

Wialon+DSM solution

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DSM on Wialon platform

For monitoring our device we have a lot of third-party platforms but only one at the moment which supports the [DSM](#) solution is Wialon. In this chapter, we will show you how to configure the device and also how to configure the Wialon platform for receiving information from DSM.

Device configuration

Step 1

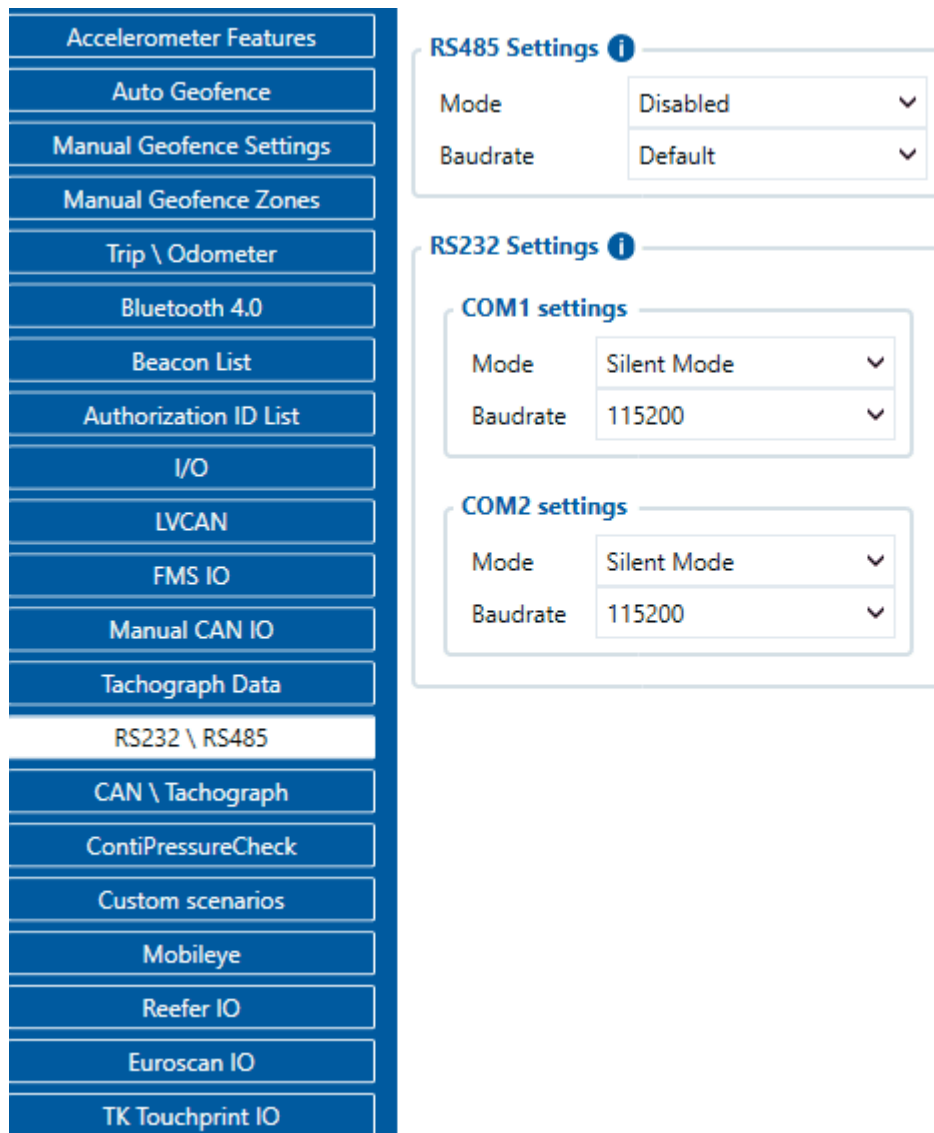
Enable **Codec 8 Extended**.

The screenshot displays the Wialon configuration interface with a sidebar on the left and a main content area on the right. The sidebar contains various menu items such as Security, System, GPRS, Data Acquisition, SMS \ Call Settings, SMS Events, GSM Operators, Features, Accelerometer Features, Auto Geofence, Manual Geofence Settings, Manual Geofence Zones, Trip \ Odometer, Bluetooth 4.0, Beacon List, Authorization ID List, I/O, LVCAN, FMS IO, Manual CAN IO, Tachograph Data, RS232 \ RS485, CAN \ Tachograph, and ContiPressureCheck. The main content area is divided into several sections: Sleep Mode, System Settings, IO Global settings, Protocol Settings (highlighted with a red border), and Records Settings. The Protocol Settings section shows the Data Protocol set to Codec 8 Extended. The Records Settings section shows the Records Saving/Sending Without TS set to After Position Fix, Open Link Timeout (s) set to 30, Response Timeout (s) set to 30, Sort By set to Newest, Save records to set to Internal memory, Ping mode set to Disabled, and Network Ping Timeout (min) set to 60.

Section	Item	Value
Sleep Mode	Disable	GPS Sleep
	Deep Sleep	Online Deep Sleep
Timeout (min)		10
Movement Source	Ignition	Accelerometer
	GNSS	CAN Speed
GNSS Source	GPS	GLONASS
	GALILEO	BEIDOU
Battery Charge Mode	On Need	After Ignition ON
	Range 10V	Range 30V
AIN4/DOUT4 Mode	Ain4	DOUT4
	Range 10V	Range 30V
Odometer Source settings	GPS	LVCAN
	FMS	KLINE
Speed Source settings	GPS	LVCAN
	FMS	KLINE
IO Global settings	Dont Send	Send Zero
	Send Last Known Value	Send 0xFF
Protocol Settings	Codec 8	Codec 8 Extended
	After Position Fix	Always
Records Settings	Open Link Timeout (s)	30
	Response Timeout (s)	30
Records Settings	Sort By	Newest
	Save records to	Internal memory
Records Settings	Ping mode	Disabled
	Network Ping Timeout (min)	60

Step 2

Enable **DSM** RS-232 working mode via RS232/RS485 configuration tab.



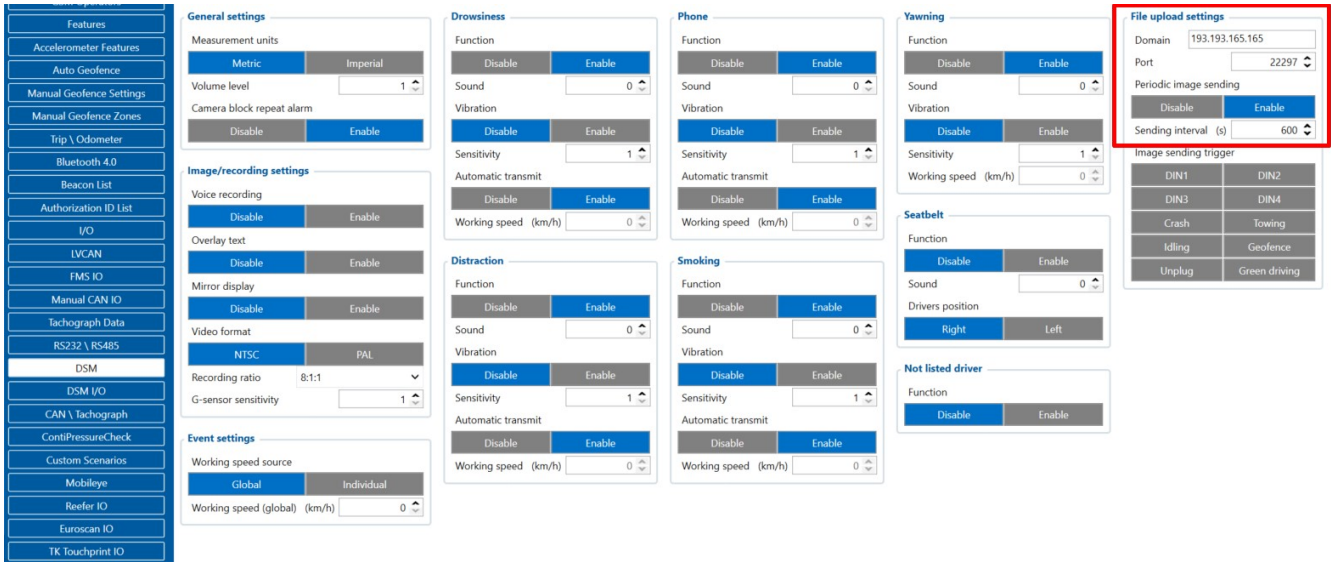
The screenshot displays the configuration interface for the DSM device. On the left is a vertical menu with various settings categories. The 'RS232 \ RS485' option is highlighted in white. To the right of the menu are two main configuration panels:

- RS485 Settings**: Contains two dropdown menus: 'Mode' set to 'Disabled' and 'Baudrate' set to 'Default'.
- RS232 Settings**: Contains two sub-sections:
 - COM1 settings**: 'Mode' set to 'Silent Mode' and 'Baudrate' set to '115200'.
 - COM2 settings**: 'Mode' set to 'Silent Mode' and 'Baudrate' set to '115200'.

Step 3

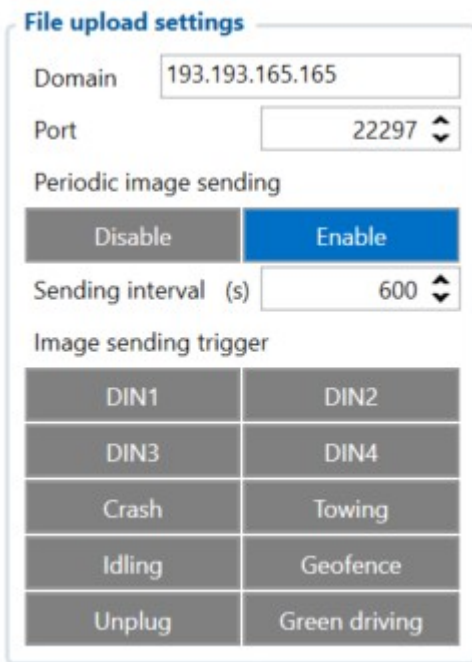
Configure IP and Port for the device to send AVL data to the Wialon and configure IP and port for photo transmission from the DSM.

Please note, that the photos transmission port is **22297**.



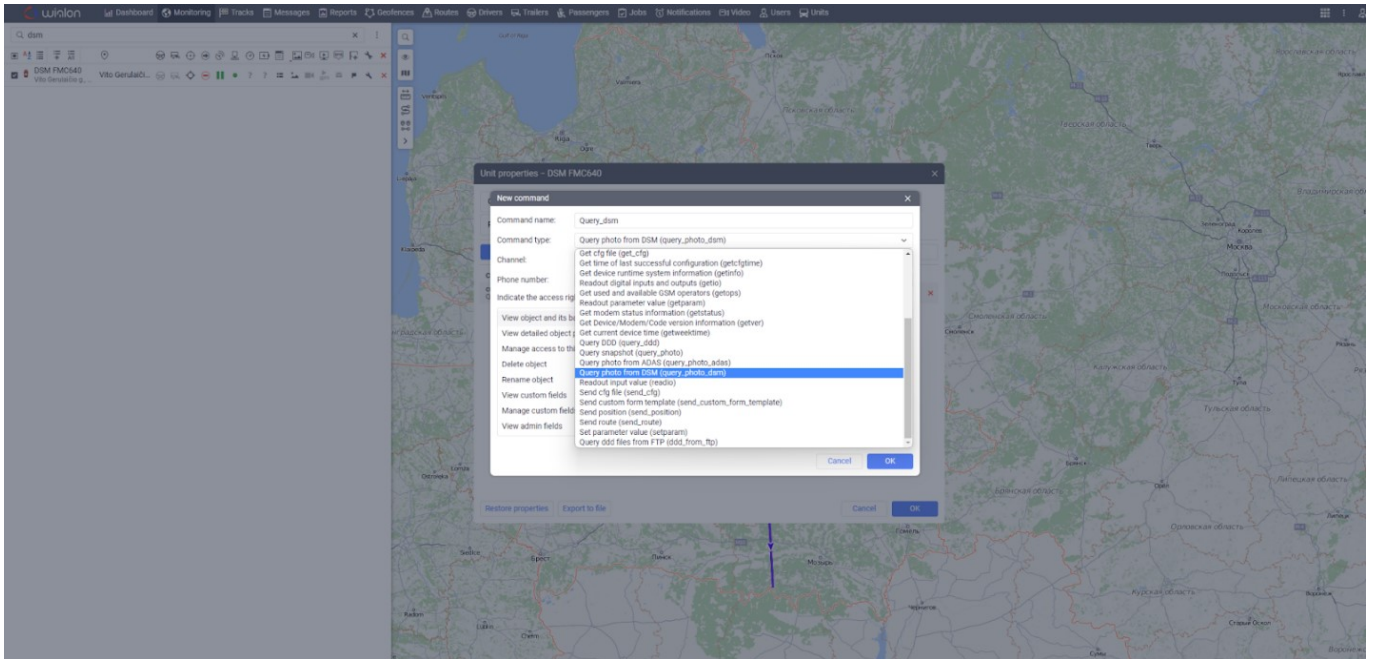
Step 4

Wialon supports both periodical and trigger-based photo reception; therefore "File upload settings" can be configured as it is required for Your use case.



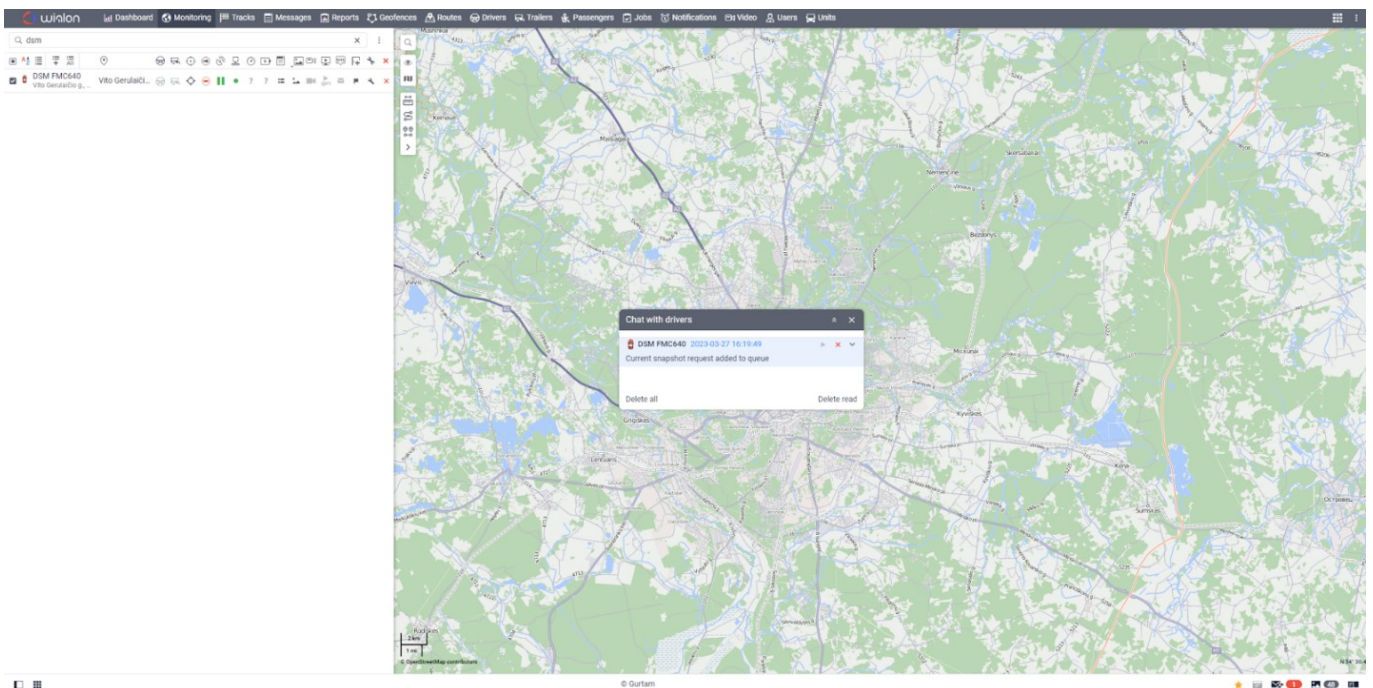
Step 5

Wialon has implemented manual photo requests. To request the photo manually, please create a command with the type "query_photo_dsm".



Step 6

After executing the command, the following response should be received: "Current snapshot request added to queue".



Step 7

After receiving the photo in the bottom-right corner notification will appear, after clicking on it, the received photo will pop-up.

