.62	0.00	-	18.0	0
7		Total visits:	-	-	16:19:27	1	0.62	0.00	-	18.0	0
8			19.09.2019 11:35:...	19.09.2019 16:19:...	4:44:26	-	0.43	0.00	-	18.0	0
9			23.09.2019 19:18:...	24.09.2019 13:04:...	17:45:48	-	0.76	0.00	-	10.9	0
10		Total visits:	-	-	22:30:14	2	1.19	0.00	2.5	18.0	0
11			23.09.2019 19:18:...	24.09.2019 13:04:...	17:45:55	-	0.78	0.00	-	10.9	0
12			24.09.2019 21:14:...	-	2:44:52	-	0.23	0.00	-	7.1	0
13		Total visits:	-	-	20:30:47	2	1.01	0.00	-	10.9	0
14			24.09.2019 21:14:...	-	2:44:52	-	0.23	0.00	-	7.1	0
15		Total visits:	-	-	2:44:52	1	0.23	0.00	-	7.1	0
16			19.09.2019 16:19:...	19.09.2019 16:28:...	0:08:57	-	4.91	0.00	-	78.0	0
17			19.09.2019 16:46:...	19.09.2019 17:25:...	0:38:17	-	32.13	0.00	60.7	84.6	0
18		Outside the Geofe...	19.09.2019 17:25:...	23.09.2019 19:18:...	97:53:29	-	1072.33	0.00	51.6	96.9	2
19			24.09.2019 13:04:...	24.09.2019 18:02:...	4:58:22	-	51.56	0.00	33.2	85.3	1
20		Total visits:	-	-	103:39:05	4	1160.93	0.00	50.6	96.9	2
21			19.09.2019 16:28:...	19.09.2019 16:46:...	0:18:20	-	0.17	0.00	-	22.2	0

To select the information displayed in the report, right-click and select “Report settings”:



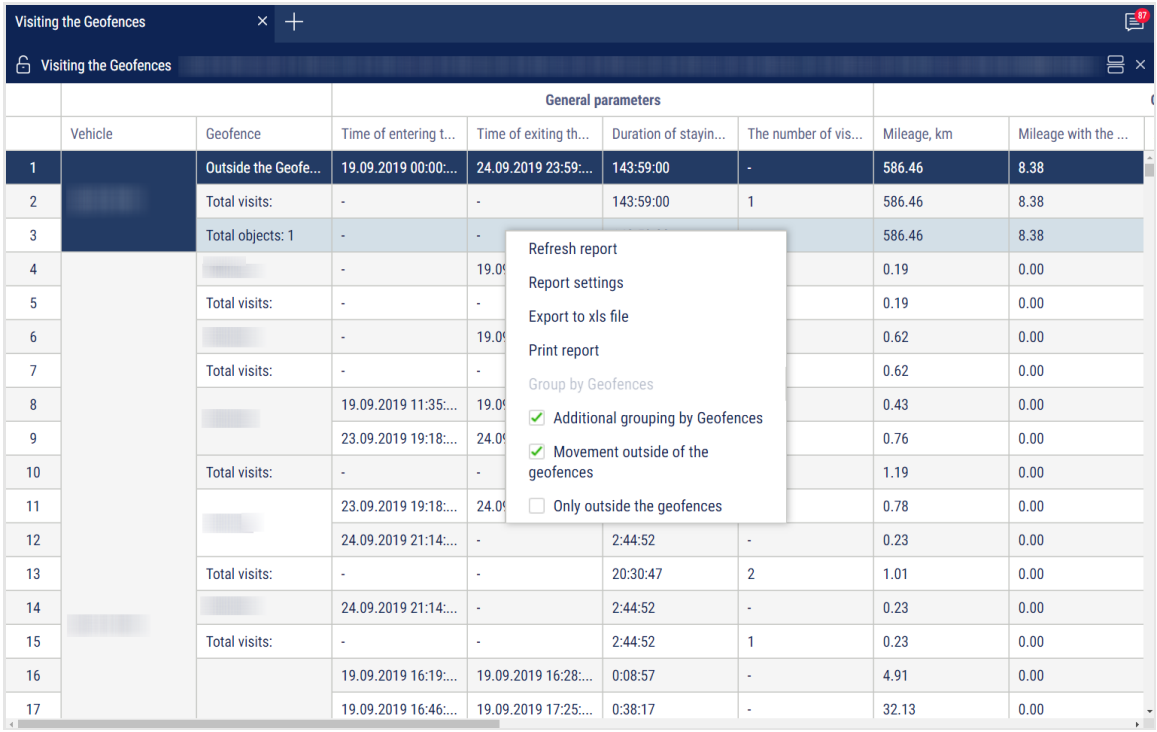
“Total values only” - if enabled, only the total values of parameters will be displayed in the report. The times of entering and leaving the geofence will not be displayed

“Group by the second column” - enables grouping by geofence name. When grouping by the second column is disabled, the items are grouped by the time of entering a geofence

“Movement outside of geofences” - enables displaying vehicle movement parameters outside of geofences

Right-click the mouse to enable the display of parameters outside geofences and additional grouping by geofences:

Reports



	Vehicle	Geofence	Time of entering t...	Time of exiting th...	Duration of stayin...	The number of vis...	Mileage, km	Mileage with the ...
1		Outside the Geofe...	19.09.2019 00:00:...	24.09.2019 23:59:...	143:59:00	-	586.46	8.38
2		Total visits:	-	-	143:59:00	1	586.46	8.38
3		Total objects: 1	-	-			586.46	8.38
4			-	19.0			0.19	0.00
5		Total visits:	-	-			0.19	0.00
6			-	19.0			0.62	0.00
7		Total visits:	-	-			0.62	0.00
8			19.09.2019 11:35:...	19.0			0.43	0.00
9			23.09.2019 19:18:...	24.0			0.76	0.00
10		Total visits:	-	-			1.19	0.00
11			23.09.2019 19:18:...	24.0			0.78	0.00
12			24.09.2019 21:14:...	-	2:44:52	-	0.23	0.00
13		Total visits:	-	-	20:30:47	2	1.01	0.00
14			24.09.2019 21:14:...	-	2:44:52	-	0.23	0.00
15		Total visits:	-	-	2:44:52	1	0.23	0.00
16			19.09.2019 16:19:...	19.09.2019 16:28:...	0:08:57	-	4.91	0.00
17			19.09.2019 16:46:...	19.09.2019 17:25:...	0:38:17	-	32.13	0.00

This report contains the following information on the VH:

- VH is a VH registration number or name
- Geofence is a geofence name
- Time of entering the geofence is date and time of entrace to thegeofence dd/mm/yyyy hh:mm
- Time of exiting the geofence is date and time of exit from the geofence of dd/mm/yyyy hh:mm
- Duration of staying inside the geofence, hh:mm
- Number of visits is a number VH geofence entries within the selected period of time
- Mileage, km is a mileage of the VH in the geofence
- Mileage with exceeding the maximum allowed speed, km - mileage exceeding the maximum allowed speed set in the vehicle profile
- Average speed in motion, (km/h) is an average VH motion speed in the geofence
- Movement time is time during which the VH was moving in the geofence, hh:mm:ss
- Downtime is time during which the VH's downtime was identified when the VH was in the geofence, hh:mm:ss

- Downtime, (hh: mm: ss) is time within a period which will be calculated using a formula:

"Downtime" = "time of operation under rated load" – "idle time within period" – "overultimate load time"

- General consumption, l is general consumption of the VH when the VH is in the geofence
- Volume of refueling, l is a volume of fuel refueled when the VH is in the geofence
- Volume of draining, l is volume of fuel drained when the VH is in the geofence

Calculation of the VH presence in the geofence:

– If at the period the VH was in the geofence, duration of the stay in the geofence shall be calculated from the period start and to the moment of escape from the geofence or end of period depending on which of these events took place earlier. I.e. if a moment of exit from the geofence is earlier than an end of period, the duration shall be calculated from the period start to the moment of exit from the geofence. In "Time of entrance to the geofence" field the dash "-" will be displayed.

– If at the period end the VH was in the geofence, duration of the stay in the geofence shall be calculated from the entry to the geofence or a period start depending on which of these events took place later and till the period end. If the moment of entry to the geofence is later, that the period start, duration of stay shall be calculated from the moment of entry to the geofence to the period end. In the field "Time of entry to the geofence" dash "-" shall be displayed.

– If the period end is greater than the current time, when calculating duration, the current time instead of period end shall be used.

- Treated area, ha
- Productivity, ha/hour
- Rated consumption, l/ha

Dynamic geofences can be created in the vehicle profile (see Omnicomm Online. Administration Guide. The "Profile editing" section).

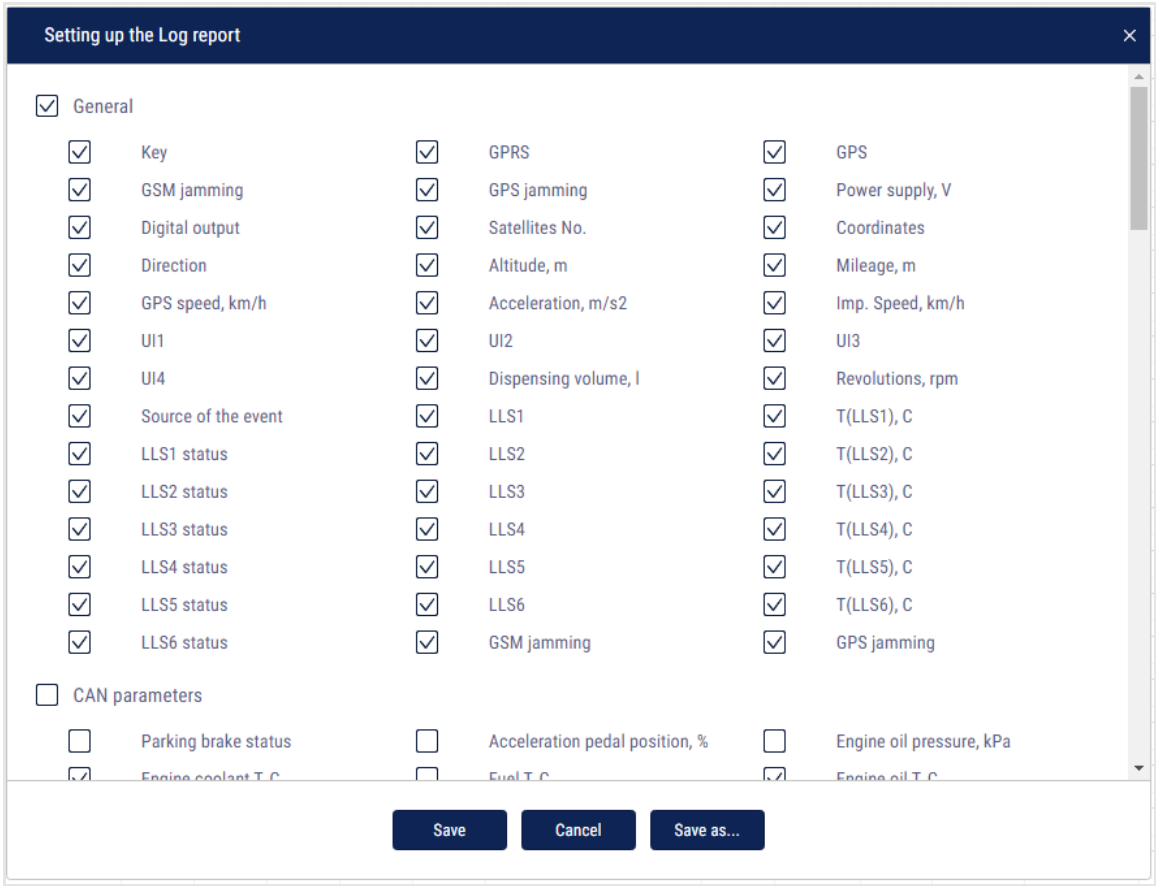
Log

Report “Log” allows review of “raw” data received by Omnicomm Online from the terminals.

1. Select a VH
2. Select a period of time for report generation

	Date and time	Key	GPRS	GPS	Pow...	Sate...	Coordinates	Dire...	Altitu...	Mile...	GPS sp...	Accel...	Revolutio...	Sourc...	LLS1	T(LLS1...	LLS1 st...	LLS2	T(LLS2...	LLS2 st...
22401	09.01.2019 10:40:49	On	Yes	Yes	28.0	18	54.8152316, 39.4237283	North	142.6	0.9	0.0	-	924.00	Timer	3544	-15	Ready	3665	-10	Ready
22402	09.01.2019 10:41:19	On	Yes	Yes	28.0	18	54.8152316, 39.42374	North	142.9	0.7	0.0	-	922.00	Timer	3544	-15	Ready	3665	-10	Ready
22403	09.01.2019 10:41:49	On	Yes	Yes	27.9	18	54.8152316, 39.4237449	North	143.0	0.3	0.0	-	592.00	Timer	3544	-15	Ready	3664	-10	Ready
22404	09.01.2019 10:42:19	On	Yes	Yes	28.0	18	54.8152316, 39.4237566	North	143.2	0.0	0.0	-	621.00	Timer	3544	-15	Ready	3664	-10	Ready
22405	09.01.2019 10:42:49	On	Yes	Yes	27.9	18	54.8152316, 39.4237566	North	143.2	0.7	0.1	-	600.00	Timer	3544	-15	Ready	3663	-10	Ready
22406	09.01.2019 10:43:19	On	Yes	Yes	28.0	18	54.8152333, 39.4237616	North	143.0	0.4	0.0	-	587.00	Timer	3544	-15	Ready	3663	-10	Ready
22407	09.01.2019 10:43:49	On	Yes	Yes	28.0	18	54.815235, 39.4237716	North	143.3	0.6	0.0	-	1041.00	Timer	3544	-15	Ready	3662	-10	Ready
22408	09.01.2019 10:44:19	On	Yes	Yes	28.0	16	54.815235, 39.4237816	North	143.4	0.1	0.0	-	768.00	Timer	3544	-15	Ready	3662	-10	Ready
22409	09.01.2019 10:44:49	On	Yes	Yes	27.9	18	54.815235, 39.4237816	North	143.4	0.6	0.1	-	808.00	Timer	3544	-15	Ready	3662	-10	Ready
22410	09.01.2019 10:45:19	On	Yes	Yes	28.0	18	54.8152366, 39.4237883	North	143.6	0.5	0.0	-	806.00	Timer	3544	-15	Ready	3661	-10	Ready
22411	09.01.2019 10:45:49	On	Yes	Yes	28.0	18	54.8152366, 39.423795	North	143.4	0.4	0.0	-	810.00	Timer	3544	-15	Ready	3661	-10	Ready
22412	09.01.2019 10:46:19	On	Yes	Yes	28.0	18	54.815235, 39.423795	North	143.3	0.0	0.1	-	606.00	Timer	3543	-15	Ready	3660	-10	Ready
22413	09.01.2019 10:46:50	On	Yes	Yes	27.9	17	54.815235, 39.423795	North	143.3	0.2	0.1	-	616.00	Timer	3543	-15	Ready	3660	-10	Ready
22414	09.01.2019 10:47:20	On	Yes	Yes	28.0	17	54.8152316, 39.4237983	North	143.4	0.4	0.0	-	597.00	Timer	3543	-15	Ready	3659	-10	Ready
22415	09.01.2019 10:47:50	On	Yes	Yes	28.0	17	54.8152316, 39.4238016	North	143.1	0.2	0.0	-	593.00	Timer	3543	-15	Ready	3659	-10	Ready
22416	09.01.2019 10:48:20	On	Yes	Yes	28.0	17	54.8152316, 39.4238133	North	142.8	0.0	0.0	-	592.00	Timer	3542	-15	Ready	3659	-10	Ready
22417	09.01.2019 10:48:50	On	Yes	Yes	28.0	17	54.8152316, 39.4238133	North	142.8	0.7	0.0	-	614.00	Timer	3542	-15	Ready	3659	-10	Ready
22418	09.01.2019 10:49:20	On	Yes	Yes	28.0	17	54.815235, 39.4238149	North	142.7	0.4	0.0	-	596.00	Timer	3542	-15	Ready	3659	-10	Ready
22419	09.01.2019 10:49:50	On	Yes	Yes	28.0	16	54.8152366, 39.4238199	North	142.6	0.3	0.0	-	594.00	Timer	3543	-15	Ready	3658	-10	Ready
22420	09.01.2019 10:50:20	On	Yes	Yes	28.0	17	54.8152366, 39.4238183	North	142.9	0.0	0.0	-	599.00	Timer	3543	-15	Ready	3658	-10	Ready
22421	09.01.2019 10:50:50	On	Yes	Yes	28.0	16	54.8152366, 39.4238183	North	142.9	0.1	0.0	-	600.00	Timer	3543	-15	Ready	3658	-10	Ready
22422	09.01.2019 10:51:20	On	Yes	Yes	28.0	16	54.8152383, 39.4238166	North	142.9	0.2	0.0	-	605.00	Timer	3543	-15	Ready	3658	-10	Ready
22423	09.01.2019 10:51:50	On	Yes	Yes	28.0	16	54.8152366, 39.4238216	North	142.8	0.3	0.0	-	599.00	Timer	3543	-15	Ready	3658	-10	Ready
22424	09.01.2019 10:52:20	On	Yes	Yes	28.0	16	54.8152399, 39.4238183	North	142.9	0.0	0.0	-	608.00	Timer	3543	-15	Ready	3658	-10	Ready

Select information to be displayed in the report by pressing the right mouse button and choosing “Report settings”:



Exception - used for correct calculating the mileage and displaying the “Track” report if there are points with coordinate drift. Check the boxes in the “Exception” column in the rows where a coordinate drift was recorded. Right-click and select “Save exception”. The points will be excluded for all users with rights to the vehicle for which an exception is applied.

To remove an exception, uncheck the box and select “Save exceptions”.

This feature is only available to the users with the corresponding rights.

After the exception is applied, the system will automatically recalculate all reports.

Report contains the following information on the selected vehicle:

The “General” section:

- Date and time is date and time of the event
- Ignition is a state of ignition at the certain moment (On or Off)
- GPRS is presence or absence of GPRS at the given moment
- GPS is presence or absence of data from GPS at the given moment

Reports

- GPS / GPRS jamming - presence of GPS / GPRS jamming
- Number of satellites is a number of satellites based on which GPS data were determined at the given moment
- Coordinates are coordinates (latitude and longitude) of the vehicle location at the given moment, measured in degrees or message "Connection of on-board equipment" at the moment of connection of the terminal with the Communication server. If the number of satellites for coordinates determination is less than 4, coordinates are displayed grey
- Direction is direction of vehicle motion (N (North); NE (Northeast); E (East); SE (Southeast); S (South); SW (Southwest); W (West); NE (Northwest))
- Altitude, (m) is altitude of the VH above the sea level
- Mileage, (km) is path travelled by the car
- GPS speed, (km/h) is VH speed at the given moment determined by GPS
- Ipm. speed is a value of speed in kilometers per hour by the data from the regular meter or read from the CAN-bus depending on the speed input settings on Omnicomm Online software
- Acceleration (m/s2) is a value of VH acceleration
- Revolutions means level of revolutions per minute by data from tachometer or read from the CAN-bus depending from the settings on Omnicomm Configurator software
- ON voltage is voltage of VH onboard network (V). For Omnicomm Profi in case of operation from reserve battery, voltage of reserve battery (RB)
- Data on CAN-bus
- Values from four universal inputs
- "Volume of fuel dispensing", (l) (for fuel tanker only) is volume of fuel dispensed through fuel nozzle
- "The source of event" is condition for creation of an event by the Terminal (turning point, timer)

The "Fuel" section:

- LLS1 status, LLS2 status, LLS3 status, LLS4 status, LLS5 status, LLS6 status:

– Ready, the sensor is connected and shows correct data

– No, the sensor is not connected or adaptive data collection in the Terminal is on

– Error, the sensor is connected, but shows incorrect data

– Not ready, the sensor is ready, but power supply to the sensor started less than 15 seconds ago

- LLS1 reading, (LLS2…6) reading – code, which is provided by LLS fuel level sensors from 1 to 6. In case if there is missing data in the calibration table the reading will be displayed as 0 in grey color
- LLS1 adjustment, (LLS2…6) set up – a coefficient of automatic adjustment of an Omnicomm LLS 5 fuel level sensor (from 1 to 6). In case if a model of fuel level sensor is different to that, it will be displayed as "- "
- LLS1 % deviation, (LLS2…6) % deviation – a change in fuel parameters for Omnicomm LLS 5 fuel level sensor (from 1 to 6). If a model of fuel level sensor is different to that, it will be displayed as "- "
- T (LLS1), T (LLS2), T (LLS3), T (LLS4), T (LLS5), T (LLS6) is temperature (C°) output from the first to the sixth sensor of LLS fuel level sensor. If there is no calibration table for the sensor, "0" is displayed grey

The "CAN parameters" section:

- Parking brake status
- Accelerator pedal position, %
- Engine oil pressure, kPa
- Engine coolant temperature, °C
- Fuel temperature, °C
- Engine oil temperature, °C
- Daily fuel consumption, l
- Instantaneous fuel economy, km/l
- Engine RPM
- Daily mileage, km
- Total mileage, km
- Total time of engine operation, h
- Overall fuel consumption, l
- Position of the service brake pedal

Reports

- Clutch pedal position
- Cruise Control status
- Axle load, kg
- Status of the service brake pedal
- Status of the clutch pedal
- Mileage before the next maintenance, km
- Engine operation time before the next Maintenance, h
- Instantaneous speed, km/h
- Doors status
- Seatbelts status
- CAN rpm
- OBDII. Mileage after error reset, km
- OBDII. Time after error reset, h
- OBDII. Fuel level, %
- OBDII. VIN (VH Identification number)
- OBDII. Check Engine error

The “Video OKO” section:

This section will be displayed only for Omnicomm OKO 3.0 video terminals.

- Loss of 1,2,3,4 camera signal – loss of camera signal. Possible options: Signal is lost/no
- Camera (1,2,3,4) recording – video recording. Possible options: Video recording/ Video recording disabled
- Connecting SDCARD 1, 2 to DVR – Installed SD cards 1,2 in the video terminal. Possible options: Yes/ No.
- Volume of SDCARD 1,2, GB – memory capacity of SD cards in the video terminal
- Free on SDCARD 1,2, GB (%) – empty memory on the SD cards
- DVR is connected to the server – video terminal connection status to the server. Possible options: Yes/ No
- Time of DVR event – the time period of a recorded event

Reports

- DVR error –video terminal errors

The “iQFreeze” section:

- CHU temperature
- Refrigerator temperature in section 2
- Refrigerator temperature in section 3
- Set-point temperature
- Set-point temperature 2
- Set-point temperature 3
- Ambient temperature
- Coolant temperature
- Engine rpm
- Compressor configuration
- System status
- Door status
- Battery voltage
- Battery current
- Operating hours from the engine
- Operating hours from the onboard network
- Unit serial number
- Trailer serial number
- Number of errors
- Code of the most critical error
- Code of 2nd, 3rd, 4th, 5th, 6th most critical errors
- IQFreeze serial number
- IQFreeze firmware version
- IQFreeze Bluetooth name
- Unit type

Reports

- Connection to CHU
- Digital inputs No.1, No.2

The “Temperature sensor i-wire” section:

- Temperature sensor i-wire

The “Tire Pressure Monitoring” section:

- Wheel number: current pressure, kPa
- Wheel number: current temperature, °C
- Wheel number: wheel sensor connection status
- Wheel number: sensor battery charge
- Wheel number: message sending reason. Possible values: recurrent sending, air leakage, rapid air leakage, tire re-inflated

The “Safe Driving” section:

- Violation source
- Speed threshold, km/h
- RPM threshold, rpm
- Acceleration threshold, m/s^2
- Lateral acceleration threshold, m/s^2
- Braking acceleration threshold, m/s^2
- Vertical acceleration threshold, m/s^2
- Acceleration along the X-axis, m/s^2
- Acceleration along the Y-axis, m/s^2
- Acceleration along the Z-axis, m/s^2
- Accelerometer status

“Technical parameters operation displaying” - check the box to display the technical operation parameters (e.g. load on the ALM axis). Also, to display the axis load, it is necessary to adjust the settings in the vehicle profile, see Profile editing

Reports

The “GenComm generators” section:

- Oil pressure, kPa
- Coolant temperature, °C
- Voltage of the charging generator, V
- Frequency of the output voltage, Hz
- L1, L2, L3 voltage, V
- L1-L2, L2-L3, L1-L3 line voltages, V
- L1, L2, L3 currents, A
- L1, L2, L3 active power, W
- L1, L2, L3 total powers, kVA
- L1, L2, L3 reactive power, kvar
- Power factor
- Motor hours
- Total energy generated, kW·h
- Fuel volume, %
- Charge current, A
- Battery voltage, V
- Revolutions, rpm
- Diesel status
- Status of the diesel-driven generator set

Optional parameters:

- FLS PMP-201, Struna+

The “Setting up the address displaying” section:

In order to enable the “Setting up the address displaying” section you have to file the request through Omnicomm Technical Support (support@omnicomm-world.com).

- 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.)

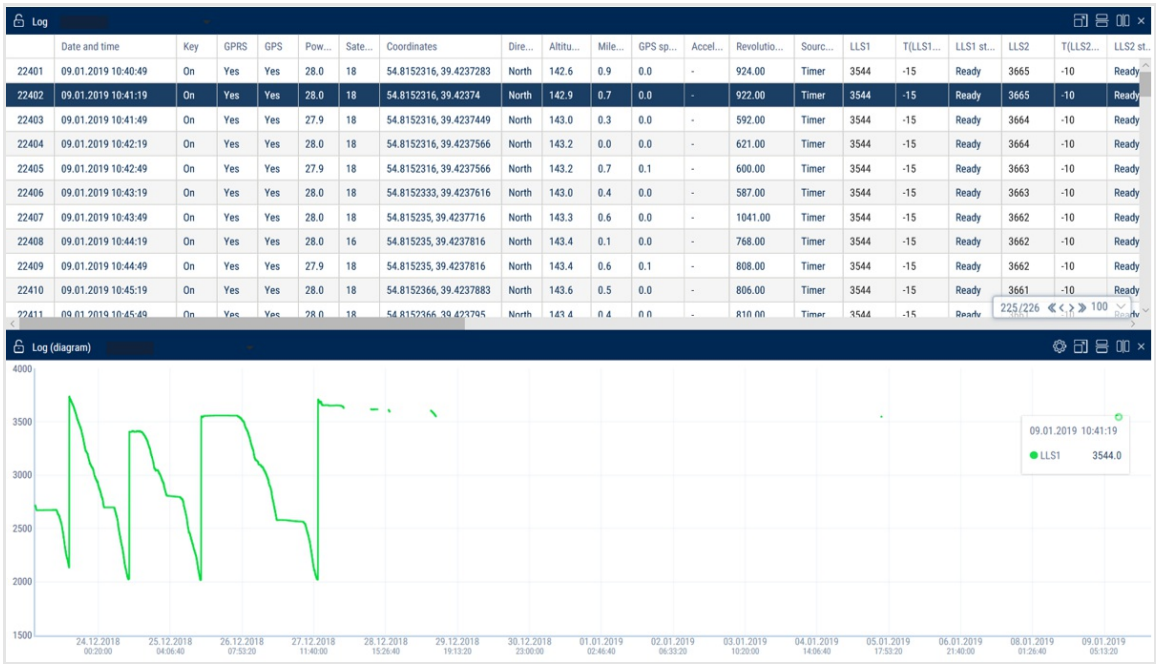
Select the parameters to display in the address:

- Country
- Region
- City/town
- Street
- Building
- Zip code

To change the width of a column, select the border of the column and drag it while holding the left button of the mouse.

Display parameters as a graph

1. Select a column with a parameter
2. Right-click and select “Display as a graph”



When a point is selected on the graph, the corresponding row in the “Log” report is automatically highlighted.

Hiding rows with parameter values that are equal to zero or missing

1. Select a column that contains rows with valid and missing parameter values

2. Right-click and select “Hide rows with empty cells”
3. Rows with missing values will be hidden in the report. To show rows again, right-click and select “Reset all filters”.

Let's take the column with the parameter “oil pressure in the engine” as an example.

To hide the empty cells:

	Date and time	Key	GPRS	GPS	Pow...	Sate...	Coordinates	Dire...	Altitu...	Mile...	GPS sp...	Accel...	Revolutio...	Sourc...	LLS1	T(LLS1...	LLS1 st...	LLS2	T(LLS2...	LLS2 st...
51	23.12.2018 00:16:34	On	Yes	Yes	27.7	15	53.4781133, 40.1913183	North	159.6	0.2	0.0	-	595.00	Timer	2690	-7	Ready	2476	-3	Ready
52	23.12.2018 00:17:04	On	Yes	Yes	27.7	14	53.4781133, 40.1913183	North	159.6	0.2	0.0	-	595.00	Timer	2689	-7	Ready	2476	-3	Ready
53	23.12.2018 00:17:34	On	Yes	Yes	27.7	14	53.4781149, 40.1913166	North	159.8	0.2	0.0	-	599.00	Timer	2688	-7	Ready	2477	-3	Ready
54	23.12.2018 00:18:04	On	Yes	Yes	27.6	14	53.4781149, 40.1913149	North	159.8	0.0	0.1	-	600.00	Timer	2687	-7	Ready	2478	-3	Ready
55	23.12.2018 00:18:34	On	Yes	Yes	27.6	13	53.4781133, 40.1913133	North	159.8	0.1	0.0	-	596.00	Timer	2686	-7	Ready	2479	-3	Ready
56	23.12.2018 00:19:04	On	Yes	Yes	27.6	14	53.4781133, 40.1913133	North	159.8	0.2	0.1	-	602.00	Timer	2685	-7	Ready	2479	-3	Ready
57	23.12.2018 00:19:34	On	Yes	Yes	27.6	14	53.4781116, 40.1913149	North	159.9	0.2	0.0	-	596.00	Timer	2684	-7	Ready	2480	-3	Ready
58	23.12.2018 00:20:04	On	Yes	Yes	27.6	13	53.4781099, 40.1913183	North	160.1	0.0	0.1	-	602.00	Timer	2683	-7	Ready	2480	-3	Ready
59	23.12.2018 00:20:34	Off	Yes	Yes	26.5	13	53.4781083, 40.1913233	North	160.2	0.3	0.0	-	605.00	Timer,...	2682	-7	Ready	2481	-3	Ready
60	23.12.2018 00:21:04	Off	Yes	Yes	26.4	14	53.4781083, 40.1913233	North	160.2	0.4	0.0	-	-	Timer	2681	-7	Ready	2481	-3	Ready
61	23.12.2018 00:21:34	Off	Yes	Yes	26.4	15	53.4781016, 40.1913283	North	160.1	0.8	0.0	-	-	Timer	2680	-7	Ready	2481	-3	Ready
62	23.12.2018 00:22:04	Off	Yes	Yes	26.3	15	53.4780983, 40.19133	North	160.3	0.0	0.0	-	-	Timer	2679	-7	Ready	2482	-3	Ready
63	23.12.2018 00:22:34	Off	Yes	Yes	26.2	15	53.4780949, 40.1913333	North	160.2	0.4	0.0	-	-	Timer	2678	-7	Ready	2482	-3	Ready
64	23.12.2018 00:23:04	Off	Yes	Yes	26.2	14	53.4780949, 40.1913333	North	160.2	0.4	0.0	-	-	Timer	2678	-7	Ready	2483	-3	Ready
65	23.12.2018 00:23:34	Off	Yes	Yes	26.1	15	53.4780949, 40.1913333	North	160.0	0.0	0.0	-	-	Timer	2677	-7	Ready	2483	-3	Ready
66	23.12.2018 00:24:04	Off	Yes	Yes	26.1	14	53.4780983, 40.19134	North	160.0	0.0	0.0	-	-	Timer	2676	-7	Ready	2484	-3	Ready
67	23.12.2018 00:24:34	Off	Yes	Yes	26.1	16	53.4781016, 40.1913466	North	159.7	0.6	0.0	-	-	Timer	2675	-7	Ready	2484	-3	Ready
68	23.12.2018 00:25:04	Off	Yes	Yes	26.1	16	53.4781016, 40.1913466	North	159.7	0.6	0.0	-	-	Timer	2675	-7	Ready	2485	-3	Ready
69	23.12.2018 00:25:34	Off	Yes	Yes	26.0	16	53.4781, 40.1913433	North	159.4	0.3	0.0	-	-	Timer	2674	-7	Ready	2486	-3	Ready
70	23.12.2018 00:26:04	Off	Yes	Yes	26.1	16	53.4781016, 40.19134	North	159.2	0.0	0.0	-	-	Timer	2673	-7	Ready	2486	-3	Ready
71	23.12.2018 00:26:34	Off	Yes	Yes	26.1	16	53.4781016, 40.1913383	North	159.3	0.3	0.0	-	-	Timer	2673	-7	Ready	2486	-3	Ready
72	23.12.2018 00:27:04	Off	Yes	Yes	26.2	16	53.4781016, 40.1913383	North	159.3	0.1	0.1	-	-	Timer	2672	-7	Ready	2487	-3	Ready
73	23.12.2018 00:27:34	Off	Yes	Yes	26.1	16	53.4781016, 40.1913366	North	159.3	0.1	0.1	-	-	Timer	2672	-7	Ready	2487	-3	Ready
74	23.12.2018 00:28:04	Off	Yes	Yes	26.1	14	53.4781033, 40.1913416	North	159.2	0.0	0.0	-	-	Timer	2671	-7	Ready	2487	-3	Ready

After the empty cells have been hidden:

	Date and time	Key	GPRS	GPS	Pow...	Sate...	Coordinates	Dire...	Altitu...	Mile...	GPS sp...	Accel...	Revoluti...	Sourc...	LLS1	T(LLS1...	LLS1 st...	LLS2	T(LLS2...	LLS2 st...
51	23.12.2018 00:16:34	On	Yes	Yes	27.7	15	53.4781133, 40.1913183	North	159.6	0.2	0.0	-	595.00	Timer	2690	-7	Ready	2476	-3	Ready
52	23.12.2018 00:17:04	On	Yes	Yes	27.7	14	53.4781133, 40.1913183	North	159.6	0.2	0.0	-	595.00	Timer	2689	-7	Ready	2476	-3	Ready
53	23.12.2018 00:17:34	On	Yes	Yes	27.7	14	53.4781149, 40.1913166	North	159.8	0.2	0.0	-	599.00	Timer	2688	-7	Ready	2477	-3	Ready
54	23.12.2018 00:18:04	On	Yes	Yes	27.6	14	53.4781149, 40.1913149	North	159.8	0.0	0.1	-	600.00	Timer	2687	-7	Ready	2478	-3	Ready
55	23.12.2018 00:18:34	On	Yes	Yes	27.6	13	53.4781133, 40.1913133	North	159.8	0.1	0.0	-	596.00	Timer	2686	-7	Ready	2479	-3	Ready
56	23.12.2018 00:19:04	On	Yes	Yes	27.6	14	53.4781133, 40.1913133	North	159.8	0.2	0.1	-	602.00	Timer	2685	-7	Ready	2479	-3	Ready
57	23.12.2018 00:19:34	On	Yes	Yes	27.6	14	53.4781116, 40.1913149	North	159.9	0.2	0.0	-	596.00	Timer	2684	-7	Ready	2480	-3	Ready
58	23.12.2018 00:20:04	On	Yes	Yes	27.6	13	53.4781099, 40.1913183	North	160.1	0.0	0.1	-	602.00	Timer	2683	-7	Ready	2480	-3	Ready
59	23.12.2018 00:20:34	Off	Yes	Yes	26.5	13	53.4781083, 40.1913233	North	160.2	0.3	0.0	-	605.00	Timer,...	2682	-7	Ready	2481	-3	Ready
60	23.12.2018 08:07:45	Off	Yes	Yes	24.7	18	53.4780883, 40.1913433	North	156.4	0.3	0.1	-	0.00	Timer	2674	-9	Ready	2474	-7	Ready
61	23.12.2018 08:07:47	On	Yes	Yes	18.5	17	53.4780883, 40.1913433	North	156.4	0.0	0.0	-	86.00	Ignitio...	-	-	-	-	-	-
62	23.12.2018 08:08:15	On	Yes	Yes	27.2	17	53.4780883, 40.1913449	North	156.4	0.1	0.1	-	727.00	Timer	2674	-9	Ready	2473	-7	Ready
63	23.12.2018 08:08:45	On	Yes	Yes	27.3	18	53.4780883, 40.1913466	North	156.4	0.1	0.1	-	601.00	Timer	2674	-9	Ready	2473	-7	Ready
64	23.12.2018 08:09:15	On	Yes	Yes	27.4	18	53.4780883, 40.1913466	North	156.5	0.0	0.1	-	843.00	Timer	2673	-9	Ready	2472	-7	Ready
65	23.12.2018 08:09:45	On	Yes	Yes	27.4	17	53.4780883, 40.1913466	North	156.5	0.0	0.1	-	840.00	Timer	2673	-9	Ready	2472	-7	Ready
66	23.12.2018 08:10:15	On	Yes	Yes	27.4	17	53.4780916, 40.1913433	North	156.5	0.4	0.1	-	843.00	Timer	2673	-9	Ready	2471	-7	Ready
67	23.12.2018 08:10:45	On	Yes	Yes	27.4	17	53.4780916, 40.1913433	North	156.6	0.0	0.0	-	843.00	Timer	2673	-9	Ready	2471	-7	Ready
68	23.12.2018 08:11:15	On	Yes	Yes	27.5	17	53.4780916, 40.1913433	North	156.6	0.0	0.1	-	845.00	Timer	2673	-9	Ready	2471	-7	Ready
69	23.12.2018 08:11:45	On	Yes	Yes	27.4	17	53.4780916, 40.1913433	North	156.6	0.0	0.3	-	841.00	Timer	2673	-9	Ready	2470	-7	Ready
70	23.12.2018 08:12:15	On	Yes	Yes	27.5	17	53.4780933, 40.1913416	North	156.6	0.2	0.1	-	842.00	Timer	2673	-9	Ready	2470	-7	Ready
71	23.12.2018 08:12:45	On	Yes	Yes	27.4	17	53.4780933, 40.1913433	North	156.5	0.1	0.1	-	843.00	Timer	2673	-9	Ready	2470	-7	Ready
72	23.12.2018 08:13:15	On	Yes	Yes	27.5	17	53.4780933, 40.1913433	North	156.5	0.0	0.1	-	682.00	Timer	2672	-9	Ready	2469	-7	Ready
73	23.12.2018 08:13:45	On	Yes	Yes	27.5	17	53.4780933, 40.1913433	North	156.5	0.0	0.1	-	681.00	Timer	2672	-9	Ready	2469	-7	Ready
74	23.12.2018 08:14:15	On	Yes	Yes	27.5	17	53.4780949, 40.1913433	North	156.6	0.2	0.1	-	683.00	Timer	2672	-9	Ready	2469	-7	Ready

Parameters for which the option of hiding rows does not apply:

Reports

- Row number
- Date and time
- Ignition key position
- GSM connection
- GPS data validity
- Digital output status
- Event source
- Sensor level code
- Sensor temperature
- Sensor readiness
- Coordinates
- GPS speed
- Pulse speed
- Dispensed fuel volume
- Power
- Battery charge percentage
- Direction
- Number of satellites
- Height
- Mileage
- UI1…UI4
- OBDII. Mileage after error reset, km
- OBDII. Time after error reset, h
- OBDII. Fuel level, %
- OBDII. VIN (VH Identification number)
- OBDII. Check Engine error

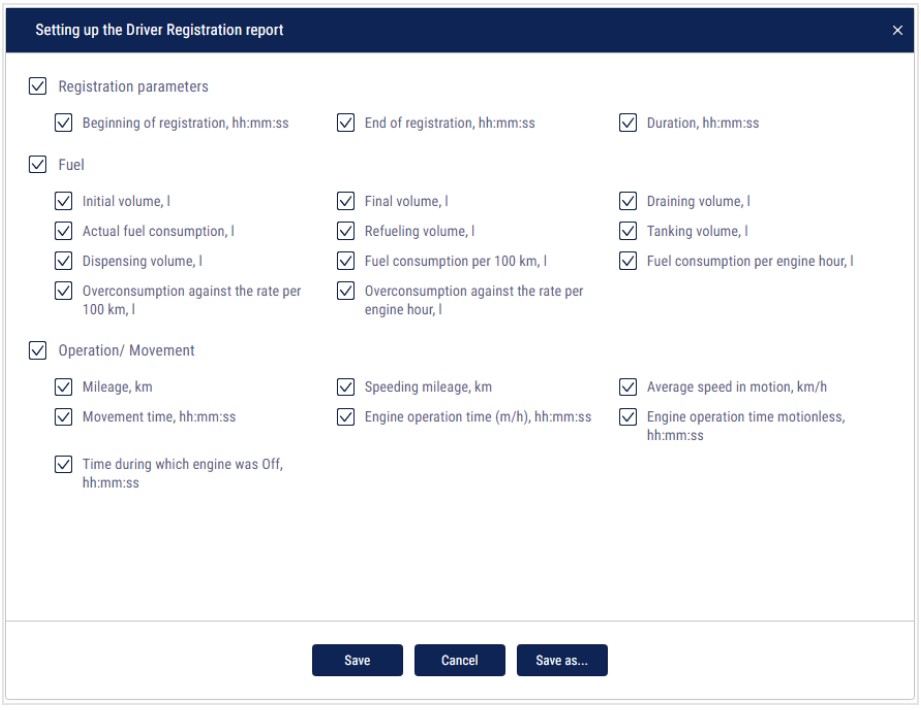
Drivers Registration

Reports

1. Select a vehicle or a driver
2. Please select a period of time for report generation
3. Press “Add report button” and select “Driver registration”

	Vehicle	Driver	Registration parameters: Beginning of registration, hh:mm	End of registration, hh:mm	Duration, hh:mm	Initial volume, l	Final volume, l	Volume of fuel dr...
1			28.11.2018 00:00:00	28.11.2018 14:11:12	14:11:12	601.3	900.6	0.0
2		Total registrations: 1	-	-	14:11:12	-	-	0.0
3			28.11.2018 14:11:13	13.12.2018 10:19:28	356:08:15	900.3	498.4	32.8
4		Total registrations: 1	-	-	356:08:15	-	-	32.8
5		Total objects: 2	-	-	370:19:27	-	-	32.8
6			-	-	1405:50:53	565.6	535.4	0.0
7		Total registrations: 1	-	-	1405:50:53	-	-	0.0
8		Total objects: 1	-	-	1405:50:53	-	-	0.0
9		...	21.11.2018 11:37:00	-	1178:13:53	653.8	766.8	163.3
10		Total registrations: 1	-	-	1178:13:53	-	-	163.3
11		Total objects: 1	-	-	1178:13:53	-	-	163.3
12		...	-	16.11.2018 10:04:19	106:04:19	40.3	-	0.0
13		Total registrations: 1	-	-	106:04:19	-	-	0.0
14		Total objects: 1	-	-	106:04:19	-	-	0.0
15			-	-	1405:50:53	741.6	1179.3	73.5
16		Total registrations: 1	-	-	1405:50:53	-	-	73.5
17		Total objects: 1	-	-	1405:50:53	-	-	73.5

To set up the report, press the right mouse button and select “Report settings”:



This report contains the following information:

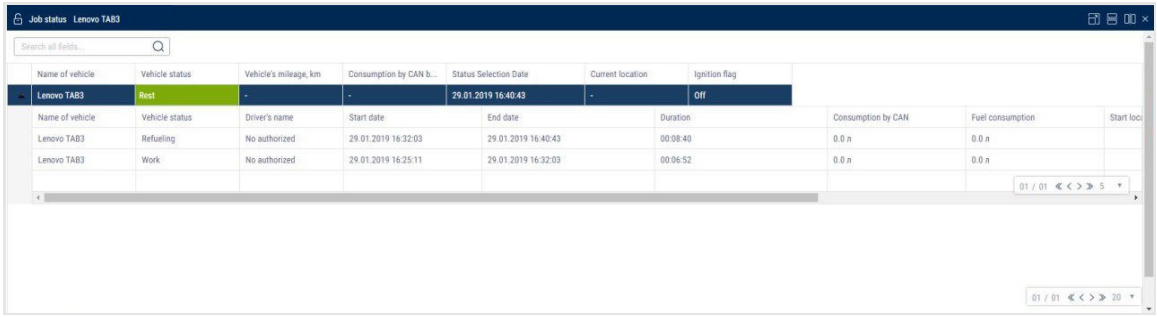
- VH name is a registration number of name the VH
- Driver, last name and first name of the driver assigned to VH

- Start of registration is date and time of the driver assignment to the VH. If "-" is specified, assignment of the driver to this VH was performed before the selected period of the report generation
- End of registration is date and time of the driver deassignment from the VH. If "-" is specified, deassigment of the driver from the VH is scheduled later than end of the selected period of report generation
- Duration, hh: mm: ss is duration of driver assignment to the VH within the selected period
- Initial volume, (l)
- Final volume, (l)
- Actual consumption during the period, (l)
- Refueling volume, (l)
- Draining volume, (l)
- Consumption per 100 km, (l)

Description of the fuel parameters calculation is given in the Appendix.

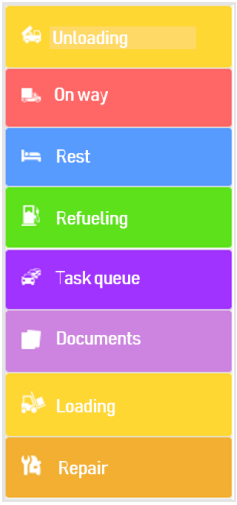
Job Status

1. Select the vehicle or the driver
2. Select the time period for report generation
3. Press the "Add report" button and select "Job status"

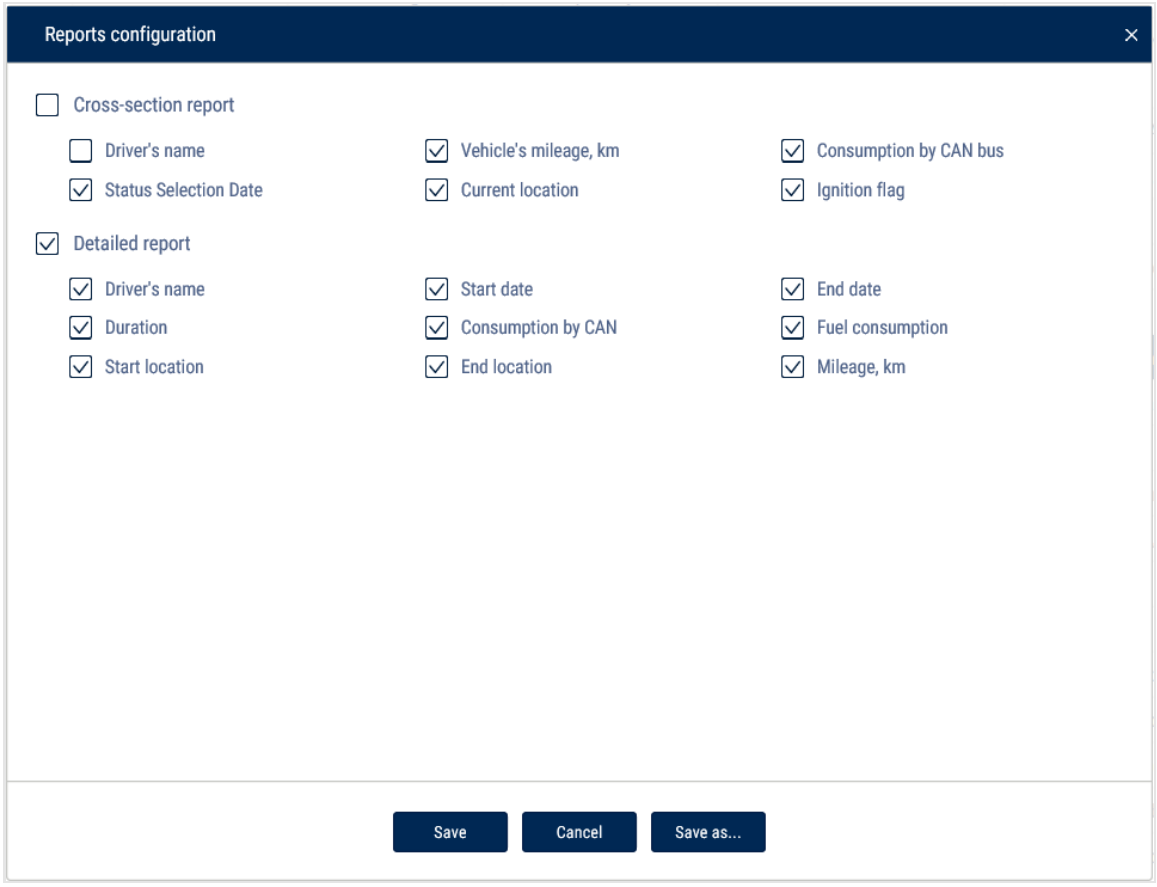


Possible status values:

Reports



To select the information displayed in the report, right-click and select “Report settings”:



The *“Cross-section report”* section - information at the current time:

- Driver's name - the name of the driver registered at the identification
- Consumption by CAN
- Vehicle's mileage (CAN), km

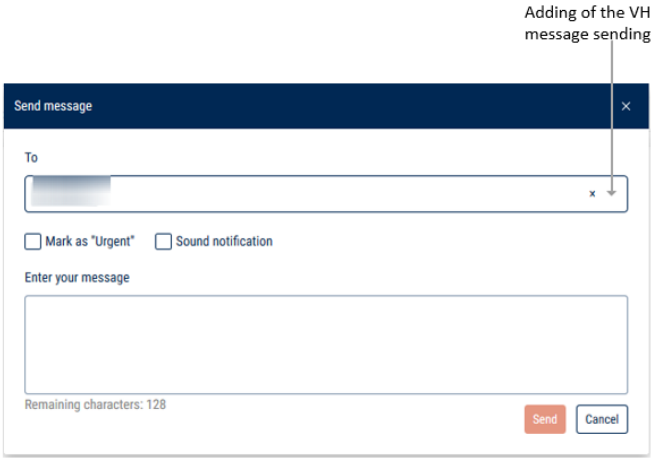
- Status Selection Date
- Current location
- Ignition flag
- Key - ignition key status Possible values: on, off

The *"Detailed Report"* section - information about the statuses for the period of report generation:

- Driver's name
- Start date
- End date
- Status duration
- Consumption by CAN, l
- Fuel consumption, l
- Status start location
- Status end location
- Mileage at the beginning of status activation
- Mileage at status expiry
- Status expiry date
- Vehicle's mileage (CAN), km
- Mileage during the period of status activation according to GPS, km

To send a message to drivers:

1. Select a vehicle
2. Right-click and select "Send a message to the driver". Maximum message length: 128 characters.



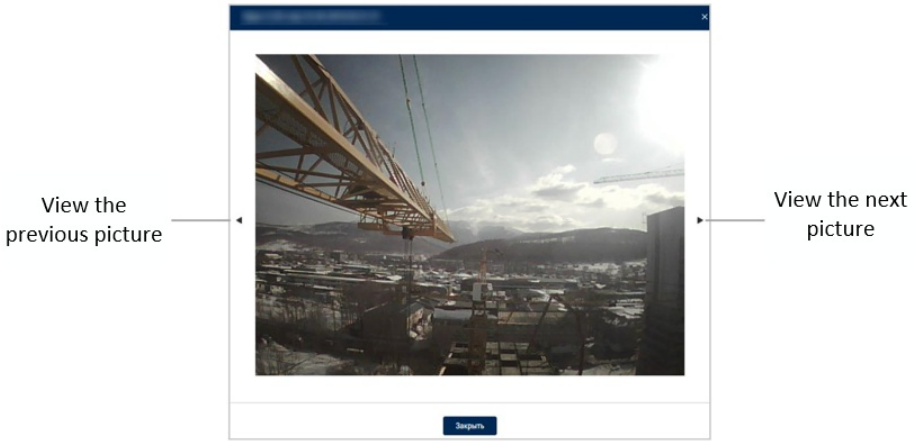
If necessary, you can select multiple vehicles to simultaneously send them the message.

Multimedia

1. Select one or several VH
2. Select a period of time
3. Press “Add report” button and select “Multimedia”
4. Open the “Pictures” and “Video” tab

Choosing a picture:

Reports



To save a picture, right-click and select “Save image as”.

When choosing videos:

	Vehicle	Video Channel	Action	Start of the video fragment	End of the video fragment	Video Status	Initiator
1		Channel 3	Restart	04.01.2019 03:00:00	04.01.2019 03:00:45	Canceled	Manual
2		Channel 1	Cancel	04.01.2019 08:12:51	04.01.2019 08:13:21	In Progress	By Event
3		Channel 1	Remove	04.01.2019 10:21:00	04.01.2019 10:21:45	Error No video available f...	Manual
4		Channel 1	Cancel	04.01.2019 18:13:31	04.01.2019 18:14:01	In Progress	By Event
5		Channel 1	Cancel	06.01.2019 07:33:25	06.01.2019 07:33:55	In Progress	By Event
6		Channel 1	Restart	06.01.2019 14:49:00	06.01.2019 14:49:30	Canceled	Manual
7		Channel 1	Remove	08.01.2019 10:21:00	08.01.2019 10:21:45	Error No video available f...	Manual
8		Channel 1	Cancel	08.01.2019 10:34:49	08.01.2019 10:35:19	In Progress	By Event
9		Channel 1	Remove	08.01.2019 13:18:00	08.01.2019 13:18:45	Error No video available f...	Manual
10		Channel 1	Remove	09.01.2019 10:20:00	09.01.2019 10:20:45	Error No video available f...	Manual
11		Channel 1	View Remove	09.01.2019 13:48:00	09.01.2019 13:51:00	Done	Manual
12		Channel 1	Cancel	09.01.2019 14:12:20	09.01.2019 14:12:50	In Progress	By Event

The report contains the following information:

- Vehicle - the name of the vehicle
- Channel name - the name of the camera with which the video was recorded.
- Action - actions that can be performed with the video clip. Possible values:

  Watch - play the video

  Delete - delete the video

  Cancel - cancel video order

  Restart - order the video again after canceling or after an error

- Video clip start and end time
- Task status. Possible values:

  Completed - the video has been uploaded to Omnicomm Online

  In progress - the video is being uploaded

  In progress Terminal turned off – waiting for terminal to be turned on for a video upload

  In progress Error found – waiting for an error fix in order to proceed with a video upload

  In progress Download pending – a preparation for video download

  In progress Downloading – video is being downloaded

  Canceled - the video order has been canceled

  Cancelled due to daily limit reached – automatically cancelled request since daily limit of 300 downloads was reached

  Error - an error occurred when processing the video Possible errors:

    Task timeout

    No video available for the selected period of time

    A task with these parameters has been created before

    No task order has been found

    Conversion error. 5 attempts (video conversion error)

    Video terminal not found

    Video terminal not available (no connection with the terminal)

    Profile settings error

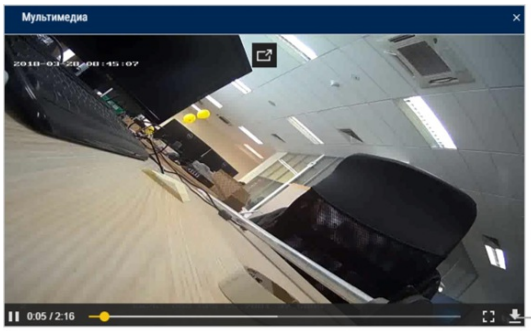
    No space on disk (there is not enough space on the disk and the old data deletion option is turned off)

- Initiator. Possible values:

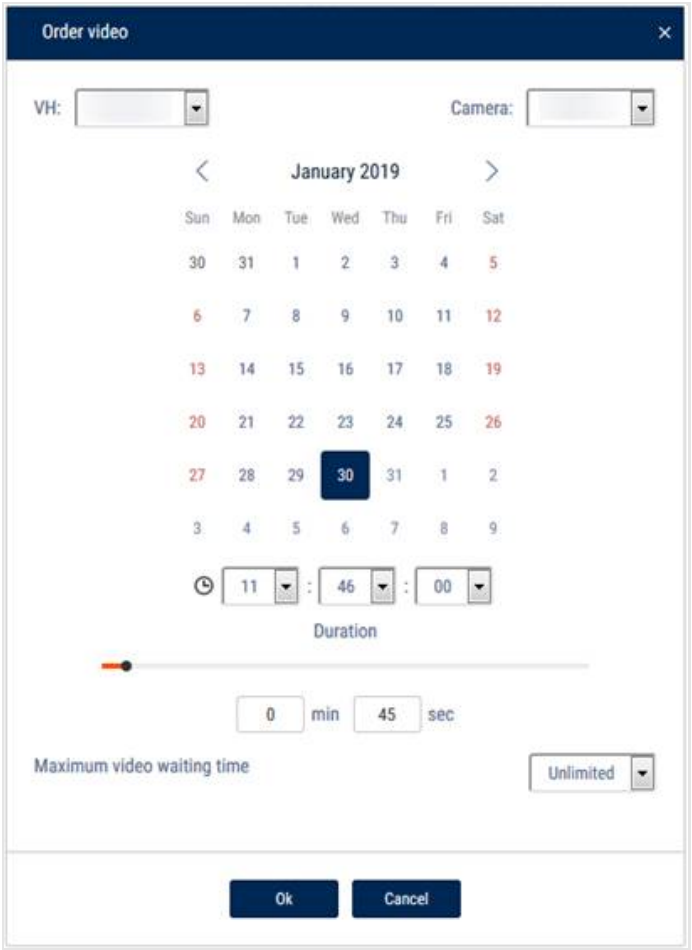
  User - the video was uploaded upon user order

  Event - the video upload was triggered by an event

To play the video click "Watch":



To order video click the **"Order video"** button. A window will open:



Vehicle - select the vehicle

Camera - select the name of the camera connected to the selected vehicle

Select the date and time of the video clip to upload.

Duration - select the duration of the video clip. Possible values - from 30 sec to 10 min.

Maximum video waiting time. Possible options:

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

To automatically order a video in Omnicomm Online by event, configure it in the “Administration”/“Rules for automatic creation of a task” section.

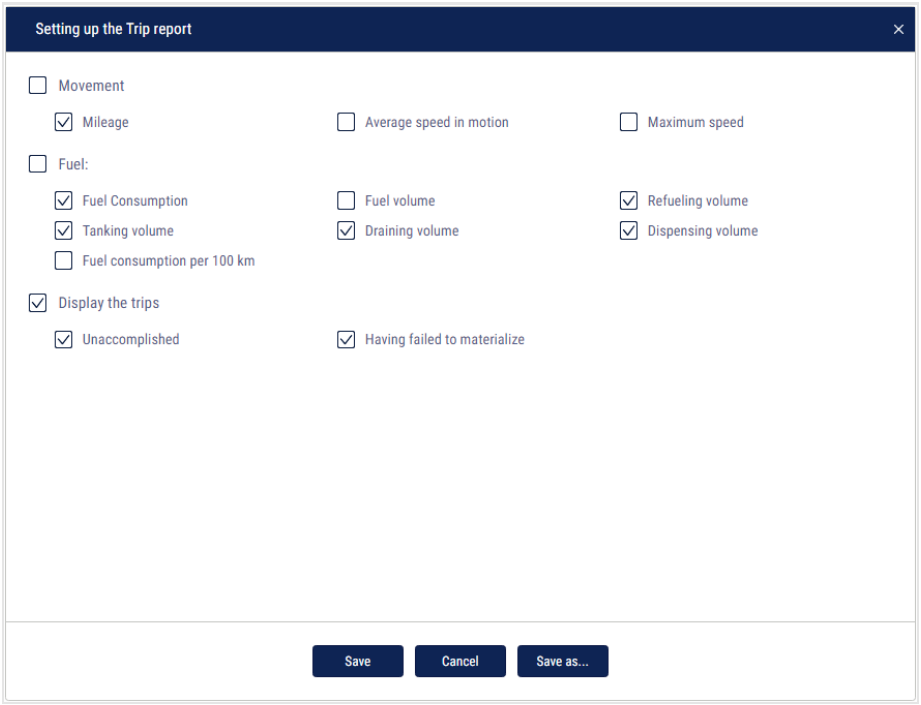
Photographs are related to “Track” report. When opening two reports and selecting “Photographs” line of the report the place on the map where the photographs were taken is highlighted automatically and a help message with information on VH is displayed (dates, time, VH speed, address, mileage and state of ignition).

The report does not display automatic tasks for video download with an “Error” status. To display them, right-click and select “Show hidden tasks”.

Trip Report

1. Select a vehicle or a route
2. Select the time period for report generation
3. Press the “Add report” button and select “Trip report”

To select the information displayed in the report, right-click and select “Report settings”:



“Vehicle name or Route” - one or more vehicles, or one or more routes, for which the report has been generated.

“Trip start (hh:mm DD.MM.YY)” - the date and time when the vehicle leaves the geofence of the start of the route and the planned departure time specified in the trip schedule settings. If the actual time has not been determined and the scheduled time of departure has not been specified in the trip schedule settings, “-” is displayed.

“End of the trip (hh:mm DD.MM.YY)” - the date and time of the actual completion of the trip and/or the scheduled time of the end of the trip if the time of departure and the time between control points is specified in the settings. If the actual time has not been determined and the scheduled time of the end of the trip has not been specified, “-” is displayed.

“Status” - the current trip status. Possible values:

- “In progress” - the vehicle left the geofence of the start of the route and the trip has not been completed
- “Completed” - the vehicle entered the geofence of the route end
- “Terminated because the maximum duration of route control has expired” - the trip was terminated automatically after the maximum duration of route control specified in the route settings has run out
- “Force stopped” - terminated by pressing the button in the “Active trips” report

- "Not carried out" - the vehicle did not leave the geofence of the start of the route at the schedule departure time, taking into account the allowed deviation

"Control point no." - sequence number of the control point specified in the route settings. The control points are listed in the order they were visited. The missed control points are displayed at the bottom of the list.

"Control point name" - name of the geofence defining the control point.

"Visiting time (DD.MM.YYYY hh:mm)" - the time of entering the geofence, which defines the control point.

"Violations" - violations which took place while visiting control points if the control of visits or of the order of control points is enabled in the route settings or if the vehicle has gone beyond the geofence delimiting the route.

If a violation occurred while visiting the control point, the corresponding row is highlighted in red. If no violations occurred while visiting control points, "-" is displayed. Possible violation values:

- "Late/Early"
- "Missed control points"
- "Wrong order of control points"

"Mileage" - mileage over the period of time between adjacent control points. For the starting point of the trip "-" is displayed.

Total value for all vehicles (if the report is generated for selected vehicles) - the value of the fuel volume at the time of the last control point visit.

Total value for all routes (if the report is generated for selected routes) "-" is displayed.

"Volume of fuel tanking, l (for vehicles)" - the total volume of fuel refilled for the period of time between adjacent control points.

Total value for the trip – the total of all values of the volume of refilled fuel at all control points of the trip.

Total value for all trips – the total of all values of the volume of refilled fuel for all trips.

Total value for all vehicles or routes – the total of all values of the volume of refilled fuel for all vehicle's or route's trips.

"Volume of fuel tanking, l (for fuel tankers)" - the total volume of tanking for the period of time between adjacent control points.

Total value for the trip – the total of all values of the volume of filled fuel for all control points of the trip.

Total value for all trips – the total of all values of the volume of filled fuel for all trips.

Total value for all vehicles or routes – the total of all values of the volume of filled fuel for all vehicle's or route's trips.

“Volume of fuel draining, l” - the total volume of drained fuel for the period of time between adjacent control points.

Total value for the trip – the total of all values of the volume of drained fuel at all control points of the trip.

Total value for all trips – the total of all values of the volume of drained fuel for all trips.

Total value for all vehicles or routes – the total of all values of the volume of drained fuel for all vehicle's or route's trips.

“Volume of duel dispensing, l (for refuelers)” - the total volume of dispensed fuel for the period of time between adjacent control points.

Total value for the trip – the total volume of dispensed fuel at all control points of the trip.

Total value for all trips – the total volume of dispensed fuel for all trips.

Total value for all vehicles or routes – the total volume of dispensed fuel for all vehicle's or route's trips.

“Consumption per 100 km, l (for vehicles)” - consumption per 100 km for the period between adjacent control points.

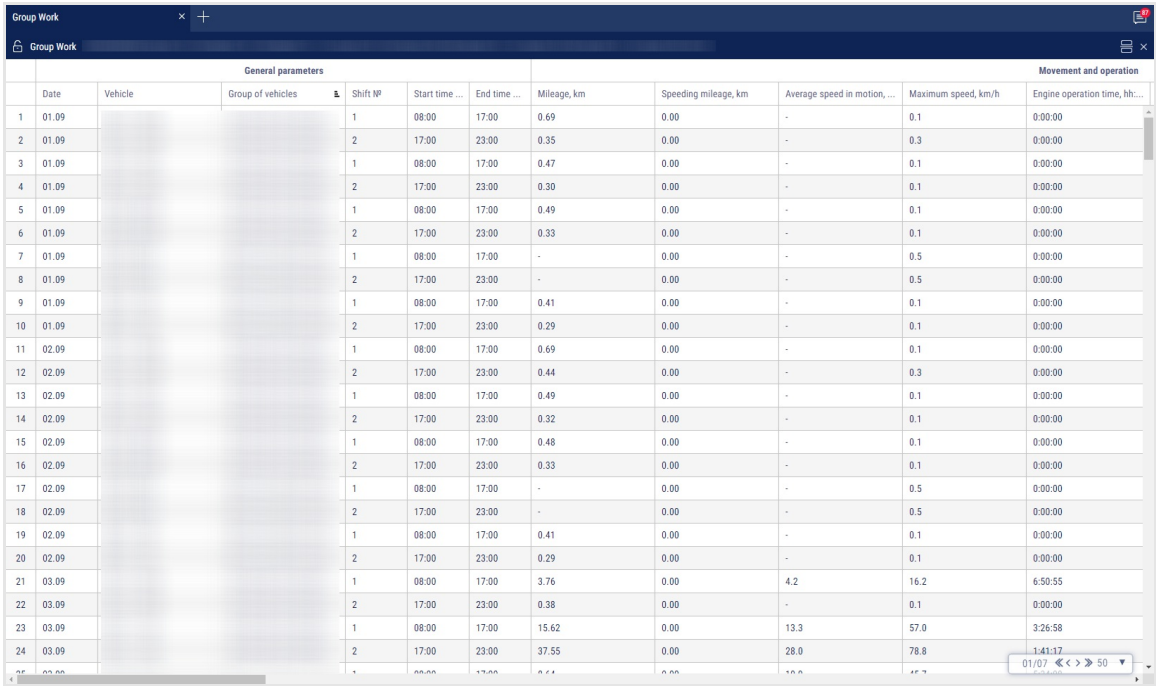
Total value for the trip – the total of all values of fuel consumption per 100 km at all control points of the trip.

Total value for all trips – the total of all values of fuel consumption per 100 km for all trips.

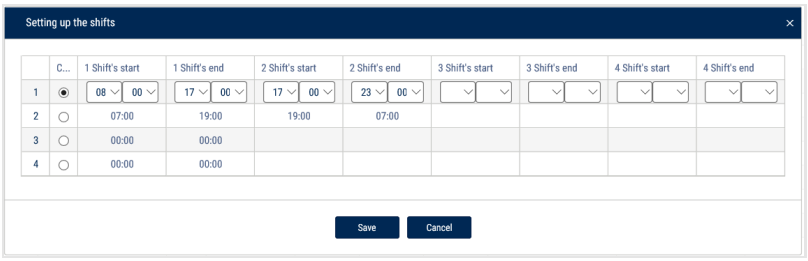
Total value for all vehicles or routes – the total of all fuel consumption per 100 km for all vehicle's or route's trips.

Group Work

1. Select one or several VH or drivers
2. Select a period of time for report generation
3. Press “Add report” button and select “Group work”



Set up the shifts schedule by pressing the right mouse button and selecting “Shifts setup”. The window will open, in which you will see a line with schedule to be added.

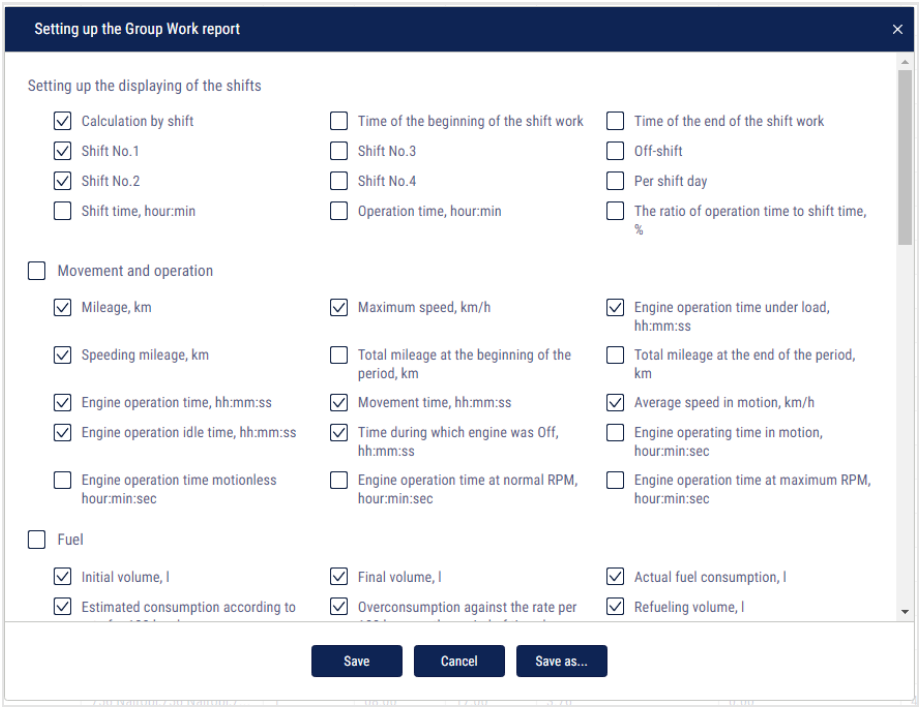


In the fields “1 Shift's start”, “2 Shift's start”, “3 Shift's start”, “4 Shift's start” enter the time in hh:mm format, from which the start of the first, second, third and fourth shifts will be accounted.

In the fields “1 Shift's end“, “2 Shift's end”, “3 Shift's end”, “4 Shift's end enter” the time in hh:mm format starting from which the end of shift will be accounted.

In column “Current” select the checkbox. Press “Save” button.

Select the information to be displayed in the report by pressing the right mouse button and choosing “Report settings”:



In the *"Setting up the displaying of the shifts"* section:

- Calculation by shifts
- Start of work during a shift
- End of work during a shift
- Shift no. 1, 2, 3, 4
- Off-shift
- Per shift day
- Shift time, hour:min
- Operation time, hour:min
- The ratio of operation time to shift time, %

In the *"Movement and Operation"* section:

- Mileage, km
- Mileage with speeding, km
- Engine operation time, hh:mm:ss
- Time of idle engine operation, hh:mm:ss
- Time of engine operation without movement, hh:mm:ss

Reports

- Maximum speed, km/h
- Mileage at the beginning of the period, km
- Mileage at the end of the period
- Time of movement, hh:mm:ss
- Time with engine turned off, hh:mm:ss
- Time of engine operation at regular rpm, hh:mm:ss
- Time of engine operation under load, hh:mm:ss
- Average speed in movement, km/h
- Time of engine operation at maximum rpm, hh:mm:ss

In the *"Fuel" (main tank)* section:

- Initial volume, l
- Final volume, l
- Actual fuel consumption, l
- Estimated consumption rate per 100 km, l
- Overconsumption against the rate per 100 km, l
- Refueling volume, l
- Draining volume, l
- Tanking volume, l
- Dispensing volume, l
- Actual consumption per 100 km, l
- Actual consumption per engine hour, l
- Actual consumption per hour of engine operation, l
- Overconsumption against the rate per 1 hour of engine operation, l
- Actual consumption per hour of engine operation in motion, l
- Actual consumption per hour of engine operation when VH is motionless, l
- Probable draining / Excess, l
- Minimum volume, l

- Maximum volume, l
- Actual consumption per 100 km in motion, l
- Actual consumption in motion, l
- Actual consumption without movement, l
- Consumption rate per 100 km, l
- Deviation from the rate per 100 km, l
- Actual consumption during the time of engine operation, l
- Fuel consumption rate per hour of engine operation
- Estimated consumption by rate per hour of engine operation, l
- Deviation from the rate per hour of engine operation, %

In the *"Fuel" (additional tank)* section:

- Initial volume, l
- Final volume, l
- Actual consumption, l
- Refueling volume, l
- Draining volume, l
- Minimum volume, l
- Maximum volume, l
- Actual consumption per 100 km, l

In the *"Auxiliary Equipment operation"* section:

- Maximum value during the period
- Minimum value during the period
- Total value during the period
- Mileage when VH's auxiliary equipment is On, km
- Time of operation, hour:min:sec
- Idle time, hour:min:sec
- Time of operation above the allowable value

- Time of operation below the allowable value
- Consumption with auxiliary equipment turned on, l
- Consumption with auxiliary equipment turned on per motor hour, l
- Consumption with auxiliary equipment turned on per 100 km, l

In the *"Meter readings (CAN bus data)"* section:

- Engine hour meter reading, hour:min
- Fuel consumption meter reading, l
- Reading of CAN odometer at the beginning of the period/shift, km
- Reading of CAN odometer at the end of the period/shift, km

In the *"Meter readings before maintenance (CAN bus data)"* section:

- Mileage before Maintenance service, km
- Engine hours before Maintenance service, hour

In the *"CAN data during the report period"* section:

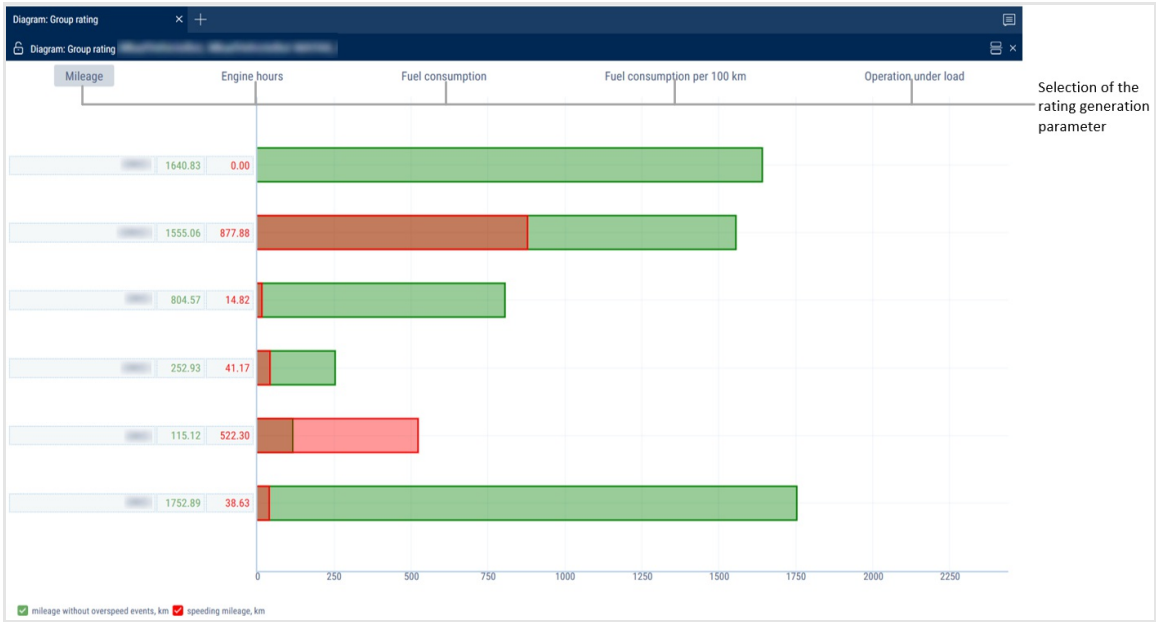
- Mileage, km
- Engine hours, hour:min
- Fuel consumption, l

"Report Object Groups" - enable to display the names of groups that the vehicles belong to.

Group Ratings

This report allows you to group vehicle ratings by the following parameters: Mileage / Engine hours / Fuel consumption / Fuel consumption per 100 km / Operation under load

1. Select several VH
2. Select the time period for report generation
3. Press the "Add report" button and select "Diagram: Group ratings"
4. Select a parameter to build a rating



The following color-coding is used in the report:

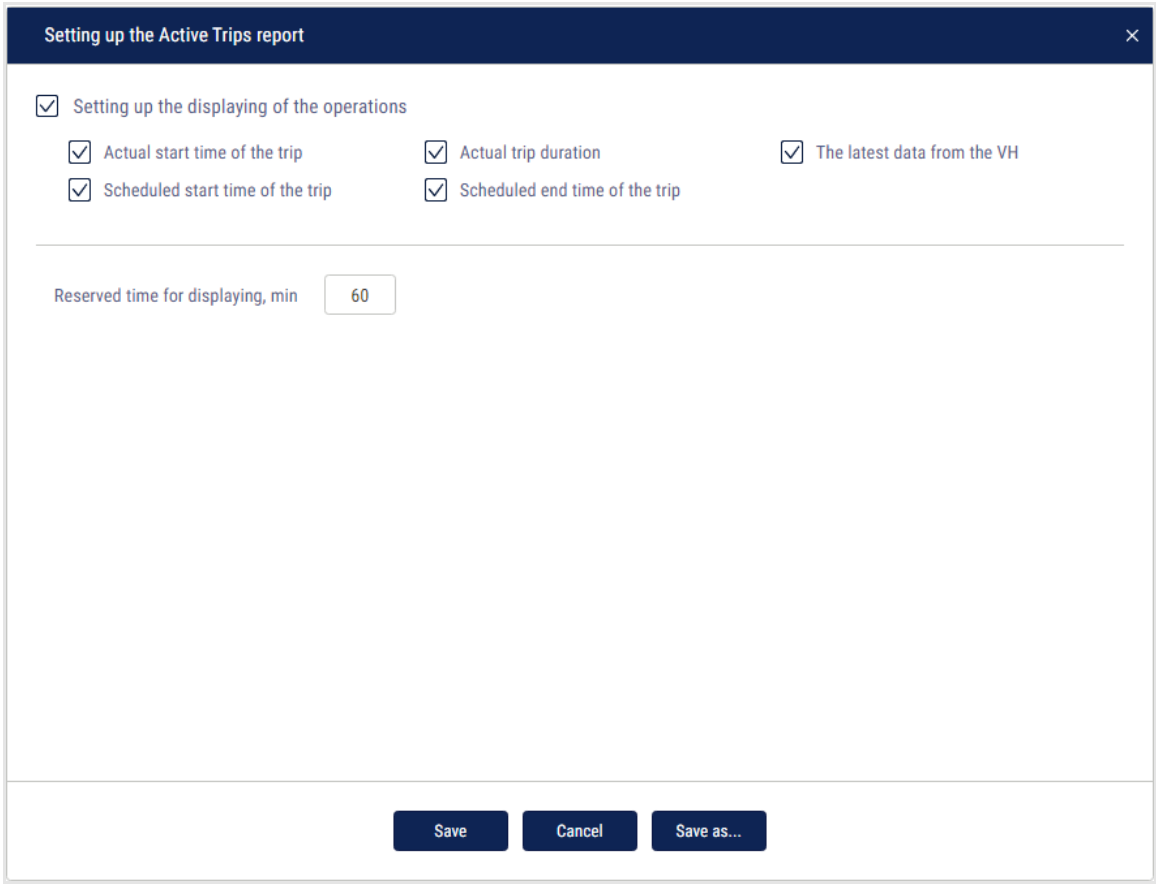
- Green - the vehicle operation does not exceed the parameter limit
- Red - the vehicle operation exceeds the parameter limit

Active Trips

This report displays the current status of the trips. Active trips are those that have not been completed at the time when the report was generated or completed no later than the time specified in the report settings.

1. Select one or more vehicles or drivers
2. Select the time period for report generation
3. Press the “Add report” button and select “Active trips”

To select the information displayed in the report, right-click and select “Report settings”:



“Additional display time, min” - the time after the trip is completed, during which the trip is still displayed in the report.

The report contains the following information:

“Route” - name of the route

“Vehicle” - name or registration number of the vehicle

“Scheduled start time of the trip” - the date and time when the vehicle leaves the geofence of the start of the route, specified in the trip schedule settings

“Actual start time of the trip” - the date and time when the vehicle actually left the geofence of the start of the route

“Actual trip duration” - the actual duration of the trip calculated in one of the following ways:

- If the trip has not been completed, the actual duration is equal to the current time minus the actual trip start time
- If the trip was completed, the actual duration is equal to the time when the trip was completed minus the actual trip start time:

“Scheduled end of the trip” - date and time when the vehicle enters the geofence of the

end of the route. It is calculated in one of the following ways:

- If in the route settings for the geofence of the end of the route, the “time from the beginning of the route” is set and the “scheduled time of departure” is set in the trip schedule:

“Scheduled end of the trip” = “Scheduled time of departure” + “Time from the start of the route in the geofence of the end of the route”.

- If in the route settings for the geofence of the end of the route, the “time from the beginning of the route” is set and the “scheduled time of departure” is not set in the trip schedule:

“Scheduled end of the trip” = “Actual start of the trip” + “Time from the start of the route”

- If in the route settings for the geofence of the end of the route, the “time from the beginning of the route” is not set and the “scheduled time of departure” and the “actual start of the trip” have not been set in the trip schedule: The “Scheduled end of the trip” is displayed as “-”.

“Latest data from the vehicle” - date and time when the latest data was received from the vehicle completing the trip.

“Date and time of the last event” - date and time of the last events for the active trips.

“Last event” and “Event parameters” contain brief information on the status of the active trip. Possible events:

- “Waiting for departure” is recorded under the following conditions:

  “scheduled time of departure” is set in the trip settings

  the current time is more than the “Scheduled time of departure” - “Allowable deviation from the scheduled time of departure”

  the “Trip started” event was not recorded and the maximum time of route control has not expired

- “Trip started” is registered when the vehicle leaves the geofence of the start of the route. If “Scheduled time of departure” and “Allowable deviation from the scheduled time” are set in the trip settings, the “Delay” parameter is displayed with the number of minutes.

- "Control point visited" is recorded when the vehicle visits a control point. Event parameters:

  If "Scheduled departure time" and "Allowable deviation from the scheduled time" are specified in the settings of the route control point, the "Late/Early" parameter will be displayed with the number of minutes

  If the vehicle missed one or more control points, the "Previous missed control points" parameter is displayed

  If the vehicle visited all control points of the route but the order of control points set in the route settings was violated, the "Wrong order of control points" parameter is displayed

- "Trip completed" is recorded only if the vehicle entered the geofence of the end of the route or the maximum allowable time for completing the trip set in the route settings has expired. Possible parameters:

  If the control points order is enabled and the scheduled time of departure is specified in the route settings, the "Late/Early" parameter is displayed with the number of minutes

  If the control points order is enabled in the route settings and violations in the order of control points have been recorded, the "Missed control points" parameter is displayed with the names of the control points

- "Trip force stopped" is recorded when the trip was terminated using the "Force stop" button in the "Active trips" report
- "Trip not carried out" is recorded if the vehicle did not leave the geofence of the start of the route at the scheduled departure time, taking into account the allowable deviation from the scheduled departure

Video Streaming

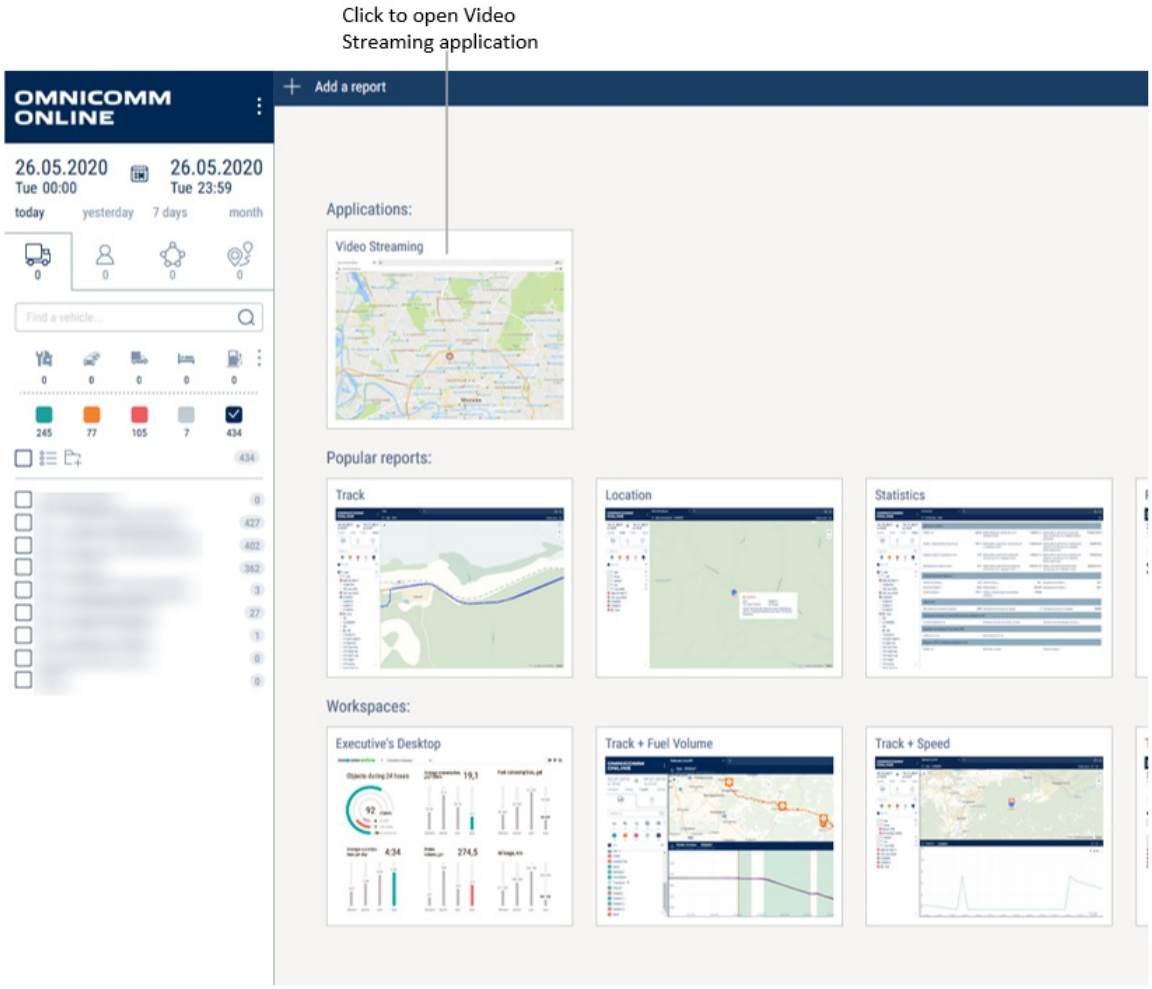
The "Video Streaming" application provides real-time video player from video terminals OKO, OKO 3.0, OKO Light.

To work with the "Video Streaming" application, use the latest version of Google Chrome browser.

To access the "Video Streaming application", set the appropriate rights in your

Video Streaming

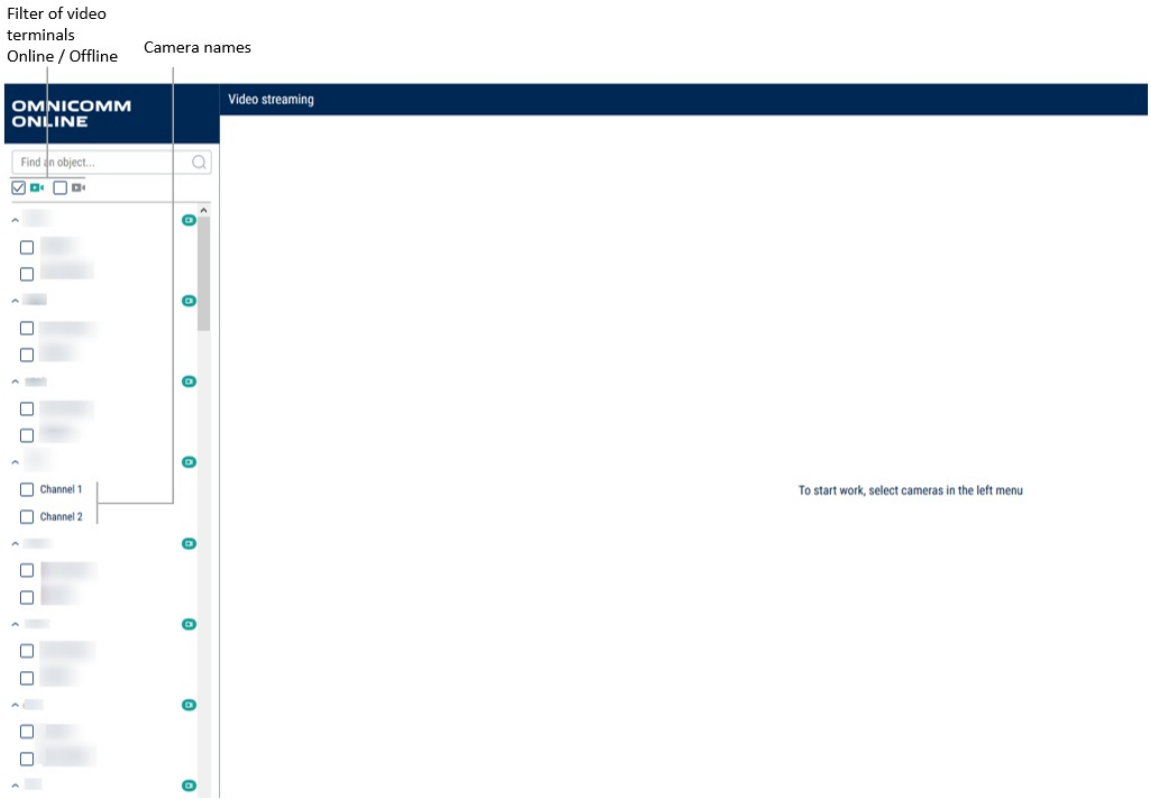
Omnicomm Online user profile (see Omnicomm Online. Administration Manual. The Adding and editing a profile section) or contact Technical support.



1. Select one or more cameras by ticking the following boxes
2. Press the video playback button

Window will open:

Video Streaming



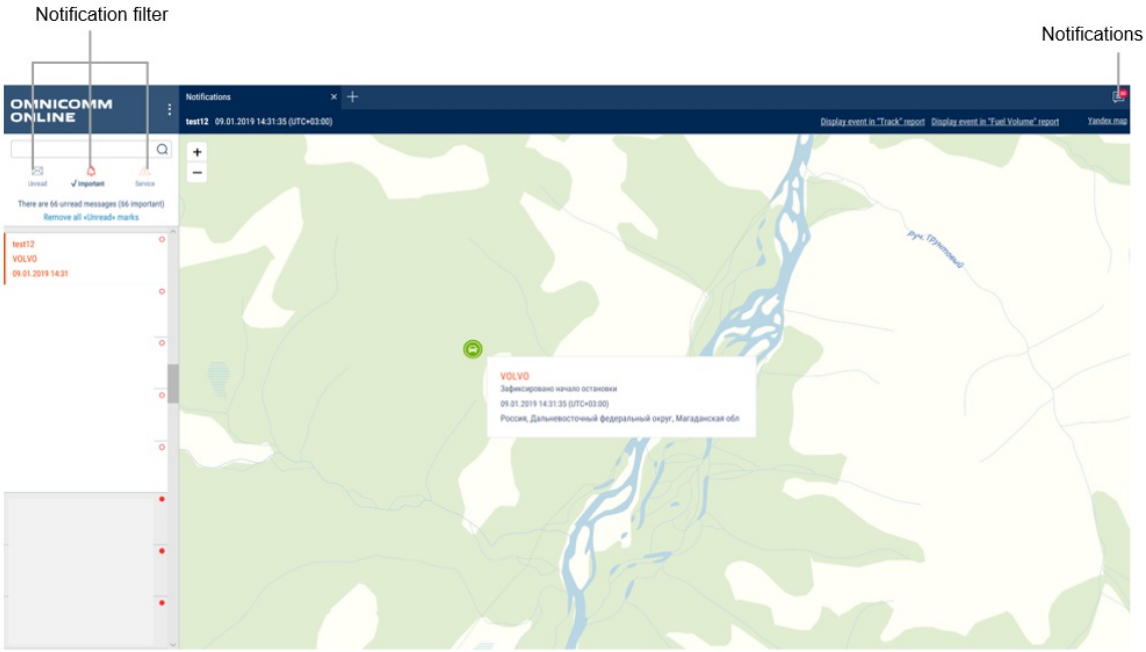
In the object tree only vehicles with installed OKO, OKO 3.0, OKO Light video terminals are displayed.

The names of cameras correspond to those set in the vehicle profile (see Omnicomm Online. Administration Manual. The Profile editing section).

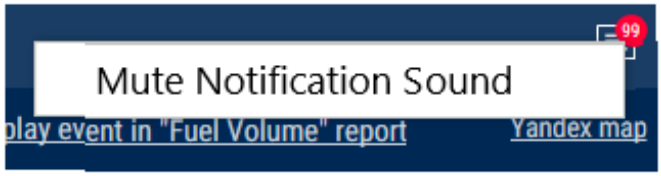
The maximum number of simultaneously viewed cameras is 16:

Notifications

You can store up to 100 notifications in the notifications list. In case more than 100 notifications are created, the older ones will be removed.



To switch notifications sound on/off press the right mouse button on the notification icon:



Popup message is displayed after authorization on Omnicomm Online, if there are unread or new service notifications. To move to the notifications list press on the service notification title in the popup message.

> The popup message can be closed only after reading the service notifications.

The table with the notifications list contains the following fields:

Notification is the notification title

Date and time are date and time of recording of the event end taking in account time zone specified when setting up the notification

Notifications

Vehicle is a vehicle for whose event the notification was created

To see detailed information and display an address at which the event was recorded select a notification from the list.

Detailed information contains:

- Notification title
- Date and time of the notification creation are displayed taking in account time zone specified when setting up the notification
- VH name is a name of the vehicle for whose event the notification was created
- Driver's name (if the driver is assigned to the VH, otherwise the line is excluded)
- Event date is date and time of recording of the event end taking in account time zone specified when setting up the notification
- Event is event for which the notification is created
- Parameters of event are possible additional parameters of the events. If the event does not contain additional parameters, the line is not displayed
- Geofence name is displayed, if the notifications settings have “In geofence”
- Address is the address at which the event was recorded. The line is displayed, only if the address is identified.

If it is necessary, please use filters:

Unread, only unread notifications will be displayed in the notifications list

Important, in the notifications list only notifications in whose settings “important” label was ticked. Important notifications are highlighted pink

Service, only notifications sent from the Dealer's profile will be displayed in the notifications list. A message to user is displayed in the service notifications

Notification with “important” label opens automatically to be displayed above all windows.

To quickly move to the “Track” report press the link in “Display event in the Track report”. The “Track” report for VH will open, for whose event the notification was created.

Period for building the track shall be set as follows:

The time of the period start shall be one hour earlier than the time of the event recording, for which the notification is created. The time of the period end shall be the current moment.

For notifications created for the events related to the fuel parameters (draining, tanking,

refueling), if it is necessary to quickly move to “Fuel volume” report, press the link in “Move to Fuel volume report”. The “Fuel volume” report will open for the VH , for whose event the notification was created.

The period for “Fuel volume” report generation shall be set as follows:

The time for the period start shall be one hour earlier than the time of the event recording, for which the notification is created.

The time of the period end shall be one hour later than the time of the event recording, for which the notification is created.

Drivers

Drivers Assignment to VH

This function is available to a user with full access for drivers and VH.

Select a VH to which it is required to assign a driver, press the right mouse button and select “Driver registration”

or

Select a driver to be assigned to the VH, press the right mouse button and select “Driver registration”

Select the today's date, any day in the past or the period of time in the past to be used for driver assignment to the VH.

Today's date. The driver will be assigned to the VH from the today's date for an indefinite term, till the moment of deassignment or automatic assignment of another driver with IButton.

From the indicated date. The driver will be assigned to the VH from the selected date for an indefinite term, till the moment of deassignment or automatic assignment of another driver with IButton.

The previous period. After data recalculation generation of the reports for VH for the given period will be performed taking in account the registered driver.

If the driver has already been assigned to the selected VH, the date selection window will display the message with the information on the date and assigned driver.

If the registration periods overlap, the registration period should be processed as follows:

- Registration period overlapping and repetition of the same Driver-Vehicle combination. It occurs if there is an attempt to assign the Driver to the Vehicle, who has already been assigned to this Vehicle:

– If the date of the assignment added is within the period of the existing assignment and the end date of the added assignment is within the effective period of the same registration, the registration is not added

– If the effective date of the added assignment is within the existing assignment, the end date of the existing assignment is set equal to the end date of the added assignment and the assignment is not added

- Registration period overlapping and a wrong Driver-Vehicle combination. It occurs if there is an attempt to assign the Driver to the Vehicle, who has already been assigned to another Vehicle:

– If the effective period of the added registration completely overlaps the existing registration, the existing registration shall be removed

– If the effective start date of the added registration is within the existing assignment and the effective date of the added registration is within the effective period of the same existing registration, this registration shall be divided into two parts. In this case the first part of the existing assignment of the start date does not change, but the end date is set equal to the start date of the added registration minus 1 second. The second part of the existing registration of the start date is set equal to the end date of the added registration plus 1 second

– If the effective date of the added period is within the existing assignment, the end date of the existing assignment is set equal to the start date of the added assignment minus 1 second

– If the end date of the added period is within the existing assignment, the start date of the existing assignment is set equal to the end date of the added assignment plus 1 second. Press “Register”. The window will open, press “Ok”

Deassignment from the VH

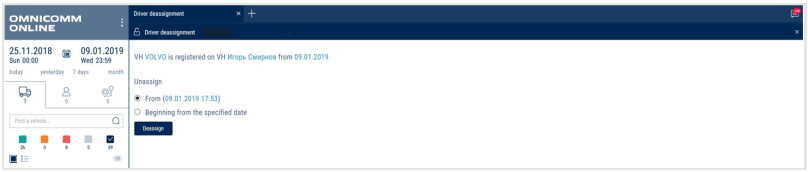
Driver deassignment from the VH can performed automatically using one of two methods or on Omnicomm Online.

Completion of registration in Omnicomm Online:

Select a VH from which it is required to deassign a driver, press the right mouse button and select “Driver deassignment”

or Select a driver to be deassigned from the VH, press the right mouse button and select “Driver deassignment”

The window will open:



Select the today's date or select any past date and time from which it is required to finish the driver assignment to the VH.

Press “Finish registration.

Automatic completion of registration:

Driver assignment to VH is automatically completed when this driver is registered on another vehicle or when another driver is registered on this vehicle.

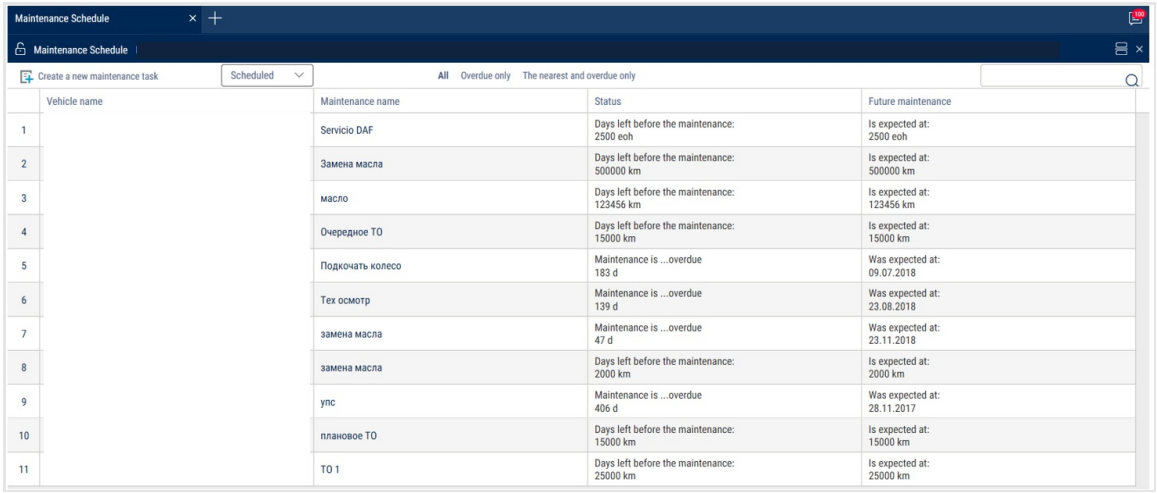
Also, depending on the settings in the VH profile, registration is automatically completed when the ignition is switched off and / or when the iButton key or RFID card is removed from the holder.

Control over VH Maintenance

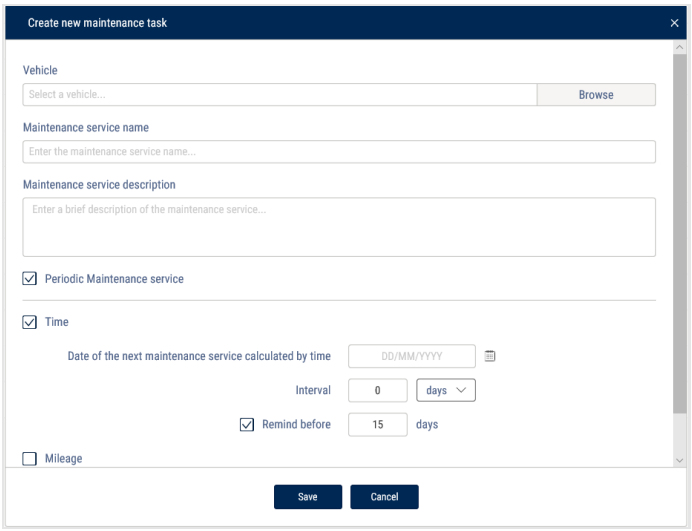
Task Creation

Select one or several VH for which it is required to control the maintenance, press the right mouse button and select “Maintenance schedule”:

Control over VH Maintenance



Press the right mouse button and select “Create new maintenance task”:



“VH” - select a VH, for which it is necessary to add a task for maintenance.

“Maintenance service name” - enter a denomination of technical maintenance.

“Periodic maintenance service” - switch it on if automatic generation of maintenance task is required, with the set intervals between the procedures.

“Maintenance service description” - enter description of works to be performed during maintenance.

“Time” - time of switching on/off control over performance of maintenance by date.

With switched on control over maintenance performance date:

- “Date of the next maintenance service calculated by time” - select a date for maintenance service performance. Allowed values: from 01/01/2000 to 31/12/2030

- "Interval" - set a number of days or months between maintenance services for automatic generation of a next maintenance task. It applies to periodic maintenance service only
- "Remind before" - specify in how many days before the maintenance service date, the notification shall be generated and the maintenance task shall be selected in the list.

For notifications generation it is required to add a notification on event "Maintenance is expected".

"Mileage" - switching on/off control over performance of maintenance service by mileage. Switching on control over mileage is allowed only with the set initial parameters for control over maintenance service in the VH profile.

With switched on control over VH mileage before the maintenance service:

- "Date of the next maintenance service calculated by mileage, km" - set the value of the VH mileage upon achieving which its technical maintenance needs to be carried out. Allowed values: from 1 to 10.000.000.
- "Interval" - set a number of kilometers between maintenance procedures for automatic generation of the next maintenance task. It applies to periodic maintenance service only.
- "Remind before" - specify in how many kilometers before the mileage value of maintenance service, the notification shall be generated and the maintenance task shall be selected in the list.

For notifications generation it is required to add a notification on event "Maintenance is expected".

"Engine hours" - time of switching on/off control over performance of maintenance by number of engine hours. Switching on control over engine hours is allowed only with set initial parameters for control over maintenance service in the VH profile.

With switched on control over VH engine hours before the maintenance service:

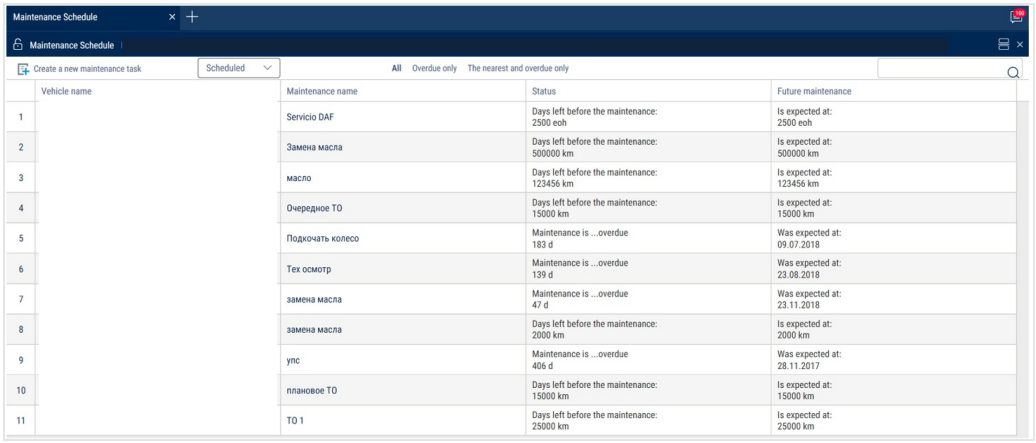
- "Date of the next maintenance service calculated by engine hours" - set a number of the VH engine hours upon reaching which the VH technical maintenance needs to be carried out. Allowed values: from 1 to 10. 000.000.
- "Interval" - set a number of engine hours between maintenance procedures for automatic generation of the next maintenance task. It applies to periodic maintenance service only.

- “Remind before” - specify in how many engine hours before the achievement of the value of the next maintenance service, the notification shall be generated and the maintenance task shall be selected in the list.

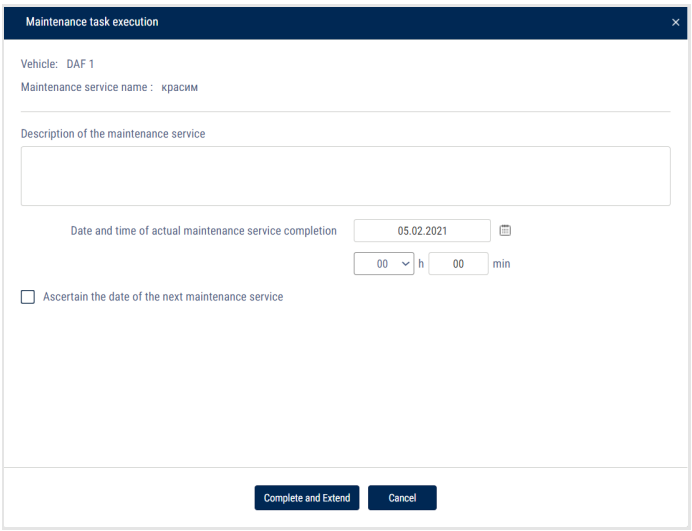
For notifications generation it is required to add a notification on event “Maintenance is expected”.

Maintenance Records

Select one or several VH, for which it is required to record the maintenance service recording, press the right mouse button and select “Execute the maintenance task”:



The window will open:



“Vehicle” - a name of the VH on which the maintenance service was performed.

“Maintenance service name” - a title of the maintenance service.

“Maintenance service description”- enter description of works which were performed during the maintenance service.

“Date and time of actual maintenance service completion” - specify the date and time, when the maintenance was performed.

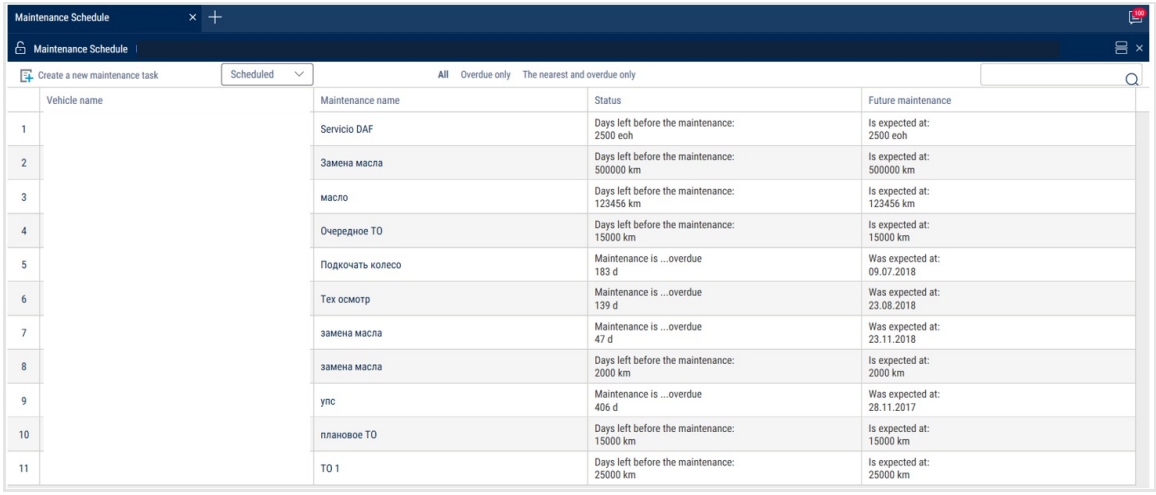
“Ascertain the date of the next maintenance service” - switch it on if it is necessary to adjust the date of the next maintenance. With correction of the due date of the next performance switched on:

“Due date of the next maintenance service by time” - set the date of performance of the next maintenance service.

Press the “Complete and Extend” button.

Scheduled Tasks

Select one or several VH, for which it is necessary to gather information on conducting of maintenance service, press the right of mouse button and select “Maintenance service control”. Select filter “Scheduled”:



	Vehicle name	Maintenance name	Status	Future maintenance
1		Servicio DAF	Days left before the maintenance: 2500 eoh	Is expected at: 2500 eoh
2		Замена масла	Days left before the maintenance: 500000 km	Is expected at: 500000 km
3		масло	Days left before the maintenance: 123456 km	Is expected at: 123456 km
4		Очередное ТО	Days left before the maintenance: 15000 km	Is expected at: 15000 km
5		Подкочать колесо	Maintenance is ...overdue 183 d	Was expected at: 09.07.2018
6		Тех осмотр	Maintenance is ...overdue 139 d	Was expected at: 23.08.2018
7		замена масла	Maintenance is ...overdue 47 d	Was expected at: 23.11.2018
8		замена масла	Days left before the maintenance: 2000 km	Is expected at: 2000 km
9		упс	Maintenance is ...overdue 406 d	Was expected at: 28.11.2017
10		плановое ТО	Days left before the maintenance: 15000 km	Is expected at: 15000 km
11		ТО 1	Days left before the maintenance: 25000 km	Is expected at: 25000 km

Color-coded indication of tasks for maintenance:

- Pink means the tasks for maintenance are not performed, their due date has already passed
- Green is for maintenance tasks, whose performance is expected in the period of time specified when creating the task in the field “Remind in”
- Not highlighted with color are the maintenance tasks upon creating of which the reminder was not required

Upon view of the planned tasks for maintenance performance, there is an option to use the following filters:

- “All” - the list displays the overdue tasks; the tasks which were created, when the reminder was ON and the tasks, which were created when the reminder was OFF
- “The nearest and overdue only” - the list will display the overdue tasks and the tasks which were created with the parameter value “Remind in” specified and whose time for reminder has come
- “Only overdue” - the list will display only overdue maintenance tasks, as the term for performance of which has already passed and maintenance was not performed

The following information for Maintenance control is given:

“VH name” - a name of VH, whose maintenance was performed.

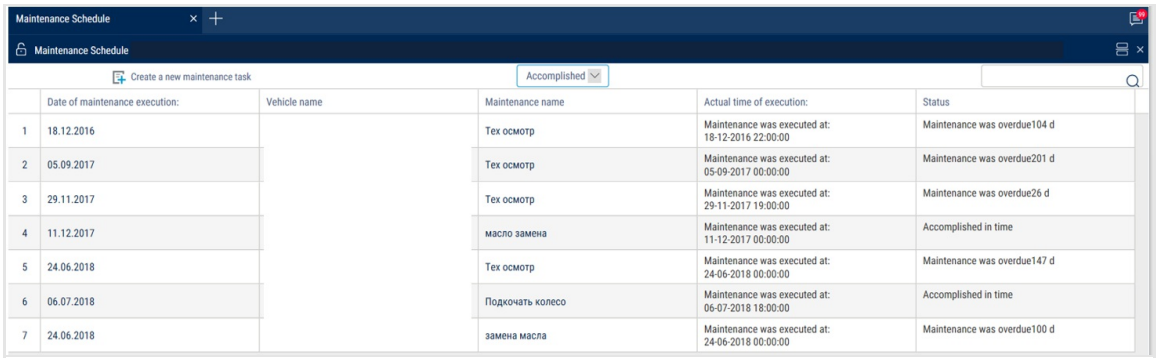
“Maintenance name” - a title of the maintenance service.

“Status” - the state of maintenance (overdue or expected) specifying the number of days before the maintenance or how many days are overdue.

“Expected maintenance” are expected and overdue maintenance services specifying the scheduled date of the maintenance.

Accomplished Tasks

Select VH, for which it is necessary to collect the information on performance of maintenance service, press the right mouse button and select “Maintenance service control”. Select the filter “Accomplished”:



	Date of maintenance execution:	Vehicle name	Maintenance name	Actual time of execution:	Status
1	18.12.2016		Тех осмотр	Maintenance was executed at: 18-12-2016 22:00:00	Maintenance was overdue104 d
2	05.09.2017		Тех осмотр	Maintenance was executed at: 05-09-2017 00:00:00	Maintenance was overdue201 d
3	29.11.2017		Тех осмотр	Maintenance was executed at: 29-11-2017 19:00:00	Maintenance was overdue26 d
4	11.12.2017		масло замена	Maintenance was executed at: 11-12-2017 00:00:00	Accomplished in time
5	24.06.2018		Тех осмотр	Maintenance was executed at: 24-06-2018 00:00:00	Maintenance was overdue147 d
6	06.07.2018		Подкочать колесо	Maintenance was executed at: 06-07-2018 18:00:00	Accomplished in time
7	24.06.2018		замена масла	Maintenance was executed at: 24-06-2018 00:00:00	Maintenance was overdue100 d

Completed maintenance tasks are not highlighted with color.

“Date of maintenance execution” - the date of maintenance performance, specified in the maintenance task.

“VH name” - a name of VH, whose maintenance was performed.

“Maintenance name” - a title of the maintenance service.

“Actual time of execution” - the date of the actual performance of maintenance.

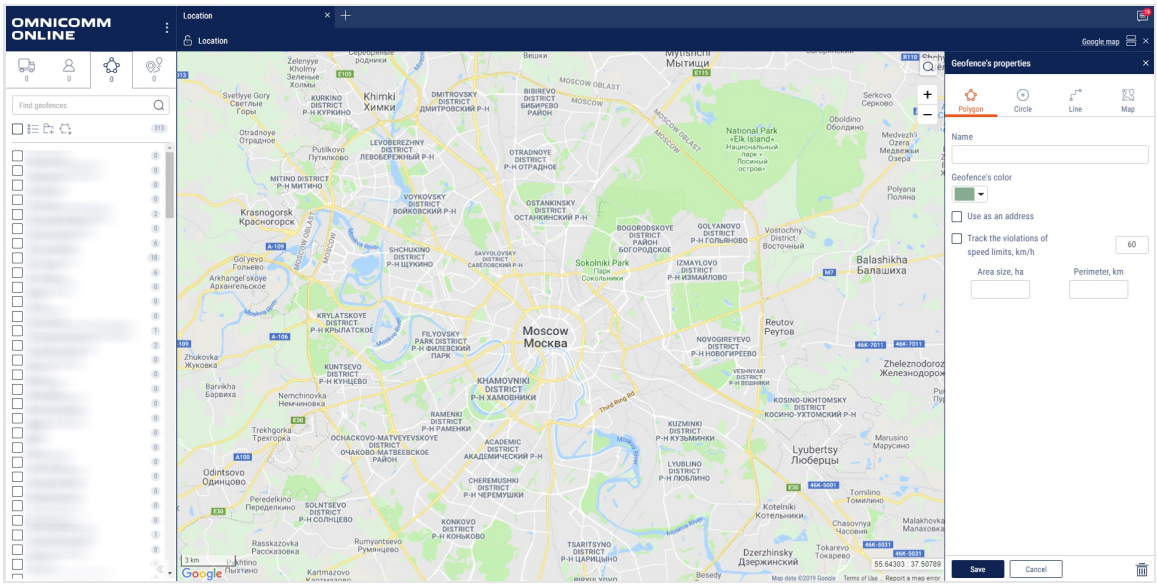
“Status” - the information about the timeliness of performance of maintenance specifying the number of days, if the maintenance was overdue.

Geofences

Geofences data processing is performed with reference to user. Therefore, Omnicomm Online is going to process only entries and exits of VH from geofences owned by the client. The user with a dealer account can only view “Geofences” report against the geofences and client's VH.

Creation of the Geofences can be performed from the “Geofences” section and “Track” and “Location” reports. Dynamic geofences can be created in the vehicle profile (see Omnicomm Online. Administration Guide. The "Profile editing" section)

In the “Geofences” section in the root catalogue press to create geofences :



In the “Geofences properties” section:

Select the shape to be drawn around the geofence. Possible options: “Polygon”, “Circle”, “Line”, “Map”.

“Name” - enter the geofence name.

“Geofence color” - select the color to highlight the geofence on the map.

For the geofence of “Circle” type specify “Radius, km” of the created geofence circle.

If necessary, specify the coordinates of the circle center in the fields “Latitude” and “Longitude”.

For the “Line” type geofence in the “Width, m” field select the width of the created

geofence. Possible values: from 10 to 1000 m.

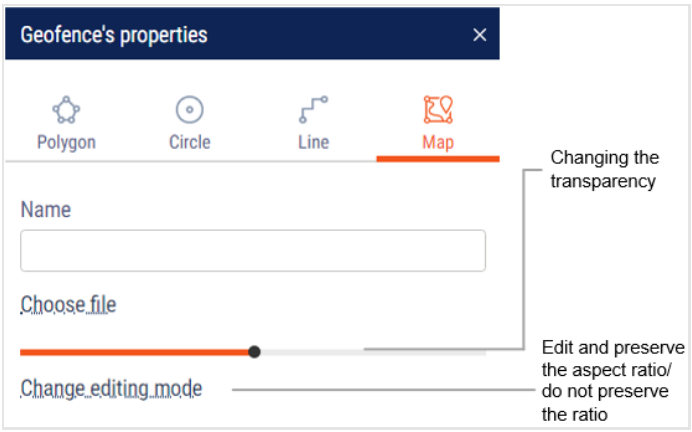
“Use instead the address” - display the geofence name in the reports instead of the address.

“Track speeding” - switching on recording of the event of speeding when the VH is in the geofence.

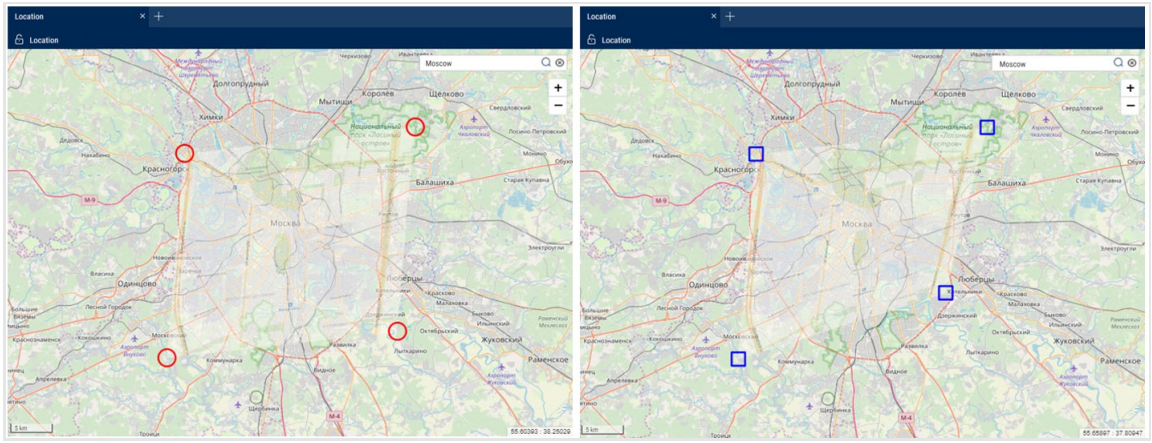
“Allowed speed, km/h” - enter the value of maximum allowed speed for the VH located in the geofence upon exceeding of which the event “Speeding in the geofence” will be recorded. The field is active only with switched on tracking of speeding.

The geofence's area and perimeter will be calculated automatically for the “Polygon”, “Circle”, and “Line” shapes.

To overlay a user terrain map, select “Map” as the geofence type.



Click the Select file link and choose the file that you wish to use for the geofence. Supported formats: bmp, jpg, jpeg, gif, tiff, tif, png, svg, cdr, sgm, dfx, wmf. Select a point on the map where you wish to place the map image. A rectangular geofence will be created with the uploaded image.

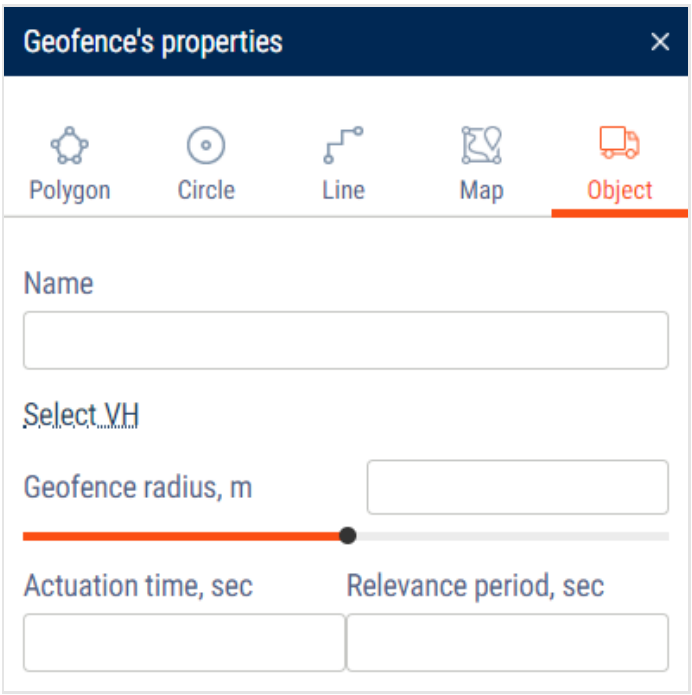


Press the “Save” button.

For a dynamic geofence:

Geofences

Dynamic geofence is a geofence which looks like a circle with a basic vehicle as its center.



Use the Select VH dropdown menu in order to select the vehicle which will be used as base for a dynamic geofence.

"Geofence radius, m" – select the desired radius of a dynamic geofence. Default value - 25 meters.

"Actuation time, sec" is the time period during which vehicle shall be within the dynamic geofence in order to record an event. Default value - 60 sec.

"Relevance period, sec" is the time period by the end of which in case if no valid coordinates were received from a vehicle, it will be recorded as "Dynamic geofence not found". Default value - 180 sec.

If you want to view reports for the created geofence for a past period of time, select the vehicle, specify the time period and recalculate.

Creating a geofence duplicate

Use a geofence duplicate when you wish to create a geofence with insignificant differences from the selected one.

Select the geofence that you wish to duplicate, right-click and select "Create a geofence duplicate". The geofence editor will open with all the settings of the selected geofence:

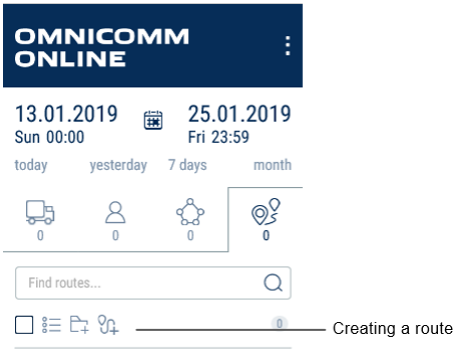
The “Name” field will show the name of the geofence with the word “copy” at the end.

Make the necessary changes and click the “Save” button.

Routes

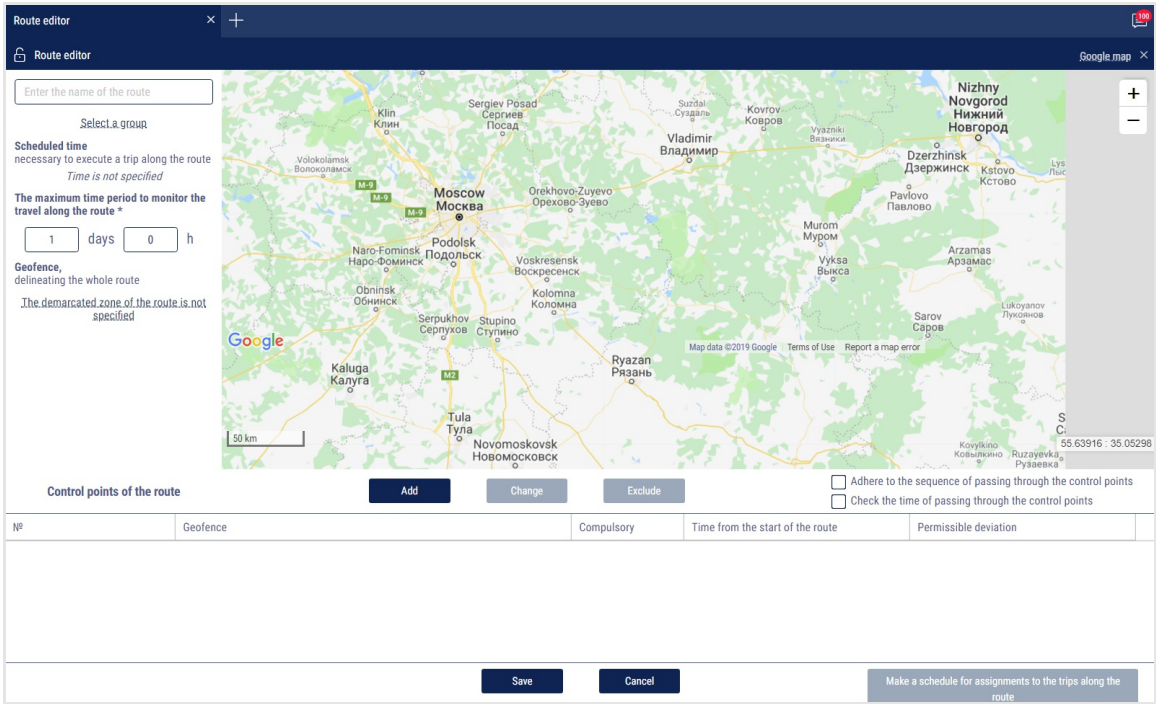
Creating a Route

In the “Routes” section, create a group of routes or choose an existing group to which you want to add the route and click the “Create a route” button.



The route editing window will open:

Routes



“Name” - enter the name of the route.

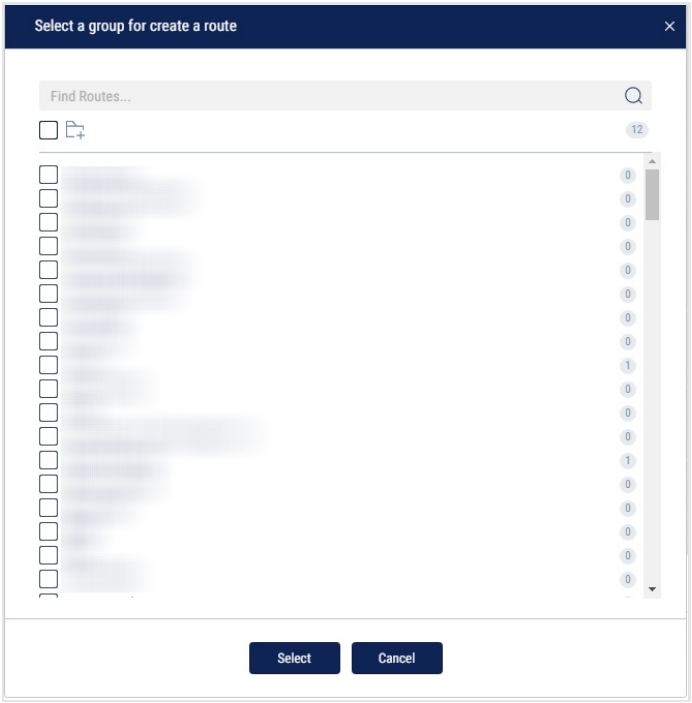
Choose the group of routes that will include the created route by clicking “Select the group”

“Scheduled time” - the scheduled time required to complete a trip along the route. The scheduled time is calculated automatically when the time for passing control points and setting parameters for a scheduled visit re enabled in the settings of control points.

“Maximum time for completing the route” - the maximum time from the start of the trip allotted to complete the trip. If during the course of the maximum route control time, the trip was not completed, Omnicomm Online force stops the trip and displays “Terminated because the maximum duration of route control has expired” in the report. The maximum allowable time may not have a value lower than the “Scheduled time”.

If necessary, select the geofence that will limit the route or click the “Route delimiting area not set” link. If the vehicle leaves the selected geofence, Omnicomm Online will record a violation. In the window that opens, select the geofence and click “Save”.

Routes

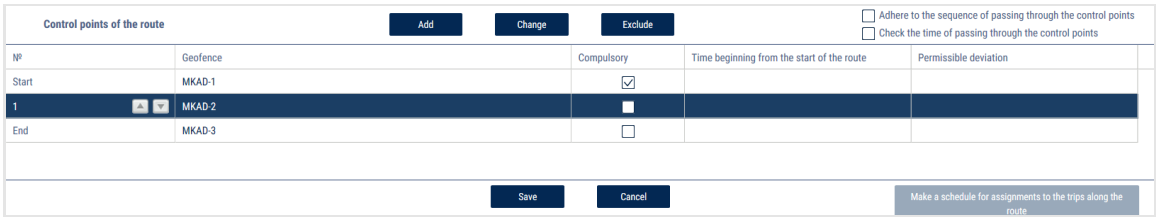


Route control points setup

“Follow the order of control points” - is indicated when it is necessary to check the sequence of control point visits according to the order specified in the route settings. If the sequence of control points is not observed, the reports will show a “Missed control point” or a “Wrong order of control points” violation.

“Check the time of visit to control points” - indicates if it is necessary to check the time of control point visits according to the scheduled visit time from the beginning of the trip along the route, taking into account the allowable deviation from the scheduled visit time specified in the settings for each control point.

To add control points, click “Add” in the route editor window.



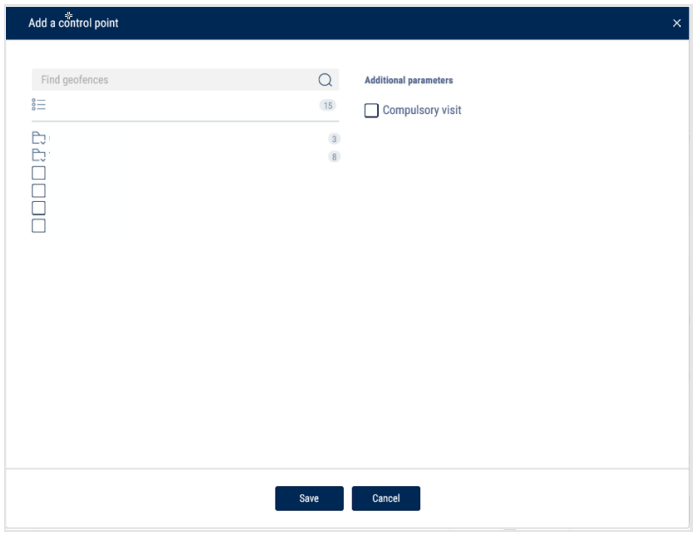
“Compulsory visit” - check the box if visiting this checkpoint is mandatory. If the vehicle does not visit this control point, a violation will be displayed in the reports.

“Scheduled time of visit from the start of the trip on the route” - the time from the start of the route, after which the vehicle must visit the control point. The setting is displayed only when “Check the time of visit to control points” is enabled and not displayed for the geofence of the start of the route.

"Permissible deviation from the scheduled time" - if the vehicle visits the checkpoint within the time of allowable deviation from the schedule, the violation will not be recorded. The setting is displayed only when "Check the time of visit to control points" is enabled and not displayed for the geofence of the start of the route.

Press the "Save" button. The first control point will be the geofence of the start of the route, the following will be added below. Each following control point will be automatically registered as the geofence of the end of the route. The start and the end of the route are compulsory control points of the route.

If it is necessary to add intermediate control points, click the "Add" button and select the geofences of the intermediate control points. The added control point will automatically become the geofence of the end of the route. To change the order of control points in the list, use the Up and Down button.



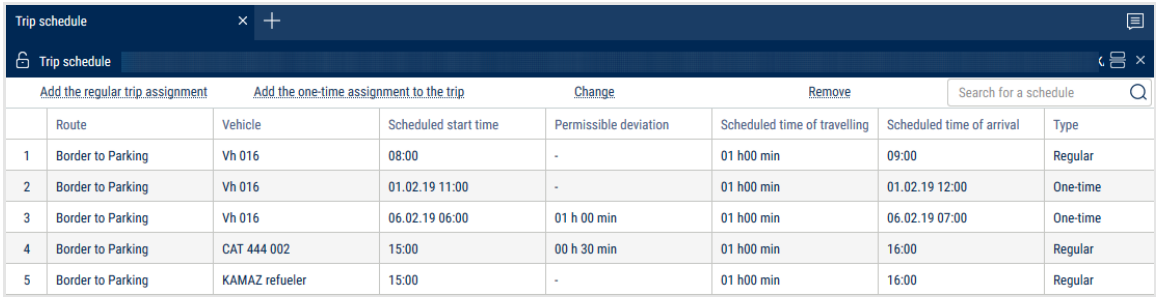
Changes to the route will not affect an active trip. Changes to the route become effective only for the new trips.

After the route is saved, the "Create a trip schedule" button will become active. Press it to open the trip schedule editor window. Create a trip schedule to monitor the movement of vehicles along the route.

Creating a Trip Schedule

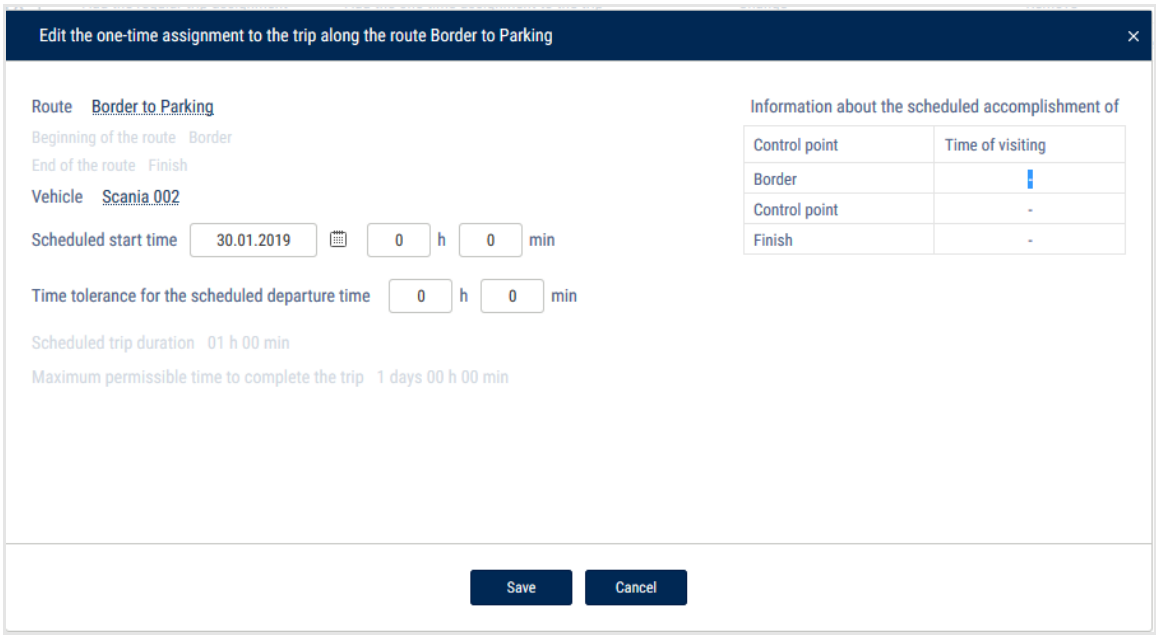
The trip schedule establishes the correspondence between the vehicle and the routes, i.e. it establishes which vehicle should follow the route and, if necessary, indicates the time of departure. Trips for several vehicles can be created on the same route. In the "Route" section, select one or more routes for which you wish to create a trip schedule. Right-click and select "Open trip schedule". A window will open:

Routes



	Route	Vehicle	Scheduled start time	Permissible deviation	Scheduled time of travelling	Scheduled time of arrival	Type
1	Border to Parking	Vh 016	08:00	-	01 h00 min	09:00	Regular
2	Border to Parking	Vh 016	01.02.19 11:00	-	01 h00 min	01.02.19 12:00	One-time
3	Border to Parking	Vh 016	06.02.19 06:00	01 h 00 min	01 h00 min	06.02.19 07:00	One-time
4	Border to Parking	CAT 444 002	15:00	00 h 30 min	01 h00 min	16:00	Regular
5	Border to Parking	KAMAZ refueler	15:00	-	01 h00 min	16:00	Regular

Click “Add a scheduled departure time”. A window will open:



“Schedule active” - enables/disables trip monitoring based on the given schedule.

“Route” - displays the route for which the schedule is created. If you require to change the route for which a trip is being created, click on the link and select the route.

Select the vehicle which must start the trip at the scheduled time by pressing “Select the vehicle”. Press the “Save” button.

“Scheduled departure time” - specify the time when the vehicle must start the trip every day. It is not necessary to set a scheduled departure time. Omnicomm Online will automatically establish the start of the trip when the vehicle leaves the control point at the start of the route.

“Permissible deviation from the scheduled departure time” - the deviation from the scheduled departure time during which a trip start will be recorded. If the trip did not start at the scheduled time, accounting for the allowable deviation, the trip will register as not carried out.

Press the “Save” button. A window with trip schedules will open.

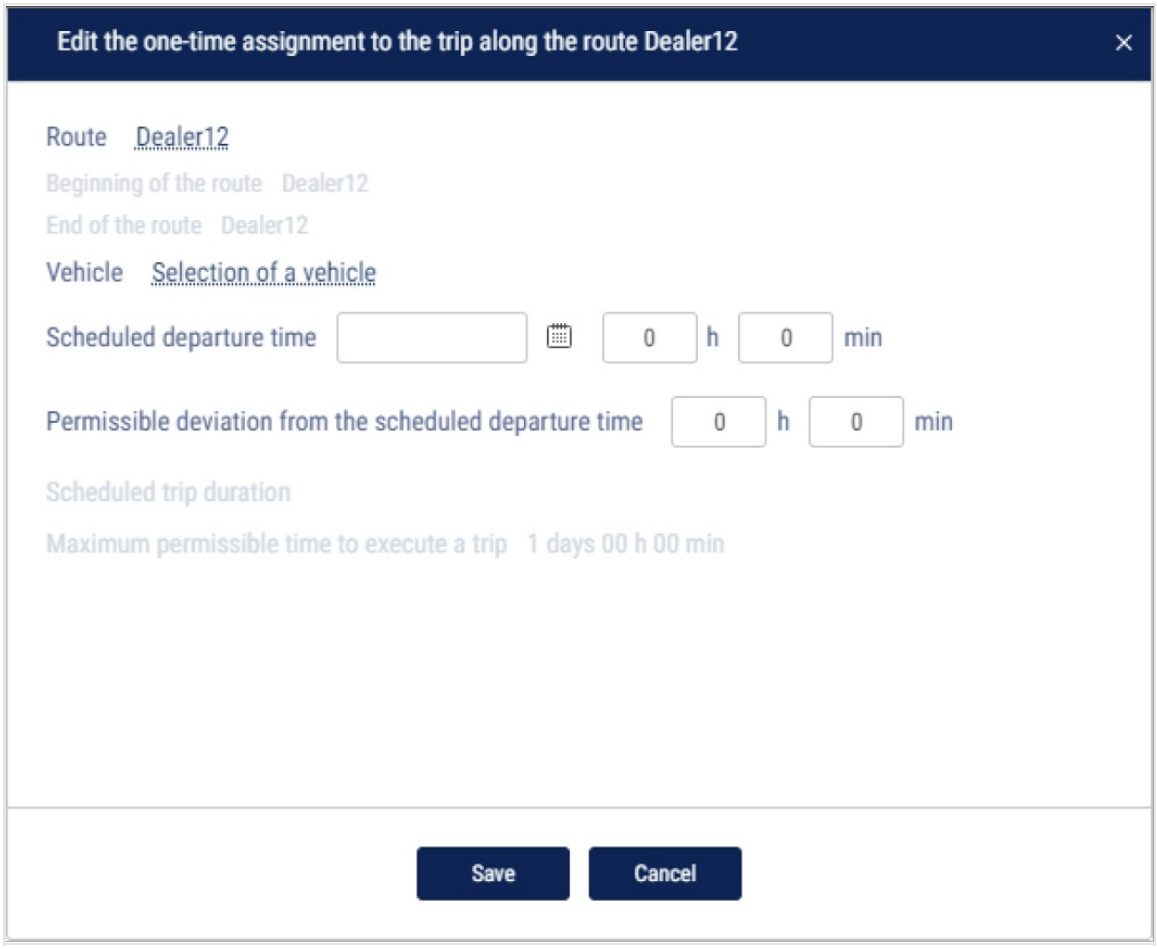
For a trip without a scheduled departure time, the geofence of the start of the route

should not coincide with any control point (except for the geofence of the end of the route) of any other trip.

Creating a One-Time Trip

For a one-time trip, it is possible to set a date for the vehicle to complete the route. The one-time trip will be removed from the schedule after the vehicle completes the route

In the “Routes” section, select the route for which you wish to create a one-time trip, right-click and select “Designate for one-time trip”



Select one or more vehicles that have to complete the trip by clicking “Select vehicles”. Press the “Save” button.

“Scheduled departure time” - date and time when the vehicle must leave for the one-time trip. If only a date is provided, the trip will be monitored starting at 00:00 of the specified date. If no date or time is indicated, the start of the trip will be recorded when the vehicle leaves the geofence of the start of the trip.

“Permissible deviation from the scheduled departure” - the deviation from the scheduled departure of the vehicle during which the start of the trip will be recorded (Figure 196). If

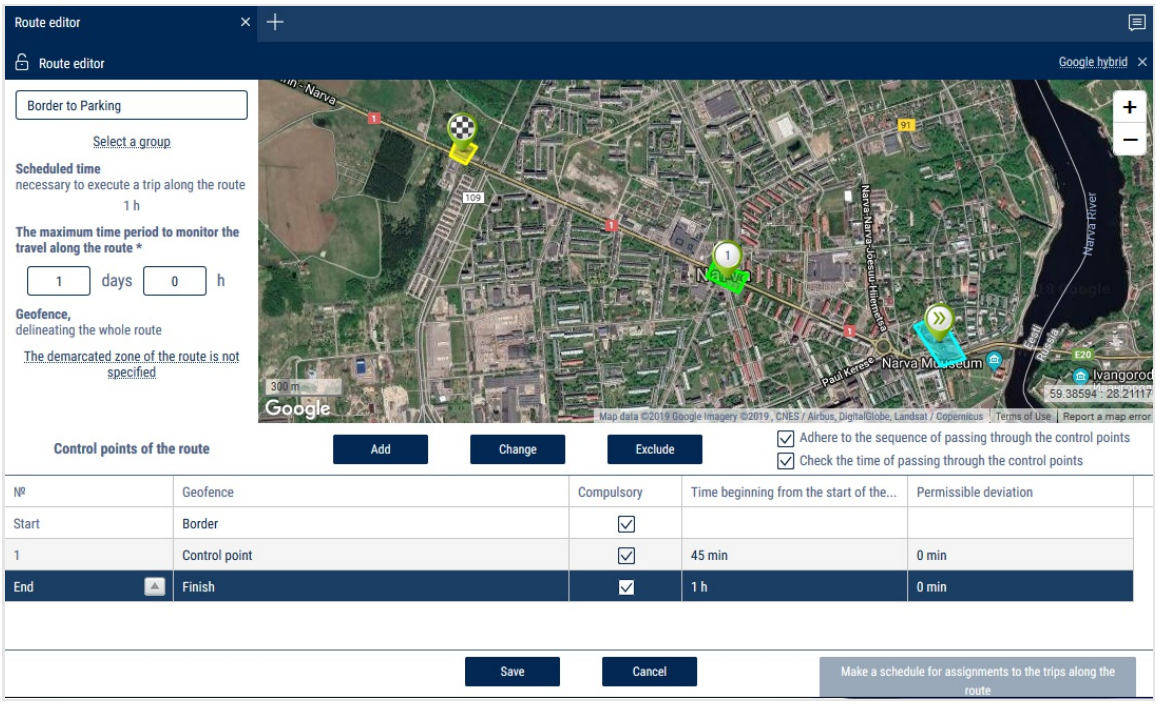
the trip did not start at the scheduled time, accounting for the allowable deviation, the trip will register as not carried out.

Press the “Save” button.

Creating a Route Duplicate

It is recommended to use a route duplicate when you wish to create a route that has only minor differences from the selected one.

In the “Routes” section, select a route that you wish to duplicate, right-click and select “Create a route duplicate”. The route editor will open with all the settings of the selected route:

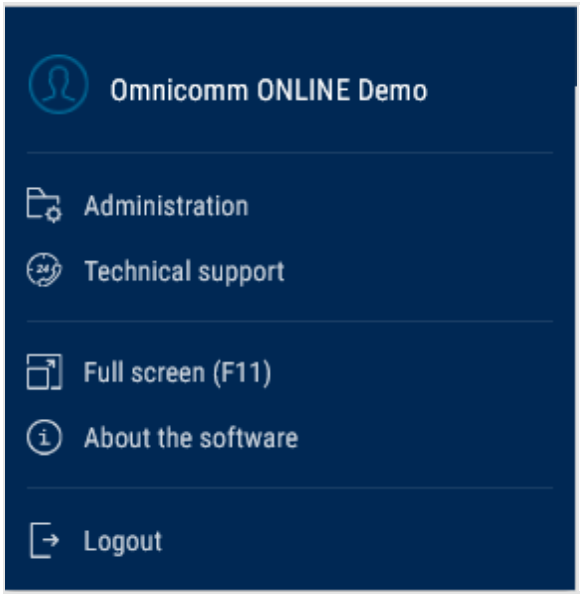


The “Name” field will show the name of the route with the word “copy” at the end.

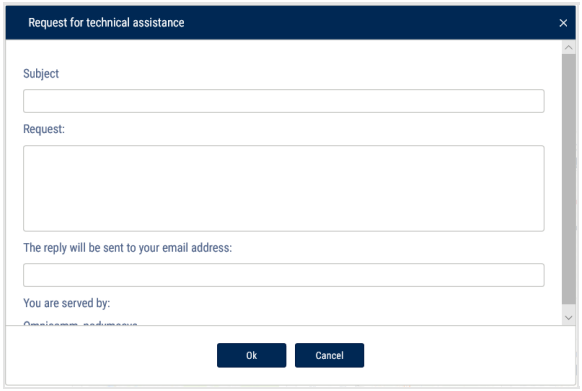
Make the necessary changes and click the “Save” button.

Sending a Message to the Technical Support Team

In the Omnicomm Online menu, select “Technical support”:



A window will open:



Subject - specify the subject of the message.

Request - describe your issue

Your question - describe your issue.

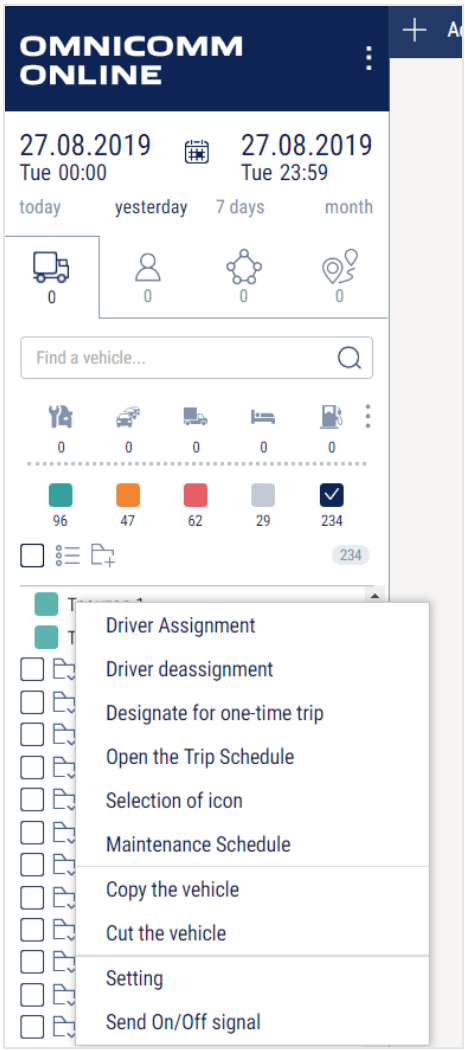
The reply will be sent to your email address: - enter the email address to receive an answer from technical support.

The additional contact information like email, phone number, and address line previously provided by the partner (dealer) displayed here.

Switching the Equipment On/Off via the Controlled Output of the Omnicomm Terminal

1. Select one or several vehicles

2. Right-click the mouse and select “Send the on/off signal”



The command can be processed only when there is a connection with the vehicle.

Appendix. Calculation of the VH Operation Parameters

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Mileage, (km)/Total mileage, (km)	Mileage for the selected period	Total mileage, (km) for several VH during the selected period	Total mileage, (km)
Average mileage, (km)	-	Average mileage, (km) for several VH during the selected period	Average mileage, (km)
Mileage with speeding (km)/Total mileage with speeding (km)	Speeding mileage, (km) Mileage with speed exceeding the allowed speed, set in the VH profile	Total speeding mileage, (km) Total mileage with speed exceeding the allowed speed, set for each VH in its profile	Total speeding mileage, (km)
Average speed in motion, km/h	Average speed= mileage/motion time	-	Average speed in motion, (km/h) for one driver
Maximum speed, (km/h)	Maximum speed for VH during the selected period	-	Maximum speed, (km/h) for one driver

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Time of motion/Average time of motion (hh: mm: sec) (% from the report period)	Time of motion for the period, which is calculated based on the conditions: speed is over 2 km/h and ignition is ON Percentage of time from the total time of the report.	Average time of motion of the several VH for the period, which is calculated based on the conditions: speed is over 2 km/h and ignition is ON Average percentage of time from the total time of the report.	Average time of motion
Total time of motion, (hh:mm:sec)	-	Total time of motion of several VH during the period of the report generation	Total time of motion according to the selected drivers during the period of the report
Time of engine operation/Total time of engine operation (hh:mm:sec) (% from the report period)	Time of engine operation Time, during which the level of engine revolutions was greater than 10 rev/min Percentage of engine operation time from the total period of the report.	Total time of engine operation. Time, during which the level of the VH engines revolutions was greater than 10 rev/min Average percentage of engine operation time from the total period of the report.	Total time of engine operation

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Time of engine operation in motion / Total time of engine operation in motion (hh:mm:sec), (% from the report period)	Time of engine operation in motion. The sum of all intervals of time with the level of revolutions greater than 10 rev/min and the speed over 2 km/h Percentage of engine operation time in motion from the total period of the report	Total time of engine operation in motion The sum of all intervals of time with the level of revolutions greater than 10 rev/min and the speed over 2 km/h Average percentage of engine operation time for several VH in motion from the total period of the report	Total time of engine operation
Time of engine operation without motion / Total time of engine operation without motion (hh:mm:sec), (% from the report period)	Time of engine operation without motion. The sum of all intervals of time for the period of report without required conditions of motion (ignition is ON and speed is over 2 km/h) Percentage of engine operation time without motion from the total period of the report	Total engine operation time when the VH is motionless The sum of all intervals of time for the period of report without required conditions of motion (ignition is ON and speed is over 2 km/h) Average percentage of engine operation time without motion from the total period of the report	Total engine operation time when the VH is motionless

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Time of idle engine operation/Total time of idle engine operation (hh:mm:sec) (% from the time of engine operation)	Engine idle time The sum of all intervals of time during the period of the report where the revolutions level is less than the level of idle revolutions specified in the VH profile Percentage of engine idle operation time from the total period of the report.	Total engine idle time The sum of all intervals of time on several VH during the period of the report with the level of revolutions is lower than the levels of the idle revolution set in the VH profiles. Average percentage of engine idle operation from the total period of the report	Total engine idle time
Time of engine operation on normal revolutions / Total time of engine operation on normal revolutions (hh:mm:sec) (% from the time of engine operation)	The sum of all intervals of time during the period of report with the level of engine revolutions greater than the level of idling and less than the level of maximum revolutions, which is set in the VH profile Percentage of engine operation time on normal revolutions from the total time of the report	The sum of all intervals of time during the period of report with the level of engine revolutions is greater than the parameters of levels of idling and less than the level of maximum revolutions, set in the VH profile Average percentage of engine operation time on normal revolutions from the total time of the report	Total time of engine operation with the normal revolutions

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Time of engine operation with maximum revolutions / Total time Total time of engine operation with the maximum revolutions (hh:mm:sec),(% from the time of engine operation)	Time of engine operation with the maximum revolutions The sum of all intervals of time, during which the level of engine revolutions was greater than the level of maximum revolutions, set in the VH. Percentage of engine operation time with the maximum revolutions from the total time of the report.	Total time of engine operation with the maximum revolutions. The sum of all intervals of time, during which the level of engines revolutions was greater than the levels of maximum revolutions, set in the VH profiles Average percentage of engine operation time with the maximum revolutions from the total time of the report	Total time of engine operation with the maximum revolutions
Total engine OFF time/Total engine OFF time for several VH (hh:mm:sec) (% from the time of engine operation)	Engine OFF time, which is calculated by the formula: Engine OFF time = (Date of the end of the period end - date of the beginning of the period) - time of engine operation with the normal RPM during the period - idle time during the period - time of operation with the max load exceeded	Total engine OFF time for several VH	Total engine OFF time
Fuel (vehicle)			

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Parameter name	For one VH	For several VH	For one or several drivers
Initial volume, (l)	Volume of fuel at the start of the selected report period	-	-
Final volume, (l)	Volume of fuel at the end of the selected report period	-	-
Actual consumption, (l)	"Actual consumption during the period" = "Fuel level at the period start" – "fuel level at the period end" – "the sum of fuel levels at the refueling start" + "the sum of fuel levels at the refueling end" – "the sum of fuel levels at the draining start" + "the sum of fuel levels at the draining end"	Actual total fuel consumption for several vehicles during the period of report	Actual total fuel consumption for one or several drivers of the period
Average actual consumption, (l)	-	Average actual consumption of fuel for several VH	Average actual consumption (l) for one or several drivers

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Refueling volume, (l)	The total refueling volume, start of which is included in the selected report period	The total refueling volume, start of which is included in the selected report period	The total volume of the refueling, the date of whose start is included in the driver registration period
Draining volume, (l)	The draining total volume, start of which is included in the selected report period	The draining total volume, the date of whose start is included in the driver registration period	The total draining volume, start of which is included in the driver registration period
Minimum volume, (l)	Minimum volume of fuel during the period of the report	-	-
Maximum volume, (l)	Maximum volume of fuel during the period of the report	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Actual consumption per 100 km, (l)	Actual consumption per 100 km = (Actual consumption during the period/Mileage during the period) *100% *under the condition that the mileage is over 10 km	Average actual consumption of fuel for several VH per 100 km	-
Actual mileage per 1 l, km	Actual consumption per 1 l = (Actual consumption during the period/Actual mileage during the period)	Average actual consumption per 1 liter for several VH	-
Actual consumption per 100 km in motion, (l)	Actual consumption per 100 km in motion = (Actual consumption in motion/Mileage during the period) *100% *under the condition that the mileage is over 10 km	The sum of total consumptions per 100 km in motion of all VH divided by number of VH	-
Actual consumption per 1 l in motion, (km)	Actual consumption per 1 l in motion = Mileage during period/Actual consumption in motion	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Actual consumption in motion, (l)	Actual consumption in motion is calculated in accordance with the following: ignition is on, speed is over 2 km/h	Total actual consumption in motion for several VH during the selected period of the report	Total actual consumption in motion
Actual consumption motionless, (l)	Difference between actual consumption and consumption in motion: Consumption motionless = Actual consumption - Consumption in motion	Total actual consumption motionless for several VH during the selected period of the report	Total actual consumption motionless
Actual consumption per hour of engine operation, l	Actual consumption per hour of engine operation, l = Actual consumption during the time of engine operation/Quantity of engine operation hours *under the condition that a quantity of engine operation hours exceeds 0.5	Average actual consumption per hour of engine operation, l for several vehicles, the average actual consumption of fuel per hour of engine operation	-
Actual consumption per motor hour, l	Actual consumption per motor hour, l = Actual consumption during the period/Quantity of engine operation hours	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Actual consumption per hour of engine operation motionless, l	Actual consumption per hour of engine operation motionless = Actual consumption during the time of engine operation motionless/ Quantity of engine operation hours motionless Actual consumption during the time of engine operation motionless – Actual consumption, calculated for the intervals of time of the period, during which the engine worked and VH was in motionless *under the condition that a quantity of engine operation hours exceeds 0.5	Average actual consumption per hour of engine operation motionless, l for several VH – average actual consumption per hour of engine operation motionless	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Actual consumption per hour of engine operation in motion, l	Actual consumption per hour of engine operation in motion = (Fuel consumption during the time of engine operation - Fuel consumption during the time of engine operation motionless)/Time of engine operation in motion *under the condition that a quantity of engine operation hours exceeds 0.5	-	-
Actual consumption during the time of engine operation, l	Actual consumption during the time of engine operation – actual consumption, calculated for the intervals of time of the period, during which the engine worked	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Consumption rate per 100 km, (l)	Normal consumption per 100 km shall be set in the VH profile "Ready" standards of the fuel consumption can be found: 1) in the technical documentation on vehicle 2) consumption rates of fuel and lubricants for road transport (R3112194-0366-03), affirmed by the Ministry of Transport of Russia on April 29, 2003 They also can be calculated independently in the process of VH operation, based on the actual consumption of fuel per 100 km	-	-
Mileage rate per 1 liter, km	Mileage rate per 1 liter, km	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Estimated consumption according to the set rate 100km, (l)	Rated consumption per rate for 100 km shows how much the vehicle should consume during the selected period in accordance with consumption rate per 100 km Rated consumption per rate for 100 km = (Rated consumption per 100 km * mileage)/ 100	-	-
Calculated mileage according to the rate per 1 liter for the period, km	Rated consumption per rate for 1 liter shows, how much the vehicle should travel during the selected period of report in accordance with consumption rate per 1 liter	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Deviation from rate per 100 km, (%)	Difference between Actual consumption per 100 km and the fuel consumption per 100 km, given in percent Deviation from the rate per 100 km, (%) = 100* (Actual consumption per 100 km - Consumption rate per 100 km)/ Consumption rate per 100 km Positive value corresponds to the excessive fuel consumption more than the rate Negative value corresponds to consumption less than the set rate	-	-
Deviation from the mileage rate per 1 liter, (%)	Difference between the Actual mileage per 1 liter and mileage rate per 1 liter, given in percent: Deviation from rate per 1 liter, (%) = 100*(Actual consumption per 1 l - Mileage rate per 1 l)/Mileage rate per 1 l	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Overconsumption against the rate per 100 km for the period, (l)	Difference between the Actual consumption and the Rated consumption per 100 km: Overconsumption against the rate per 100 km for the period, (l) = Actual consumption - Rated consumption per 100 km Positive value – corresponds to the excessive fuel consumption (over the rate) Negative value corresponds to consumption less than the set rate	-	-
Mileage against the rate per 1 l during the period, km	Difference between Actual mileage and the rated mileage per 1 liter: Mileage against the rate per 1 l = Actual mileage - the rated mileage per 1 l	-	-
Rate of consumption per hour of engine operation	Rate of consumption per hour of engine operation	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Rated consumption per hour of engine operation, (l)	Consumption according to the rate of engine operation = rate of consumption per hour of engine operation * a quantity of engine operation	-	-
Deviation from rate per hour of engine operation, (%)	Positive value corresponds to the excessive fuel consumption (over the rate) Negative value corresponds to the consumption less the set rate per hour of engine operation	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Overconsumption against the rate per hour of engine operation for the period, (l)	Difference between the actual consumption and consumption according to the engine operation rate per hour Overconsumption against the rate per hour of engine operation = Actual consumption – Consumption per engine operation rate per hour Positive value corresponds to the excessive fuel consumption (over the rate) Negative value corresponds to consumption less than the set rate per hour of engine operation	-	-
Fuel (fuel tanker)			
Parameter name	For one VH	For several VH	For one or several drivers
Initial volume, (l)	Fuel volume at the start of the selected report period	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Final volume, (l)	Fuel volume at the end of the selected report period	-	-
Volume of tanking, (l)	Total tanking volume, start of date which is included in the selected report period	Total tanking volume	Total tanking volume for the periods of registration of drivers
Volume of dispensing, (l)	Total dispensing volume, start of date which is included in the selected report period	Total dispensing volume	Total dispensing volume for the periods of registration of drivers
Volume of draining, (l)	Total draining volume, start of date which is included in the selected report period	Total draining volume	Total draining volume for the periods of registration of drivers
Minimum volume, (l)	Minimum volume of fuel during the report period	-	-

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Maximum volume, (l)	Maximum volume of fuel during the report period	-	-
Probable fuel draining/Excessive volume	The difference between the readings of Fuel level sensor LLS and meter is calculated by the formula: Initial volume - Final volume + Volume of tanking - Volume of dispensing If the value Difference between readings < 0, the parameter “Excess of dispensing volume over tanking volume, l” is displayed If the value Difference between readings is less than one of the maximum values: “Fuel draining threshold”, “Refueling threshold”, “1% of fuel tank volume” or “20 liters”, Omnicomm Online assumes “Excess of dispensing volume over tanking volume, (l)” value to be equal to zero If difference between values is ≥0, “Potential draining, l” is displayed.	-	For one driver, the value is calculated for the total time of driver registration on the fuel tanker for the report period “Not defined” - when the driver registers on more than one fuel tanker for the report period

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Auxiliary equipment (one vehicle)			
Parameter name	Analogue type	Pulse type	Potential type
Maximum value within the period	Maximum value at the universal input during the selected period	Maximum value at the universal input during the selected period	-
Minimum value within the period	Minimum value at the universal input during the selected period	Minimum value at the universal input during the selected period	-
Total value during the period	-	Total number of switchings of auxiliary equipment connected to the universal input for the selected period	Total number of switchings of auxiliary equipment connected to the universal input for the selected period

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Operating time, hour:min:sec	Time for the period, during which the value at the universal input was greater than the “Threshold value for switching-on”	-	Time for the period during which the auxiliary equipment connected to the universal input was switched on
Stopping time, hour:min:sec	Time for the period, during which the value at the universal input was less than the “Threshold value for switching-on”	-	Time for the period during which the auxiliary equipment connected to the universal input was switched off

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Operating time is greater than the allowed value	Time for the period, during which the value at the universal input was greater than the “Maximum allowed value”	-	Time for the period, during which the value at the universal input was greater than the “Maximum allowed value”
Operating time is less than the allowed value	Time for the period, during which the value at the universal input was less than the “Maximum allowed value”	-	Time for the period, during which the value at the universal input was less than the “Maximum allowed value”
Mileage with auxiliary equipment ON, km	Mileage during the time when the auxiliary equipment was ON	-	Mileage during the time when the auxiliary equipment was ON

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Consumption with auxiliary equipment ON, l	Fuel consumption during the time of auxiliary equipment operation		
Consumption with auxiliary equipment ON per hour of engine operation, l	Fuel consumption against engine operation and auxiliary equipment operation time		
Consumption with auxiliary equipment ON per 100 km, l	Consumption with auxiliary equipment ON per 100 km, l		
Mileage with auxiliary equipment ON per 1 l, km	Average mileage per 1 liter during the time of auxiliary equipment operation		
Areas treatment			
Parameter name	For one or several VH		
Treated area, ha	Treated area, ha = Mileage * Width of area of treated area		
Productivity, ha/hour	Productivity, ha/hour = Treated area/ number of motohours		

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Specific consumption, l/ha	Specific consumption = Actual consumption / Treated area		
Readings of meters from CAN-bus at the end of report period			
Parameter name	For one VH		
Odometer reading, km	Total mileage of the VH at the end of the selected period from the date of release of the VH. Accuracy: 0.1 km		
Reading of engine hours meter, hour:min	Total number of the VH engine hours at the end of the selected report period since the VH was released. Accuracy: 1 min		
Reading of fuel consumption meter, l	Total fuel volume consumed by VH as of the end of the selected period from the date of VH production. Accuracy: 1 l		
Readings of meters from CAN-bus before maintenance			
Parameter name	For one VH		
Mileage before maintenance, km	Mileage remained before maintenance. If the maintenance was missed, the “Mileage before maintenance” parameter takes a negative value Accuracy: 1 km		

Appendix. Calculation of the VH Operation Parameters

Movement and operation			
Parameter name	For one VH	For several VH	For one or several drivers
Engine hours before maintenance, h	Time of engine operation, remaining before the next maintenance. If the maintenance was missed, the “Engine hours before maintenance” parameter takes a negative value. Accuracy: 1 h		
The data from CAN during the report period			
Parameter name	For one VH		
Mileage, km	Total mileage of the VH during the report period. Accuracy: 0.1 km		
Engine hours, hour:min	Total number of the VH engine hours during the report period. Accuracy: 1 min		
Fuel consumption, l	Total volume of the fuel consumed by the VH during the report period. Accuracy: 0.1 l		

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