MiX | TELEMATICS
MOBILE INFORMATION EXCHANGE

Version 1: 29 April 2022

MiX 6000
Release 4.8.66

Table of Contents

New features and enhancements

Description	Component	Version
GPS velocity in AVLs and Config Positions, instead of filtered system speed.	GPS, Events	4.8.54
Introduced PID internal battery charging (constant voltage charging phase) for improved charge efficiency and capacity	Power	4.8.54
Adjusted comms backoff to meet to AT&T requirement.	Comms	4.8.54
Added Magix network calibration support.	Magix	4.8.54
Decrease chance of losing recent Tacho data when storage is full and BTS service struggle to send data.	Tacho	4.8.60
Notify server in case of repeated (3 times) comms reconnects that does not resolve comms issue.	Diagnostic	4.8.60
Recycle unused diagnostic pipes after 3 mins to allow quicker reconnections.	Comms	4.8.41
Reduce CPU load by limiting system watchdog calls.	CPU load	4.8.66
Increase CAN receive throughput and lower CPU load with additional HW filter.	CAN, CPU load	4.8.66
Decrease CPU load by optimizing urgent event search.	CPU load	4.8.66
Added damage control in case of settings corruption or loss.	Settings	4.8.66
Updated FW APN list for Verizon.	SIM	4.8.66
Updated FW APN list for AT&T.	SIM	4.8.66
Updated FW APN list for Proximus.	SIM	4.8.66

Fixes

Description	Component	Version
Fixed GPS fallback that could be falsely triggered if the last position was less than 5 seconds old.	GPS, Speed	4.8.41
Improved BTS thread signaling and removed delays which were causing forward BTS to fail lagging data send.	BTS, Comms	4.8.41
Fixed Magix remote add that deleted whole list.	Magix	4.8.41
Fixed FM comms unsolicited acronym subscriptions not getting send.	FM comms	4.8.41
Fixed location events triggering incorrectly.	Geofence, Events	4.8.41
HDOP will now be reported as 25.5 when the GPS does not have 3D Fix instead of 0.	GPS, Events	4.8.41
Fixed summary event bug that caused sub-trips to be displayed as longer.	Events, Trip	4.8.41
Reduce data usage: reduce instances of duplicate Tacho uploads by checking for unsent bytes over TCP.	Tacho, Comms	4.8.54

Reduce instances of nonzero RPM Tacho outside trip by including RPM in the instantaneous trip state logic.	Tacho, RPM	4.8.54
Missing Tacho – Ensure comms port is flushed before closing TCP connection to allow upload to complete.	Tacho	4.8.54
Improved BTS to retry faster when certain TCP level errors occur.	BTS, OTA	4.8.54
Fixed an FM Comms reconnection issue that was prohibiting acronym re-subscriptions from not getting sent.	ROVI, FmComms	4.8.54
GPRS data and session counters parameters will now persist through reboot.	Events	4.8.54
Improved CAN error logging	CAN, Syslogs	4.8.54
BTS upload speed improvement by tweaking certain timeouts.	BTS, OTA	4.8.54
RPM Tacho should now always drop to zero between trips.	RPM, Tacho	4.8.54
Unit will no longer periodically fast charge internal battery while in stop mode.	Battery	4.8.54
Unit will now correctly FAST charge internal battery during the pre-charge phase.	Battery	4.8.54
Addressed config action persist spamming due to power mode being off. Unit will now only persist on a power mode change.	Settings	4.8.54
Addressed an edge case where the next trip start position was not in the same location as the previous trip end.	GPS	4.8.54
Fixed an incorrect DTCO odometer reporting issue.	Odo/DTCO	4.8.54
SAT AVLs will now get sent over GPRS first if available.	Iridium/Sat	4.8.54
ROVI will now display the odometer correctly after fixing a casting error in the ODO_M acronym	Rovi/Odo	4.8.54
Unit will now block DTCO driver ID lookup attempts until lookup table address has been set by config.	Driver ID / DTCO	4.8.54
Fixed an edge case in detailed event processing which could cause excessive event duration reporting.	Events	4.8.54
Prevent regular wake / shut down actions out of trip leading to MiX 6000 recovery workflow deleting settings and config.	Config	4.8.54
CAN processing optimisations which should resolve some occurrences of incorrectly recorded signals.	CAN, Tacho	4.8.54
Make magix comms session count aware.	Magix, Comms	4.8.54
Impose BTS data transfer limit to prevent firmware downloads consuming excessive data.	BTS, OTA	4.8.55
Fix accelerometer axis values getting stuck leading to false roll-over and other accelerometer-based events being triggered.	Accelerometer	4.8.60
Fixed edge case in LED control logic that can occasionally lead to an uncontrolled reboot.	Outputs	4.8.60
Added parameter access watchdog to fast-track recovery after unexpected corruption.	Parameters	4.8.60

Fixed BTS data corruption vulnerability.	BTS	4.8.60
Fixed parameter mount affecting threads interacting with timers run from startup.	OS, Timers	4.8.60
Fixed issue preventing status message report from being sent to server during commissioning.	Comms	4.8.60
Improved reliability of BTS continue mechanism during abrupt power cut.	BTS	4.8.60
Eliminate 10 second delay before trip state change on startup.	Trips	4.8.60
Can stops working due to CAN queue length mismatch.	CAN	4.8.66
Fixed incorrect settings of CAN filter to scripts targeting less than 6 messages.	CAN	4.8.66
Fixed vulnerability where config load or resets could cause CAN to fail until next reset or config load.	CAN	4.8.66
Fixed config action state vulnerability by persisting config action states before non-volatile parameters.	Config	4.8.66
Fixed DTCO file upload bug.	BTS, DTCO	4.8.66
Fixed config edge case causing missing trips.	Config, Trip	4.8.66

Known issues with workarounds

Description	Severity
UBLOX modem FW bug – remove workaround when new FW available.	Low

Known issues to be addresses

Description	Severity
Accelerometer lock up.	Med
Comms outages and related issues affecting live tracking performance.	Med
Soft reset mid-trip can lead to odometer discrepancies.	High
Power loss (cold boot) mid-trip can lead to missing Tacho for section prior to cold boot.	High
GPS TTFF improvement to address jumps from garages or tunnels. GPS jumps when departing from garage.	Med