

# Stable Firmware & Software CHANGELOG

Select the needed category:

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OBD Trackers	CAN Trackers & Adapters	Professional Trackers	<a href="#">E-Mobility Trackers</a>	Video Solutions

## E-Mobility Trackers

### TFT100

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
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**55.02.03.Rev.0** 2024-01-1  
**6** 5  
**1.7.66\_B.55.2\_**  
**R.11**

- [ADD] Added CAN Debug feature and CAN Log parameter
- [CHN] Increased DOUT duration limit for Overspeeding, Green Driving, Idling features
- [ADD] Added Odometer parameter for UART, RS232 and RS485
- [REM] Removed CAN and RS485 termination resistor management parameter
- [FIX] Fixed Askoll CAN protocol charge voltage and current I/O parameters visibility, removed malfunction indication I/O
- [FIX] Fixed FLEX CAN protocol parameters duplication
- [ADD] Added Ignition ON Counter feature
- [ADD] Added Separate Manual CAN I/O Reset feature and related parameters
- [CHN] Reduced max sensor size to 64 bytes
- [CHN] Moved Manual CAN baudrate parameter to main CAN I/O section
- [CHN] Changed Manual CAN Settings table and simplified CAN protocol settings
- [CHN] Changed device Wiki links to Teltonika-gps
- [FIX] Fixed BLE Custom I/O Low level maximum value to match valid range by firmware
- [REM] Removed wrong parameter (ID: 740 and 741) tool tips
- [ADD] Added Eye Sensors support
- [FIX] Fixed Roaming/Blacklist CSV file import
- [FIX] Fixed Manual CAN request period max range
- [REM] Removed Manual CAN and Manual J1939 parameters option to leave empty field
- [ADD] Added High resolution vehicle distance and Trip Distance CAN ID and I/O to Default J1939 protocol
- [ADD] Added new Askoll CAN protocol I/O's
- [CHN] Changed Manual CAN Commands interface to table
- [REM] Removed ISO6709 I/O
- [FIX] Fixed Tool Tips inaccuracies
- [FIX] Fixed Online vs Offline configuration discrepancies
- [CHN] Changed Manual CAN I/O and Ignition range Low and High level maximum value range
- [FIX] Fixed J1939 Source Address maximum address to 253
- [FIX] Fixed UART Battery temperature Low level maximum value range
- [FIX] Fixed Ultra Deep Sleep naming mismatch
- [ADD] Added SMS Events functionality
- [FIX] Fixed auto answer (HF) wrong parameter values
- [REM] Removed RS485 Mode selection duplication
- [CHN] Increased DOUT duration limit for Overspeeding, Green Driving, Idling features
- [ADD] Added CAN Debug feature
- [CHN] Changed 0% battery level voltage to 3.3V
- [ADD] Added battery percentage level to battery info SMS
- [ADD] Added Ignition ON Counter feature
- [ADD] Added protection against network stuck reset when device is working from battery and immobilizer scenario might be activated
- [CHN] Improved CAN data reading operation for each available CAN protocol
- [ADD] Added CAN chip sleep when external power is not available or device is in Ultra Deep Sleep
- [ADD] Added Separate Manual CAN I/O Reset feature
- [ADD] Added new Askoll CAN I/O's
- [ADD] Added watchdog timer for CAN task
- [CHN] Improved DOUT control during device's boot-up
- [FIX] Fixed incorrect CAN SMS/GPRS AVL response
- [ADD] Added High resolution vehicle distance and Trip Distance CAN ID and I/O to Default J1939 protocol
- [REM] Removed ISO6709 I/O
- [FIX] Fixed ignition detection with power voltage higher than 65V
- [FIX] Fixed CAN and UART I/O low level range values
- [ADD] Added SMS Events functionality
- [FIX] Fixed AVL ID 239 (Ignition) value not updating in records
- [FIX] Fixed Auto Geofence text field parameter resetting after device reboot
- [ADD] Added Eye Sensors support
- [CHN] Changed CAN None protocol operation - CAN is not configured, CAN task suspended
- [CHN] Reduced 1-Wire startup delay after wake up from UDS
- [ADD] Added DIN2 status to getio command
- [FIX] Fixed setdigout speed command when GNSS fix is not available

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
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- [CHN]: Changed Default and Minimum CAN Command period. Changed tooltips.
  - [ADD]: Add timestamp backup description
  - [CHN]: Corrected misleading and outdated tooltips
  - [CHN]: Changed TFT100 default configuration.
  - [ADD]: Added [CAN I/O reset](#) parameter.
  - [ADD]: Govecs FLEX (TFT100) changes were merged into 7.0.33 version.
  - [ADD]: Added AES128 BLE encryption KEY parameter
  - [CHN]: Updated tooltip description for DOUT Deactivation Via DIN
  - [FIX]: Fixed BLE Sensor Custom IO SMS sending with value NaN and displaying as ASCII in Configurator.
  - [FIX]: Fixed device constantly opening and closing GPRS with permanent link if APN is empty in configurator.
  - [FIX]: Fixed permanent link not changing protocol after reconfiguration.
  - [CHN]: Updated FOTA WEB protocol ID 0x04 => 0x05
  - [FIX]: Increased connection interval in order to speed up connection through BLE terminal.
  - [FIX]: Fixed POSI command skipping.
  - [FIX]: Fixing network stability issues.
  - [FIX]: Fixed timestamp not renewing for Eddystone beacons.
  - [FIX]: Added condition to prevent closing socket, if GPRS command is received and response was not sent yet.
  - [FIX]: Fixed issue, when after pin reconfiguration from DOUT to DIN, DOUT stays ON.
  - [FIX]: Fixed periodic CAN command message disabling.
  - [FIX]: Fixed Flex CAN protocol reading 0 values after power is cut off.
  - [FIX]: Fixed Manual CAN commands periodical sending.
  - [CHN]: Changed TFT100 default configuration.
  - [CHN]: Increased external queue size to prevent abnormal restarts during BLE scan.
  - [ADD]: Added [Reset CAN IO values](#) parameter.
  - [FIX]: Fixed CAN message sending irregularities.
  - [FIX]: Fixed J1939 CAN reading recovery after external power is off.
  - [ADD]: Added priority for charger control factory command.
  - [FIX]: Fixed a broken GSM connection due to incorrect SIM card selection.
  - [FIX]: Fixed FOTA WEB fail when the files requested for download do not exist.
  - [FIX]: Fixed lost BLE AES encryption key after reboot.
  - [ADD]: Merged Govecs FLEX changes into base. New configuration 7.0.33 created also.
  - [FIX]: Fixed DOUT delay after ignition detection.
  - [FIX]: Fixed Manual CAN Ignition and Speed I/O's timeout issue
  - [FIX]: Fixed Manual CAN Speed Source I/O's Speed Offset min/max values
  - [ADD]: Added AES128 BLE encryption functionality
  - [FIX]: Fixed Manual CAN I/O triggers with configured operands
  - [FIX]: Fixed GPRS commands sending with TLS encryption
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VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>55.01.02.Rev.02</b> <b>1.6.11_R.30</b>	2021.11.03	<ul style="list-style-type: none"> <li>Parameters for Ignition, Speed extraction from manual CAN messages added.</li> <li>Added immobilizer functionality which is not dependent on ignition.</li> <li>GNSS source parameter mask changed to allow only valid GNSS modes.</li> <li>FLEX protocol functionality added.</li> <li>Manual CAN Commands functionality moved to separate tab.</li> <li>120 Ohm resistor settings added for CAN, RS485 variants.</li> <li>Last known position parameter added.</li> <li>PDOP filter parameters added.</li> </ul>	<ul style="list-style-type: none"> <li>Fixed FW up/downgrade for TFT CAN devices with new Flash component.</li> <li>SMS commands updated. Commands will return time with time zone applied.</li> <li>Fixed minus temperature calculation.</li> <li><a href="#">PDOP filter</a> added.</li> <li>Movement detection tracking fixed.</li> <li>GNSS source parameter only available value can be set.</li> <li>Added Backup tracker scenario.</li> <li>Added <a href="#">speed, ignition source</a> manual CAN functionality.</li> <li>Added immobilizer functionality which is not dependent on ignition.</li> <li>Updated Manual CAN IO value display. The value is cleared after configuration changed.</li> <li>Added <a href="#">FLEX protocol</a> support.</li> <li>Added a time guard if BLE scan job is stuck.</li> <li>Fixed external voltage value representation in battery SMS command response.</li> <li>Added <a href="#">120 Ohm resistor support</a>.</li> <li>Added <a href="#">Last known position</a> parameter added.</li> </ul>
<b>55.00.14.Rev.00</b> <b>1.6.11_R.19</b>	2021.02.03	<ul style="list-style-type: none"> <li>Parameter order in IO section was updated.</li> <li><a href="#">Timestamp backup</a> functionality added.</li> <li>Added possibility to include additional IOs to eventual crash record.</li> <li>Added Endianness, Payload and RTR options to Manual CAN settings.</li> </ul>	<ul style="list-style-type: none"> <li>Added possibility to include additional IOs to eventual crash record</li> <li>Fixed DOUT state after immobilizer.</li> <li>Fixed double iButton scanning issue for immobilizer after sleep.</li> <li>Fixed Crash event value.</li> <li>Added battery percentage value to the SMS</li> <li>Increased compatible beacons count from 25 to 100.</li> <li>Fixed memory leak, when the GPS module is turned on and off frequently.</li> <li>Timestamp backup functionality added.</li> <li>Improved Manual CAN data reading.</li> <li>Beacon detection regarding the timestamp for immobilizer functionality, minimal ignition tmo changed to 5s.</li> <li>Added <i>Request DA</i> parameter to Manual J1939 (availability to send request to specific address).</li> <li>Added <i>Payload</i> and <i>RTR</i> parameters to Manual CAN (availability to send requests with data).</li> <li>Option to start Manual CAN commands on startup was added.</li> <li>Added command <code>.can_dbg:&lt;1/0&gt;</code>, which turn on/off the additional CAN debug functionality.</li> </ul>

<b>55.00.09.Rev. 08</b> <b>1.6.11_R.14</b>	2020.10. 16	<ul style="list-style-type: none"> <li>• Added BMS2 I/O parameters to Bosch CAN protocol;</li> <li>• Added DOUT control via Ignition feature;</li> <li>• Added Manual J1939 protocol;</li> <li>• Added permanent link with server feature;</li> <li>• Added Manual CAN commands functionality;</li> <li>• Added Falldown functionality with autocalibration;</li> <li>• Added Battery level I/O parameter;</li> <li>• Added Battery Charge Mode feature;</li> <li>• Added Beacon selection with Immobilizer feature;</li> <li>• Added functionality to hide DOUT selection near all features if DIN is selected;</li> <li>• Added Manual CAN feature;</li> <li>• Added Default J1939 protocol support with it's I/O parameters.</li> </ul>	<ul style="list-style-type: none"> <li>• Added <a href="#">permanent link with server</a> feature;</li> <li>• Added <a href="#">Manual J1939</a> protocol support;</li> <li>• Improved CAN functionality regarding abnormal restart issue;</li> <li>• Added <a href="#">DOUT control via Ignition</a> feature;</li> <li>• Added e-floater (UART) e-scooter support;</li> <li>• Added BMS2 I/O parameters to <a href="#">Bosch CAN protocol</a>;</li> <li>• Implemented <a href="#">EMCO CAN SMS/GPRS commands</a> (used with Manual CAN protocol);</li> <li>• Improved instant movement calculation in Deep Sleep mode;</li> <li>• Added <a href="#">Manual CAN commands</a> functionality;</li> <li>• Added Govecs e-scooter Bosch protocol lock/unlock/setdigout multi commands;</li> <li>• Added Govecs e-scooter Bosch protocol lock/unlock/openbox CAN commands;</li> <li>• Improved Immobilizer functionality with relay;</li> <li>• Updated Super Soco RS485 SMS response text;</li> <li>• Added <a href="#">Falldown</a> functionality with autocalibration;</li> <li>• Added RS485 restart timeout if no status data is received from Super Soco e-scooter;</li> <li>• Added <a href="#">Manual CAN</a> functionality;</li> <li>• Added <a href="#">Default J1939</a> protocol support;</li> <li>• Added <a href="#">Govecs Schwalbe e-scooter CAN SMS/GPRS commands</a> (used with Bosch CAN protocol).</li> </ul>
<b>55.00.08.Rev. 03</b> <b>1.5.15_C.003</b>	2020.04. 10	<ul style="list-style-type: none"> <li>• Optimized Digital Output tool tips;</li> <li>• Optimized UART panel title to be more accurate;</li> <li>• Removed duplicated I/O parameters;</li> <li>• Added RS485 Super Soco protocol;</li> </ul>	<ul style="list-style-type: none"> <li>• Added wake up via DIN1 in Ultra Deep Sleep mode functionality;</li> <li>• Added GoUrban RS485 protocol for Super Soco e-scooter;</li> <li>• Added new TFT100 hardware support;</li> </ul>

<b>55.00.06.Rev.01</b> <b>1.5.0_C.007</b>	2020.02.07	<ul style="list-style-type: none"> <li>• Implemented an option to select Analog Input Value Range;</li> <li>• Optimized default configuration;</li> <li>• Added DOUT Control Via Call feature;</li> <li>• Added iButton Read Notification and Immobilizer feature;</li> <li>• Added On Demand Tracking feature;</li> <li>• Added new Ignition Source parameters - Accelerometer, DIN1, Power Voltage, CAN;</li> <li>• Implemented DIN/DOUT selection ability;</li> <li>• Added Bosch CAN Powertrain and Askoll protocol selection and I/O's;</li> <li>• Added TFT100 hardware support;</li> </ul>	<ul style="list-style-type: none"> <li>• Optimized Askoll specific commands;</li> <li>• Optimized CAN chip and NAND SPI Chip select synchronization;</li> </ul>
<b>55.00.05.Rev.00</b> <b>1.6.11_R.X</b>	2020.01.17		<ul style="list-style-type: none"> <li>• Optimized iButton Read Notification feature;</li> <li>• Added DOUT Control Via Call and iButton features;</li> <li>• Added Immobilizer scenario;</li> <li>• Added DOUT Control via Call scenario;</li> <li>• Added new Ignition Source parameters - Accelerometer, DIN1, Power Voltage, CAN;</li> <li>• Implemented the ability to configure DIN/DOUT;</li> <li>• Added FOTA WEB support;</li> <li>• Added Askoll related SMS commands - askoll_unlock, askoll_horn, askoll_tc;</li> <li>• Optimized data reading through CAN interface;</li> <li>• Implemented Bosch CAN Powertrain and Askoll protocols;</li> <li>• Added DOUT protection;</li> <li>• Added base functionality for all modifications;</li> <li>• Added TFT100 hardware support;</li> </ul>

## TST100

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
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55.01.10.Rev. 00 1.6.11 R.39	2022.09.12	<ul style="list-style-type: none"> <li>• [ADD]: Added timestamp backup description.</li> <li>• [CHN]: Corrected misleading and outdated tooltips.</li> <li>• [ADD]: Added Hergele scooter protocol.</li> <li>• [ADD]: Added <a href="#">SIM card tamper protection</a> feature.</li> </ul>	<ul style="list-style-type: none"> <li>• [FIX]: Fixed BLE Sensor Custom IO SMS sending with value NaN and displaying as ASCII in Configurator.</li> <li>• [FIX]: Fixed device constantly opening and closing GPRS with permanent link if APN is empty in configurator.</li> <li>• [FIX]: Fixed permanent link not changing protocol after reconfiguration.</li> <li>• [CHN]: Updated FOTA WEB protocol ID 0x04 =&gt; 0x05</li> <li>• [FIX]: Increased connection interval in order to speed up connection through BLE terminal.</li> <li>• [FIX]: Fixed POSI command skipping.</li> <li>• [FIX]: Fixing network stability issues.</li> <li>• [FIX]: Fixed timestamp not renewing for Eddystone beacons.</li> <li>• [FIX]: Added condition to prevent closing socket, if GPRS command is received and response was not sent yet.</li> <li>• [ADD]: Added <a href="#">SIM card tamper protection</a> feature.</li> <li>• [ADD]: Added BT whitelist for Solebe lock.</li> <li>• [ADD]: Hergele scooter support added.</li> <li>• [CHN]: Increased external queue size to prevent abnormal restarts during BLE scan.</li> <li>• [FIX]: Fixed a broken GSM connection due to incorrect SIM card selection.</li> <li>• [ADD]: HeadLight status in Scooter IO added</li> </ul>

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
55.01.02.Rev. 01 1.6.11_R.30	2021.11.03	<ul style="list-style-type: none"> <li>• Changed SMS Timezone label.</li> <li>• GNSS source parameter mask changed to allow only valid GNSS modes.</li> <li>• Changed scooter speed limits IOs high/low ranges and default values.</li> <li>• Added Segway Cable Lock I/O elements.</li> <li>• Changed unauthorized movement buzzer control default values.</li> </ul>	<ul style="list-style-type: none"> <li>• SMS commands updated. Commands will return time with time zone applied.</li> <li>• Added Segway wired lock support.</li> <li>• Movement detection tracking fixed.</li> <li>• For GNSS source parameter only available values can be set.</li> <li>• Fixed Unauthorized Movement event SMS sending.</li> <li>• Fixed record generation with correct AVL ID for Unauthorized Movement.</li> </ul>



<b>55.00.22.Rev.00</b> <b>1.6.11_R.27</b>	2021.08. 23	<ul style="list-style-type: none"> <li>• Changed GNSS source parameter mask to allow only valid GNSS modes.</li> <li>• Changed scooter speed limits IOs high/low ranges and default values.</li> <li>• Changed Data Acquisition tool tips and labels.</li> <li>• Added Falldown auto calibration parameter.</li> <li>• Added <a href="#">Unauthorized movement</a> functionality.</li> <li>• Added <a href="#">Last known position</a> parameter.</li> <li>• Fixed GPS automatic always ON at the start.</li> <li>• Updated function to wake up the device if it is moved during "Data sending state".</li> <li>• Fixed I/O Sleep mode element to send an event messages on entering the mode.</li> <li>• Added <a href="#">Last known position</a> parameter.</li> <li>• Added <a href="#">pulsedigout</a> command with on/off timeouts in ms and repeats.</li> <li>• Fixed GNSS Fix status always on after changing GNSS source.</li> <li>• Updated restricted I/Os by scooter model and fixed battery lock status value.</li> <li>• Added <a href="#">Unauthorized movement</a> functionality.</li> <li>• Added Falldown auto calibration support for TST100.</li> <li>• Changed Battery value SMS text format changed to unsigned int.</li> <li>• <b>Added Segway MAX autodetection and MC FW update.</b></li> <li>• <b>Added Segway ES autodetection and MC FW update.</b></li> <li>• Fixed periodic data record generation in order to avoid skipping.</li> <li>• Updated Segway ES2/4 FW (ESC 4.0.5).</li> <li>• Added a time guard if BLE scan job is stuck.</li> <li>• Fixed Unauthorized Movement event SMS sending.</li> <li>• Fixed record generation with correct AVL ID for Unauthorized Movement.</li> <li>• Fixed ext voltage value representation in battery SMS command response.</li> <li>• Fixed scooter speed limits IOs hi/lo ranges check.</li> <li>• Fixed unauthorized movement buzzer control using default values.</li> </ul>
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<b>55.00.14.Rev.</b> <b>00</b> <b>1.6.11_R.19</b>	2021.02. 03	<ul style="list-style-type: none"> <li>• Added Baudrate options.</li> <li>• Added Battery lock status Scooter IO element.</li> </ul>	<ul style="list-style-type: none"> <li>• Added battery percentage value to the SMS.</li> <li>• Increased compatible beacons count from 25 to 100.</li> <li>• Fixed memory leak, when the GPS module is turned on and off frequently.</li> <li>• Changed scooters' IOs filtering depending on protocol.</li> <li>• Fixed locking behavior during ride.</li> <li>• Improved Movement detection.</li> <li>• Segway MAX MC FW was updated to 21.1.0.</li> <li>• Added Baudrate options.</li> <li>• Fixed temperature and FW version reading in FitRider e-kick scooters.</li> <li>• Fixed speed limit function. Added command <i>scsetspdlimt2s</i> for FitRider T2s e-kick scooters.</li> <li>• Added debug option for sending/receiving FitRider data packets.</li> <li>• Segway MAX scooters locking sequence changed: when scooter is moving and command to lock the scooter was received, the engine is turned off and after the scooter is fully stopped it is locked.</li> <li>• Added Battery Lock control command and Battery lock status IO element.</li> </ul>
<b>55.00.09.Rev.</b> <b>08</b> <b>1.6.11_R.14</b>	2020.10. 16	<ul style="list-style-type: none"> <li>• Updated scooter's FW rendering in E-Scooter I/O panel from DEC to HEX;</li> <li>• Added permanent link with server feature;</li> <li>• Removed accelerometer's autocalibration parameter;</li> <li>• Added 3 new I/O parameters - Normal/Eco/Sport speed limit;</li> <li>• Added BT Status I/O parameter;</li> </ul>	<ul style="list-style-type: none"> <li>• Improved BLE lock functionality;</li> <li>• Added 3 new I/O parameters - Normal/Eco/Sport speed limit;</li> <li>• Updated Segway MAX kick e-scooter's MC FW version checking functionality;</li> <li>• Updated <i>scgetbtcode</i> and <i>sclookfor</i> commands;</li> <li>• Added BT Status I/O parameter;</li> <li>• Updated Segway MAX MC and BMS FW versions to 21.0.7 and 3.5.6 correspondingly;</li> <li>• Removed Segway scooter's model detection based on serial number. <b>Make sure to always select the correct scooter's protocol!</b></li> <li>• Added SMS/GPRS command for packet's logging - <i>scdbg &lt;arg&gt;; &lt;arg&gt; = 1 - enable, 0 - disable;</i></li> <li>• Updated <i>scbuzzerctrl</i> command functionality with Xiaomi kick e-scooter;</li> <li>• Updated battery overheat detection.</li> </ul>
<b>55.00.09.Rev.</b> <b>1</b> <b>1.6.11_R.8</b>	2020.06. 16	<ul style="list-style-type: none"> <li>• Added permanent link with the server feature</li> <li>• Implemented Solebe Y905 Bluetooth lock feature with required parameters (Lock status, Lock battery)</li> <li>• Minor changes</li> </ul>	<ul style="list-style-type: none"> <li>• Implemented permanent link with server functionality;</li> <li>• Added Solebe Y905 Bluetooth lock support;</li> <li>• Minor changes;</li> </ul>

# Autonomous Trackers

## TMT250

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
55.02.03.Rev.05 1.7.66 B.55.2 R.10	2024-01-30	<ul style="list-style-type: none"><li>• [CHN] Added new AVL ID's SMS events tab</li><li>• [FIX] Fixed Online vs Offline configuration discrepancies</li><li>• [FIX] Fixed Ultra Deep Sleep naming mismatch</li><li>• [FIX] Fixed Tool Tips inaccuracies</li><li>• [ADD] Added EYE Sensors support settings and filtering by sensors name and MAC address</li><li>• [CHN] Changed device wiki links to teltonika-gps</li><li>• [CHN] Moved EYE Sensor I/O settings to Bluetooth 4.0 tab</li><li>• [FIX] Fixed Roaming operator/Operator Black List .csv file importing</li><li>• [FIX] Fixed Maximum GPS Satellites Quantity parameter (ID: 906) value</li><li>• [ADD] Added configurable accelerometer sensitivity settings</li><li>• [ADD] Added continuous battery charging mode</li><li>• [CHN] Changed minimum BLE scan start period value</li></ul>	<ul style="list-style-type: none"><li>• [CHN] Added possibility to send SMS AVL ID event to few numbers</li><li>• [FIX] Fixed sensors scanning issue, then Beacon Detection is Disabled or set to beacons No Send mode.</li><li>• [ADD] Added CSQ level parameter</li><li>• [ADD] Added , shutdown' SMS/GPRS command to power off device</li><li>• [FIX] Added configurable accelerometer sensitivity options in sleep mode</li><li>• [FIX] Fixed ,btgetlist 3' SMS command</li><li>• [FIX] Changed battery voltage measurement and charging algorithm</li><li>• [ADD] Added EYE Sensor support</li><li>• [ADD] BLE Sensors Custom field data are displayed in decimal now</li><li>• [FIX] Fixed batteries percentage calculation when voltage is Fully charged</li><li>• [FIX] Refactored battery percentage limits checking algorithm</li><li>• [FIX] Fixed battery charging status</li><li>• [FIX] Fixed BT records generation issue, when BLE devices feature is disabled</li><li>• [FIX] Fixed beacon buffer cleanup after the end of BLE scanning or periodic beacon record creation.</li><li>• [FIX] Fixed GSM established LED indication turning off issue</li><li>• [CHN] Changed minimum BLE scan start period configuration value.</li></ul>
VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES

<b>55.02.03.</b> <b>Rev 05</b> <b>1.7.66_B.</b> <b>55.2_R.1</b> <b>0</b>	2023-12-13	<ul style="list-style-type: none"> <li>• [CHN] Added new AVL IDs SMS events tab</li> <li>• [FIX] Fixed Online vs Offline configuration discrepancies</li> <li>• [FIX] Fixed Ultra Deep Sleep naming mismatch</li> <li>• [FIX] Fixed Tool Tips inaccuracies</li> <li>• [ADD] Added EYE sensors support settings and filtering by sensor's name and MAC address</li> <li>• [CHN] Changed device wiki links to teltonika-gps</li> <li>• [CHN] Moved EYE Sensor I/O settings to Bluetooth 4.0 tab.</li> <li>• [FIX] Fixed Roaming operator/Operator Black list .csv file importing</li> <li>• [FIX] Fixed Maximum GPS Satellites Quantity parameter (ID: 906) value</li> <li>• [ADD] Added configurable accelerometer sensitivity settings</li> <li>• [ADD] Added continuous battery charging mode</li> <li>• [CHN] Changed minimum BLE scan start period value.</li> </ul>	<ul style="list-style-type: none"> <li>• [CHN] Added possibility to send SMS AVL ID event to few numbers</li> <li>• [FIX] Fixed sensors scanning issue, then Beacon Detection is Disabled or set to beacons No Send mode.</li> <li>• [ADD] Added CSQ level parameter</li> <li>• [ADD] Added , shutdown' SMS/GPRS command to power off device</li> <li>• [ADD] Added configurable accelerometer sensitivity options in sleep mode</li> <li>• [FIX] Fixed ,btgetlist 3' SMS command</li> <li>• [FIX] Changed battery voltage measurement and charging algorithm</li> <li>• [ADD] Added EYE sensor support</li> <li>• [ADD] BLE sensors Custom field data are displayed in decimal now</li> <li>• [FIX] Fixed batteries percentage calculation when voltage is Fully charged</li> <li>• [FIX] Refactored battery percentage limits checking algorithm</li> <li>• [FIX] Fixed battery charging status</li> <li>• [FIX] Fixed BT records generation issue, when BLE devices feature is disabled</li> <li>• [FIX] Fixed beacon buffer cleanup after the end of BLE scanning or periodic beacon record creation.</li> <li>• [FIX] Fixed GSM established LED indication turning off issue</li> <li>• [CHN] Changed minimum BLE scan start period configuration value.</li> </ul>

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>55.01.02.Rev.01</b> <b>1.6.11_R.30</b>	2021.10.25	<ul style="list-style-type: none"> <li>• Change No Movement/Movement event SMS text</li> <li>• Added Race Mode feature</li> </ul>	<ul style="list-style-type: none"> <li>• Added Race Mode for GNSS data live tracking</li> <li>• Fixed LED indication stuck when Man-Down Cancel button is pressed</li> <li>• Fixed FW version display in FOTA WEB</li> <li>• Fixed possibility to configure forbidden GNSS source via SMS or GPRS</li> <li>• Fixed fake movement events when Low power mode is used</li> <li>• Fixed BLE scan stuck when Xiaomi bracelet is used</li> <li>• Fixed restarts when Beacon on Demand feature is used for longer time</li> <li>• Fixed Alarm call delay issue</li> <li>• Fixed FW update issue with XT26G01CWSIGT flash</li> <li>• Added XT26G01CWSIGT and GD5F1GQ5UE NAND flash support</li> <li>• Changed minimum charging temperature from -10°C to 1°C</li> <li>• SMS commands will return time with applied time zone</li> <li>• The maximum battery charging temperature changed from 50°C to 45°C</li> <li>• Maximum operating temperature changed from 65°C to 59°C</li> </ul>

<b>55.00.21.Rev.00</b> <b>1.6.11_R.26</b>	2021.08.10	<ul style="list-style-type: none"> <li>• 'Data Acquisition' tool tips and labels changed.</li> <li>• Changed BLE 'Update frequency' name and tool tips.</li> <li>• Fixed 'Beacon on demand' labels.</li> </ul>	<ul style="list-style-type: none"> <li>• Added possibility to Enable or Disable Mandown/Movement/No Movement features while charging.</li> <li>• Accelerometer and movement detection improvements.</li> <li>• Fixed invalid SMS number when reporting position after call.</li> </ul>
<b>55.00.18.Rev.02</b> <b>1.6.11_R.23</b>	2021.05.13	<ul style="list-style-type: none"> <li>• No changes</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed issue which occurred during manufactory testing phase with Ver.55.00.18.Rev.01 where device could end with GNSS State = 0</li> </ul>
<b>55.00.18.Rev.01</b> <b>1.6.11_R.23</b>	2021.05.07	<ul style="list-style-type: none"> <li>• Increased Beacon List from 25 to 100</li> <li>• Added On Demand Tracking On/Off/Switch button action</li> <li>• Added On Demand Tracking event indication settings</li> </ul>	<ul style="list-style-type: none"> <li>• Increased Configured beacons count from 25 to 100</li> <li>• If Beacon record sending is configured to be 'Eventual', send only if device sees any beacons</li> <li>• Improved Power On/Off feature notifications</li> <li>• Power save mode is working with Data Acquisition time 60s and above</li> <li>• On Demand Tracking functionality improved with button control and On Demand Tracking event indication</li> </ul>
<b>55.00.10.Rev.01</b> <b>1.6.11_R.16</b>	2020.11.13	<ul style="list-style-type: none"> <li>• Added Last Known Position feature settings</li> <li>• Added Power On/Off event settings</li> <li>• Added Power off with Power key settings</li> <li>• Added Custom BLE I/O parameters</li> </ul>	<ul style="list-style-type: none"> <li>• Added Last Known Position feature on HIGH priority event (alarm, amber alert, man-down, etc).</li> <li>• When device gains current GPS position after HIGH priority event was generated, device sends another HIGH priority event with updated position and GPS fix timestamp.</li> <li>• Reworked GNSS status SMS template.</li> <li>• Fixed issue of data acquisition parameters reset to default values.</li> </ul>
<b>55.00.07.Rev.09</b> <b>1.5.15_C.002</b>	2020.10.20	<ul style="list-style-type: none"> <li>• Minor changes</li> </ul>	<ul style="list-style-type: none"> <li>• Important change of charging algorithm. This algorithm provides higher safety and prolonging battery's life longevity.</li> <li>• Corrected battery display in percentage</li> <li>• Improved charging current from PC.</li> </ul>
<b>55.00.07.Rev.07</b> <b>1.5.15_C.002</b>	2020.09.16	<ul style="list-style-type: none"> <li>• Minor changes</li> </ul>	<ul style="list-style-type: none"> <li>• Lowered battery charging current from wall charger to 425mA.</li> <li>• Fixed battery LED indication when battery is fully charged.</li> </ul>
<b>55.00.07.Rev.02</b> <b>1.5.15_C.002</b>	2020.03.17	<ul style="list-style-type: none"> <li>• Added Man-Down Event On Exit and On Entrance parameters</li> </ul>	<ul style="list-style-type: none"> <li>• Updated Server IP and Port saving procedures.</li> <li>• Reworked Generate Event On Exit and On Entrance logic.</li> <li>• Reworked handheld devices switching between Charging and Normal modes.</li> <li>• Reworked User ID values scan after device is turn off/on.</li> <li>• Reworked Button I/O on-click event.</li> </ul>

55.00.05.Rev. 00 1.5.0_C.007	2020.02.13	<ul style="list-style-type: none"> <li>• Removed unnecessary Low Power parameters</li> <li>• Removed unnecessary Time Synchronization settings</li> <li>• Implemented On Demand tracking functionality</li> <li>• Removed unnecessary Number Check Settings panel</li> <li>• Implemented Event Notification functionality</li> <li>• Implemented User ID functionality</li> <li>• Improved BLE beacon functionality</li> <li>• Implemented Beacon List functionality</li> <li>• Improved User Interface configuration panel</li> <li>• Improved Keyboard configuration panel</li> <li>• Implemented Button IO feature</li> <li>• Updated default settings</li> </ul>	<ul style="list-style-type: none"> <li>• Reworked User Interface configuration.</li> <li>• Reworked Keyboard configuration.</li> <li>• Implemented Event Notification panel.</li> <li>• Implemented Call After Answer functionality</li> <li>• Implemented User ID functionality.</li> <li>• Implemented On Demand data acquisition functionality.</li> <li>• Implemented Button IO Feature.</li> <li>• Optimized wake up from deep sleep by movement.</li> <li>• Updated default settings.</li> <li>• Improved BLE compatibility with beacons.</li> </ul>

## GH5200

### Base

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
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55.02.03 .Rev.05 1.7.66 B.55.2 R.10	2024-01-30	<ul style="list-style-type: none"> <li>• [CHN] Added new AVL ID's SMS events tab</li> <li>• [FIX] Fixed Online vs Offline configuration discrepancies</li> <li>• [FIX] Fixed Ultra Deep Sleep naming mismatch</li> <li>• [FIX] Fixed Tool Tips inaccuracies</li> <li>• [ADD] Added EYE Sensors support settings and filtering by sensors name and MAC address</li> <li>• [CHN] Changed device wiki links to teltonika-gps</li> <li>• [CHN] Moved EYE Sensor I/O settings to Bluetooth 4.0 tab</li> <li>• [FIX] Fixed Roaming operator/Operator Black List .csv file importing</li> <li>• [FIX] Fixed Maximum GPS Satellites Quantity parameter (ID: 906) value</li> <li>• [ADD] Added configurable accelerometer sensitivity settings</li> <li>• [ADD] Added continuous battery charging mode</li> <li>• [CHN] Changed minimum BLE scan start period value</li> </ul>	<ul style="list-style-type: none"> <li>• [CHN] Added possibility to send SMS AVL ID event to few numbers</li> <li>• [FIX] Fixed sensors scanning issue, then Beacon Detection is Disabled or set to beacons No Send mode.</li> <li>• [ADD] Added CSQ level parameter</li> <li>• [FIX] Fixed Event Notification SMS text maximum length</li> <li>• [ADD] Added , <i>shutdown</i> ' SMS/GPRS command to power off device</li> <li>• [ADD] Added configurable accelerometer sensitivity options in sleep mode</li> <li>• [FIX] Fixed ,<i>btgetlist 3</i> ' SMS command</li> <li>• [FIX] Changed battery voltage measurement and charging algorithm</li> <li>• [ADD] Added EYE Sensor support</li> <li>• [ADD] BLE sensors Custom field data are displayed in decimal now</li> <li>• [FIX] Fixed batteries percentage calculation when voltage is Fully charged</li> <li>• [ADD] Added " <i>dropcall</i> " SMS command to hang up the call.</li> <li>• [ADD] Added call duration limits for Alarm event</li> <li>• [ADD] Added Call duration limits for each keyboard button</li> <li>• [FIX] Fixed call and SMS send issue for Feature&gt;&gt;Event notification</li> <li>• [FIX] Refactored battery percentage limits checking algorithm</li> <li>• [FIX] Fixed battery charging status</li> <li>• [FIX] Fixed BT records generation issue, when BLE devices feature is disabled</li> <li>• [ADD] Added ability to switch audio to Bluetooth headset/speaker with a button.</li> <li>• [FIX] Fixing issue when incoming call voice audio doesn't work via HFP</li> <li>• [FIX] AXL and LIS3DH changes to prevent unwanted wake up from sleep mode and prevent fake movement detection</li> <li>• [FIX] Fixed beacon buffer cleanup after the end of BLE scanning or periodic beacon record creation.</li> <li>• [FIX] Fixed GSM established LED indication turning off issue</li> <li>• [CHN] Changed minimum BLE scan start period configuration value.</li> </ul>
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VERSION	RELEASE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
N	DATE		

55.02.03. Rev 05 1.7.66_B. 55.2_R.1 0	2023-12-13	<ul style="list-style-type: none"> <li>• [CHN] Added new AVL IDs SMS events tab</li> <li>• [FIX] Fixed Online vs Offline configuration discrepancies</li> <li>• [FIX] Fixed Ultra Deep Sleep naming mismatch</li> <li>• [FIX] Fixed Tool Tips inaccuracies</li> <li>• [ADD] Added EYE sensors support settings and filtering by sensor's name and MAC address</li> <li>• [CHN] Changed device wiki links to teltonika-gps</li> <li>• [CHN] Moved EYE Sensor I/O settings to Bluetooth 4.0 tab.</li> <li>• [FIX] Fixed Roaming operator/Operator Black list .csv file importing</li> <li>• [FIX] Fixed Maximum GPS Satellites Quantity parameter (ID: 906) value</li> <li>• [ADD] Added configurable accelerometer sensitivity settings</li> <li>• [ADD] Added events call duration limits</li> <li>• [ADD] Added call duration limits for keyboard buttons independently.</li> <li>• [ADD] Added continuous battery charging mode</li> <li>• [CHN] Changed minimum BLE scan start period value.</li> </ul>	<ul style="list-style-type: none"> <li>• [CHN] Added possibility to send SMS AVL ID event to few numbers</li> <li>• [FIX] Fixed sensors scanning issue, then Beacon Detection is Disabled or set to beacons No Send mode.</li> <li>• [ADD] Added CSQ level parameter</li> <li>• [FIX] Fixed Event Notification SMS text maximum length</li> <li>• [ADD] Added , shutdown' SMS/GPRS command to power off device</li> <li>• [ADD] Added configurable accelerometer sensitivity options in sleep mode</li> <li>• [FIX] Fixed ,btgetlist 3' SMS command</li> <li>• [FIX] Changed battery voltage measurement and charging algorithm</li> <li>• [ADD] Added EYE sensor support</li> <li>• [ADD] BLE sensors Custom field data are displayed in decimal now</li> <li>• [FIX] Fixed batteries percentage calculation when voltage is Fully charged</li> <li>• [ADD] Added " dropcall" SMS command to hang up the call.</li> <li>• [ADD] Added call duration limits for Alarm event</li> <li>• [ADD] Added Call duration limits for each keyboard button</li> <li>• [FIX] Fixed call and SMS send issue for Feature&gt;&gt;Event notification</li> <li>• [FIX] Refactored battery percentage limits checking algorithm</li> <li>• [FIX] Fixed battery charging status</li> <li>• [FIX] Fixed BT records generation issue, when BLE devices feature is disabled</li> <li>• [ADD] Added ability to switch audio to Bluetooth headset/speaker with a button.</li> <li>• [FIX] Fixing issue when incoming call voice audio doesn't work via HFP</li> <li>• [FIX] AXL and LIS3DH changes to prevent unwanted wake up from sleep mode and prevent fake movement detection</li> <li>• [FIX] Fixed beacon buffer cleanup after the end of BLE scanning or periodic beacon record creation.</li> <li>• [FIX] Fixed GSM established LED indication turning off issue</li> <li>• [CHN] Changed minimum BLE scan start period configuration value.</li> </ul>
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VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
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<b>55.01.02.Rev.01</b> <b>1.6.11_R.30</b>	2021.10.25	<ul style="list-style-type: none"> <li>• Change No Movement/Movement event SMS text</li> <li>• Added Race Mode feature</li> </ul>	<ul style="list-style-type: none"> <li>• Added Race Mode for GNSS data live tracking</li> <li>• Fixed LED indication stuck when Man-Down Cancel button is pressed</li> <li>• Fixed FW version display in FOTA WEB</li> <li>• Fixed possibility to configure forbidden GNSS source via SMS or GPRS</li> <li>• Fixed fake movement events when Low power mode is used</li> <li>• Fixed BLE scan stuck when Xiaomi bracelet is used</li> <li>• Fixed restarts when Beacon on Demand feature is used for longer time</li> <li>• Fixed Alarm call delay issue</li> <li>• Fixed FW update issue with XT26G01CWSIGT flash</li> <li>• Added XT26G01CWSIGT and GD5F1GQ5UE NAND flash support</li> <li>• Changed minimum charging temperature from -10°C to 1°C</li> <li>• SMS commands will return time with applied time zone</li> <li>• The maximum battery charging temperature changed from 50°C to 45°C</li> <li>• Maximum operating temperature changed from 65°C to 59°C</li> </ul>
<b>55.00.21.Rev.00</b> <b>1.6.11_R.26</b>	2021.08.10	<ul style="list-style-type: none"> <li>• Added Tool tips information about Beacon record mode 'No Send'.</li> <li>• 'Data Acquisition' tool tips and labels changed.</li> <li>• Changed BLE 'Update frequency' name and tool tips.</li> <li>• Amber Alert tool tip changes.</li> <li>• Amber Alert timeout name changed.</li> </ul>	<ul style="list-style-type: none"> <li>• Xiaomi Mi Band 2 support.</li> <li>• Added possibility to Enable or Disable Mandown/Movement/No Movement features while charging.</li> <li>• Fixed invalid SMS number when reporting position after call.</li> <li>• Accelerometer improvements.</li> <li>• Minor changes</li> </ul>
<b>55.00.18.Rev.02</b> <b>1.6.11_R.23</b>	2021.05.13	<ul style="list-style-type: none"> <li>• No changes</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed issue which occurred during manufactory testing phase with Ver.55.00.18.Rev.01 where device could end with GNSS State = 0</li> </ul>

<b>55.00.18.Rev.01</b> <b>1.6.11_R.23</b>	2021.05.07	<ul style="list-style-type: none"> <li>• Increased Beacon List from 25 to 100</li> <li>• Added On Demand Tracking On/Off/Switch button action</li> <li>• Added On Demand Tracking event indication settings</li> <li>• Enabled vibration for Call Active indication.</li> </ul>	<ul style="list-style-type: none"> <li>• Increased Configured beacons count from 25 to 100</li> <li>• If Beacon record sending is configured to be 'Eventual', send only if device sees any beacons</li> <li>• Improved Power On/Off feature notifications</li> <li>• Power save mode is working with Data Acquisition time 60s and above</li> <li>• On Demand Tracking functionality improved with button control and On Demand Tracking event indication</li> <li>• ManDown functionality was improved with additional sensing methods. First one FreeFall sensing and other FreeFall with Angle combination</li> <li>• Mandown Cancel button functionality added</li> <li>• Fixed constant or uncontrolled Battery LED On state</li> <li>• Added configurable outgoing alarm tone sound</li> </ul>
<b>55.00.13.Rev.00</b> <b>1.6.11_R.18</b>	2021.01.14	<ul style="list-style-type: none"> <li>• Added GNSS Fix Holdout settings</li> <li>• Added Outgoing Call in loudspeaker settings</li> <li>• Added No movement pre-alarm indication settings</li> </ul>	<ul style="list-style-type: none"> <li>• Added Power off button disable feature.</li> <li>• Special function added: GPS search on hold for 30 seconds.</li> <li>• Fixed Power on/off event feature.</li> <li>• Changed Call logic between simultaneous alarms.</li> <li>• Fixed device Power on from USB, when feature is disabled.</li> <li>• Added possibility to update GNSS coordinate every 1sec.</li> <li>• Safe charging improvements.</li> <li>• Reworked On Demand Tracking.</li> <li>• Changed Call and SMS logic for Man-Down feature.</li> </ul>
<b>55.00.10.Rev.01</b> <b>1.6.11_R.16</b>	2020.11.13	<ul style="list-style-type: none"> <li>• Added Last Known Position feature settings</li> <li>• Added Power On/Off event settings</li> <li>• Added amber alert feature settings (for GH5200)</li> <li>• Added Amber alert indication (for GH5200)</li> <li>• Added Amber alert settings on a keyboard (for GH5200)</li> <li>• Added Power off with Power key settings</li> <li>• Added Custom BLE I/O parameters</li> <li>• Added Man-Down Event On Exit and On Entrance parameters</li> </ul>	<ul style="list-style-type: none"> <li>• Added Amber Alert feature with configurable event Timeout and pre-alarm.</li> <li>• Improved ManDown, AutoGeofence, Alarm button and Amber Alert maximum call list to 10 numbers.</li> <li>• Changed outgoing call indication to vibration only.</li> <li>• Added Last Known Position feature on HIGH priority event (alarm, amber alert, man-down, etc.)</li> <li>• When GH5200 gains current GPS position after HIGH priority event was generated, device sends another HIGH priority event with updated position and GPS fix timestamp.</li> <li>• Added outgoing call in loudspeaker mode once the call is established.</li> <li>• Reworked GNSS status SMS template.</li> </ul>

<b>55.00.05.Rev.01</b> <b>1.5.0_C.007</b>	2020.03.06	<ul style="list-style-type: none"> <li>• Removed unnecessary Low Power parameters</li> <li>• Removed unnecessary Time Synchronization settings</li> <li>• Implemented On Demand tracking functionality</li> <li>• Removed unnecessary Number Check Settings panel</li> <li>• Implemented Event Notification functionality</li> <li>• Implemented User ID functionality</li> <li>• Improved BLE beacon functionality</li> <li>• Implemented Beacon List functionality</li> <li>• Improved User Interface configuration panel</li> <li>• Improved Keyboard configuration panel</li> <li>• Implemented Button IO feature</li> <li>• Updated default settings</li> </ul>	<ul style="list-style-type: none"> <li>• Reworked factory test tool.</li> </ul>
<b>55.00.05.Rev.00</b> <b>1.5.0_C.007</b>	2020.02.13	<ul style="list-style-type: none"> <li>• Removed unnecessary Low Power parameters</li> <li>• Removed unnecessary Time Synchronization settings</li> <li>• Implemented On Demand tracking functionality</li> <li>• Removed unnecessary Number Check Settings panel</li> <li>• Implemented Event Notification functionality</li> <li>• Implemented User ID functionality</li> <li>• Improved BLE beacon functionality</li> <li>• Implemented Beacon List functionality</li> <li>• Improved User Interface configuration panel</li> <li>• Improved Keyboard configuration panel</li> <li>• Implemented Button IO feature</li> <li>• Updated default settings</li> </ul>	<ul style="list-style-type: none"> <li>• Reworked User Interface configuration.</li> <li>• Reworked Keyboard configuration.</li> <li>• Implemented Event Notification panel.</li> <li>• Implemented Call After Answer functionality</li> <li>• Implemented User ID functionality.</li> <li>• Implemented On Demand data acquisition functionality.</li> <li>• Implemented Button IO Feature.</li> <li>• Optimized wake up from deep sleep by movement.</li> <li>• Updated default settings.</li> <li>• Improved BLE compatibility with beacons.</li> </ul>

## Proximity

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
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<b>55.01.02.R ev.200</b> <b>1.5.15_C.2</b> <b>32</b>	2021.11.15	<ul style="list-style-type: none"> <li>• Fixed In Use satellites not display issue</li> <li>• Add missing parameter IDs in tooltips</li> </ul>	<ul style="list-style-type: none"> <li>• Added XT26G01CWSIGT and GD5F1GQ5UE NAND flash support</li> <li>• The maximum battery charging temperature changed from 50°C to 45°C</li> <li>• Maximum operating temperature changed from 65°C to 59°C</li> <li>• Fixed Remote Connection indication.</li> <li>• SMS commands will return time with applied time zone</li> <li>• Fixed FW version display in FOTA WEB</li> <li>• Fixed SMS send and Call issue, when GPRS send period is set to 0 sec.</li> <li>• Changed minimum charging temperature from -10°C to 1°C</li> <li>• Fixed configuration saving error. Which was happening due FW version change</li> <li>• Increased BLE scan stability.</li> </ul>
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VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>55.00.08.Rev. 349</b> <b>1.5.15_C.228</b>	2021.05.07	<ul style="list-style-type: none"> <li>• Added configurable Proximity indication pause</li> <li>• Added option 'Advertise only' for proximity while charging</li> </ul>	<ul style="list-style-type: none"> <li>• Added configurable Proximity indication pause.</li> <li>• Changed default Scan Window and Scan Interval</li> <li>• Added option 'Advertise only' for proximity while charging</li> <li>• Corrections for data sending via RUTX</li> <li>• If Beacon record sending is configured to be 'Eventual', send only if device sees any beacons</li> </ul>
<b>55.00.08.Rev. 344</b> <b>1.5.15_C.225</b>	2021.01.14	<ul style="list-style-type: none"> <li>• Added Proximity Violator type iBeacon</li> </ul>	<ul style="list-style-type: none"> <li>• Improved proximity feature stability.</li> <li>• Reworked device connection with RUTX.</li> <li>• Improved proximity advertising scanning stability.</li> <li>• Safe charging improvements for GH5200.</li> <li>• Added feature which allows to use Beacons with proximity feature.</li> <li>• Fixed device Power on from USB, when feature is disabled.</li> <li>• Proximity improvements to support several devices at the same time.</li> </ul>
<b>55.00.08.Rev. 337</b> <b>1.5.15_C.222</b>	2020.10.23	<ul style="list-style-type: none"> <li>• Added Proximity with RUTX setting</li> <li>• Added Proximity RDDI exit threshold setting</li> <li>• Added Proximity RDDI moving average samples setting</li> </ul>	<ul style="list-style-type: none"> <li>• Improved RSSI level calculation logic, averaging according to configured sample size was implemented.</li> <li>• Added BLE advertising interval parameter.</li> <li>• Added duplicate scan filter to improve BLE performance.</li> </ul>

<b>55.00.08.Rev. 335 1.5.15_C.219</b>	2020.10.09	<ul style="list-style-type: none"> <li>• Added Teltonika beacons setting</li> </ul>	<ul style="list-style-type: none"> <li>• Improved BLE power level parameters.</li> <li>• Added Proximity RSSI exit threshold parameter.</li> <li>• Added Proximity RSSI moving average parameter.</li> <li>• Reworked generation of Proximity records.</li> <li>• Changed Proximity record priority from Low to High.</li> <li>• Reworked Proximity record sending according to Data Acquisition.</li> </ul>
<b>55.00.08.Rev. 334 1.5.15_C.219</b>	2020.09.28	<ul style="list-style-type: none"> <li>• Added Teltonika beacons setting</li> </ul>	<ul style="list-style-type: none"> <li>• Added new beacon detection option Teltonika (device only detects Teltonika devices).</li> <li>• Improved Proximity detection, works with Beacon Detection All and Beacon Detection Teltonika settings.</li> <li>• Improved Proximity contact duration calculation.</li> <li>• Improved Beacon detection stability.</li> </ul>
<b>55.00.08.Rev. 332 1.5.15_C.217</b>	2020.09.28	<ul style="list-style-type: none"> <li>• Added Home Zone on Exit on entrance settings</li> </ul>	<ul style="list-style-type: none"> <li>• Improved Proximity record sending.</li> <li>• Reworked Home Zone on exit and on entrance event generation.</li> <li>• Improved Power Off event delay.</li> <li>• Corrected Power On/Off event logic.</li> <li>• Reworked Proximity SMS, IMEI is sent instead of BLE MAC</li> <li>• Proximity Service ID was removed.</li> </ul>

## TAT100

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
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<b>Firmware version:</b> <b>55.00.16.Rev. 564</b> <b>BlueNRG version:</b> <b>10.4.12 for TAT100 HW ver.: 31</b> <b>0.4.12 for TAT100 HW ver.: 62</b> <b>Configurator version:</b> <b>1.7.74_B.TAT1_R.6</b>	2024.03.12 <ul style="list-style-type: none"> <li>• Fixed configurator crash after firmware update.</li> <li>• Added cell ID I/O elements</li> <li>• Fixed error when disabling BLE features in configuration.</li> <li>• Added GSM area code I/O element</li> <li>• Simplified EYE sensor configuration.</li> <li>• Added Autonomous Alarm System feature.</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed periodic timer starting in Recovery mode.</li> <li>• Improved backup tracker scan procedure.</li> <li>• Fixed issue with GPS fix with First Power On record.</li> <li>• Improved energy management in sleep mode when device is in motion.</li> <li>• Fixed crash on BLE sensor alarm.</li> <li>• Bluetooth scanning and data parsing optimization.</li> <li>• DNS resolve improvements.</li> <li>• Fixed periodic timer starting when tracking scenario selected as None.</li> <li>• Changed default movement sensitivity to 150 mG</li> <li>• Changed default GNSS mode to GLONASS, GPS and GALILEO</li> <li>• Fixed EYE sensor data multiplier for correct data displaying.</li> <li>• Fixed issue if GPRS is lost during record sending.</li> <li>• Fixed GPRS command processing in UDP mode.</li> <li>• Improved received SMS reading process.</li> <li>• Improved connection to Fota process.</li> <li>• Fixed BLE sensor data not being included in periodic records.</li> <li>• Improved static navigation logic.</li> <li>• Improved Bluetooth scan stability.</li> <li>• Added BLE beacons for Recovery mode trigger.</li> <li>• Movement logic rework.</li> <li>• Added condition to stop GNSS search if less than 3 satellites found in the first 60 seconds.</li> </ul>
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VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>Firmware version:</b> <b>55.00.16.Rev. 545</b> <b>BlueNRG version:</b> <b>10.3.12 for TAT100 HW ver.: 31</b> <b>0.3.12 for TAT100 HW ver.: 62</b> <b>Configurator version:</b> <b>1.7.16_E.TAT100.R23</b> <b>RELEASE</b>	2022.08.23	<ul style="list-style-type: none"> <li>• No changes</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed issue with incorrectly detected SIM slot for eSIM devices.</li> </ul>

**Firmware version:**  
**55.00.16.Rev. 543**  
**BlueNRG version:**  
**10.3.12 for TAT100 HW ver.: 31**  
**0.3.12 for TAT100 HW ver.: 62**  
**Configurator version:**  
**1.7.16\_E.TAT100.R23**  
**RELEASE**

2022.08.08

- Updated Teltonika Configurator version to set Central device default IMEI to 3000000000000000
- Added Recovery mode option
- Added I/O element of Recovery Mode
- Added more options of movement sensitivity threshold [50-1000mG]
- Configurator for BLE FW and Backup FW was merged into one.
- SMS command created for getting device statistics
- Protection from writing other devices FW
- Added condition to prevent modem waking up at midnight if scheduler is configured
- Added reconfiguration mechanism that lets FW work with / without SMPS filterMissing
- Fixed issue of missing 4th sensor's data with Monitoring operand
- Fixed too frequent / unnecessary scans with all sensors configured as monitoring
- Fixed sensors scan starting with monitoring operand when Backup tracker is configured
- Backup tracker scan not starting right after
- Time synchronization every 24 hours
- Fixed LBS data sending issue
- New AVL ID 20015 for Modem UpTime (in seconds)
- Added response sending if recovery command is sent through GPRS
- The next periodic record after Recovery mode deactivation being sent with AVL ID 20012 - fixed
- Reduced EQ Core update frequency
- Fixed battery consumption issue when GSM is jammed.
- LED status changed from constant on to blinking mode to save the battery
- Added Recovery mode feature
- Implemented Recovery mode activation from the Backup tracking alarm
- Added EYE sensors support
- Fixed Minor bugs regarding the sensors
- Fixed Short period Recovery Mode records
- Extended Backup Tracker: Central device IMEI range
- Backup tracker: Scanning logic has been changed, scan duration is not configurable anymore, it is up to 60 seconds by default now.
- Implemented Record timestamp shift feature
- Fixed BLE sensor records with wrong event ID being sent
- Fixed BLE sensor record duplicates with On change operand
- Fixed BLE sensor On Exit record not generating when switching to sleep mode
- Fixed Custom1 sensor data in SMS being sent as NaN (*empty*)
- Fixed duplicate BLE sensor data after waking up
- Changed required packets amount in backup tracker scenario and minimal scan duration
- Fixed backup tracker alarm not triggering just before wakeup
- Fixed backup tracker not detecting enough packets during BLE scan
- Periodic records do not affect backup tracker alarm record generation

**Firmware**      2021.12.2  
**version:**        1  
**55.00.16.Rev.**  
**522**  
**BlueNRG**  
**version:**  
**10.2.21.Rev.0**  
**1**  
**Configurator**  
**version:**  
**1.7.16\_R.TAT1**  
**00.R2**

- Improved battery safety features
  - Fixed stuck download during FOTA update
  - Fixed device not restarting to update FW after FOTA download
  - Improved main device packet filtering
  - Improved battery voltage measurement
  - Fixed the device not restarting after FOTA WEB update when it happens at the same time as periodic record
  - Fixed random statistic losses
  - Fixed GNSS module status not being accurate in Teltonika Configurator
  - Improved static navigation mode
  - Fixed scheduler time resync timer not working properly
  - Fixed statistic not being deleted from RAM
-



**Firmware** 2021.10.1  
**version:** 9  
**55.00.15.Rev.**  
**519**  
**BlueNRG**  
**version:**  
**10.2.14**  
**Configurator**  
**version:**  
**1.7.16\_R.TAT1**  
**00.R2**

- Fixed fake movement detection on startup
- Fixed problem when the device is stuck in **On Stop** tracking mode after reconfiguration
- Added Power-On reason data and fixed version changes to device statistics
- Fixed Backup tracker issue where the alarm mode is not immediately activated when the central device disappears
- Fixed empty GSM I/O elements
- Fixed an issue where UTC is added after each reconfiguration
- Added record printing to **Dump log**
- LBS data is not included in records if GNSS fix was caught
- Fixed NTP timesync failure if offset is zero
- Improved record creation (wake up from sleep) during **Backup tracker** alarms

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- Improved GNSS module control with **Static Navigation** and LBS
  - Added prevention from inappropriate record generation if the battery is low (HW watchdog)
  - Added statistic element for USB connected uptime
  - Added timestamp to BlueNRG serial prints
  - Minor improvement for BlueNRG firmware update via configurator
  - Added filter for LBS cell\_id duplicates
  - Improved Bluetooth sensor record creation with '**On Change**' operand
  - Added Bluetooth sensor support
  - Added condition to skip LBS data update if location source is only GNSS
  - Increased retries of AT+# command in order to avoid empty LBS data from modem
  - Changed **Open link** timeout to 15s
  - Fixed an issue where the tracking mode would change from the scheduler to periodic
  - Improved logic for multiple FOTA Web tasks update in the same connection
  - Implemented rule for additional connection to FOTA Web after baseband firmware update
  - Added accelerometer version information inside '**.info**' serial command
  - Fixed an issue with battery voltage I/O element when record saving is overlapping with a firmware update
  - Fixed **Scheduler** record sending at midnight
  - Fixed missed LBS values inside I/O elements
  - Fixed an issue when GNSS speed is not zero while the device is in a stationary position
  - General minor improvements
-

<b>55.00.10.Rev. 509</b> <b>BlueNRG:</b> <b>10.2.3_Rev.00</b> <b>1.7.16_E.TAT100_04</b>	2021.05.10	<ul style="list-style-type: none"> <li>• Added Test Connection button</li> <li>• Temporarily removed Secondary Server Settings</li> <li>• Tracking Period default value changed to 28800 (s)</li> </ul>	<ul style="list-style-type: none"> <li>• Implemented Test Connection feature.</li> <li>• Added BlueNRG logging to DUMP files</li> <li>• Added LBS data logging to DUMP files</li> <li>• Added protection that blocks FMB firmware flash to AT devices</li> <li>• Added time-sync update with <i>asset purpose</i> command</li> <li>• Improved periodic record timer logic</li> <li>• Improved battery voltage measurement</li> <li>• Improved periodic GPRS data sending while USB is connected to the device</li> <li>• Disabled SMPS filter</li> <li>• Fixed record sending when movement is triggered at all times</li> <li>• Improved NTP time-sync</li> </ul>
<b>55.00.05.Rev. 510</b> <b>BlueNRG:</b> <b>0.1.7</b>	2020.12.03	<ul style="list-style-type: none"> <li>• Removed tracking scenarios</li> <li>• Removed speed source parameter</li> <li>• Removed record saving/sending without TS parameter</li> <li>• Removed LED Indication parameter</li> <li>• Removed NTP resync parameter</li> </ul>	<ul style="list-style-type: none"> <li>• Implemented FOTA support.</li> <li>• Improved GNSS position capturing.</li> <li>• Reworked Periodic and Scheduler tracking counters.</li> <li>• Implemented device logging via USB.</li> <li>• Implemented statistics acquisition to flash memory.</li> </ul>
<b>55.00.05.Rev. 507</b> <b>BlueNRG:</b> <b>0.1.5</b>	2020.09.29	<ul style="list-style-type: none"> <li>• Implemented GNSS Source configuration. Available options: BeiDou, GLONASS, Galileo and GPS.</li> <li>• Added I/O elements: Data Mode, GSM Signal, GNSS Status, GNSS PDOP, GNSS HDOP, Speed, GSM Cell ID, GSM Area Code, Battery Voltage, Active GSM Operator, ICCID, Coordinates ISO6709.</li> <li>• Added SMS command authorization via Login and Password logic.</li> </ul>	<ul style="list-style-type: none"> <li>• Implemented 'Codec 8', 'Codec 8 Extended' and 'Codec 12' protocols.</li> <li>• Implemented NTP, NITZ and GNSS time synchronization sources.</li> <li>• Implemented ability to send GPRS data from device via TCP or UDP channels.</li> <li>• Implemented connection to server timeouts.</li> <li>• Ported TLS encryption functionality from other Teltonika devices.</li> <li>• Implemented Periodic and Scheduler tracking.</li> <li>• Implemented BlueNRG firmware update via GPRS. This function will be used to reflash BlueNRG firmware via FOTA WEB.</li> <li>• Added GSM number authorization logic.</li> </ul>

## TAT140

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>Firmware version:</b> <b>55.00.16.Rev. 564</b> <b>BlueNRG version:</b> <b>0.4.12</b> <b>Configurator version:</b> <b>1.7.74_B.TAT1_R.6</b>	2024.03.12	<ul style="list-style-type: none"> <li>• Fixed configurator crash after firmware update.</li> <li>• Added cell ID I/O elements</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed periodic timer starting in Recovery mode.</li> <li>• Improved backup tracker scan procedure.</li> <li>• Fixed issue with GPS fix with First Power On record.</li> <li>• Improved energy management in sleep mode when device is in motion.</li> <li>• Fixed crash on BLE sensor alarm.</li> <li>• Bluetooth scanning and data parsing optimization.</li> <li>• DNS resolve improvements.</li> <li>• Fixed periodic timer starting when tracking scenario selected as None.</li> <li>• Added cell ID I/O elements</li> </ul>

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>Firmware version:</b> <b>55.00.16.Rev.558</b> <b>BlueNRG version: 0.4.8</b> <b>Configurator version:</b> <b>1.7.16_B.TAT1_R.3</b>	2023.07.18	* Removed non configurable elements	<ul style="list-style-type: none"> <li>• [FIX] Improved EYE sensor data detection to be suitable for all sensor modes</li> <li>• [FIX] Fixed Periodic timer still running when Recovery mode is activated in sleep from Backup tracker</li> <li>• [FIX] Hotfix for EG915ULA modem status commands</li> </ul>

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>Firmware version:</b> <b>55.00.16.Rev.557</b> <b>BlueNRG version: 0.4.7</b> <b>Configurator version:</b> <b>1.7.16_B.TAT1_R.1</b>	2023.05.10	Initial release	Initial release

## TAT141

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>Firmware version:</b> <b>55.00.16.Rev.564</b> <b>BlueNRG version: 0.4.12</b> <b>Configurator version:</b> <b>1.7.74_B.TAT1_R.6</b>	2024.03.12	<ul style="list-style-type: none"> <li>• Fixed configurator crash after firmware update.</li> <li>• Added cell ID I/O elements</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed periodic timer starting in Recovery mode.</li> <li>• Improved backup tracker scan procedure.</li> <li>• Fixed issue with GPS fix with First Power On record.</li> <li>• Improved energy management in sleep mode when device is in motion.</li> <li>• Fixed crash on BLE sensor alarm.</li> <li>• Bluetooth scanning and data parsing optimization.</li> <li>• DNS resolve improvements.</li> <li>• Fixed periodic timer starting when tracking scenario selected as None.</li> <li>• Added cell ID I/O elements</li> </ul>

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>Firmware version:</b> <b>55.00.16.Rev.558</b> <b>BlueNRG version: 0.4.8</b> <b>Configurator version:</b> <b>1.7.16_B.TAT1_R.3</b>	2023.07.18	* Removed non configurable elements	<ul style="list-style-type: none"> <li>• [FIX] Improved EYE sensor data detection to be suitable for all sensor modes</li> <li>• [FIX] Fixed Periodic timer still running when Recovery mode is activated in sleep from Backup tracker</li> <li>• [FIX] Hotfix for EG915ULA modem status commands</li> </ul>

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>Firmware version:</b> <b>55.00.16.Rev.557</b> <b>BlueNRG version: 0.4.7</b> <b>Configurator version:</b> <b>1.7.16_B.TAT1_R.1</b>	2023.05.10	Initial release	Initial release

TAT240

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>Firmware version:</b> <b>55.00.16.Rev.564</b> <b>BlueNRG version: 0.4.12</b> <b>Configurator version:</b> <b>1.7.74_B.TAT1_R.6</b>	2024.03.12	• No changes	<ul style="list-style-type: none"><li>• Fixed periodic timer starting in Recovery mode.</li><li>• Improved backup tracker scan procedure.</li></ul>

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>Firmware version:</b> <b>55.00.16.Rev.562</b> <b>BlueNRG version: 0.4.11</b> <b>Configurator version:</b> <b>1.7.74_B.TAT1_R.6</b>	2023.12.20	* Initial release	* Initial release