

winlonlocal[®] 2204

NEW FEATURES AND UPGRADES

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If you want to install Wialon Local 2204 or update your current Wialon Local version, please contact your personal manager or write to sales@gurtam.com.

Administration system

System administration tools.

WHITE LABEL SOLUTIONS FOR MONITORING IN AGRIBUSINESS AND LOCAL DELIVERY MANAGEMENT

Wialon Local users can white label solutions for GPS monitoring in agriculture and city delivery management for their promotion and distribution.

TIME LIMIT FOR THE QUERY EXECUTION

To provide Wialon Local continuous operation, a time limit for the query execution is introduced. By default, it is 300 seconds, but the user can reduce or increase it.

If Wialon Local fails to execute too many queries within this time limit, the operation is terminated without affecting the stable functioning of the entire system.

SECURITY ENHANCEMENT

To allow you to use Wialon on your servers with confidence and security, we have added additional protection against the most critical vulnerabilities and cyber attacks.

ADDING A LINK TO HUAWEI APPGALLERY

Now you can add a link to the Wialon app in Huawei AppGallery on the login page.

Monitoring system

Unit list management and quick access to the major monitoring options.

GEOLOCATION

WI-FI GEOLOCATION

When the GPS system can't determine the unit's position, we have added the unit coordinate detection with the help of Wi-Fi access points. Now devices that support Wi-Fi-based positioning can send data about the closest Wi-Fi access points to the Wialon platform. This data is used for detecting the unit coordinates.

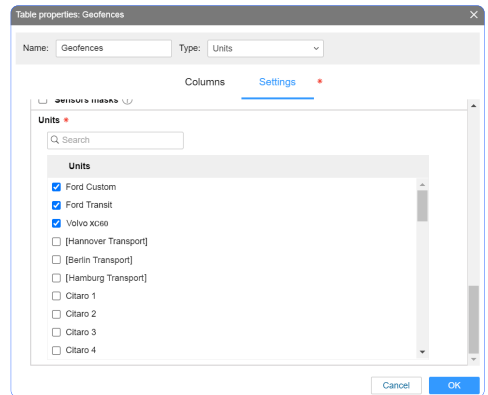
REPORTS

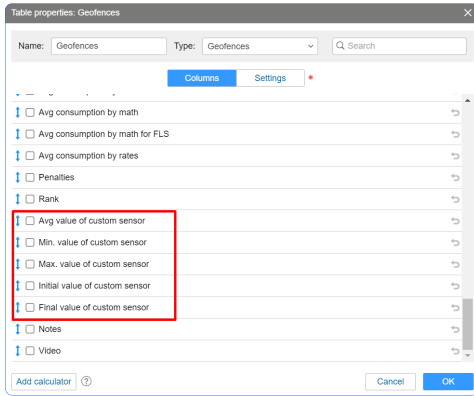
REPORT UPGRADE

The new Wialon Local version features reports that are more comprehensive, customizable, and flexible for tracking specific parameters.

- New columns have been added to the **Bindings, Custom fields, Driver activity, Infringements, Events, Geofence, and Group of geofences tables for the Group of trailers, Group of passengers, Unit, and Unit group reports.**

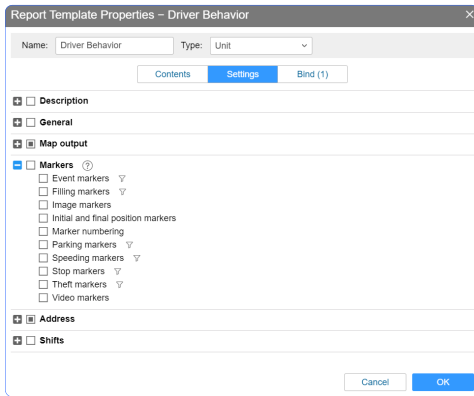
- When creating a report on a **geofence** or a **group of geofences**, we added the ability to select not only an individual unit but a group of units. Now when an end-user creates a new unit, they no longer need to manually edit the report template. All they need to do is to add the unit to the unit group, and Wialon will automatically generate a report on the entire group.



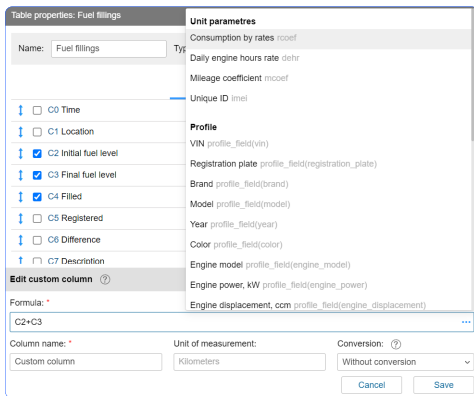


- Now a user can set up custom sensors in reports on a unit group and receive, track, and analyze data from them in one table. It saves time and allows them to view the necessary information in a convenient form.

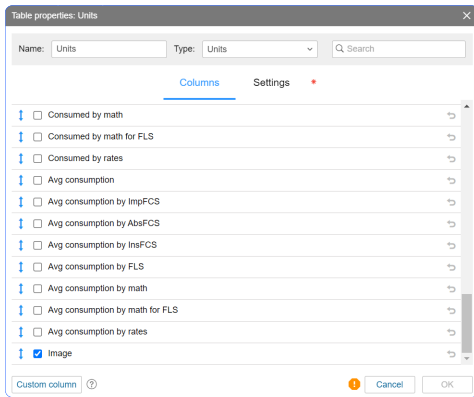
- To improve the reading and processing of reports with more than 4 characters to the left or the right of the decimal point, we added the thousands separator. The corresponding setting can be found in the General block of settings of the Report template properties.



- The marker settings are grouped in a separate section in the report template properties. Here, the user can also configure the marker visibility on the map and the marker filtration on the map and in charts. Now charts, report maps, and tracks display data for each FLS. Filling - markers show which FLS has detected a fuel filling or theft. In addition, the tooltip displays the name of the corresponding sensor.



- To set the required sensor in the formula, a user needs to select the necessary sensor and then refer to its name in the calculator. Also, now it's possible to use multiple sensors of the same type in the formula.



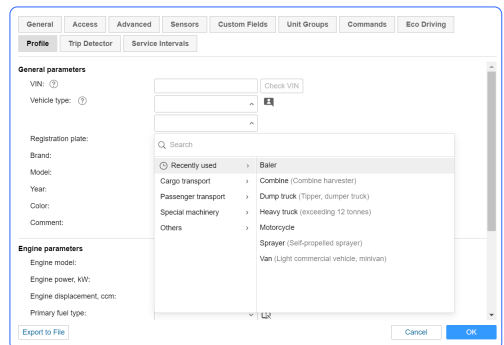
- A new Images column is added to reports on unit groups, geofences, and groups of geofences. These reports group and link photos to a certain event depending on the time they were received on the server. You can save individual images or all of them on your PC. An image contains data about the time and address where it was taken. A report provides the same information as well.

UNIT TYPE LIBRARY

The unit type library is part of Wialon Local 2204. It allows users to unify the names of unit types and bring them to a common norm. The library includes a catalog of unit types, which are divided into vehicle types (cargo, passenger, special machinery, etc.); each type comprises subtypes. For example, you can select a refrigerator van or a pick-up in cargo transport, and any vehicle from a kick scooter to a passenger car in passenger transport.

SEARCH FIELD IN THE UNIT TYPE LIBRARY

The unit type library has a search field that helps quickly find the needed unit type. Another change is the Recently used category with a list of unit types that were used recently. It would help quickly find the vehicle type you work with most frequently without wasting time on its everyday search.



NOTIFICATIONS

NOTIFICATION MECHANISM IMPROVEMENT

Now Wialon searches for the latest parameter value in messages and sends notifications only when it is changed. In case there is no parameter value in the message, Wialon won't see any reason to send a notification. As a result, you receive only relevant and correct notifications.

SECURITY

PASSWORD RESET LINK EXPIRATION

Previously, the password reset link had no expiration time. Now the link expiration time is 2 hours and the link itself can be used only once. When the expiration time is over, request the link again as it won't open for the second time even if you haven't changed your password yet.

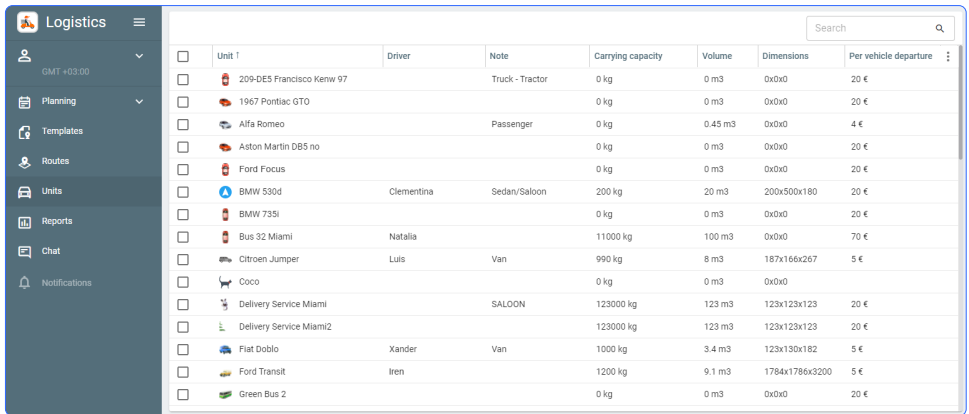
Local delivery management with Wialon

A web solution Logistics for the local delivery management.

DESIGN

A NEW UNITS PAGE

A new Units page has been added to the menu. There you can see a list of all the available units and their characteristics, including the usage cost for each unit per 1 km, 1 hour, 1 order, and 1 vehicle departure.



<input type="checkbox"/>	Unit 1	Driver	Note	Carrying capacity	Volume	Dimensions	Per vehicle departure
<input type="checkbox"/>	209-DE5 Francisco Kenw 97		Truck - Tractor	0 kg	0 m3	0x0x0	20 €
<input type="checkbox"/>	1967 Pontiac GTO			0 kg	0 m3	0x0x0	20 €
<input type="checkbox"/>	Alfa Romeo		Passenger	0 kg	0.45 m3	0x0x0	4 €
<input type="checkbox"/>	Aston Martin DB5 no			0 kg	0 m3	0x0x0	20 €
<input type="checkbox"/>	Ford Focus			0 kg	0 m3	0x0x0	20 €
<input type="checkbox"/>	BMW 530d	Clementina	Sedan/Saloon	200 kg	20 m3	200x500x180	20 €
<input type="checkbox"/>	BMW 735i			0 kg	0 m3	0x0x0	20 €
<input type="checkbox"/>	Bus 32 Miami	Natalia		11000 kg	100 m3	0x0x0	70 €
<input type="checkbox"/>	Citroen Jumper	Luis	Van	990 kg	8 m3	187x166x267	5 €
<input type="checkbox"/>	Coco			0 kg	0 m3	0x0x0	
<input type="checkbox"/>	Delivery Service Miami		SALOON	123000 kg	123 m3	123x123x123	20 €
<input type="checkbox"/>	Delivery Service Miami2			123000 kg	123 m3	123x123x123	20 €
<input type="checkbox"/>	Fiat Doblo	Xander	Van	1000 kg	3.4 m3	123x130x182	5 €
<input type="checkbox"/>	Ford Transit	Iren		1200 kg	9.1 m3	1784x1786x3200	5 €
<input type="checkbox"/>	Green Bus 2			0 kg	0 m3	0x0x0	20 €

THE WHAT'S NEW WINDOW

The window displays up to five latest news regarding the solution's update.

THE NAVIGATION BAR IMPROVEMENT

Now you can collapse the navigation bar to see more important information on the map or a table.

LANGUAGE SELECTION

Previously, the app's interface language correlated with the language selected in the user settings in Wialon. Now the user can change it directly in the app's settings.

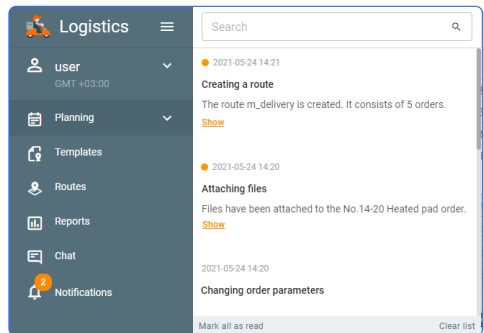
TIPS

Tips can be activated or deactivated depending on the user's preferences.

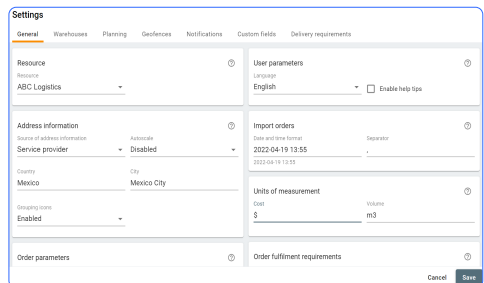
INTERFACE

The design of elements has changed:

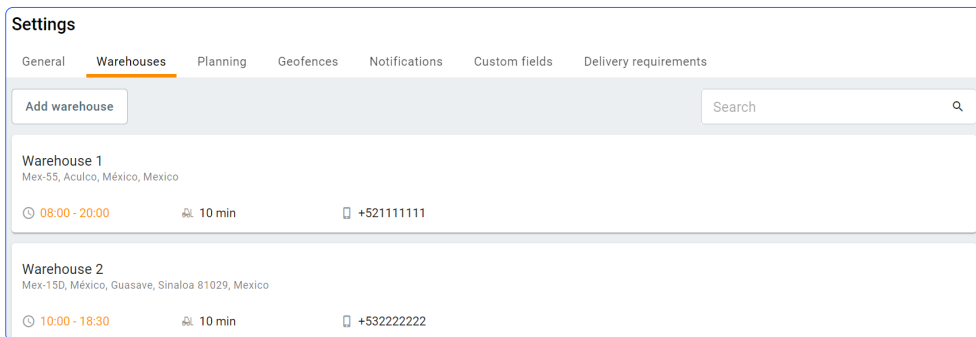
- The Notifications window has been updated and refined. We've improved the display of unread messages, added the option of marking all notifications as read, and introduced the Show button for simpler navigation.



- The **Save** and **Cancel** buttons are shown only when there are changes. If the specified data is incorrect or the required fields are not filled in, warnings are displayed on the setting tabs.



- The cards' size on the Warehouses tab is more compact now. All the specified parameters are accompanied by icons. A dynamic search by parameters has been added.

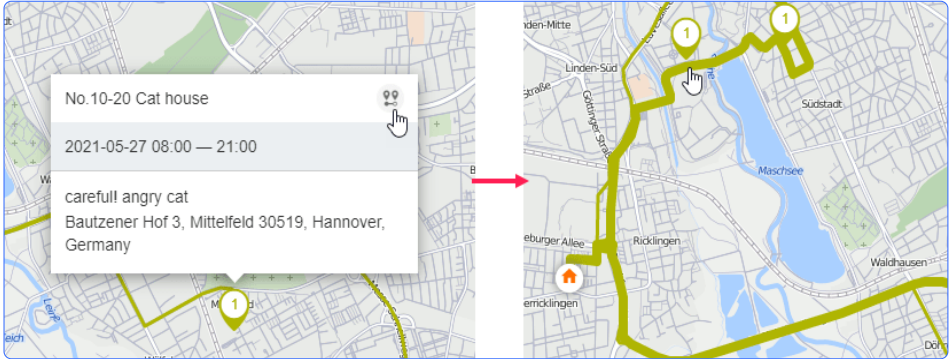


- On the tables on the Planning, Routes, and Templates pages, we have redesigned the buttons, expanded the lines, and highlighted a line over which the cursor is pointed.
- The design of the windows has changed, with some elements rearranged in them.

ORDERS

MOVING ORDERS ON THE MAP

The Move button is added to the order cards in the upper right corner. An end-user clicks on the button and selects the route on the map to which the order will be transferred. The new order automatically changes the route, while the app assigns a position number to it.



The areas in the table where you can move the order are highlighted in orange.

<input type="checkbox"/>	Name ↑	Delivery interval	Estimated ar...	Estimated...	Address	Volume	Weight	Route cost	⋮
<input type="checkbox"/>	Toyota Ca... ▲		09:43 – 10...	8.8 km		0.15 m3	3 kg	80 €	
<input type="checkbox"/>	Warehouse 1 Hann...	08:00 – 19:00	2021-09-06...		Auf dem Rohe 42, Ob...	0 m3	0 kg		
<input type="checkbox"/>	No.14-20 Heated p...	08:00 – 21:00	2021-09-06...	5.3 km	Schillerstraße 34, Mit...	0.05 m3	1.5 kg		
<input type="checkbox"/>	No.12-20 Safety seat	08:00 – 21:00	2021-09-06...	1.9 km	Theaterstraße 4, Mitt...	0.05 m3	0.7 kg		
<input type="checkbox"/>	No.11-20 Pet carrier	08:00 – 21:00	2021-09-06...	1.5 km	Akazienstraße 11, Sü...	0.05 m3	0.8 kg		
<input type="checkbox"/>	Toyota Ca... ▲		10:45 – 11...	7.6 km		0.05 m3	2.5 kg	50 €	
<input type="checkbox"/>	Warehouse 1 Hann...	08:00 – 19:00	2021-09-06...		Auf dem Rohe 42, Ob...	0 m3	0 kg		
<input type="checkbox"/>	No.10-20 Cat house	08:00 – 21:00	2021-09-06...	7.6 km	Bautzener Hof 3, Mitt...	0.05 m3	2.5 kg		🗑️

1 2 3 4 orders selected, 1 unit assigned, 2 routes built

🏠 ↻ 🗑️ Back Save

You can arrange orders in the most efficient sequence. To do this, try to transfer the order to the grouping line of the route. Orders in the table will get automatically updated, with applications in both routes arranged in the optimal sequence.


ORDER REJECTION REASONS

On the **General** tab of the settings, we have added the **Order rejection reasons** section. The user can specify the reasons for rejecting orders or create a list of the required reasons using the **Autocomplete** button.


The screenshot shows the 'Settings' application with the 'General' tab selected. The 'Order rejection reasons' section is highlighted with a red box. It includes a 'Reason name' input field with an autocomplete button (+) and an 'Autocomplete' button below it. Other settings visible include 'Completed orders' (Enabled), 'Order parameters' (Delivery interval: 00:00, Delivery interval end: 23:59, Advance time: 60, Service time: 10, Radius: 100, Weight: 0, Volume: 0, Route color: From unit properties), and 'Order fulfillment requirements' (Not to confirm orders outside the radius, Not to confirm orders without signature).

UNDISTRIBUTED ORDERS

A new line for undistributed orders has been added at the third planning step. The line is highlighted in red and is located at the top of the list – you won't miss it.

Once you click on the icon , you'll see the reason why the order remained undistributed.

Undistributed orders are added to the route on the map and on the table. If you recalculate the route without considering route restrictions, such orders will be distributed to the maximum benefit for your client.

<input type="checkbox"/>	Name ↑	Delivery interval	Estimated ar...	Estimated mileage	
<div style="display: flex; justify-content: space-between; align-items: center;"> 2 ⚠ </div>					
<input type="checkbox"/>	Delivery 3	08:00 – 22:00			
<div style="display: flex; justify-content: space-between; align-items: center;"> Maximum distance exceeded 4 </div>					
<input type="checkbox"/>	A228VE-78		15:14 – 15...	18.4 km	

1 2 3 2 orders selected, 1 unit assigned, 1 route built

VEHICLE TYPES AND DELIVERY REQUIREMENTS

Some orders require special delivery conditions: temperature conditions, large-sized vehicles for large-sized goods, and so on. To make it easier to find a suitable vehicle, we added the **Delivery requirements** tab in the settings.

The new functionality displays suitable vehicles to the dispatcher and automatically assigned selected orders to them.

The screenshot shows the 'Settings' application with the 'Delivery requirements' tab selected. It includes a 'Name' input field with an autocomplete button (+) and a list of vehicle types: 'bike', 'fridge', 'loader', 'passenger car', 'van', and 'truck'. There are 'Cancel' and 'Save' buttons at the bottom right.

PLANNING

THE ROUTE COST COLUMN

The column **Route cost** has been added to reports on routes and reports on routes and orders. The column shows the route cost calculated during the optimization if the corresponding parameters are indicated in the settings in the Route cost calculation section.

THE TAKE INTO ACCOUNT THE LOCATION OF UNITS OPTION

If the **Take into account the location of units** option is enabled when creating a route, the route from the unit to the first point is displayed on the map. In addition, the estimated arrival time and the distance from the unit to the first point are calculated and displayed on the table.

The screenshot shows the 'Settings' interface for 'Planning'. The 'Planning' tab is selected and highlighted with a red box. The interface is divided into several sections:

- Distribution optimization:** Includes dropdowns for 'Initial warehouse' (Warehouse 1 Hann...), 'Intermediate warehouse' (Without warehouses), and 'Final warehouse' (Without warehouses). It also has dropdowns for 'Routing service' (Google) and 'Mode of transportation' (By car). 'Route parameters' are set to 'With traffic' and 'Traffic model' to 'Balanced'. Under 'Avoid', 'Toll roads' and 'Ferries' are checked, while 'Highways' is unchecked.
- Route cost calculation:** A note states: 'Now values for calculating the route cost are specified for each unit individually on the new "Units" page. [Learn more](#)'
- Route properties:** 'Automatic termination' is set to 'Last order +'. 'Time (HH:MM)' is set to '09:59'. 'Order sequence' is set to 'Strict'.
- Optimization settings:** 'Planning mode' is set to 'Balanced'. A note says: 'Select this mode if reducing costs and adhering to delivery intervals are equally important for you.' The 'Take into account the location of units' checkbox is checked.
- Route restrictions:** 'Maximum distance, km' is 0. 'Maximum duration, min' is 400. 'Maximum number of orders' is 0. 'Maximum idling time, min' is 30. 'Carrying capacity' and 'Volume' checkboxes are checked.
- In case of restriction violations:** 'Exclude orders from the route' is selected.

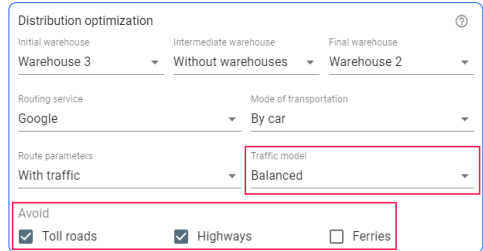
At the bottom right, there are 'Cancel' and 'Save' buttons.

ROUTES

NEW CAPABILITIES OF THE GOOGLE ROUTING SERVICE

The **Distribution** optimization section on the Planning tab has been improved for those who use Google as a routing service. Now it's easier to create an optimized route. The user picks one of the available traffic models: balanced, optimistic, pessimistic.

In addition, the user can specify the parts of the road (toll roads, highways, ferries) that should be avoided when planning routes.



Distribution optimization

Initial warehouse: Warehouse 3 | Intermediate warehouse: Without warehouses | Final warehouse: Warehouse 2

Routing service: Google | Mode of transportation: By car

Route parameters: With traffic | Traffic model: Balanced

Avoid: Toll roads | Highways | Ferries

NOTIFICATIONS

NEW NOTIFICATION TYPES

New notification types have been added to promptly inform users about important events:

- **Visiting an order.** The driver receives this notification when an order is **visited**, but its **status hasn't been indicated yet**. For example, a vehicle enters a geofence and stops there, while the order isn't fulfilled yet. The new notification type makes it easier for the driver and the dispatcher to track the order fulfillment.
- **Orders ready to be sent.** Such notifications are used when the order has been picked up from the warehouse but has not yet been passed to the driver. They are sent simultaneously to all clients whose orders are on the list. So the client is always aware of what is happening with their order.

SERVER NOTIFICATIONS AND NEW TAGS

To increase the availability of notifications, we have added server notifications. You receive them on your server and use them further at your discretion: send a notification via messengers, to your own application, or other channels.

In the External server section, you can use ready-made tags, including new ones, for example, the notification ID.

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