

winlon

The ultimate platform
for GPS tracking and IoT

SYSTEM OVERVIEW



gurtam.com

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WIALON: THE ULTIMATE PLATFORM FOR GPS TRACKING AND IOT



Wialon: platform for intelligent GPS tracking and fleet management

Companies in **150+ countries** choose Wialon to track **3.3 million assets** worldwide. You can instantly start offering your services because the system works with almost any type of AVL hardware, personal, asset trackers, and various MDVRs. The universal platform goes beyond simple monitoring and allows you to make use of industry-specific functionality, integrate with third-party software, and not just that.

Wialon promotes advanced security, ensures precise location detection and total visibility into the fleet performance through real-time tracking, powerful analytics, alert and notification system allowing for early response to any emergencies.



Wialon: platform for intelligent GPS tracking and fleet management

SCOPE OF APPLICATION

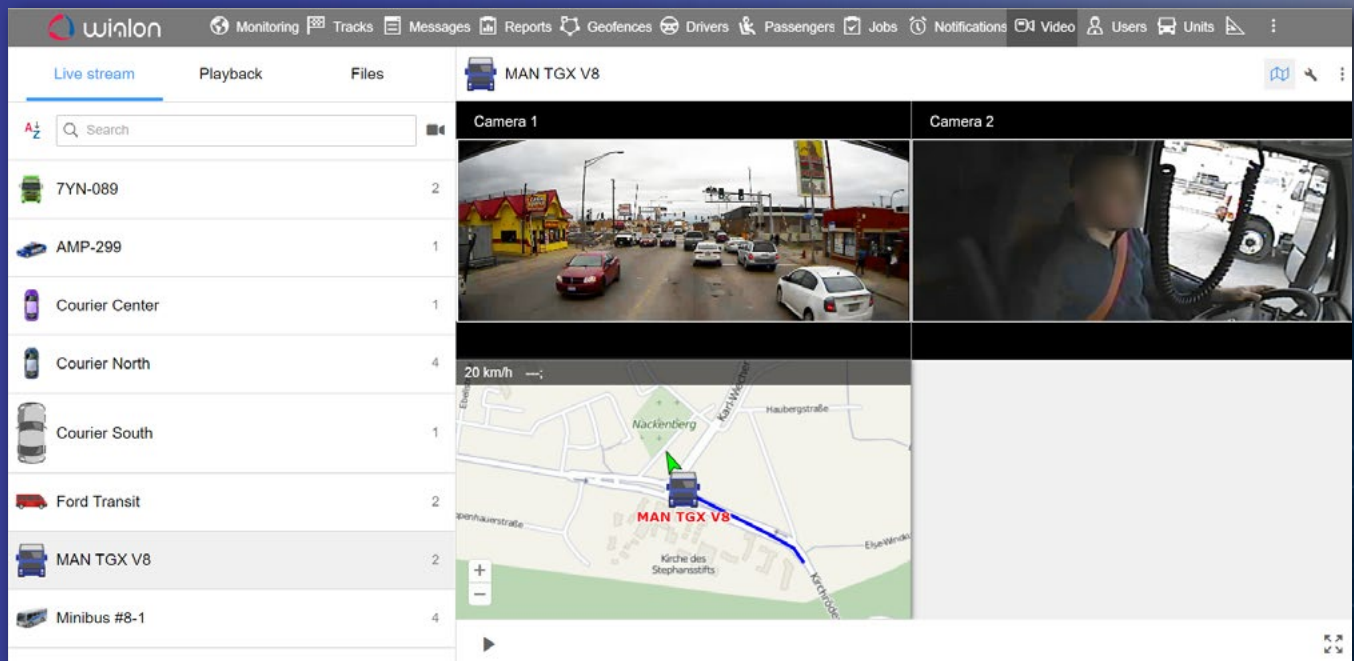
- ♦ Long-haul transportation
- ♦ Passenger transportation
- ♦ Local deliveries
- ♦ Construction
- ♦ Smart farming
- ♦ Personal monitoring
- ♦ Public utilities
- ♦ Safety and security
- ♦ Animal tracking

SYSTEM FUNCTIONALITY

- ♦ GPS/LBS location detection
- ♦ Alert and notification system
- ♦ In/out geofence control
- ♦ Real-time monitoring
- ♦ Remote engine blocking
- ♦ Fuel consumption/fillings/thefts
- ♦ Video telematics solution
- ♦ CAN bus data reading
- ♦ Route optimization/management
- ♦ Flexible report-building tools
- ♦ Data capture from sensors, counters, RFID readers, etc.



VIDEO TELEMATICS: REAL-TIME AND EVENT-BASED



WIALON BRINGS TOGETHER GPS TRACKING AND VIDEO TELEMATICS IN ONE PLATFORM

Feature-rich Wialon system, combined with video functionality, allows you to watch the vehicles and events on the way with your own eyes.

Accurate, unbiased video records enable precise incident analysis, which in the end leads to reduced accident rates, improved road safety, and enhanced smart insurance practices.

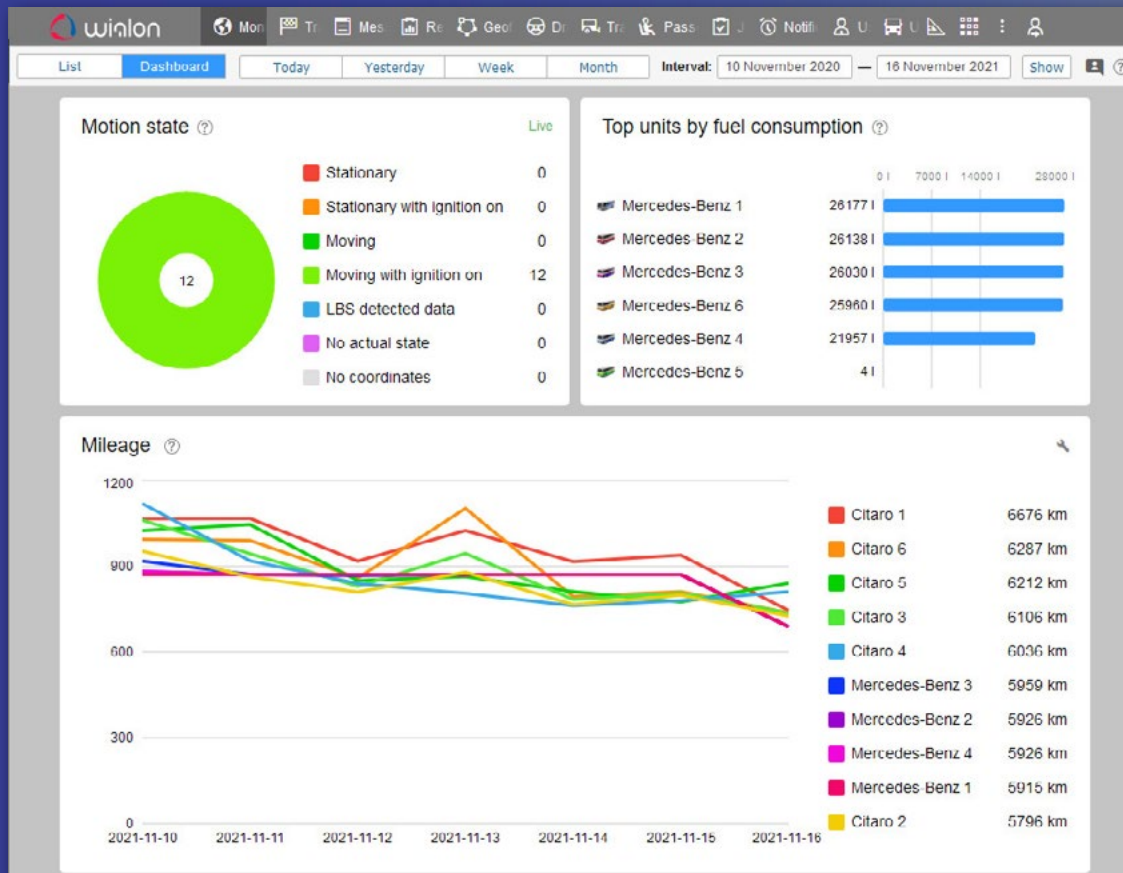
FEATURES:

- ♦ Video playback and livestream
- ♦ View accident videos right from the reports
- ♦ Easy setup and configuration
- ♦ Automatic and manual saving of video files
- ♦ A complete toolset for work with video streaming and video files
- ♦ Several playbacks on a single screen

The Wialon video module is a flexible and easy-to-use tool that is:

- ♦ integrated with CMSv6
- ♦ compatible with all popular MDVRs on the market
- ♦ adapted for video monitoring on mobile devices
- ♦ notable for a transparent billing pattern

DASHBOARD: A PERFECT TOOL FOR DATA ANALYSIS AND VISUALIZATION



Dashboard: a perfect tool for data analysis and visualization

Wialon offers Dashboard – a universal tool for quick and easy data at hand for day-to-day fleet control and analysis.

Fleet performance evaluation is based on mileage, fuel consumption, engine hours, and other indicators.

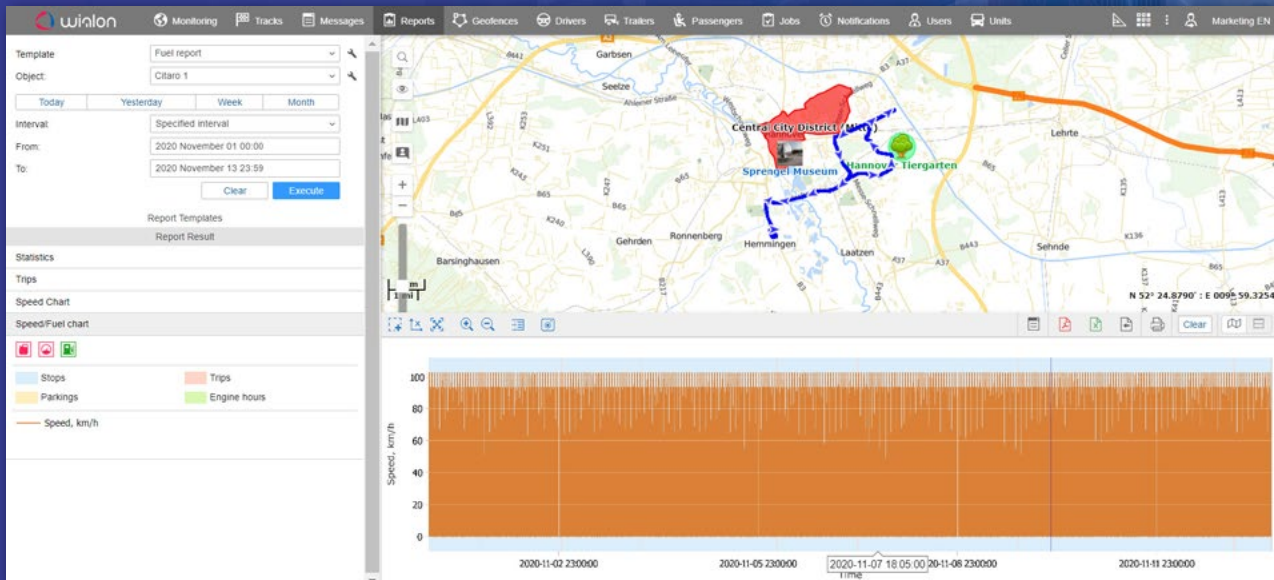
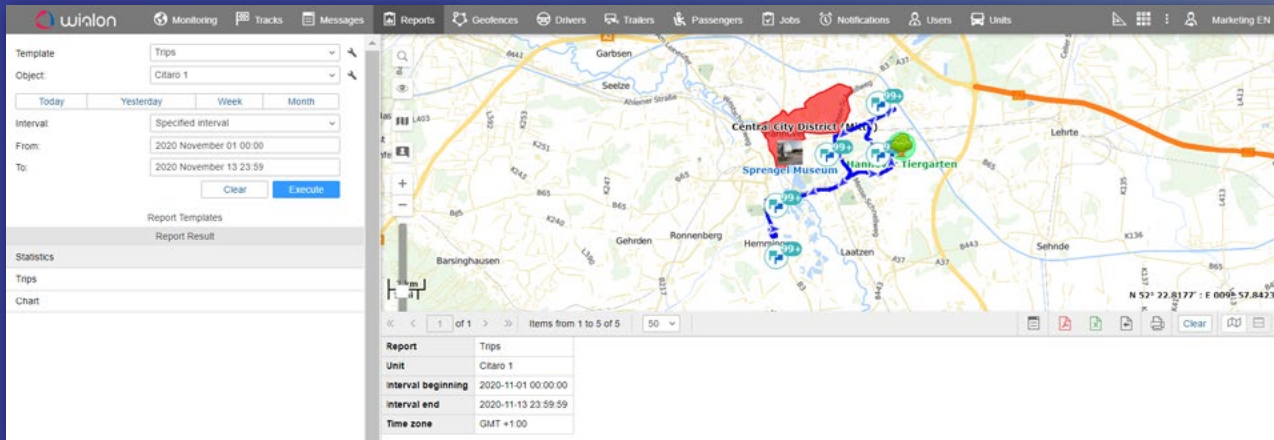
Browse through the vivid information blocks displaying data on:

- ♦ connection state
- ♦ motion state
- ♦ top units by fuel consumption
- ♦ top units by mileage
- ♦ geofences
- ♦ mileage
- ♦ notifications
- ♦ fuel consumed by FLS
- ♦ speedings

Configure and fine-tune the blocks to display only the data you need right now, choosing the units, types of blocks, and time periods you'd like to analyze the info for.

No matter how diverse and complicated the data is, Dashboard makes it simple and perceptible both for novice and experienced users.

ADVANCED REPORTS: POWERFUL ANALYTICS IN WIALON



Advanced reports: powerful analytics in Wialon

Reports are used to analyze and present information on the vehicle activity in handy tables and charts. The system allows creating flexible report templates, viewing reports in a browser, exporting them to files in various formats, and sending by email.

- ♦ **Report queries**

Study reports online, get scheduled and event-based reports or execute them in one click from the monitoring panel

- ♦ **Handy data management**

Use multi-level grouping, sorting, detalization mode, interval filtration, and time limitations for data display

- ♦ **Informative charts**

Study charts with auto-scaling, zoom, single/multiple axes view, message points tracing; add backgrounds, event markers, and different line colors

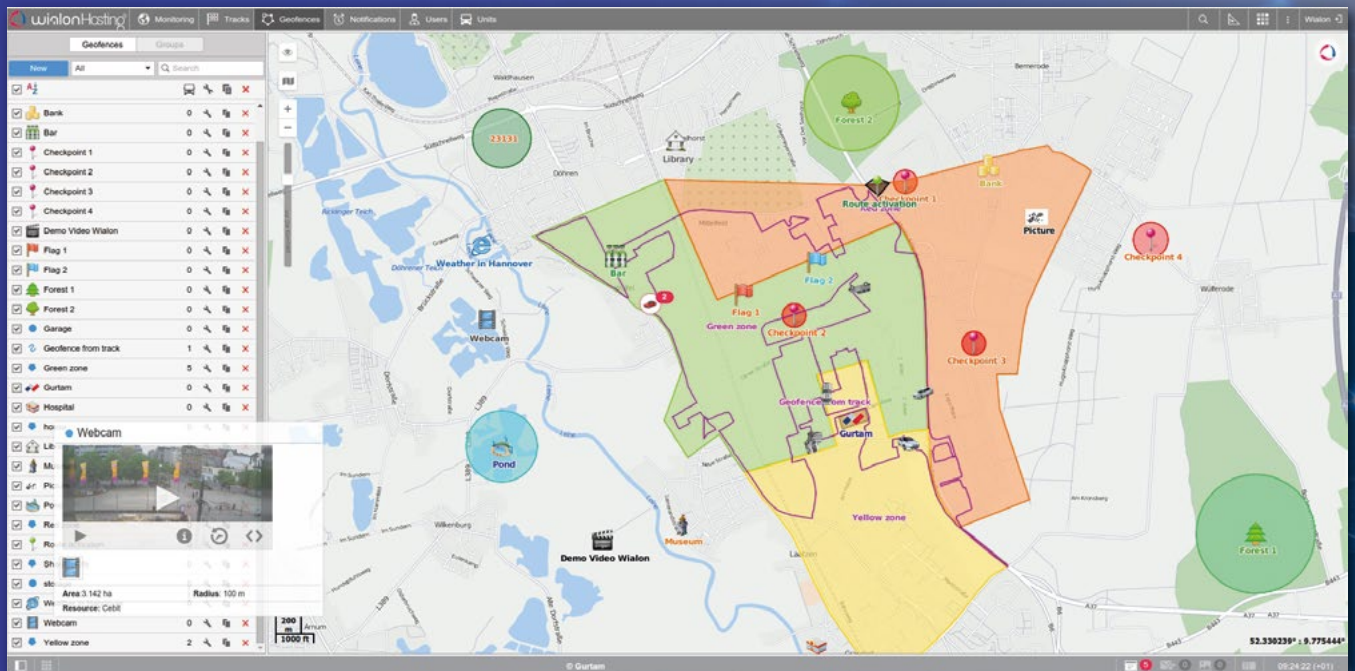
- ♦ **Mapping options**

Take advantage of a scalable map featuring event markers, geofences, units, and tracks with the option to attach it to a report

- ♦ **Extended information**

Complement reports with precise addresses, statistics, and data on 300+ monitoring parameters

GEOFENCES AND NOTIFICATIONS: CONTROL EVERY ASPECT OF VEHICLE PERFORMANCE IN/OUTSIDE THE SPECIFIED AREA



1. GEOFENCES

Create any number of geofences of various shapes, colors, and sizes to restrict vehicle movements, prevent its thefts, and control its activities within a specified area.

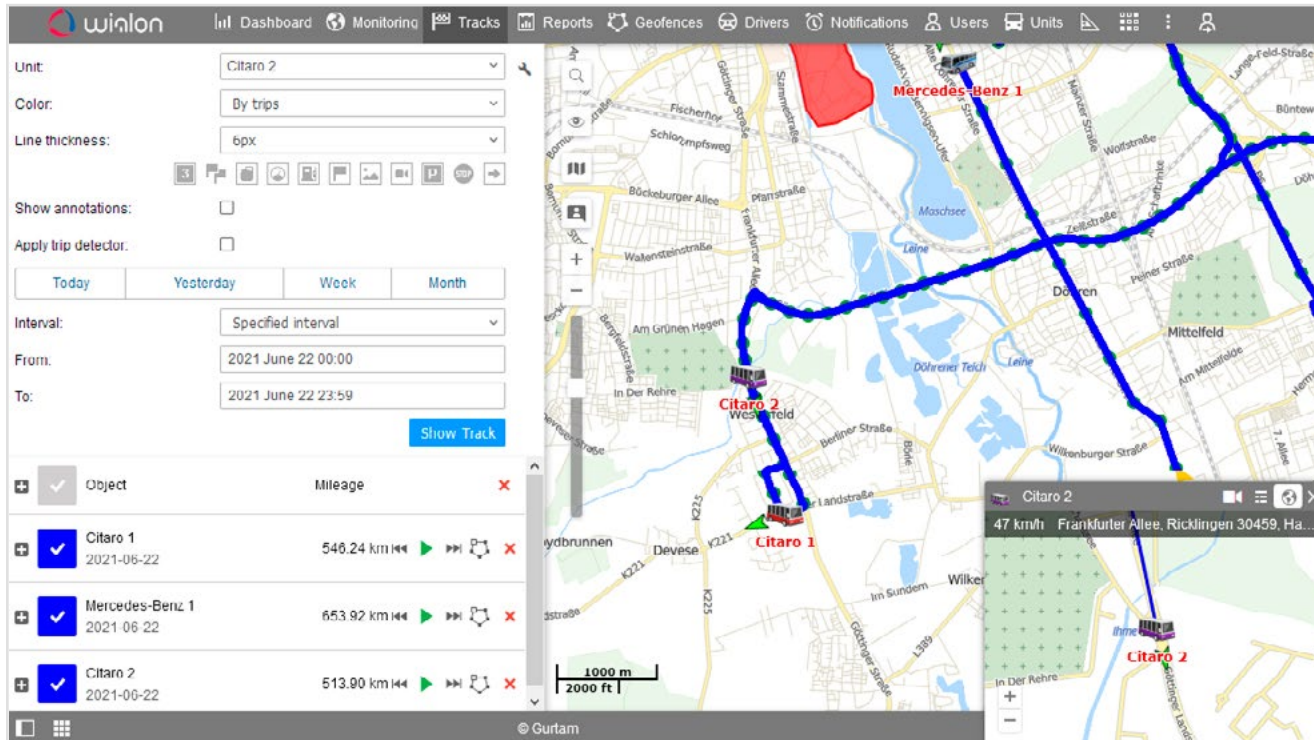
- ♦ **Control** vehicle performance inside or outside geofences, including speed limit violations, sensor value variations, and access to vehicles
- ♦ **Use** geofences as addresses in reports and tooltips whenever precise address information is missing or control route performance by using geofences as checkpoints
- ♦ **Benefit** from dynamically updated images, screenshots, and other information bound to geofences
- ♦ **Be notified** on any events taking place within geofences

2. NOTIFICATIONS

Receive email, SMS or pop-up notifications if a certain event occurs (e.g. violations, alarm button activation, sensor value variations, connection loss, idling, etc.).

- ♦ **Use** the information from notifications to trigger certain processes in the system, for instance, sending messages to a driver, executing a command, emailing reports
- ♦ **Inform** about the vehicle activity via adjusting online notifications
- ♦ **Notify** the manager/dispatcher/fleet owner by email, SMS, Telegram
- ♦ **Enable** web push notifications to view a notification from any tab of browser, or when the browser is minimized

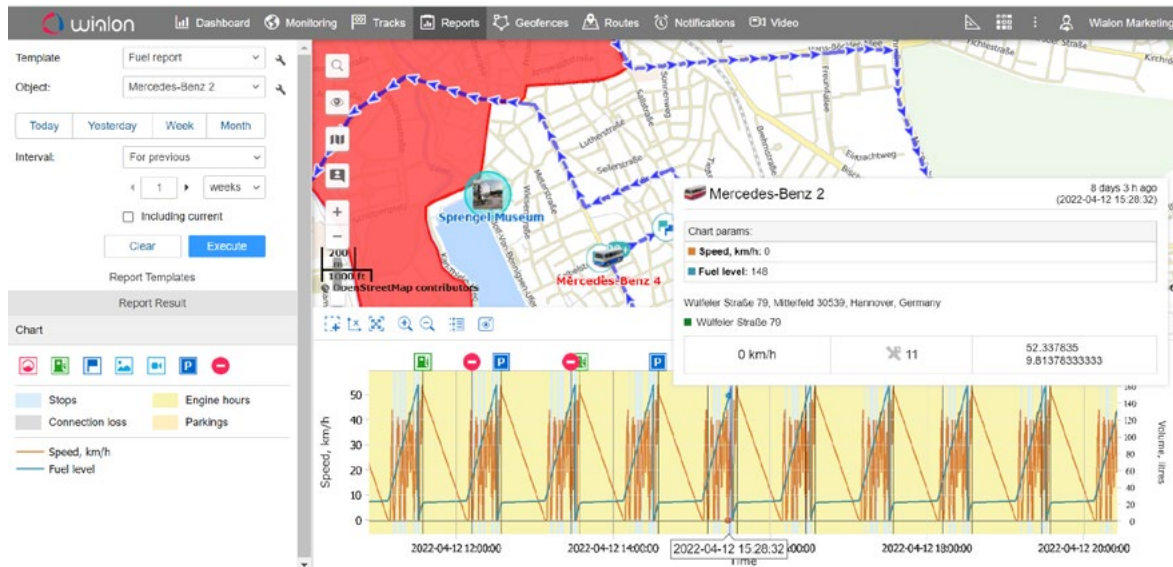
Tracks and minimaps: extended information on units and routes



Tracks: create tracks to display movement history on the map and get quick access to the vehicle activity data via event markers. Track Player app makes it easier to simultaneously work with several units on the map, analyze tracks and timeline events in a handy interface.

Minimaps: use minimaps to instantly access extended vehicle information, current location, speed, and address or follow units with Google Street View.

Fuel consumption control: fillings and thefts detection



Detect any type of fuel misuse and control the whole cycle of fuel distribution from filling stations to vehicles and machinery.

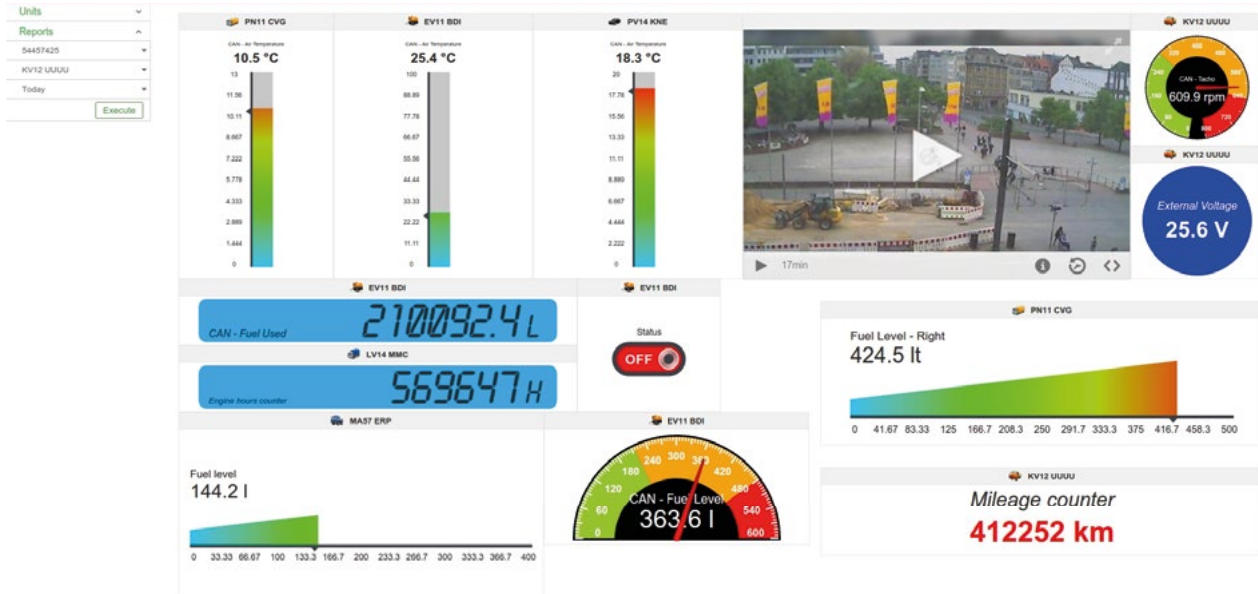
FLS data. Analyze fuel consumption depending on a fuel level in the tank at different time points.

CAN bus data readings. Tap into fuel parameters received via CAN bus of a vehicle.

Fuel consumption by math. Use engine operation and efficiency sensors as coefficients for fuel consumption rates.

The proprietary fuel management system. Detect fuel thefts in the most complicated cases, including underfillings, fuel card frauds, insufficient driving, siphoning, and much more.

Control panel for sensor performance monitoring



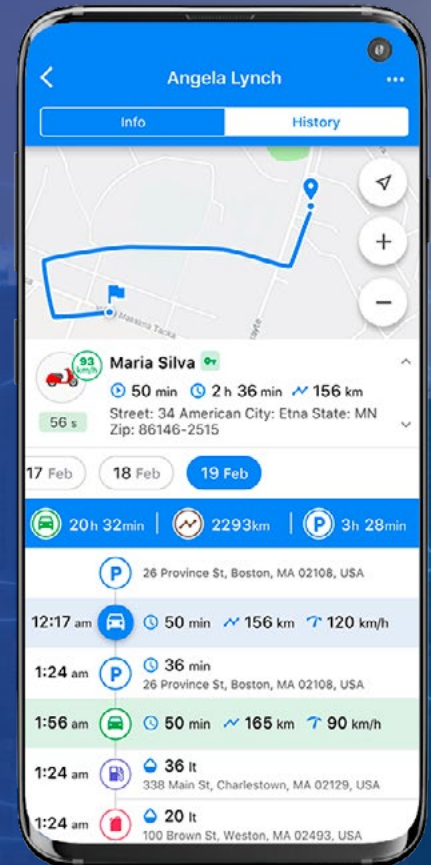
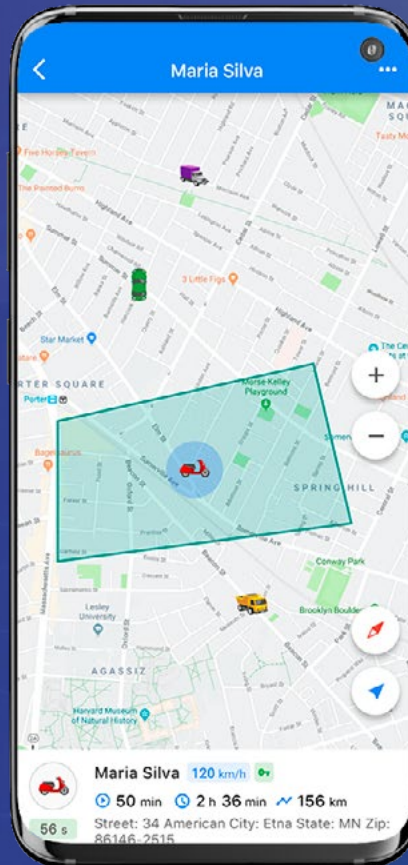
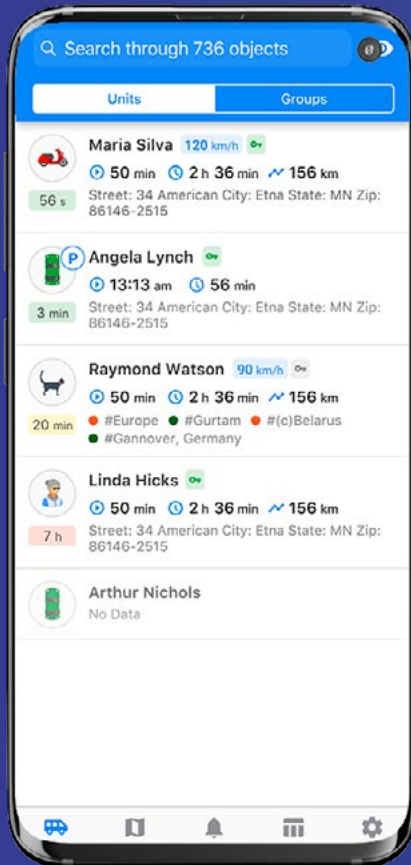
This tool comes in handy for controlling dozens of parameters of diesel generators, cooling and freezing chambers, and other stationary assets. The panel is used to visualize values of counters and sensors from any number of assets. Use it both for online monitoring and performance analysis based on historical data.

- ◆ Fully customizable interface for real-time asset management
- ◆ Drag-and-drop feature to reorganize dashboard
- ◆ Online alarms, SMS, and email notifications to respond to device failure
- ◆ Video streaming from the specified URL
- ◆ Report generation from flexible templates
- ◆ Command-sending capabilities
- ◆ Multiple ways to customize counter and sensor visualization

WIALON MOBILE APP AND INDUSTRY-SPECIFIC FUNCTIONALITY



WIALON APP FOR IOS AND ANDROID



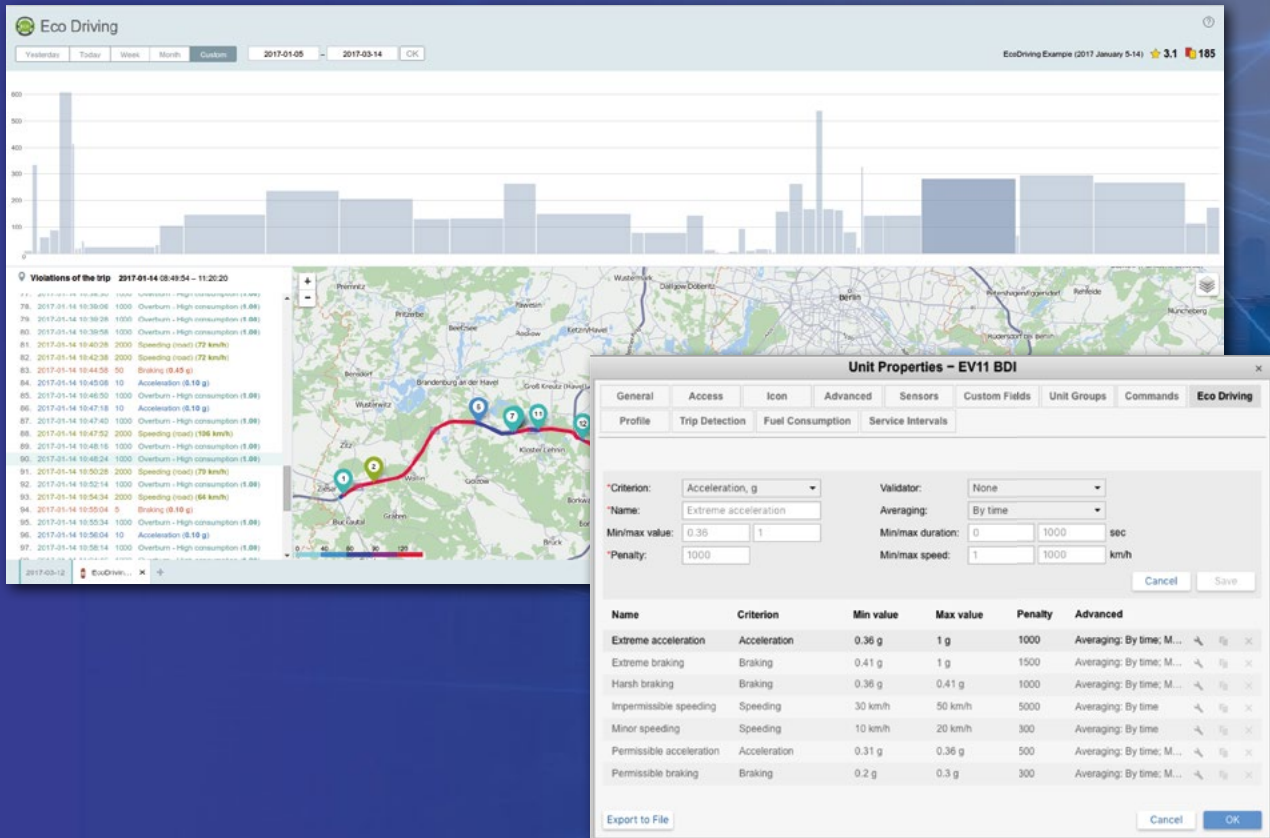
Wialon app for iOS and Android

With the mobile app for Wialon, maintain access to Wialon GPS tracking platform anytime, anywhere. It offers both basic and advanced functionality of the desktop version in a user-friendly mobile interface.

FEATURES

- ♦ **Units list control**
Get all the necessary information on movement and ignition state, data actuality, and vehicle's location in real time.
- ♦ **Commands**
Send commands: message, route, requests for configuration or photo from the camera for the unit remote control.
- ♦ **Geofences**
Switch on/off the visual display of the vehicle's location inside of a geofence instead of address information.
- ♦ **Informative reports**
Use the detailed data on the vehicle's rides, stops, fuel thefts, and fillings for decision-making on the spot.
- ♦ **History**
Control the vehicle's events (movement, stop, fuel filling, fuel theft) in chronological order and display them on the map.
- ♦ **Map mode**
Access vehicles, geofences, tracks and event markers on the map with the option to detect your own location.

DRIVER SCORING: IMPROVE FLEET SAFETY, REDUCE FUEL COSTS, ENHANCE CARGO SAFETY



Driver scoring

Flexible configuration allows creating a customizable driving quality assessment model based on violation criteria and coefficients that can be set for each vehicle individually.

Each violation adds penalty points that may be used as a basis for driver scoring. The fewer penalty points you get, the higher the score rank and the quality of driving are.

INDIVIDUAL SETS OF CRITERIA

- ♦ **View the detailed presentation** of driving quality for each driver or vehicle in a fleet in a user-friendly visual format. You get access to the details on violations with tracks and event markers on the map.
- ♦ **Evaluate driving quality** based on acceleration, breaking, cornering, turn, speeding, reckless driving, or custom criteria.
- ♦ **Rank your drivers** based on total or average penalty points scored for all trips.
- ♦ **Configure the module quickly** with violation criteria presets for cars, buses, and trucks.

LOCAL DELIVERY MANAGEMENT

The screenshot displays the Winlon Local Delivery Management interface. The main window shows a list of orders with columns for Name, Address, Delivery interval, Comment, Cost, Weight, Volume, and Vehicle. The 'Smartphone case' order is selected. Below the list, there are buttons for 'Order Printer', 'Logistics', and 'Search'. A sidebar on the left contains navigation options like 'PLANNING', 'NEW ORDER', 'IMPORT ORDERS', 'TEMPLATES', 'ROUTES', 'REPORTS', and 'CHAT'. A bottom panel shows a map of the delivery area with a route marked by a dashed line. The map includes a legend for 'Route state' (Active, Planning, Fulfilled) and a 'Fast Delivery Vehicle (Logistics)' section with details like 'Estimated route duration', 'Actual route duration', 'Estimated mileage', 'Cost', 'Weight', 'Volume', and 'Driver'.

	Name ↑	Address	Delivery inter...	Comment ...	Cost	Wei...	Vol...	Vehicle	
<input type="checkbox"/>	1	HDTV panel	Shk Khalid Bin Sultan Alq...	00:00 — 23:59	Courier	1 000 \$	20 kg	0.12	Courier
<input type="checkbox"/>	2	Laptop bag	Hessa Street, Al Barsha 3...	00:00 — 23:59		20 \$	0.4 kg	0.005	Courier
<input type="checkbox"/>	3	Printer	12A Street 7, Al Quoz 1, ...	00:00 — 23:59	Please be po...	125 \$	6.5 kg	0.021	Courier
<input type="checkbox"/>	4	Smartphone	Wadi Al Safa 4, Dubai, UAE	00:00 — 23:59		400 \$	0.3 kg	0.000	Courier
<input checked="" type="checkbox"/>	5	Smartphone case	Omar Bin Al Khattab Roa...	00:00 — 23:59		3 \$	0.015	0.000	Courier

	Name ↑	Arrival time	Mileage	Address
0/4	Fast Delivery V...	2020-11-16 23:17 — 2020-1...	99.1 km	Hessa Street, Al Barsha 3...
1	Thirteenth Warehouse	23:17	0 m	Warehouse
2	HDTV panel	23:45	25.0 km	Shk Khalid Bin Sultan Alq...
3	Laptop bag	2020-11-17 00:29	43.0 km	Hessa Street, Al Barsha 3...
4	Thirteenth Warehouse	2020-11-17 01:03	31.2 km	Warehouse

Fast Delivery Vehicle (Logistics)

Orders: 4

Estimated route duration: 1 h 46 min

Actual route duration: 0 h 00 min

Estimated mileage: 99.1 km

Cost: 1020 \$

Weight: 20.4 kg

Volume: 0.125

Driver: Delivery guy

Route state: Active

Local delivery management

Local delivery management with Wialon allows performing a wide range of tasks in the area of logistics and delivery – transportation arrangements, delivery route optimization, and cost saving. The feature comprises a web-version for dispatchers and a mobile application for drivers.

FEATURES

- ♦ **Orders**
Create orders with a detailed description directly in the interface or import them from XLSX and CSV files or using an API.
- ♦ **Delivery process monitoring**
Track the delivery process in real-time mode and respond to emerging issues through phone calls or talking to the driver.
- ♦ **Delivery route planning**
Select orders and vehicles and get preliminary routes comprising data on the estimated time of arrival and mileage. Use Google Maps data for precise address info and routing.
- ♦ **Reports and notifications**
Get analytics from reports and communicate with clients by email notifications with a built-in HTML editor.

TRACKING FIELD WORKERS WITH WIALON



Tracking field workers with Wialon

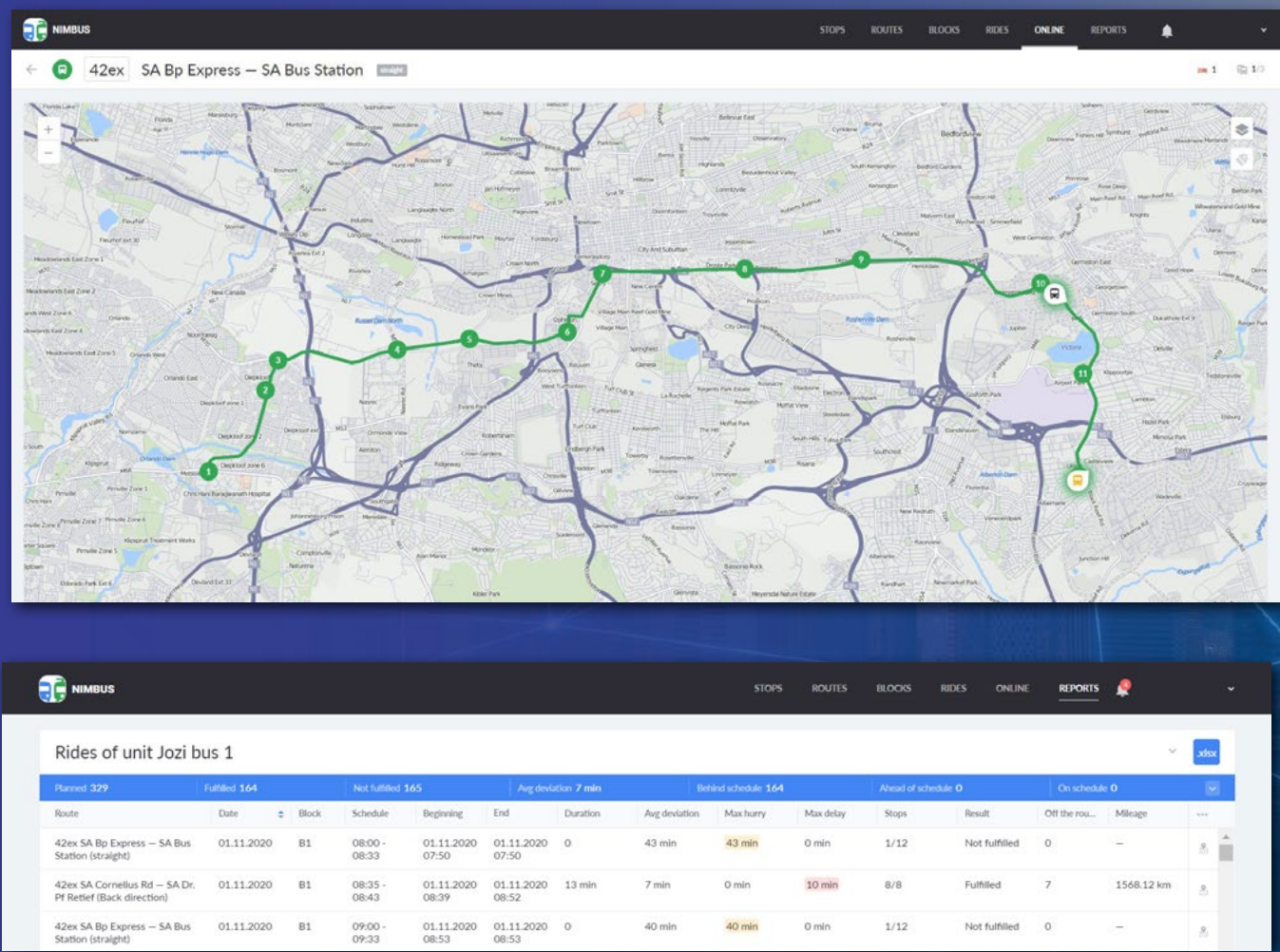
Turn your iOS or Android device into a GPS tracker with this specific Wialon functionality. It relieves you from costs associated with hardware acquisition and ensures effective personal tracking and workforce management with a single mobile device.

- ♦ **Latest data at hand**
View the main tracking parameters on the home screen for quick checks.
- ♦ **Data from workers**
Workers are able to send pictures, SOS messages, or location info.
- ♦ **Configurator**
Configure units in bulk and remotely, generate QR codes to quickly log in, and request logs from devices for diagnostics without user participation.
- ♦ **Various user modes**
Choose the best mode for a perfect balance between battery life and data precision.
- ♦ **Remote control**
Request actions such as a camera snapshot or a service stop and change settings remotely.
- ♦ **Chat with employees**
Send and receive various types of messages from the field workers.

WHAT'S MORE?

Add the GPS tracker functionality to a custom application. With a special kit library, you get the ready-made component, which means you don't have to spend extra time and money on development. The elaborated communication protocol for Wialon helps you release the new solutions sooner.

PUBLIC TRANSPORT CONTROL



Public transport control with Wialon

Among other things, Wialon can control vehicles on route. This functionality enables route planning and performance control, proper distribution of vehicles between rides and precise schedule management. It also ensures efficient real-time monitoring and detailed reports on fleet activity.

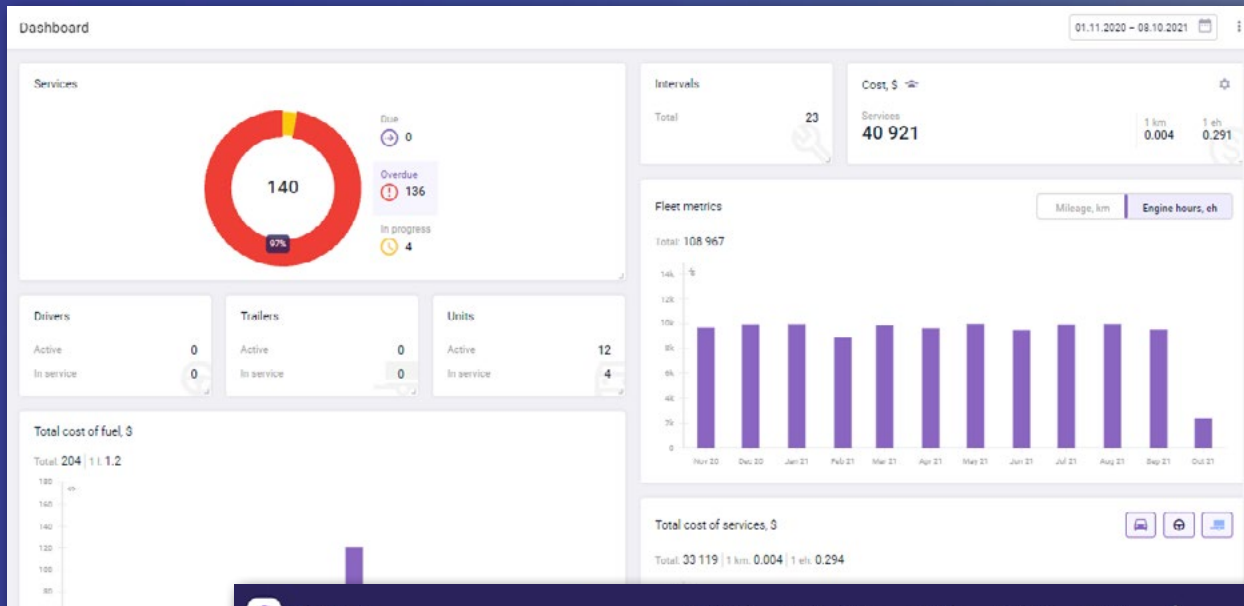
FEATURES

- ♦ **Routes management**
Generate routes with precise schedules, individual operating patterns, and bound units.
- ♦ **Online tracking**
Employ handy timeline, quick notifications, and multiple mapping options to control late/early arrivals and deviations from routes.
- ♦ **Handling stops**
Create and import stops distinguished by a vehicle type; make use of quick search and detailed descriptions.
- ♦ **Rides**
Plan rides based on active routes with schedules and operating patterns.

WHAT'S MORE?

Managing public transport with Wialon offers intuitive navigation and user-friendly interface, handy timeline and event-based notifications for online tracking, special ACL system and the proprietary API for third-party software integration and custom developments.

FLEET MAINTENANCE CONTROL



Fleetrun

Dashboard Service objects Intervals **Services** Reports

Units Select unit type Drivers Trailers Create service

Upcoming In progress Archive

Search Due

Service	Service object	Term of completion:	Estimated service date
24,000-KM Preventive Maintenance Ser... Preventive Maintenance 24,000-KM Serv...	Mercedes-Benz 1 (Other)	In: 98 480 km	18.05.2021
24,000-KM Preventive Maintenance Ser... Preventive Maintenance 24,000-KM Serv...	Mercedes-Benz 2 (Van)	In: 96 980 km	15.05.2021

Fleet maintenance control with Wialon

Wialon suits perfectly for fleet maintenance control and manages all types of works, services, and expenditures for spare parts, vehicles, and even miles driven. We developed it for those willing to cut operating costs, avoid critical breakdowns, and minimize the time spent at a service station.

FEATURES

- ♦ **List of units**
Access to data on mileage, engine hours, services, and advanced information on each unit.
- ♦ **Intervals**
Automated service creation by time, mileage, and engine hours for the specified units.
- ♦ **Reports**
Analysis of the performed services by fleets, units, and intervals.
- ♦ **Services**
Registration of works in the system: types, duration, spare parts, prices, and results.

WHAT'S MORE?

Analyze the fleet status – overdue services, financial and time expenditures. Create the hierarchy of users and distribute the responsibilities among the workers using access rights. Invest in the vehicles with high mileage but no breakdowns and give up those going out of order not even leaving the fleet yard.

Plan the workload bearing in mind how many vehicles aren't running or will undergo the service shortly.

Fields

Crops

Operations

Implements

Registrar

Compound

Reports

←

Potential cultivation

✕ Decline

✓ Approve

Field

Crop

Area, ha

Field 10-11

● Wheat Cattle F...

✕

▼

124.62

Start time

End time

Duration

15.11.2022 08:29

15.11.2022 16:31

8 h 2 min

Unit

Driver

Operation

Tractor 11

Driver 3

✕

▼

Cultivation

✕

▼

Implement

Width, m

Deviation, m

Cultivator 1-JM

✕

▼

6

⬆

⬆

1

⬆

⬆

Cultivated area

Overlaps

Omissions

Area left

60.02 ha

48.2%

Mileage

124.9 km

Interval

Report type

Item

Grouping

Shift

01.04.2022 – 31.05.2022

📅

All cultivati...

▼

Select item

▼

None

▼

All s...

▼

.csv

.xlsx

Cultivations 10

Duration 29 h 45 min

Mileage 758.98 km

Cultivated area 199.14 ha

Fuel spent 121.03 l

Field	Area	Crop	Operation	Duration	Unit	Driver	Mileage	Cultivate...	Omissions	Overlaps
Field 2	85.37 ha	<div></div>	Harrowing	1 h 34 min	Tractor 2	Driver 2	31.97 km	19.82 ha	7.73 ha	2.42 ha
Field 3-1	94.15 ha	<div></div>	Harvesting	2 h 2 min	Tractor 3	Driver 3	39.7 km	20.73 ha	1.81 ha	1.86 ha

Smart farming with Wialon

Wialon allows controlling field works based on telematics data. It delivers transparent data about fields, crops, and field operations to the employees and managers of agricultural enterprises. Having this data at hand, the clients can effectively plan and improve their agribusiness processes.

FEATURES

- ♦ **Fields and crops**
The import and creation of fields.
Crop rotation control, crop catalog, and the detailed history of cultivations for each field.
- ♦ **Field cultivations**
Detection of new field cultivations.
Options to edit and approve the cultivations before adding them to the registrar.
- ♦ **Special vehicles and drivers**
Calculations of fuel consumption, speed, mileage for each field cultivation, vehicle, driver.
- ♦ **Reports**
Easy reports generation by drivers, fields, operations, or units.

WHAT'S MORE?

Automate business processes and improve the effectiveness of the agricultural organizations: integrate Wialon with any accounting or reporting system of the client's enterprise through an API.



winlon

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