



System Overview

Wialon: the ultimate solution for intelligent GPS tracking and fleet management

Companies in 130+ countries choose Wialon to track 1,400,000 units worldwide. You can instantly start using the system with almost any type of AVL hardware, personal, asset, satellite trackers, and various MDVRs. The universal system goes beyond simple monitoring and allows you to launch tracking in remote areas with satellite communication option and benefit from sophisticated video monitoring solutions.

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

1

Wialon: the ultimate solution for intelligent GPS tracking and fleet management

Scope of application

- ◆ Fleet performance analysis
- ◆ Mobile workforce management
- ◆ Driver behavior monitoring
- ◆ Fuel consumption control
- ◆ Video surveillance
- ◆ Real-time monitoring
- ◆ Tachography
- ◆ Hazardous/FMCG goods transportation control

System capabilities:

- ◆ GPS/LBS location detection
- ◆ Alert and notification system
- ◆ In/out geofence control
- ◆ Fuel consumption/fillings/thefts reports
- ◆ CAN bus data reading
- ◆ Route optimization/management
- ◆ Flexible report-building tools
- ◆ Data capture from sensors, counters, RFID readers, etc.

2

Trusted by clients in various business domains



Fleet management



Transport and logistics



Delivery and field services



Safety and security



Waste management



Utilities and construction



Public transportation



Personal tracking

Geofences and notifications: control every aspect of unit performance in/outside the specified area

The screenshot displays the Wialon Hosting software interface, which is used for managing geofences and notifications. The interface is divided into several sections:

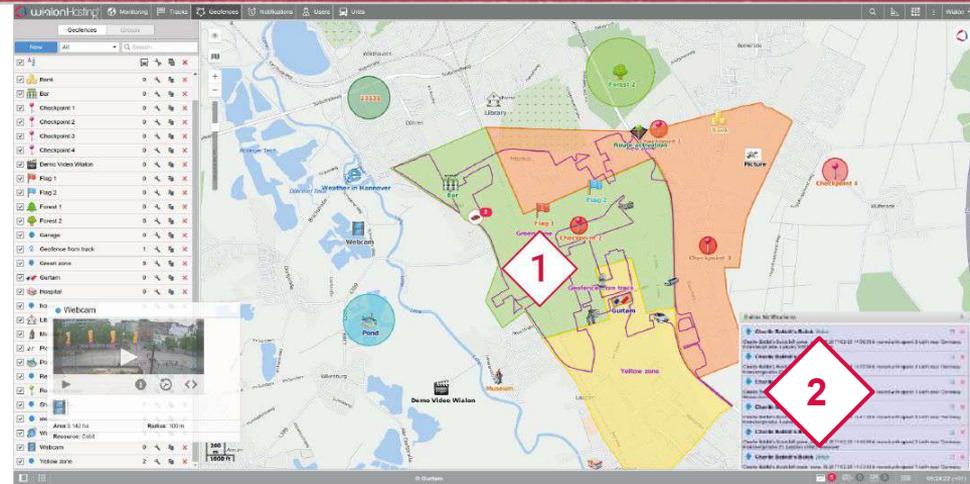
- Geofences List (Left Panel):** A table listing various geofence types and their status. The list includes:

Geofence Type	Status	Icon	Color
Bank	0	[Icon]	[Color]
Bar	0	[Icon]	[Color]
Checkpoint 1	0	[Icon]	[Color]
Checkpoint 2	0	[Icon]	[Color]
Checkpoint 3	0	[Icon]	[Color]
Checkpoint 4	0	[Icon]	[Color]
Demo Video Wialon	0	[Icon]	[Color]
Flag 1	0	[Icon]	[Color]
Flag 2	0	[Icon]	[Color]
Forest 1	0	[Icon]	[Color]
Forest 2	0	[Icon]	[Color]
Garage	0	[Icon]	[Color]
Geofence from track	1	[Icon]	[Color]
Green zone	5	[Icon]	[Color]
Gurtam	0	[Icon]	[Color]
Hospital	0	[Icon]	[Color]
Webcam	[Status]	[Icon]	[Color]
Lib	[Status]	[Icon]	[Color]
Ms	[Status]	[Icon]	[Color]
Pl	[Status]	[Icon]	[Color]
Po	[Status]	[Icon]	[Color]
Re	[Status]	[Icon]	[Color]
Ro	[Status]	[Icon]	[Color]
Sh	[Status]	[Icon]	[Color]
etc	[Status]	[Icon]	[Color]
Area 3 142 ha	[Status]	[Icon]	[Color]
Reservoir: Debit	[Status]	[Icon]	[Color]
Webcam	0	[Icon]	[Color]
Yellow zone	2	[Icon]	[Color]
- Map (Center):** A map showing a city area with various geofences overlaid. The geofences are color-coded and labeled:
 - Green zones:** Forest 1, Forest 2, and Forest 3.
 - Yellow zone:** A large yellow area in the center.
 - Orange zone:** An orange area to the right of the yellow zone.
 - Geofence from track:** A purple outline area.
 - Checkpoints:** Checkpoint 1, Checkpoint 2, Checkpoint 3, and Checkpoint 4.
 - Flags:** Flag 1 and Flag 2.
 - Other markers:** Bank, Bar, Picture, Gurtam, Museum, and Webcam.
- Webcam (Bottom Left):** A small video player showing a live feed from a webcam.
- Bottom Panel:** Displays technical information such as "Area 3 142 ha", "Reservoir: Debit", and "Radius: 100 m". It also shows a scale bar (0 to 1000 ft) and coordinates (52.330239° N, 9.775444° E).

Geofences and notifications: control every aspect of unit performance in/outside the specified area

2. Notifications

Receive e-mail, SMS or pop-up notifications if a certain event occurs (e.g. violations, alarm button activation, sensor value variations, connection loss, idling, etc.). Notifications contain brief information on the event or can be used to trigger certain processes in the system, for instance, sending messages to a driver, executing a command, sending reports by e-mail.



Tracks and minimaps: extended information on units and routes



Tracks: Create tracks to display unit movements on the map and get quick access to unit activity data via event markers. Track Player app makes it easier to simultaneously follow several units on the map, analyze tracks and timeline events in a handy interface.

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

Logistics: the advantageous order management service



Control all stages of delivery and field services operations

Simplify transportation arrangements, optimize transport processes, and ensure cost-saving operations.



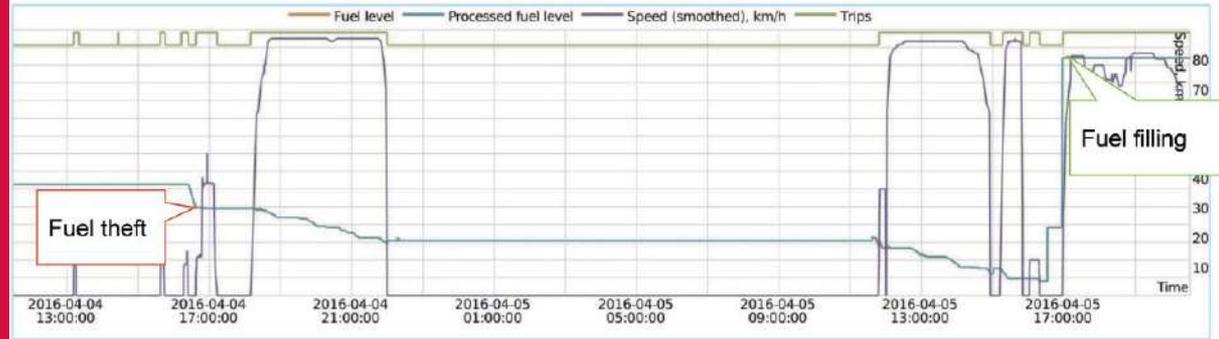
Logistics web-version

- ◆ Create or import orders with detailed description
- ◆ Select orders, vehicles and generate routes in a handy interface
- ◆ Get preliminary routes and data on the estimated arrival time and mileage
- ◆ Monitor/coordinate delivery with notifications and bidirectional communication

Logistics mobile version

- ◆ View orders in the list and on the map
- ◆ Track and evaluate delivery progress
- ◆ Generate routes using external navigation apps
- ◆ Assign order statuses, add comments and photos
- ◆ Turn your smartphone into a tracker
- ◆ Receive push notifications on orders, routes, and delivery process

Fuel consumption control: fillings and thefts detection



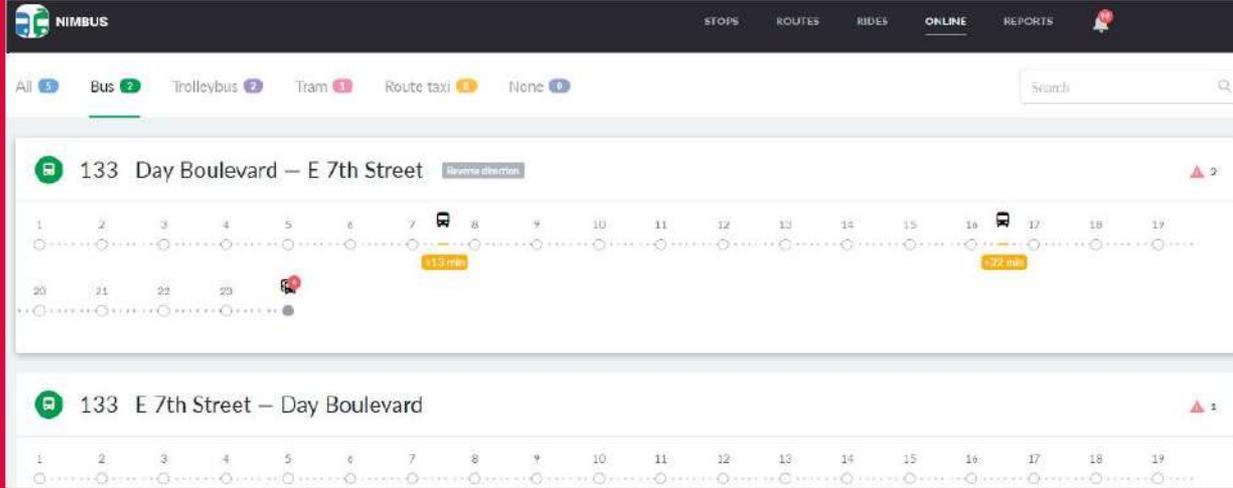
With Wialon you can detect any type of fuel misuse and control the whole cycle of fuel distribution from filling stations and dispensers to vehicles and machinery.

FLS data: analyse fuel consumption depending on a fuel level in the tank in different time points. Calculation can be performed with impulse, absolute, and instant fuel consumption sensors each providing its own benefits.

Fuel consumption by math option: create engine operation and efficiency sensors for maximum precise calculation depending on season, idling, urban and suburban cycles or high load.

Proprietary fuel management system allows to detect fuel thefts in the most complicated cases, including underfillings, card frauds, insufficient driving, siphoning, and much more.

Nimbus: the new solution for public transportation companies



Nimbus for fleet managers is designed to control vehicles on route. The service enables route planning and performance control, proper distribution of vehicles between rides and precise schedule management. The solution also ensures efficient real-time monitoring and detailed reports on fleet activity.

- ◆ User-friendly interface
- ◆ Intuitive navigation
- ◆ Multi-level access rights system
- ◆ Event-based notifications
- ◆ Handy timeline for online tracking
- ◆ API for third-party systems integrations to be released soon

Video surveillance: view and analyse data from MDVRs

The screenshot displays the Winlon Hosting MDVR management interface. The top navigation bar includes various icons for monitoring and management. The main area is divided into several sections:

- Unit Information:** Unit: KP1_TEST, Interval: Specified interval, From: 2016 June 17 18:21, To: 2016 June 17 18:22, Message type: Data messages, Show parameters as: Raw data.
- Map:** A map showing the vehicle's location and route. A video player is overlaid on the map, displaying a street view from a vehicle's perspective.
- Message Log:** A table listing messages with columns for Time, Speed, and Media. The log shows messages from 2016-06-17 18:21:12 to 2016-06-17 18:21:18.
- Statistics:** Total messages: 138, Total time: 00:01:59, Distance: 1.50 km, Average speed: 45.40 km/h, Maximum speed: 84.00 km/h.

Time	Speed	Media
2016-06-17 18:21:12	0	
2016-06-17 18:21:13	0	
2016-06-17 18:21:14	0	
2016-06-17 18:21:15	0	
2016-06-17 18:21:16	---	
2016-06-17 18:21:16	53.9286383333, 27.5013616667	206 Germany, Messe-Schnellweg, Mittelfeld 30519
2016-06-17 18:21:17	---	
2016-06-17 18:21:17	53.9286383333, 27.5013616667	206 Germany, Messe-Schnellweg, Mittelfeld 30519
2016-06-17 18:21:18	---	
2016-06-17 18:21:18	53.9286383333, 27.5013616667	206 Germany, Messe-Schnellweg, Mittelfeld 30519

The 'New command' dialog box is shown, allowing users to configure a new command. The fields are as follows:

- Command name:** Download video online
- Command type:** Download video for the last N seconds (download_last_n_se)
- Channel:** Auto
- Phone number:** Use any

Below the fields, there is a section for 'Indicate access rights required for users to execute this command:' with a list of permissions:

- View item and its basic properties.
- View detailed item properties
- Manage access to this item
- Delete item
- Rename item
- View custom fields
- Manage custom fields
- View admin fields
- Manage admin fields
- Edit not mentioned properties
- Change icon
- Query reports or messages
- Edit ACL propagated items
- Manage item log
- Edit connectivity settings (device type, UID, phone, access password, messages filter)
- Create, edit, and delete sensors

At the bottom, there is a checkbox for 'Without parameters' and a field for 'Interval in seconds (range 1-60):' with the value 30. The dialog has 'Cancel' and 'OK' buttons.

Video surveillance: view and analyse data from MDVRs

Wialon brings together satellite monitoring and video surveillance in one platform

Feature-rich Wialon system, combined with MDVRs functionality, allows you to watch the assets and the 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, increased fuel economy, improved road safety, and enhanced smart insurance practices.

Features

- ◆ Receive photos and view videos from tracking devices
- ◆ Generate reports with event time, location, video recordings
- ◆ Minimize traffic consumption with event-based video monitoring
- ◆ Perform deeper driver behavior analysis
- ◆ Bind video streaming to geofences
- ◆ Quickly assess current traffic situation

Advanced reports: powerful analytics in Wialon

Wialon "Reports" module is used to present information on unit activity in handy tables and charts. The system allows to create flexible report templates, view reports in a browser, export them to files in various formats, and send by e-mail.

- ◆ **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.

- ◆ **Precise information**

Enjoy precise addresses, statistics, and information on 300+ monitoring parameters.

WiaTag: GPS tracker in your smartphone

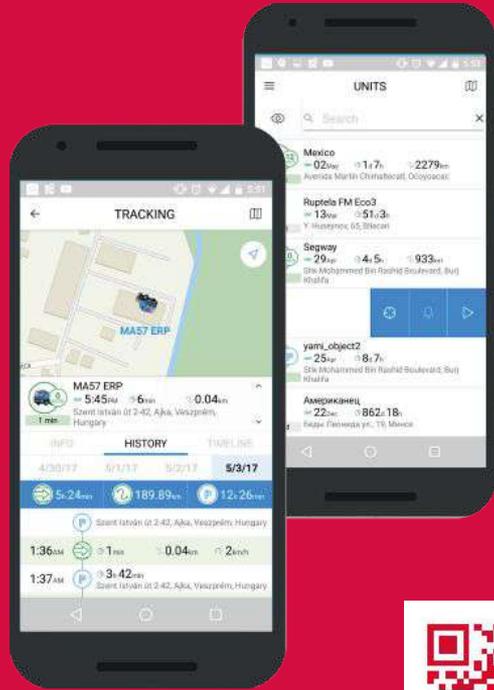


WiaTag is an effective and easy-to-use iOS/Android app turning your device into a GPS tracker. The application relieves you from costs associated with hardware acquisition and allows to start effective personal tracking and workforce management with a single mobile device.

- ◆ Maximum precise location detection to quickly find and track personnel
- ◆ Option to track employees outside their vehicles during field operations
- ◆ Quick sending of photos, locations, and SOS-messages
- ◆ Smart data collection mode to save battery life and traffic
- ◆ Preset and custom user modes for quick configuration
- ◆ Tracing of the latest data and sending of unit current status
- ◆ Remote configuration from Wialon interface



Wialon mobile application



Wialon mobile app comprises core functionality of the system in a user-friendly mobile interface for you to continue GPS tracking outside the office. From around the world you continue getting real-time data on vehicles and stationary units with detailed track history available on each

- ◆ Manage unit list to get relevant information on vehicle movements, location, ignition state, and data actuality
- ◆ Map mode to access units, geofences, tracks, and event markers on the map or detect your own location
- ◆ Tracking mode to monitor the precise location and critical parameters of a particular unit
- ◆ Timeline tool to get the extended data on events
- ◆ Event-based notifications to receive right in the app
- ◆ Locator functionality to create links and share unit locations
- ◆ Sending of core commands from “Units” and “Tracking” tabs

For advanced user experience fast switch to Dashboard app has been implemented bringing the KPIs of the fleet to your fingertips.