

How to set up Eco Driving in Wialon app

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How to set up Eco Driving in Wialon app

Solution applies for these FM devices

This solution is suitable for all devices of the FMB, FMC, FMM, FMU lines.

Eco Driving setting in the configurator

Please note that the functionality is available from firmware **Ver.03.27.XX**.

Enable parameter 258 (Eco Driving Maximum) in the configurator.



Creation of Unit sensors

To configure the Eco Driving Wialon application, you need to create Unit sensors. To do this, go to the Unit properties.



Select the sensors tab and select the "New" function.



Create a sensor based on the **io_258** parameter.

Accel_MAX

Accel_MAX sensor formula:

$$\begin{aligned} &(((\text{io_258:48} * \text{const32768}) - \\ &(\text{io_258:33} * \text{const1} + \text{io_258:34} * \text{const2} + \text{io_258:35} * \text{const4} + \text{io_258:36} * \text{const8} + \text{io_258:37} * \text{const16} + \text{io_258:38} * \text{const32} + \text{io_258:39} * \text{const64} + \text{io_258:40} * \text{const128} + \text{io_258:41} * \text{const256} + \text{io_258:42} * \text{const512} + \text{io_258:43} * \text{const1024} + \text{io_258:44} * \text{const2048} + \text{io_258:45} * \text{const4096} + \text{io_258:46} * \text{const8192} + \text{io_258:47} * \text{const16384})) * \text{io_258:48}) / \text{const1000} \end{aligned}$$


Brk_MAX

Brk_MAX sensor formula:

$$\begin{aligned} &((- \\ &(\text{io_258:33} * \text{const1} + \text{io_258:34} * \text{const2} + \text{io_258:35} * \text{const4} + \text{io_258:36} * \text{const8} + \text{io_258:37} * \text{const16} + \text{io_258:38} * \text{const32} + \text{io_258:39} * \text{const64} + \text{io_258:40} * \text{const128} + \text{io_258:41} * \text{const256} + \text{io_258:42} * \text{const512} + \text{io_258:43} * \text{const1024} + \text{io_258:44} * \text{const2048} + \text{io_258:45} * \text{const4096} + \text{io_258:46} * \text{const8192} + \text{io_258:47} * \text{const16384})) * (\text{io_258:48} - \text{const1})) / \text{const1000} \end{aligned}$$


Crn_MAX

Crn_MAX sensor formula:

$$\begin{aligned} &(- \\ &(\text{io_258:17} * \text{const1} + \text{io_258:18} * \text{const2} + \text{io_258:19} * \text{const4} + \text{io_258:20} * \text{const8} + \text{io_258:21} * \text{const16} + \text{io_258:22} * \text{const32} + \text{io_258:23} * \text{const64} + \text{io_258:24} * \text{const128} + \text{io_258:25} * \text{const256} + \text{io_258:26} * \text{const512} + \text{io_258:27} * \text{const1024} + \text{io_258:28} * \text{const2048} + \text{io_258:29} * \text{const4096} + \text{io_258:30} * \text{const8192} + \text{io_258:31} * \text{const16384})) * \text{io_258:32}) / \text{const1000} \end{aligned}$$

:26*cons

t512+io_258:27*const1024+io_258:28*const2048+io_258:29*const4096+io_258:30*const8192+io

_258:31*const16384))*(io_258:32-const1))/const1000+(((io_258:32*const32768)-

(io_258:17*const1+io_258:18*const2+io_258:19*const4+io_258:20*const8+io_258:21*const16+i

o_258:22*const32+io_258:23*const64+io_258:24*const128+io_258:25*const256+io_258:26*cons

t512+io_258:27*const1024+io_258:28*const2048+io_258:29*const4096+io_258:30*const8192+io

_258:31*const16384))*io_258:32)/const1000



Adding new criterion

After creating the sensors, go to the Eco Driving tab and add new criterion for each of the sensors. Set the values according to the screenshots:



Acceleration



Braking



Cornering



Calculation

Please note that «Calculate acceleration by: Eco Driving parameters» must be selected to calculate Eco Driving for io_258.



Eco Driving app

After completing the setup, take a test drive and view the results in the Eco Driving app:



Apps -> Eco Driving



Driving quality in the EcoDriving app

View the driver's quality in the app:

