

FIOS 8

# FiOS Platform

FiOS product line is the ultimate solution for intelligent GPS tracking and fleet management. Companies from all over the world choose FiOS since it utilizes a powerful set of technologies to keep customers aware of the vehicles' whereabouts, condition, status and geographical location. As of 2016, there are more than 900 FiOS-compatible tracking devices, including personal trackers and AVLS. Additionally, your smartphone can function as a fully-featured GPS-tracker with special software installed.

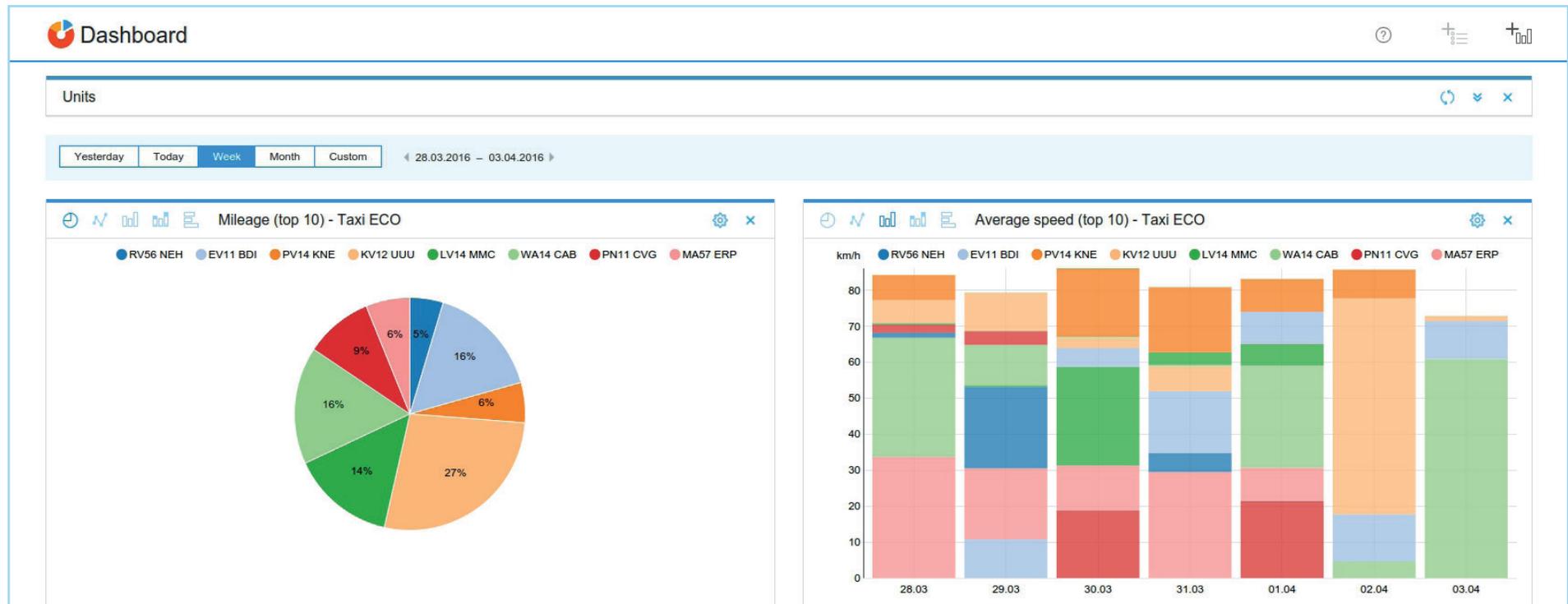


## System functionality:

- Fleet performance analysis
- Workforce performance analysis
- Precise location service
- Routing service
- Route optimization tools
- Route points visit control
- Security control
- Engine hours monitoring
- Address search
- Nearest units search
- Handy management system
- Fuel consumption, fillings and thefts accounting
- Eco Driving module for driver behavior analysis
- Temperature control
- CAN-bus data
- Doors opening detection
- Alarm button
- Remote engine shutdown
- Communication with drivers



# Dashboard



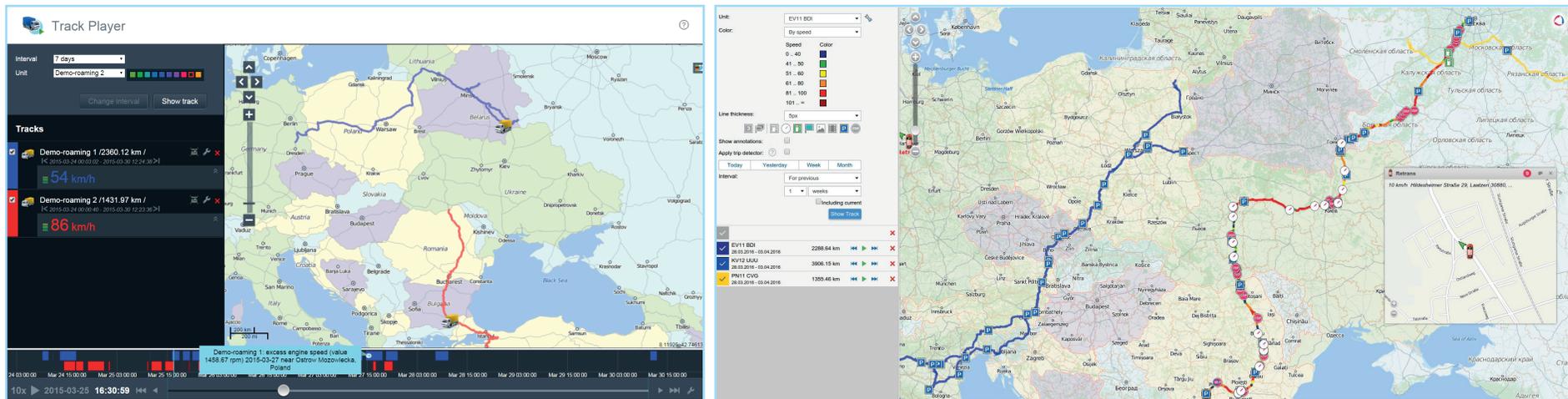
A perfect tool for business data analysis and visualization. Fleet performance analysis is based on data from such indicators as mileage, fuel consumption, engine hours, average and maximum speed, idling, geofences and driving time.

The app provides a possibility either to receive charts on the basis of any chosen parameter or carry out comparative analysis on the basis of two parameters.

Linear, circular or bar charts are available. Multicharts provide the insight into correlations between two different KPIs. It's possible to add any number of charts and change the order by dragging them to any place within the work area.

You can choose any number of units, a particular unit or a unit group for further analysis.

# Online Monitoring: Tracks and Minimaps



## Track Player application

Track Player allows to create multiple tracks and play them simultaneously.

- Get quick access to relevant data via event marker tooltips.
  - Observe units moving smoothly on the map
  - Convenient interface to navigate the timeline
  - Change playback speed.
  - Track values of various parameters and sensors.
- Track color depends on several parameters (speed, sensor values, etc.) and may vary.

# Online monitoring – instant notifications



The screenshot shows a window titled "Online Notifications" with two notification items. The first item, "Driver #1 Departure", is highlighted in green and states: "Driver #1 left customer Company B. At 2015-04-01 14:26:06 it moved with speed 86 km/h near 'A27, Nederland, 3.32 km from Almere-Hout'." The second item, "Driver\_with\_cargo Arriving", is highlighted in purple and states: "Driver\_with\_cargo arrived to Company A. At 2015-04-01 13:00:28 it moved with speed 64 km/h near '19, Białka, Radzyński, Poland'." At the bottom of the window, there are buttons for "Delete all" and "Delete read".

Receive notifications by email, SMS or in a popup window if a certain event occurs (e.g. a unit violates speed limit, an alarm button is pressed, sensor values have changed, connection is lost, idling is detected or a unit arrives at a control point).

Places where tevents/violations took place are marked on the map.

Notification text and time of the event/violation are displayed in a popup window.

No	Event time	Event text
1	2015-03-27 08:55:30	Blue_Twingo 7252 OK-7 (BCE_eco) returned to office at 2015-03-27 08:55:30.
2	2015-03-27 15:24:06	Blue_Twingo 7252 OK-7 (BCE_eco) returned to office at 2015-03-27 15:24:06.
3	2015-03-30 15:00:00	Maintenance service 'Oil change' was registered.
4	2015-03-31 09:40:00	Fuel filling of 45 lt to the amount of 54.45 was made.
5	2015-03-31 09:43:12	Blue_Twingo violated speed limitations. At 2015-03-31 09:43:12 it moved with speed 93 km/h near

# Online Monitoring - Mobile FiOS App

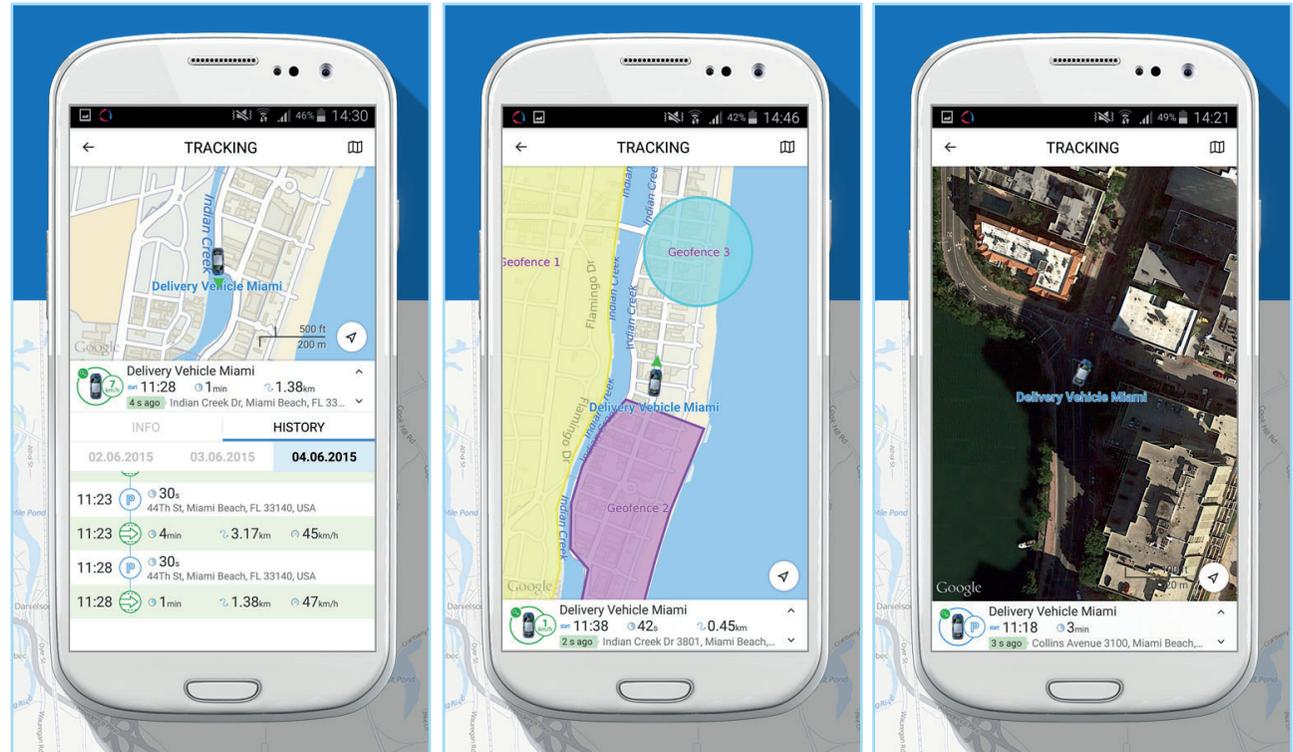
You will appreciate the adaptive design and convenient display of data on vehicles and stationary units, which contributes to the user-friendly and handy mobile interface.

Events catalogue provides you with a brief overview of all trips and stops with detailed track history available on each. Drag-and-drop menu helps to visualize vehicle data in a manageable and customizable manner. Once you've selected a unit, the map is scaled and centered to its location.

You can choose from a variety of cartographic services, including Google Maps, OpenStreetMap, HERE Maps, Bing Maps and Gurtam Maps proprietary GIS. For convenient use of FiOS Mobile App, the rapid switch from the menu to the

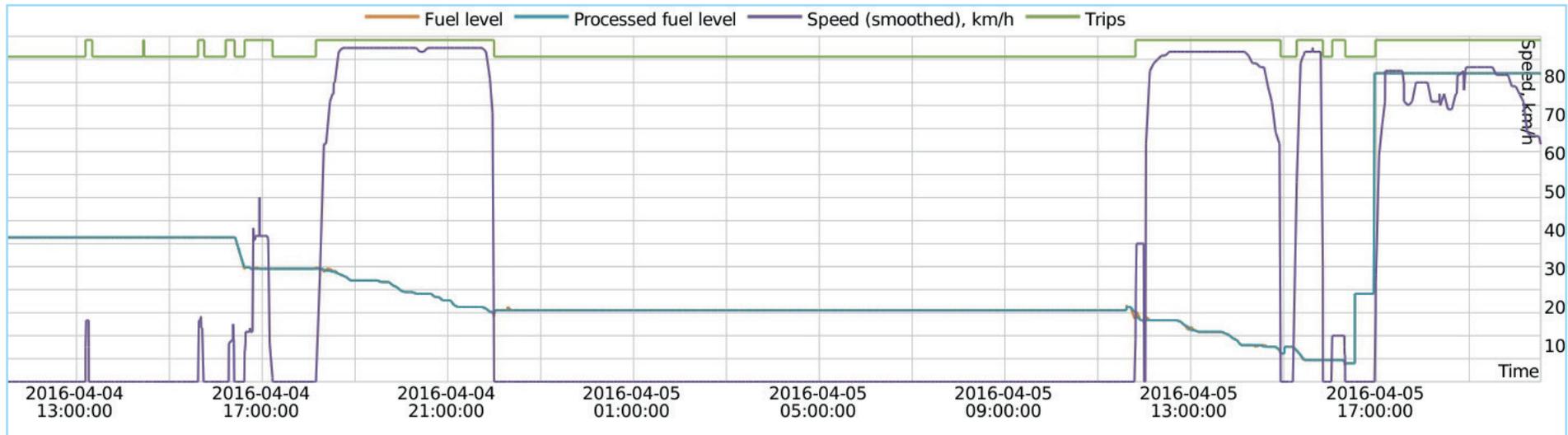
For advanced user experience with Mobile FiOS App, fast switch to Dashboard app has been implemented bringing the vehicle KPIs to your fingertips.

Mobile FiOS App is available to Android and iOS users.



# Fuel Consumption Control

FiOS Hosting users can track the history of fuel fillings over any period of time on the chart.



A click on a chart point lets you see the vehicle location and fuel level at the moment.

For the purpose of comprehensive analysis the system uses fuel level sensor readings or CAN data.

# Fuel Consumption Control

	Nº	Grouping	Time	Location	Initial fuel level	Stolen	Sensor name	Driver	Count	Notes
+	1	2016-04-04	21:49:20	Brugge, Belgium	364 lt	151 lt	CAN - FLS	testDR	6	----
+	2	2016-04-05	23:26:18	15K2001, 6.38 km from Paris	212 lt	194 lt	CAN - FLS	testDR	7	----

You can receive tabular reports on all fuel fillings and thefts (with date, precise time, unit location and initial fuel level value).

	Nº	Grouping	Time	Location	Initial fuel level	Filled	Registered	Difference	Sensor name	Driver	Count	Notes	Final fuel level
+	1	2016-04-05	16:56:34	66H1836, 11.29 km from London	90 lt	630 lt	0 lt	630 lt	CAN - FLS	testDR	2	----	720 lt
+	2	2016-04-06	00:20:58	Fleet Street, London	634 lt	32.40 lt	0 lt	32.40 lt	CAN - FLS	testDR	1	----	666 lt

Nº	Date	Mileage	Consumed by rates	Consumed by CAN	Avg consumption by CAN	-Savings/+Losses
1	2015-03-14	389.98	130.85 lt	137.00 lt	32.46 lt/100 km	6.15 lt
2	2015-03-15	503.32	149.82 lt	151.50 lt	31.35 lt/100 km	1.68 lt
3	2015-03-18	191.28	73.84 lt	45.50 lt	19.10 lt/100 km	-28.34 lt
4	2015-03-19	298.86	92.61 lt	88.00 lt	29.46 lt/100 km	-4.61 lt
5	2015-03-20	749.95	233.13 lt	189.50 lt	25.20 lt/100 km	-43.63 lt
6	2015-03-21	554.58	173.49 lt	163.50 lt	29.22 lt/100 km	-9.99 lt
7	2015-03-23	611.34	202.32 lt	176.00 lt	26.97 lt/100 km	-26.32 lt
----	----	<b>3299.32</b>	<b>1056.07 lt</b>	<b>951.00 lt</b>	<b>27.92 lt/100 km</b>	<b>-105.07 lt</b>

Using the reports, you can easily analyze fuel consumption over a given period of time and compare it to the standard fuel consumption rate. Statistics on each unit and the whole fleet is available.

# Mileage and Engine Hours

Nº	Unit	Road	Time in	Time out	Duration in	Mileage	Beltoll (euro)
1	Demo-roaming 1	Payment_M6	2014-10-01 12:56:34	2014-10-01 13:26:34	0:30:00	41 KM	7
2	Demo-roaming 1	Payment_M4	2014-10-03 06:28:20	2014-10-03 06:38:20	0:10:00	12.30 KM	1
3	Demo-roaming 1	Payment_M5	2014-10-03 06:33:20	2014-10-03 20:10:42	1:03:20	82 KM	12
4	Demo-roaming 2	Payment_M5	2014-09-30 05:40:44	2014-09-30 06:11:28	0:30:44	44 KM	7
5	Demo-roaming 2	Payment_M1	2014-10-01 08:34:24	2014-10-03 14:43:00	10:32:12	504 KM	77
6	Demo-roaming 3	Payment_M1	2014-09-29 00:37:20	2014-09-30 11:57:40	17:42:16	571 KM	89
7	Demo-roaming 3	Payment_M5	2014-10-03 23:46:30	2014-10-04 00:17:46	0:31:16	40 KM	7
8	Demo-roaming 4	Payment_M5	2014-09-29 00:02:48	2014-09-29 00:14:32	0:11:44	17.00 KM	3
9	Demo-roaming 4	Payment_M1	2014-09-29 21:28:26	2014-09-29 22:58:46	1:30:20	122 KM	20
10	Demo-roaming 5	Payment_M6	2014-10-04 06:54:10	2014-10-04 07:29:10	0:35:00	44 KM	7
11	Demo-roaming 5	Payment_M2	2014-10-04 07:55:44	2014-10-04 08:19:46	0:24:02	28 KM	4
12	Demo-roaming 6	Payment_M1	2014-10-04 16:34:00	2014-10-05 05:44:42	13:10:42	127 KM	20
-----	-----	-----	2014-09-29 00:02:48	2014-10-05 05:44:42	46:51:36	1633 KM	255

Grouping	Area	Time in	Time out	Duration in	Mileage	Total time
Camión	232.31 ha	2016-04-04 00:28:44	2016-04-06 14:59:52	5:12:01	265.12 km	2 days 14:31:08
Citroen C1-Tom	232.31 ha	2016-04-04 00:04:07	2016-04-06 15:08:52	13:29:32	430.98 km	2 days 15:04:45
Frimen's Bentley Azure	232.31 ha	2016-04-04 00:14:24	2016-04-06 14:56:24	1:58:01	0.00 km	2 days 14:42:00
Honda Civic	232.31 ha	2016-04-04 00:17:51	2016-04-06 14:46:16	0:34:48	9.27 km	2 days 14:28:25

# Utilization Cost

Time	Registration time	Expense item	Description	Location	Cost
2016-04-25 20:04:00	2016-04-27 20:05:51	Maintenance	Fuel filling	Germany, Paul-Schneider-Straße, Gispersleben 99091, Erfurt	75.00
2016-04-27 19:55:00	2016-04-27 19:57:12	Maintenance	Oil/filters	Germany, Goldbach 14, Mitte 33615, Bielefeld	100.00
2016-04-27 19:57:00	2016-04-27 19:57:57	Filling	Fuel filling of 100 lt	Germany, Terminal-Ring, Lohausen 40474, Düsseldorf	120.00
2016-04-28 10:30:00	2016-04-28 10:31:52	Maintenance	Belt replacement	Rhein-Höhenweg, Neuwied 56566, Germany	50.00

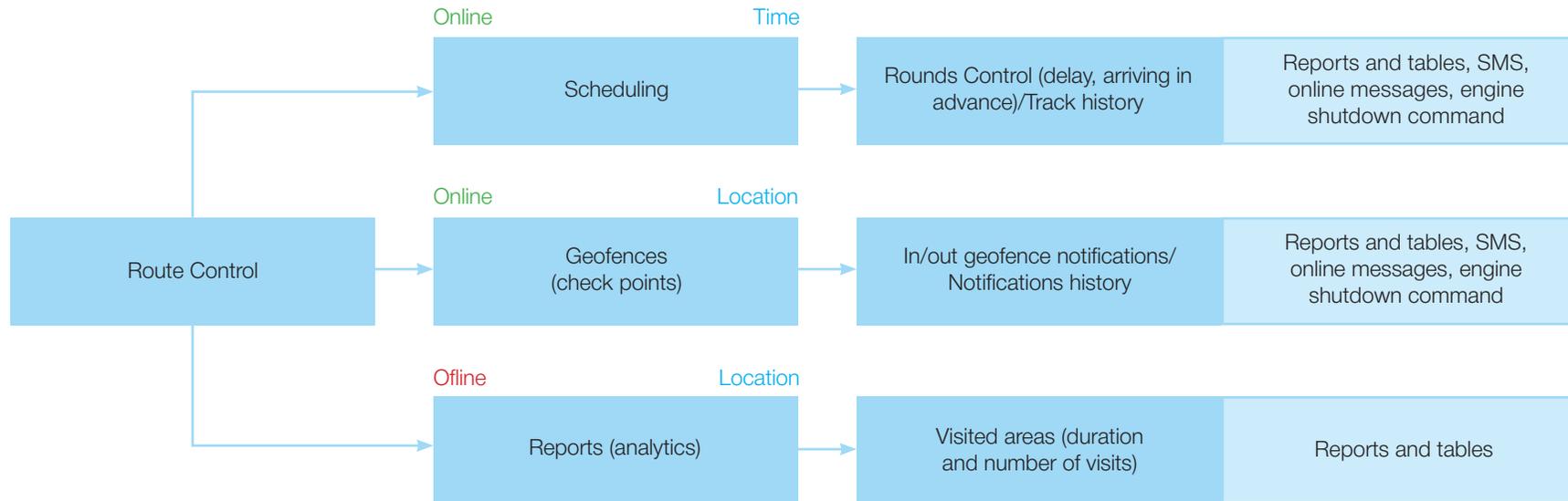
The following columns can be included in the table:

- Time of service and fuel filling
- Time of event registration
- Service/Fuel fillings costs
- Description (added upon event registration)
- Location (added upon event registration)
- Quantity (fuel fillings and service sessions)
- Notes (an empty tab where you can add comments)



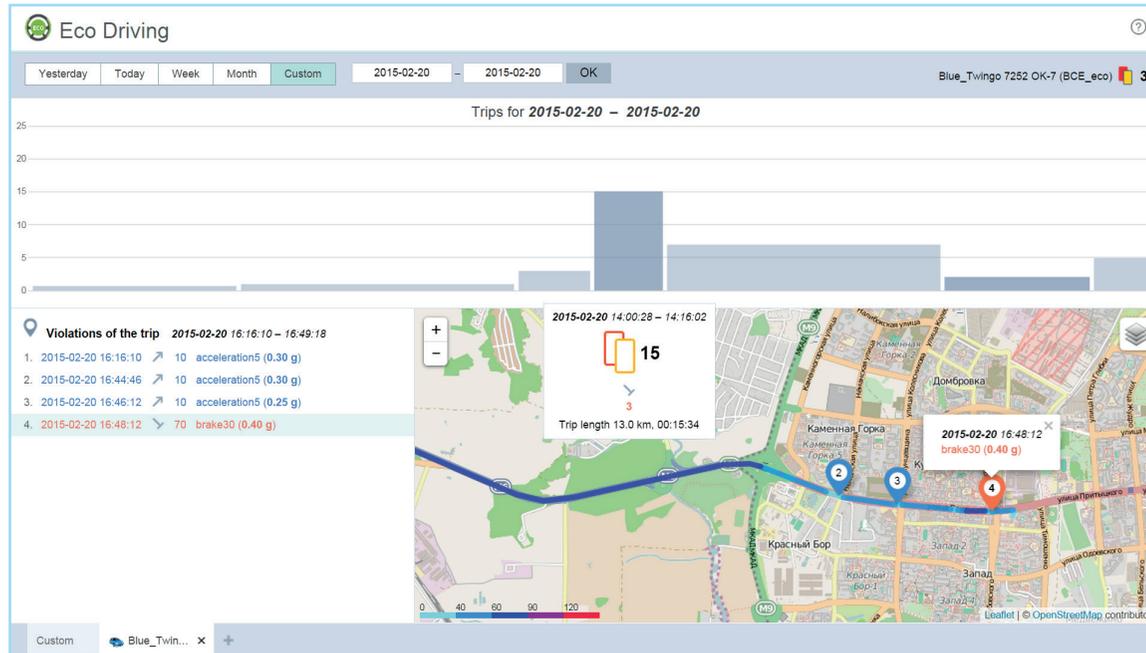
# Route Control

Enjoy the ultimate routing service with FiOS:



FiOS users can receive notifications when a unit enters or leaves a certain geofence. Notifications can be sent via email or SMS. Notifications can also be registered in the system and shown in reports or pop-up windows.

# Driver Behavior Monitoring



Eco Driving module is a tool intended to improve fleet safety, ensure cost-effective fleet maintenance, reduce fuel costs and enhance cargo safety.

Eco Driving module has a range of configuration tools to build a comprehensive and flexible driving quality assessment model and leverage data from hardware accelerometers.

The assessment model depends on the violation criteria and coefficients that can be set for each vehicle individually. It uses penalty scoring system with a special algorithm of penalty points calculation. Each violation adds penalty points that may be used as a basis for driver ranking. The less penalty points you get, the higher is the rank and, therefore, the quality of driving.

Penalty points are calculated for each trip, and can then be summed up or averaged out according to time or distance travelled.

There are 6 criteria to be used as a basis for violations:

- Acceleration
- Braking
- Cornering/Turn
- Speeding
- Reckless driving
- Custom

Eco Driving by Kloudip provides a detailed presentation of driving quality for each vehicle in a fleet in a user-friendly visual format. You get access to the details on violations and tracks on the map, which reflects specific points where those violations took place.

# Advanced Report Building Capabilities

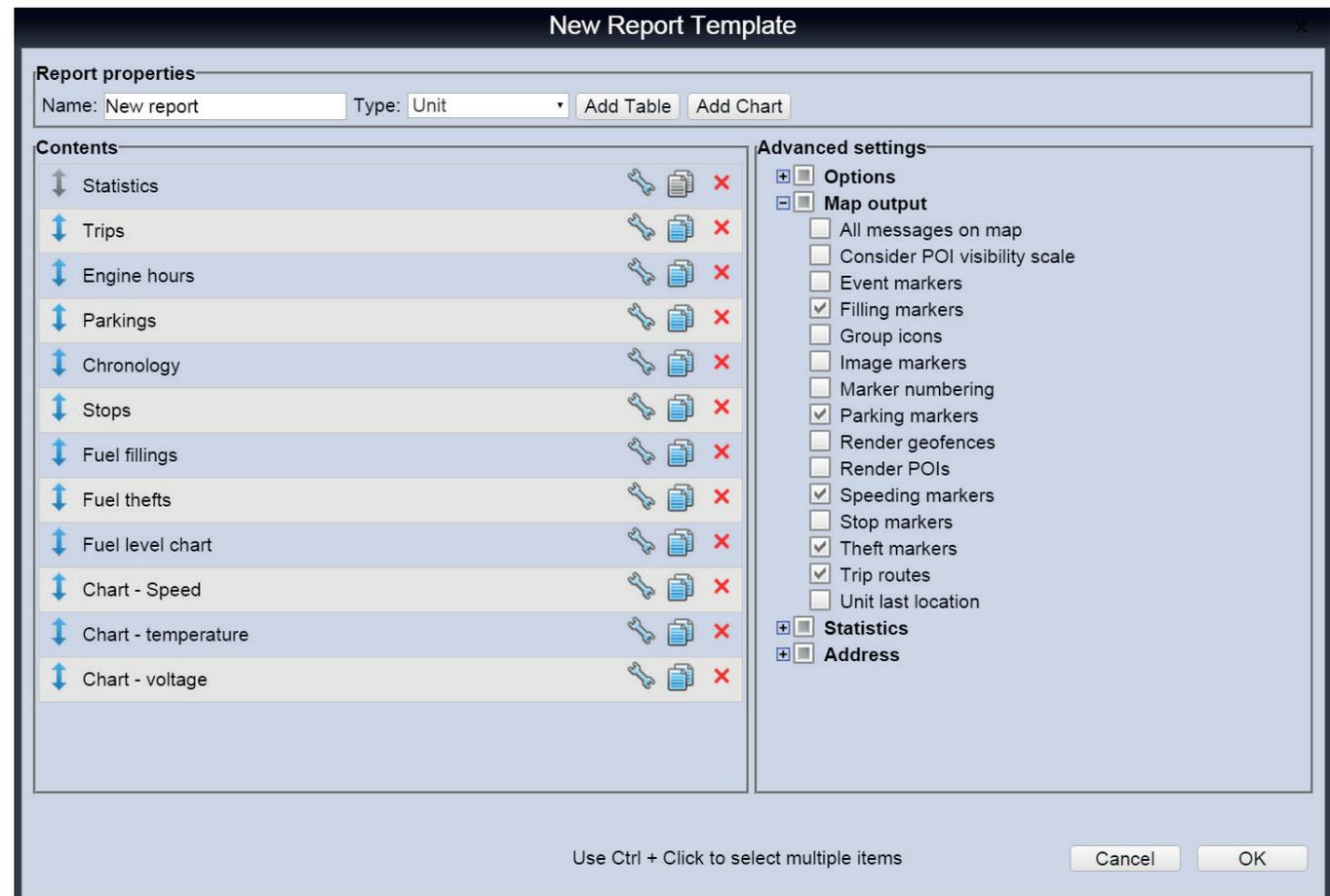
Report system brings up information as tables and charts. You can adjust table content, tabs and sections order, visualization peculiarities and other parameters.

## Take advantage of basic functionality:

- Add as many charts and tables as you want.
- Present any parameter according to your needs.
- Choose and receive relevant data.
- Rename tables and charts.
- Arrange and manage sections the way you need.

## And make use of the advanced functions:

- Build group reports.
- Upload data into HTML, Excel and PDF files.
- Perform quick printing.



# Probe

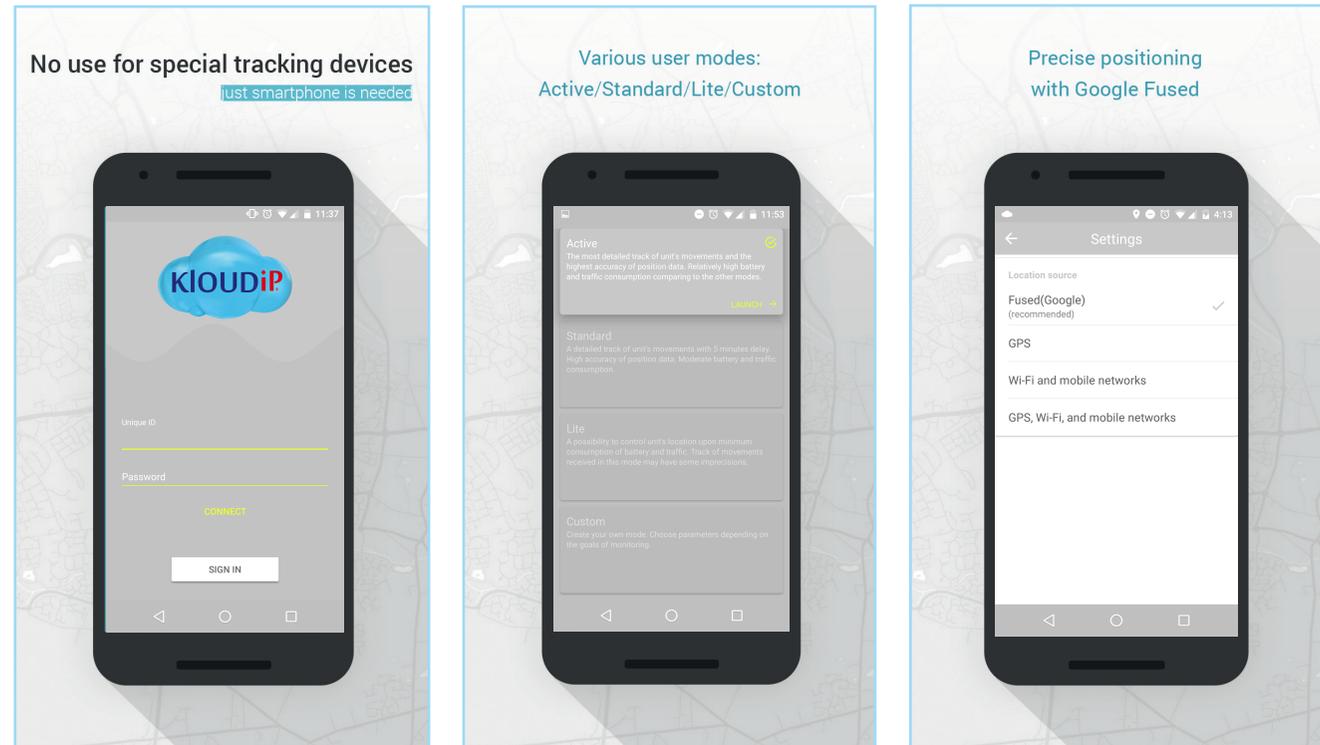
## Probe Mobile Application

Probe is an effective and easy-to-use app turning your device into a personal GPS tracker. You don't need to search for a separate device anymore — just use your Android- or iOS-based smartphone, tablet or other mobile device instead.

Server connection only requires a unit in FiOS system and Internet connection for first-time authorization. Probe allows for highly accurate location detection through using Google Fused. It also provides an opportunity to send pictures, alarms and text messages at a click with remote application management also available.

The app offers extended pre-setting capabilities, including flexible motion detection, data collection and location detection settings for prolonged battery life with high quality of tracks preserved.

Getting started is easy: create a unit in FiOS system, install the app on your smartphone and enter unique ID of the unit. Try it now to make sure that with Probe you get the best!



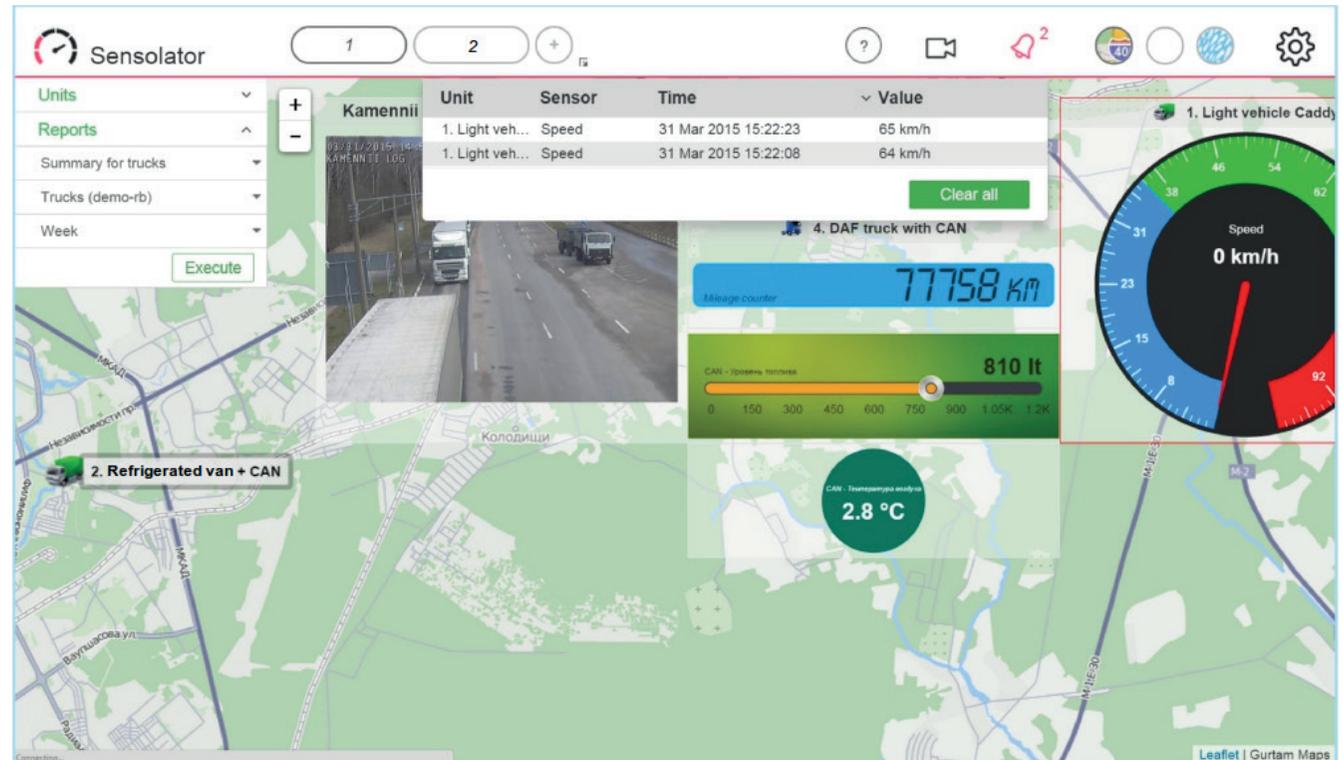
# Sensolator

Sensolator application constitutes a convenient control panel to monitor any number of sensors at a visual interface. The app is designed to monitor the performance of all the necessary sensors from one to any number of units tracked.

You can view and control all the parameters while the number of displayed sensors is unlimited.

Sensolator has a fully customizable interface that enables real-time assets management, simultaneously having access to different parameters and key performance indicators of stationary and mobile units. It also responds to the device faults via online alarms, SMS and email notifications.

The application ensures real-time monitoring of counters/sensors performance and identification of sensor values variations over a certain period of time ('Today', 'Yesterday', 'Week').



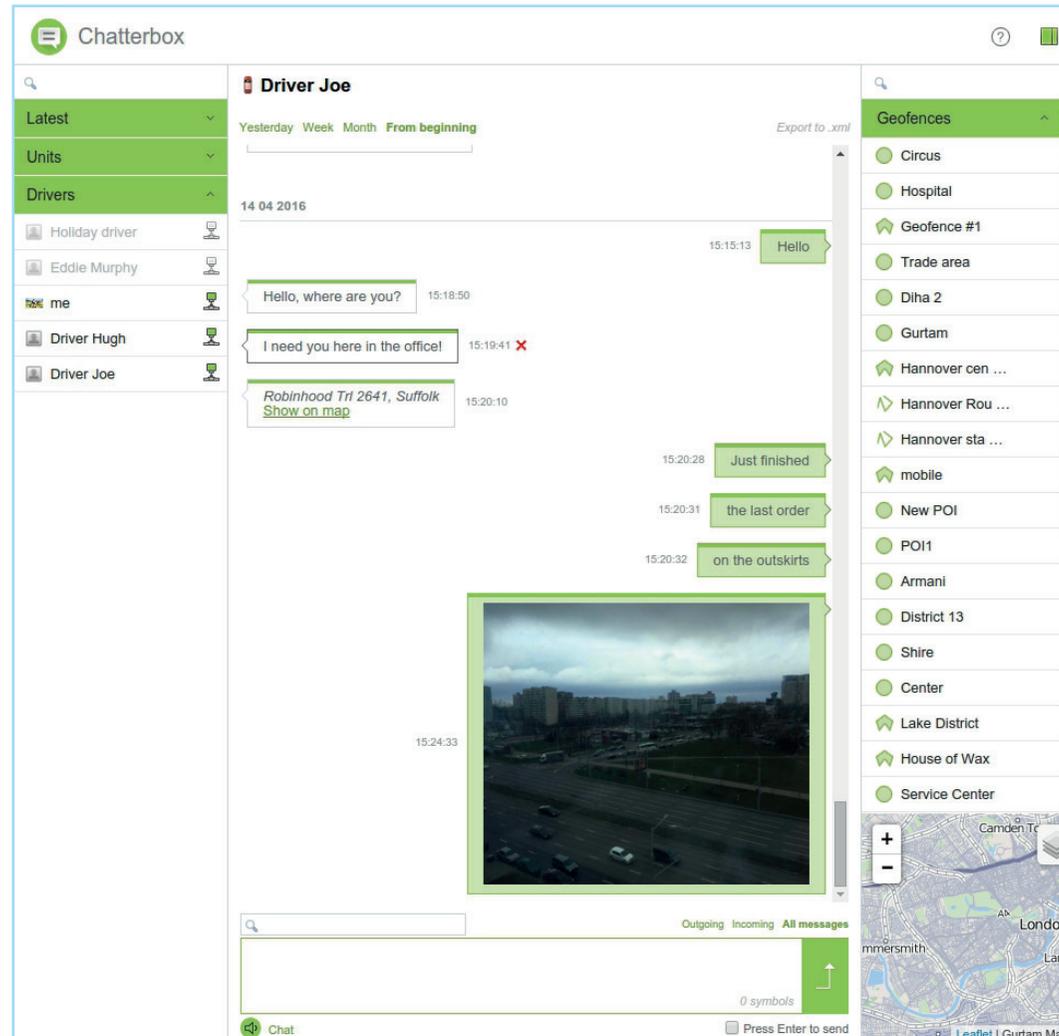
The screenshot shows the Sensolator application interface with a table of statistics. The table has the following columns: No, Date, Beginning, End, Engine hours, In movement, Idling, Movement productivity, and Utilization. The data is as follows:

No	Date	Beginning	End	Engine hours	In movement	Idling	Movement productivity	Utilization
1	2015-03-02	06:50:02	19:43:26	9:25:28	6:43:00	2:42:28	71.3 %	104.7 %
2	2015-03-03	06:46:10	14:43:52	6:34:36	4:38:28	1:56:08	70.6 %	73.1 %
3	2015-03-04	06:44:26	18:08:14	9:01:34	6:45:24	2:16:10	74.9 %	100.3 %
4	2015-03-05	05:27:02	15:43:04	8:32:46	6:25:04	2:07:42	75.1 %	95.0 %
5	2015-03-06	06:44:02	17:56:58	9:45:34	7:22:44	2:22:50	75.6 %	108.4 %

# Chatterbox

Chatterbox application allows you not only to communicate with a driver, but also to control a vehicle by sending commands. Chatterbox enables communication between a dispatcher and a monitoring unit unit via Internet (TCP-, UDP-connection) or SMS.

Dispatchers can send either any address on the map or addresses of already existing geofences to drivers. Moreover Chatterbox allows to exchange images, photos, routes and coordinates. The app stores message history, so at any moment you can find the relevant messages by choosing necessary time intervals.

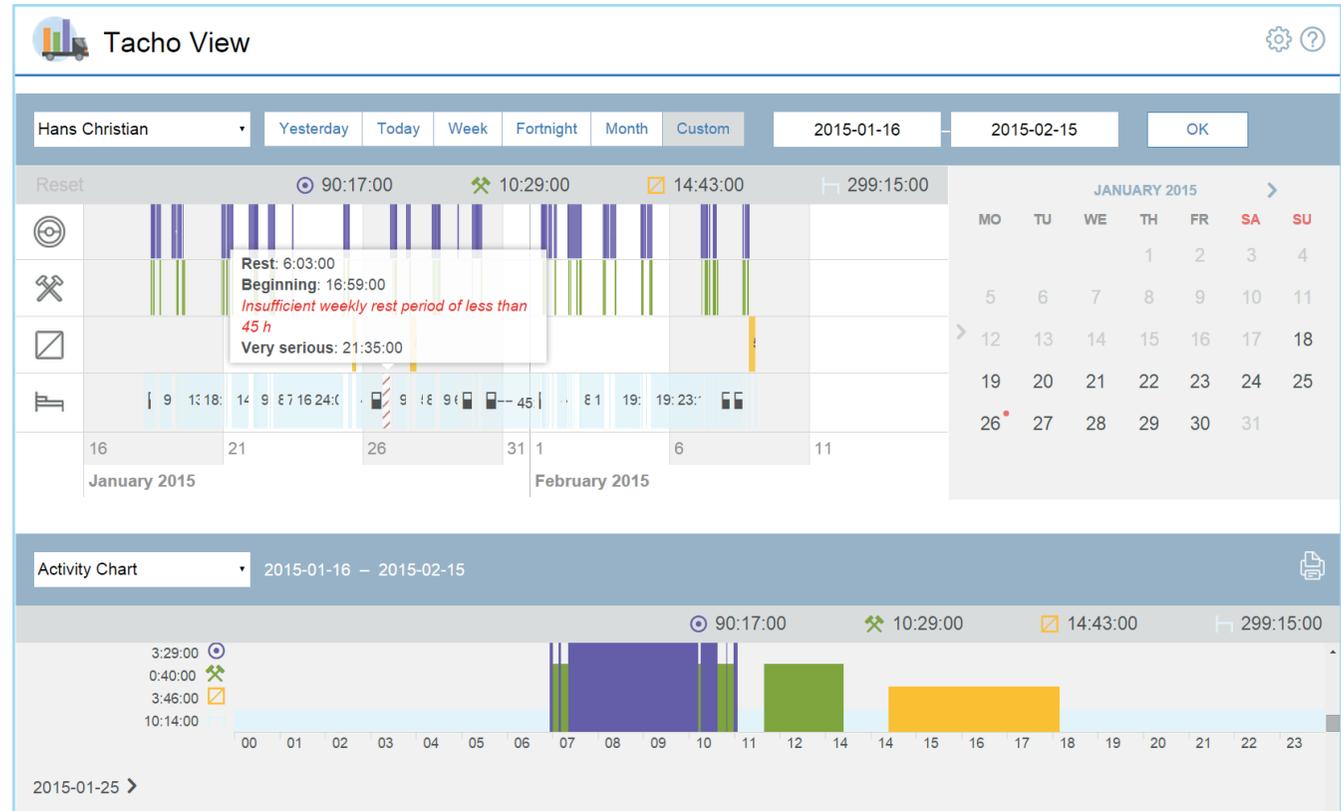


# Tacho View

DDD-files handling in FiOS system is performed by means of TachoView application. The app allows for driver activity visualization on the basis of so-called “timeline”. TachoView demonstrates driving, work, rest and availability time intervals. Quick access to a specified day from the selected interval is available in calendar.

The entries are assessed in the following manner:

- “Driver activity”. The information is displayed in a tabular form. By choosing the necessary date you can see detailed driver activity over a specified period.
- “Activity chart”. The selected time period is divided into days where the information is displayed in diagrams with markers correlating with certain activity characteristics.



The results of driver behavior analysis based on DDD-files and online data may be presented as a report and printed right from the app.

# Tacho Manager

Tacho Manager is developed for manual or automatic (command-triggered) DDD-files uploading to FIOS server and their long-time storage.

Handy data visualization allows for simple monitoring of driver activity due to availability of precise driver information.

Use activity chart to get a quick view on driver activity intervals distinguished by perceptible color marking.

Automatic DDD-files downloading is now available for several tachograph and GPS terminal conjunctions.

The screenshot displays the Tacho Manager web interface. At the top, there is a header with the Tacho Manager logo and an 'Upload file' button. Below the header, there are navigation tabs for 'Yesterday', 'Today', 'Week', 'Month', and 'Custom'. A 'Reset' button is also visible. The main content area is divided into two sections. On the left, there is a 'Driver' list with a dropdown arrow, showing several drivers: Hans Christian, Hugo Daniel, Undefined, Кока-Кола, Кока-Кола, and тестовый водитель. On the right, there is an 'Activity span' table. A modal window is open over the 'Hans Christian' driver, showing a profile picture, the driver card number '00000000060250', and a calendar view for the years 2014 and 2015. The calendar shows activity spans for various dates, with some dates highlighted in green. The activity span table in the background contains the following data:

File name	Activity span	
00000000060250_137669760...	2013-08-17 03:00:10 2015-02-09 01:18:10	
RUD00000000048_139...	2015-04-06 14:42:00	1 year ago, 2014-02-03 13:00:10
RUD00000000021_139...	2015-03-30 16:47:45	5 months ago, 2014-10-18 10:20:10

# Guaranteed Cost Reduction



## Features to advance your business:

- Online tracking.
- Fuel consumption control.
- Service log maintenance.
- Mileage account.
- Route control.
- Driver behavior monitoring.





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