

# 04.00.00.Rev.13

## Release Notes

Date: 2025-05-26

### Release Content

This document provides the Release Notes for **04.00.00.Rev.13** firmware version. The current release includes the firmware and software package.

Package	Version	Release date
Firmware	FMB.Ver.04.00.00.Rev.13	2025-05-26
Software	Teltonika.Configurator_1.7.72_B.3.29_R.11	2025-05-26

### Key Details

Items to review before updating your devices.

Item	Description
1	<p>Firmware is recommended only for specific device models and their modifications:</p> <ul style="list-style-type: none"><li>• Basic Trackers: <b>FMB900, FMB910, FMB920, FMC920, FMM920</b></li><li>• Fast &amp; Easy Trackers: <b>FMT100, FMC880</b> (Quectel EG915U-EU), <b>FMM880, FMC800, FMM800</b></li><li>• Advanced Trackers: <b>FMB110, FMB120, FMB130, FMB202, FMB204, FMB230, FMC130</b> (MeiG SLM320-PE2C, SLM320-PE2H, SLM320-L16A, SLM320-L16B), <b>FMC230, FMC234, FMM130</b> (Quectel BG95-M3), <b>FMM230</b></li><li>• Professional Trackers: <b>FMB125, FMC125</b> (MeiG SLM320-PE2C, SLM320-PE2H, SLM320-L16A, SLM320-L16B), <b>FMC225</b></li><li>• CAN Trackers: <b>FMB140</b></li></ul>

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2	<p>Firmware has downgrade protection for all hardware:</p> <ul style="list-style-type: none"> <li>• Devices with <b>04.00.00.Rev.13</b> version cannot be downgraded to any evaluation or base versions released lower than <b>04.00.00.Rev.00!</b></li> </ul>
<p>Recommended firmware version list for other devices models and their modifications can be found in: <a href="https://wiki.teltonika-gps.com/view/Firmware_versions">https://wiki.teltonika-gps.com/view/Firmware_versions</a></p>	

## 04.00.00.Rev.13 Change List

Item	Changes	Change Type
1	<u>Major version updated to 4.0.0 and downgrade protection added</u>	New feature
2	Added support for <a href="#">FMC880</a> , <a href="#">FMM880</a>	New feature
3	Added support for <a href="#">FMC800</a> , <a href="#">FMM800</a> , <a href="#">FMM80A</a>	New feature
4	Added support for <a href="#">FMC234</a>	New feature
5	Modem recovery mechanism to address modem hangs resulting from network issues or poor signal conditions	New feature
6	Implemented support for encrypted CAN commands over Bluetooth	New feature
7	Enhanced "Advanced Unplug Detection" with additional condition options for speed and delay	New feature
8	Added Beacon option for "Authorized Read Notification" feature	New feature
9	Added Dynamic Ground vector feature for more accurate accelerometer data	New feature
10	Added "Window state" security state flag elements	New feature
11	Enabled devices to send records to a duplicate server via TCP in Codec JSON, while the primary server uses MQTT with TLS encryption	New feature
12	Enabled "Driving state" and "Driving records" I/O elements for FMC880/FMM880 devices	New feature
13	Added a DIN3 option as a trigger for outgoing calls in HF settings	New feature
14	Added "set calibration" command	New feature
15	Added a new GNSS I/O status value '4' - GNSS ON with an active GNSS filter.	New feature
16	"Stay Awake" parameter option added for "Sleep Mode"	New feature

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17	"DTC Request on Engine Start" feature to avoid conflicts with external diagnostic equipment	New feature
18	Added support of PCB temperature I/O element for devices with NTC	New feature
19	Added support for TCP BIN/ASCII data forwarding in JSON CODEC format	New feature
20	Default logging filters updated	Rework
21	Unplug detection events are allowed to be sent before device going to Low Power Mode	Rework
22	Adjusted accelerometer sensitivity to be more suitable for crash detection	Rework
23	Set GNSS jamming DOUT control to a higher priority over maintenance DOUT	Rework
24	Modifications to calibration algorithm for greater accuracy	Rework
25	BLE Advertising period changed to 500 ms	Rework
26	Refactored the Immobilizer Authorized ID checking feature	Rework
27	Conditions when device operation is prohibited updated	Rework
28	Adjusted the operator ban list logic to have a search timeout of 5 minutes and a ban time of 30 minutes	Rework
29	Incremental retry periods for AGPS EPO download to improve successful download time period	Rework
30	Program number parameter ID 11120 size increased and max value to 99999	Rework
31	Additional traces for GPS and GSM jamming status in device log	Rework
32	Enabled band 26 selection for devices equipped with Quectel BG95-M3 modems	Rework
33	Adjusted battery percentage table for FMC234	Stability
34	Resolved issue where MCC calculation was done incorrectly forcing device to enter blocked state	Stability
35	DualSIM switching process speed adjusted for devices with MeiG modems	Stability
36	Improved socket status reading for BG9X modems to correctly handle data sending if socket is closed	Stability
37	Corrected the byte inversion issue in 1-Wire Matrix (ReadROM) ID parsing	Stability
38	Device abnormal working with dynamic bt name when	Stability

	using value of 16 characters with %imei function resolved	
39	Addressed issues where the device behaved abnormally after receiving a #FWD DAT command with the target set to Bluetooth and a NULL payload	Stability
40	Fine-tuned the parsing for start and end delimiters in RS232 Delimiter mode to enhance functionality	Stability
41	Fixed an issue where high priority records were not sent if a call was triggered by a feature activation	Stability
42	Resolved an issue where link was not close properly sometimes after sending a record in Low Power Mode	Stability
43	Enhanced the retry mechanism for SIM PIN entries if the initial attempt was unsuccessful	Stability
44	Adjusted the saving of the Digital Output state post-firmware update when the inverted mode is selected	Stability
45	Enabled missing CAN RSF parameters	Stability
46	Resolved unexpected wake-ups from sleep due to repeated time-sync issues and server failures to close sockets correctly	Stability
47	Patched the fail count algorithm for 1-wire data reading to improve stability	Stability
48	Disallowed GSM updates during server response wait periods to prevent duplicate record sending in online deep sleep mode	Stability
49	Removed disallowed MCCs (250, 257, 432, 368, 467) from the APN list	Stability
50	Improved parsing of VIN and Trailer VIN values	Stability
51	Resolved EYE Sensor filtering issue by MAC or Name when configuration parameter "Identifier" was changed	Stability
52	Resolved an issue where UL202 record value was incorrectly parsed in device logs	Stability
53	Changed the BLE advanced data offset type to signed to correct inaccuracies when negative offsets were used	Stability
54	Updated the DOUT control from the Ignition FSM to prevent feature bypass when switching ignition on and off within 1 second	Stability
55	Adjusted the conversion of EYE "Major" and "Minor" values, ensuring data is packed according to Bigger Endian format when "Lost&Found" record are generated	Stability

56	Corrected a typographical error in the Ivcngetinfo response	Stability
57	Resolved an issue where the device was unable to enter sleep mode due to an NTP sync being stuck	Stability
58	Fixed an issue where the first GPRS command was ignored after the device connected to a Backup Server	Stability
59	Resolved an issue where DTC fault codes were not correctly packed into records for some EV and Hybrid vehicles	Stability
60	Improved SIM switch logic in devices equipped with Quectel modems	Stability
61	Removed an unnecessary filter for the instant movement element status	Stability
62	Resolved an issue where private/business mode was not functioning according to the weekly schedule	Stability
63	Improved device stability when NMEA logging is enabled via RS232 at 9600 baud	Stability
64	Enhanced device stability when a 2kHz signal is detected by the device using "Advanced Pulse Counter" feature	Stability
65	Resolved an issue where 2G devices could not open a socket for a period after disconnecting from the network due to poor network conditions	Stability
66	Resolved an issue where duplicate records were created if UART communication with the modem stopped working while the device was in GNSS/ODS sleep mode and USB was connected	Stability
67	Improved the handling of the socket closing for devices with MeiG modules when TLS and Deep Sleep are used	Stability
68	Improved the stability of OBD dongle data reading after a Bluetooth module restart	Stability
69	Resolved an issue where the device would sometimes fully wake up from Deep Sleep due to periodic record sending	Stability
70	Resolved an issue where the "Advanced Pulse Counter" parameter ID 145 would not reset to default settings via configurator	Stability
71	Resolved an issue where EYE Beacon flag 27 data voltage and temperature values was not included not into record when "Beacon Simple" mode was used	Stability
72	Improved the accuracy of device tracking location in	Stability

	"Low Power Mode"	
73	Resolved an issue where the getinfo response was split into several SMS messages	Stability
74	Improved device stability when Private Mode is triggered by Virtual DIN2	Stability
75	Resolved an issue where firmware downloads would interrupt frequent record sending for devices with MeiG modules	Stability
76	EYE sensors status are now shown correctly in device logs	Stability
77	Resolved an issue where on random cases, a trip end event was received with the trip odometer already reset to 0	Stability
78	Adjusted so that the movement off timeout would not reset after device restart	Stability
79	Disabled unnecessary tasks to decrease current consumption in UDS mode	Stability
80	Resolved an issue where the WD counter was not functioning as expected in ODS mode	Stability
81	Reduced the delay for Immobilizer activation after waking up from sleep	Stability
82	Resolved an issue where the GNSS module would not return to operation after being jammed	Stability
83	Resolved an issue where the program number could not be changed sometimes with an SMS command	Stability
84	Applied a patch to support APDU commands, preventing connectivity issues when the device uses specific SIMs and crosses borders	Stability
85	Ensured odometer values are saved after a fix loss to prevent resetting when the device powers off	Stability
86	Applied a patch so that timestamps in crash traces are calculated relative to the crash event, preventing trace damage if a time jump occurs during a crash	Stability
87	Applied a patch to improve Bluetooth interface stability when detecting a large number of Beacons	Stability
88	Resolved an issue where the "On-Demand Tracking", "Activation By" parameter ID 10992 would not reset to default via configurator	Stability
89	Resolved an issue where EYE sensor I/O values would be included in the record even if the "Working Mode"	Stability



	parameter was configured as "Disabled"	
90	Movement will be accurately detected after the movement detection delay period, and not simultaneously with towing detection when it is activated	Stability
91	Resolved an issue where the Immobilizer would not retrigger the Digital output immediately if the ignition was turned on for shorter than 1 second	Stability
92	Adjusted the btgetlist 3 command to return a full scanned object list	Stability
93	Resolved an issue where the "Odometer Calculation Source" parameter ID 11806 did not reset back to the default value when the configuration was reset	Stability
94	Resolved an issue where Beacon info remained visible in the configurator UI even when detection was disabled	Stability
95	Resolved an issue where the TTFF (Time to First Fix) result was sometimes reported as 0 even though a fix was acquired	Stability
96	Resolved an issue where the Digital Output was not activated by the "Immobilizer" scenario when the "Ignition Off timeout" was set to longer than the "Sleep Timeout"	Stability
97	Implemented a minor interface control tweak for 1-wire interface stability	Stability
98	Removed unnecessary spam from device log prints	Stability
99	Corrected the behavior to stop advertising BLE packets once a connection is established	Stability
100	Resolved an issue where the device's 1-Wire interface functioned incorrectly if the 1-Wire in Sleep mode parameter value changed while the device was in sleep mode	Stability
1011	Resolved an issue where fake movement was detected due to incorrect GNSS speed data acquired from the GNSS module	Stability
102	Tweaked the BLE GATTS disconnect process to enable correct disconnection	Stability
103	Resolved an issue where devices in Deep Sleep mode would sometimes fail to report the disconnected status using MQTT	Stability
104	Resolved an issue where devices with MeiG modules	

	would repeat a call after the first one was rejected	
105	Resolved an issue where the Authorization ID List check by Beacon could not be configured for FMX1XY devices	Stability
106	Inverted DOUT state no longer resets after a soft reset	Stability
107	Resolved an issue where movement delay was not resetting correctly if the movement state changed	Stability
108	Device external module startup time improved when waking from ODS	Stability
109	Resolved an issue where logging to dump would stop after a soft reset.	Stability
110	Resolved an issue where the FMX880 device would lose fix for a short amount of time	Stability
111	Adjusted Watchdog behavior when the device is still connected to a network operator	Stability
112	Beacon record generation now properly waits for the Bluetooth stabilization period	Stability
113	Resolved an issue where devices with a Quectel module would save an incorrect timestamp when waking from GNSS sleep mode	Stability
114	Resolved an issue where entering the Features paragraph in the configurator sets a new value for parameter 11703	Stability
115	SIM detection and reading time improved for devices with Quectel BG95-M3 modules Improved battery percentage reading for FMB204 devices	Stability
116	Adjusted communication with AG3335 to fix issues where FMX880 devices would sometimes take a longer period to acquire a GNSS fix	Stability
117	Resolved an issue where the modem was not starting as expected when the device initiated record sending in Low Power mode	Stability

For any additional questions on firmware updates and changes, please make sure to contact your Teltonika sales representative or create a consultation ticket for Teltonika support via Helpdesk system.

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