

Configurable stationary navigation filtering

Introduction

Due to natural GNSS position drift or bad signal quality, the device may generate inaccurate coordinates while the device is actually stationary. This may result in inaccurate movement trajectories and incorrect reports. The stationary navigation filter functionality allows to solve the issue by discarding coordinates while the vehicle is not moving and can be configured according to user needs.

Compatibility

This functionality is compatible with the following FM devices with the latest firmware version:

- FM-Tco4 HCV
- FM-Tco4 LCV
- FM-Pro4
- FM-Eco4
- FM-Eco4 S
- FM-Plug4

You can get the latest firmware and configurator from our documentation website: doc.ruptela.lt

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Document change log

Date	Version	Change details
2019-01-25	1.0	Initial draft.

Configuration

Follow these steps to configure the stationary navigation filter functionality:

1. Open the FM device configurator and select your device.
2. Tick the **GPS Stationary navigation filtering** checkbox in the **Data collection** section. (*Engine Ignition(DIN4)* or *Custom* must be selected).
3. Click the **Customize** button. A new **Stationary navigation filtering** window will open.
4. Set the **Switch ON conditions** which indicate conditions when filtering enables. One following parameter is available:
 - **Delay** – for how long the engine must be turned off for the filter to be enabled. The default value is 600 seconds, the input range is from 0 to 3600 seconds.
5. Set the **Switch OFF conditions** which disable filtering when the conditions of the following parameters are met:
 - **Speed** – the minimum speed value. The **Speed duration** condition must be also met. The default value is 40 km/h, the input range is from 0 to 240 km/h.
 - **Speed duration** – for how long the speed of a vehicle is greater than or equal to the **Speed** value. The default value is 5 seconds, the input range is from 0 to 3600 seconds.
 - **Movement duration** – minimum movement duration of a vehicle. The filter is disabled if the condition is met independently of the **Speed** and **Speed duration** conditions. The default value is 240 seconds, the input range is from 0 to 3600 seconds.
 - The **High priority event** drop-down list determines if high priority events disable the filter. The default value is *Enabled*, which turns off the filter when the high priority event occurs. Selecting *Disabled* will not turn off the filter if a high priority event occurs.
6. After configuring the functionality, click the **Close** button to close the **Stationary navigation filter** window and send the configuration to the device.

