

# 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 device configuration interface. On the left is a vertical menu with various settings categories. The main area contains several configuration panels:

- Sleep Mode**: Includes 'Sleep Settings' with options for 'Disable', 'GPS Sleep', 'Deep Sleep', and 'Online Deep Sleep'. A 'Timeout (min)' is set to 10.
- System Settings**: Includes 'Movement Source' (Ignition, Accelerometer, GNSS, CAN Speed), 'GNSS Source' (GPS, GLONASS, GALILEO, BEIDOU), 'Battery Charge Mode' (On Need, After Ignition ON), 'Analog Input Value Range' (Range 10V, Range 30V), 'AIN4/DOUT4 Mode' (Ain4, DOUT4), 'Analog Input Value Range 3-4' (Range 10V, Range 30V), 'Odometer Source settings' (GPS, LVCAN, FMS, KLINE), and 'Speed Source settings' (GPS, LVCAN, FMS, KLINE).
- IO Global settings**: Includes 'IO Send Mode' with options like 'Dont Send', 'Send Zero', 'Send Last Known Value', and 'Send 0xFF'.
- Protocol Settings** (highlighted with a red box): Includes 'Data Protocol' with options 'Codec 8' and 'Codec 8 Extended'.
- Records Settings**: Includes 'Records Saving/Sending Without TS' (After Position Fix, Always), 'After Time Sync', 'Open Link Timeout (s)' (30), 'Response Timeout (s)' (30), 'Sort By' (Newest, Oldest), 'Save records to' (Internal memory, SD card), 'Ping mode' (Disabled, Empty Codec.12, 0xFF), and 'Network Ping Timeout (min)' (60).

The bottom of the interface features a blue bar with social media icons (Facebook, YouTube, Twitter, Instagram, LinkedIn, WhatsApp, Telegram) and an information icon.

## Step 2

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

The image shows a configuration interface for RS232/RS485 settings. On the left is a vertical menu with various options. The 'RS232 \ RS485' option is highlighted. The main content area is divided into two sections: 'RS485 Settings' and 'RS232 Settings'. The 'RS485 Settings' section has two dropdown menus: 'Mode' set to 'Disabled' and 'Baudrate' set to 'Default'. The 'RS232 Settings' section contains two sub-sections, 'COM1 settings' and 'COM2 settings'. Each sub-section has two dropdown menus: 'Mode' set to 'Silent Mode' and 'Baudrate' set to '115200'.

Setting	Value
Mode	Disabled
Baudrate	Default
COM1 Mode	Silent Mode
COM1 Baudrate	115200
COM2 Mode	Silent Mode
COM2 Baudrate	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**.

Features

Accelerometer Features

Auto Geofence

Manual Geofence Settings

Manual Geofence Zones

Trip \ Odometer

Bluetooth 4.0

Beacon List

Authorization ID List

I/O

I/CAN

FMS IO

Manual CAN IO

Tachograph Data

RS232 \ RS485

DSM

DSM I/O

CAN \ Tachograph

ContiPressureCheck

Custom Scenarios

Mobileye

Reeper IO

Euroscan IO

TK Touchprint IO

General settings

Measurement units

Metric Imperial

Volume level 1

Camera block repeat alarm

Disable Enable

Image/recording settings

Voice recording

Disable Enable

Overlay text

Disable Enable

Mirror display

Disable Enable

Video format

NTSC PAL

Recording ratio 8:1:1

G-sensor sensitivity 1

Event settings

Working speed source

Global Individual

Working speed (global) (km/h) 0

Drowsiness

Function

Disable Enable

Sound 0

Vibration

Disable Enable

Sensitivity 1

Automatic transmit

Disable Enable

Working speed (km/h) 0

Distraction

Function

Disable Enable

Sound 0

Vibration

Disable Enable

Sensitivity 1

Automatic transmit

Disable Enable

Working speed (km/h) 0

Phone

Function

Disable Enable

Sound 0

Vibration

Disable Enable

Sensitivity 1

Automatic transmit

Disable Enable

Working speed (km/h) 0

Smoking

Function

Disable Enable

Sound 0

Vibration

Disable Enable

Sensitivity 1

Automatic transmit

Disable Enable

Working speed (km/h) 0

Yawning

Function

Disable Enable

Sound 0

Vibration

Disable Enable

Sensitivity 1

Working speed (km/h) 0

Seatbelt

Function

Disable Enable

Sound 0

Drivers position

Right Left

Not listed driver

Function

Disable Enable

File upload settings

Domain 193.193.165.165

Port 22297

Periodic image sending

Disable Enable

Sending interval (s) 600

Image sending trigger

DIN1	DIN2
DIN3	DIN4
Crash	Towing
Idling	Geofence
Unplug	Green driving

## 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.

File upload settings

Domain 193.193.165.165

Port 22297

Periodic image sending

Disable Enable

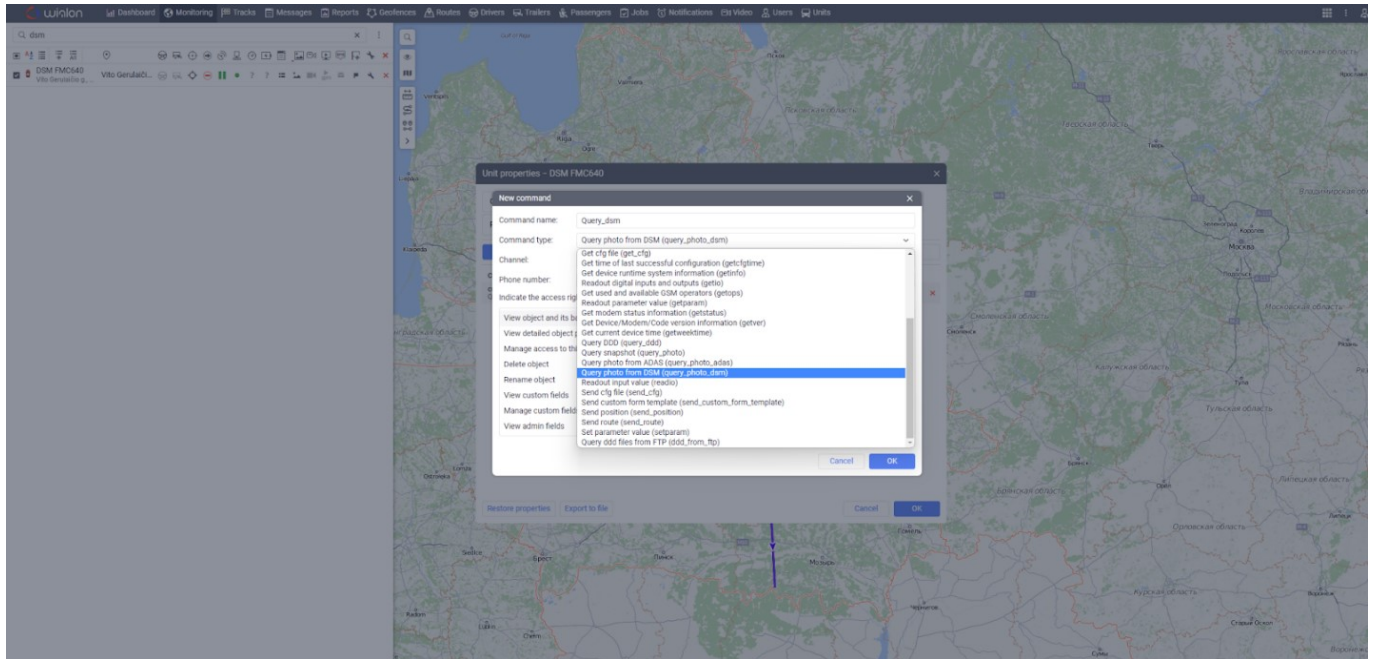
Sending interval (s) 600

Image sending trigger

DIN1	DIN2
DIN3	DIN4
Crash	Towing
Idling	Geofence
Unplug	Green driving

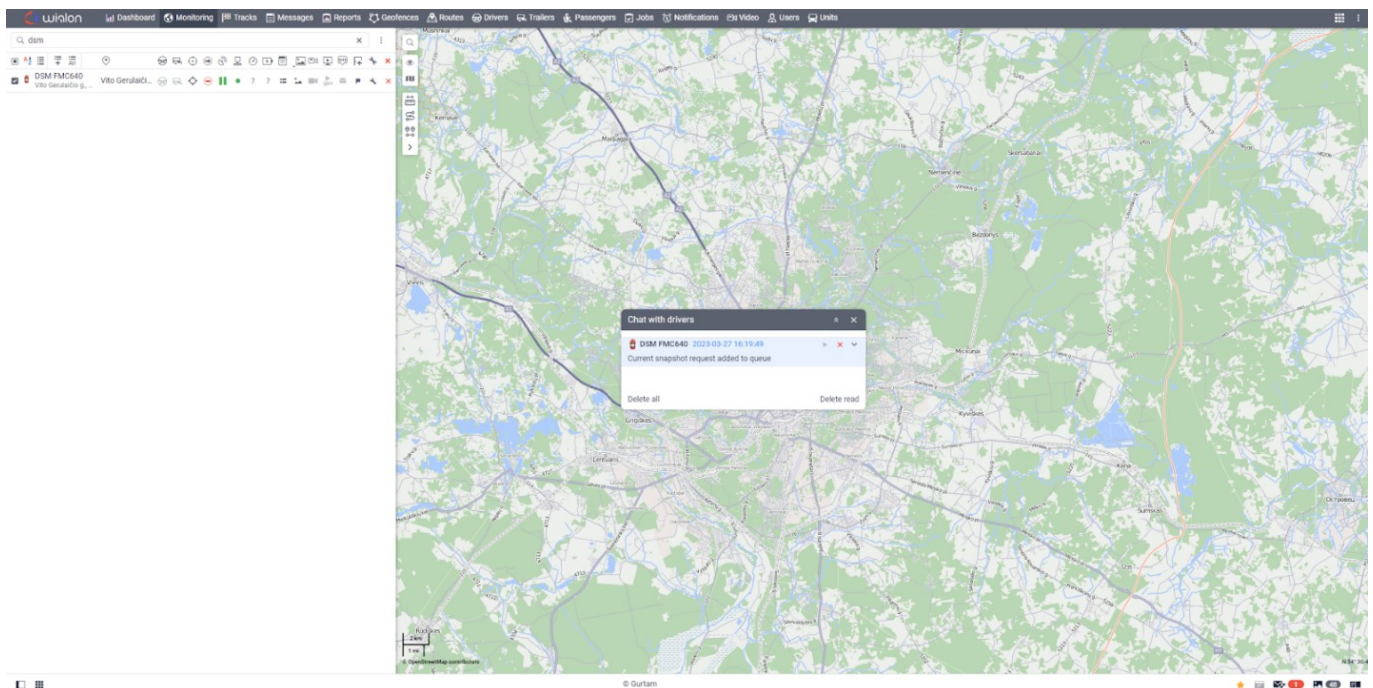
## Step 5

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.



