TAT100 Stable firmware

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CAUTION!

Both firmwares (Modem and BlueNRG) must be flashed into device. Failing so can lead to unexpected device behavior and rapid battery discharge.

TAT140 BlueNRG & Modem FIRMWARE UPDATE GUIDE

TATXYZ FIRMWARE UPDATE GUIDE

Download Firmware and Configurator from **STABLE FIRMWARE** or **SHORT-TERM FIRMWARE** pages.

After device connection to Configurator:

- 1) Select Update firmware;
- 2) Select to flash Firmware(*.e.XIM) file;
- 3) Click on file;
- 4) And select Open.

Wait until the device will upload the firmware.



When parameters successfully loaded:

- 1) Select Update firmware;
- 2) Select to flash BlueNRG firmware(*.bin);
- 3) Click on file;
- 4) And select Open.



TAT100 Stable Firmware and Software

FIRMWARE VERSION: CONFIGURATOR VERSION: BlueNRG VERSION: SYABLE FUNDANCE
55.00.16.EV.569
1.7.74_E.TAT1_R.7
1.0.3.Rev.00
For TAT100 HW version 31 please contact us via Help De

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TAT100 Hardware version identification

- If Serial Number [S/N] is greater than 1122473261, then device version: TAT100 HW: 62.
- If Serial Number [S/N] is less than 1122473261, then device version: TAT100 HW: 31.

ORDERS AFTER 2022-03-17 WILL BE WITH TAT100 HARDWARE: 62

EXECUTION!

When updating firmware via FOTA WEB, pay attention to notice above.

CHANGELOG

VERSION	RELEAS E DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
Firmware version: 55.00.16.Rev. 569 BlueNRG version: 10.0.3.Rev.00 for TAT100 HW ver.: 31 1.0.3.Rev.00 for TAT100 HW ver.: 62 Configurator version: 1.7.74_E.TAT 1_R.7	2024.08.	 Added an option to configure TLS functionality. Added an option to configure SMS record sending. Added an option to configure MQTT Azure and AWS support. Added an option to configure I am alive feature. 	 Added TLS functionality feature. Added SMS record sending feature. Added MQTT Azure and AWS support. Added I am alive feature. Fixed X, Y and Z IO elements not being included with First Power On record. Extended On Stop and On Move periodic timers to maximum value of 7 days. Improvements to Static Navigation logic in no GPS situation. New AVL ID 69 value added (4 - no GPS in Static Navigation). Improved Recovery mode trigger logic in Lost Sensor scenario. Added error code when BLE sensor is lost.
VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES

Firmware version: 55.00.16.Rev. **564 BlueNRG** version: 10.4.12 for **TAT100 HW** ver.: 31 0.4.12 for **TAT100 HW** ver.: 62 Configurator version: 1.7.74 B.TAT1 **R.6**

2024.03.1 • Fixed configurator crash after firmware update.

- Added cell ID I/O elements
- Fixed error when disabling BLE features in configuration.
- Added GSM area code I/O element
- Simplified EYE sensor configuration.
- Added Autonomous Alarm System feature.
- Fixed periodic timer starting in Recovery mode
- Improved backup tracker scan procedure.
- Fixed issue with GPS fix with First Power On record.
- Improved energy management in sleep mode when device is in motion.
- Fixed crash on BLE sensor alarm.
- Bluetooth scanning and data parsing optimization.
- DNS resolve improvements.
- Fixed periodic timer starting when tracking scenario selected as None.
- \bullet Changed default movement sensitivity to 150 mG
- Changed default GNSS mode to GLONASS, GPS and GALILEO
- \bullet Fixed EYE sensor data multiplier for correct data displaying.
- Fixed issue if GPRS is lost during record sending.
- Fixed GPRS command processing in UDP mode.
- Improved received SMS reading process.
- Improved connection to Fota process.
- Fixed BLE sensor data not being included in periodic records.
- Improved static navigation logic.
- Improved Bluetooth scan stability.
- Added BLE beacons for Recovery mode trigger.
- Movement logic rework.
- Added condition to stop GNSS search if less than 3 satellites found in the first 60 seconds.

Firmware version: 55.00.16.Rev. **545 BlueNRG** version: 10.3.12 for **TAT100 HW** ver.: 31 0.3.12 for **TAT100 HW** ver.: 62 Configurator version: 1.7.16 E.TAT1 00.R23

RELEASE

2022.08.2 • No changes

 Fixed issue with incorrectly detected SIM slot for eSIM devices.

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.TAT1 00.R23 RELEASE

2022.08.0 • Updated Teltonika Configurator version to set Central device default IMEI to 3000000000000000

• Added Recovery mode option

- · Added more options of movement sensitivity threshold [50-1000mG]
- FW was merged into one.
- · SMS command created for getting device statistics
- Protection from writing other devices FW
- Added condition to prevent modem waking • Added I/O element of Recovery Mode up at midnight if scheduler is configured
 - Added reconfiguration mechanism that lets FW work with / without SMPS filterMissing
- Configurator for BLE FW and Backup
 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
 - 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 iust 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
- 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
- \bullet 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

55.00.10.Rev. 2021.05.1 • Added Test Connection button • Implemented Test Connection feature. Temporarily removed Secondary Added BlueNRG logging to DUMP files 509 **BlueNRG:** Server Settings • Added LBS data logging to DUMP files • Tracking Period default value Added protection that blocks FMB 10.2.3_Rev.00 1.7.16 E.TAT1 changed to 28800 (s) firmware flash to AT devices 00 04 • Added time-sync update with asset purpose command • Improved periodic record timer logic • Improved battery voltage measurement · Improved periodic GPRS data sending while USB is connected to the device • Disabled SMPS filter • Fixed record sending when movement is triggered at all times • Improved NTP time-sync **55.00.05.Rev.** 2020.12.0 • Removed tracking scenarios • Implemented FOTA support. **510** Removed speed source parameter Improved GNSS position capturing. **BlueNRG:** · Removed record saving/sending Reworked Periodic and Scheduler tracking 0.1.7 without TS parameter • Removed LED Indication parameter • Implemented device logging via USB. • Removed NTP resync parameter • Implemented statistics acquisition to flash memory. **55.00.05.Rev.** 2020.09.2 • Implemented GNSS Source • Implemented 'Codec 8', 'Codec 8 configuration. Available options: Extended' and 'Codec 12' protocols. 507 BeiDou, GLONASS, Galileo and GPS. • Implemented NTP, NITZ and GNSS time **BlueNRG:** 0.1.5 Added I/O elements: Data Mode, synchronization sources. · Implemented ability to send GPRS data GSM Signal, GNSS Status, GNSS PDOP, GNSS HDOP, Speed, GSM Cell from device via TCP or UDP channels. ID, GSM Area Code, Battery Voltage, • Implemented connection to server Active GSM Operator, ICCID, timeouts. Coordinates ISO6709. • Ported TLS encryption functionality from • Added SMS command autorization other Teltonika devices. • Implemented Periodic and Scheduler via Login and Password logic. tracking. • Implemented BlueNRG firmware update via GPRS. This function will be used to reflash BlueNRG firmware via FOTA WEB. • Added GSM number authorization logic.