FTC961 firmware change log

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Introduction

We are always improving our device's performance, stability, and reliability. That's why Teltonika is one of the leading GNSS trackers manufacturers in the world.
This document describes **FTCXXX platform** devices firmware improvements, changes, new features implementations as well as current firmware release version.

Firmware versioning

- Structure

[XX].[YY].[ZZ]

- Syntax description
  - XX – shows major backward incompatible changes in firmware, i.e. security feature.
  - YY – shows major changes like new features or module support additions.
  - ZZ – shows changes like critical issue fixes.

Firmware versions

FIRMWARE VERSION	SUPPORTED HARDWARE	
00.4X.Y-rc.Z	FTC921_26, FTC961_12, FTC881_12	
00.2X.Y-rc.Z	FTC921_26, FTC961_12, FTC881_12	
FIRMWARE VERSION	RELEASE DATE	CHANGES

NEW FEATURES
- **NEW** added Unplug Detection Advanced mode
- **NEW** added Instant & Delayed movement scenario
- **NEW** added Eco Driving scenario
- **NEW** added SMS Number authorization feature
- **NEW** added Simple Crash Detection scenario
- **NEW** added Excessive Idling scenario
- **NEW** added Jamming Detection scenario
- **NEW** added Digital Output On/Off duration feature
- **NEW** added Server Records confirmation options feature
- **NEW** added Deep Sleep power saving mode feature
- **NEW** added Codec12 feature
- **NEW** added AutoAPN feature
- **NEW** added TCT Configuration Password protection feature
- **NEW** added SIM Cards with PIN support
- **NEW** added Log file download via FOTA Web feature
- **NEW** added Device Live Status information feature

FIXES/IMPROVEMENTS

0.40.3	2024-08-01	

- Record manager improvements. Record saving no longer stops during frequent record saving.
- Digital Output state improvements.
- Incorrect battery charging current indication improvements.
- SMS message parsing improvements.
- Last known GNSS position utilization for records improved.
- FOTA task execution improved. Device correctly awaits for TCP ACK when sending data.
- Record manager improvements. Record I/O correctly copied to different records.
- Trip AVL ID size fixed to match documentation.
- Improved record sending retry timeout calculation.
- "setigndigout" command format and logic issues resolved.
- Total odometer value saving improvements.
- PDP context management improvements. Correctly deactive PDP context after pdpdeact URC message. Modem IMEI recognition in roaming mode fixed
- Record manager improvements. Corrected FIFO functionaltiy to overwrite records correctly.
- "geimeiccid" command response issue resovled.
- Instant movement detection improvements. Resolved issue when movement state was lost during trip.
- Record sending improvements
- Resolved issue where records were generated even if I/O priority is set to "None".
- Modem init improved corrected when using roaming SIM. IMEI is now detected correctly.

NEW FEATURES
- **NEW** added the SMS "deleterecords"
- **NEW** added the SMS "getgps"
- **NEW** added the SMS "getio"
- **NEW** added the SMS "allver"
- **NEW** added the SMS "getstatus"
- **NEW** added the SMS "setdigout"
- **NEW** added the SMS "setparam"
- **NEW** added the SMS "getparam"
- **NEW** added the SMS "readavl"
- **NEW** added the SMS "cpureset"
- **NEW** added sent SMS counter
- **NEW** added sent records counter
- **NEW** added network ping timeout feature
- **NEW** added min max values of NTP resync period
- **NEW** added live satellite info
- **NEW** added battery charging modes
- **NEW** added critical sleep mode
- **NEW** added configurable APN settings and ability to disable mobile data
- **NEW** UDP protocol implemented
- **NEW** added the SMS "getrecord"
- **NEW** added the SMS "web_connect"
- **NEW** added the SMS "getinfo"
- **NEW** added accelerometer test command
- **NEW** added roaming mode change event
- **NEW** added SMS password
- **NEW** added the SMS "extformat"
- **NEW** added the SMS "getver"

0.26.2	2024-02-13	**FIXES/IMPROVEMENTS**

- Record loading speed improvement
- Record manager improvements. Records are sent immediately after generation when link is already open
- Record generation period reconfiguration corrected, the device starts generating new records based on newly configured timeout
- Open link timeout functionality correction. Link is closed accordingly to open link timeout configuration
- Corrected records send triggering after movement status change
- Corrected data acquisition records generation by speed units
- Conversion coefficient for AIN measurement corrected
- Odometer max value saving corrected
- Odometer value is saved in kilometers instead of meters
- Instant movement detection corrected to be detected from first move
- Wrong ignition source for data acquisition detection instead of movement source fixed
- SMS sending timeout fix
- Modem IMEI recognition in roaming mode fixed
- SMS command "setparam" stability improvements
- Accelerometer initialization improvements
- Modem stability improvements
- Accelerometer data validation improvements
- Record sending improvements
- Ignition check data spam without time synchronization fixed
- Power management (sleep) improvements
- Subsequent connection to server failure timeout increase feature added
- DOUT stability improvements

0.22.0-rc.1   **2023-04-13**   • Initial FTCXXX release