



TELEMATICS
MOBILE INFORMATION EXCHANGE

Version 1: 29 September 2022



MiX 4000
Release Notes

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New features and enhancements

Description	Component	Version
MiX 4000 - Disabled G450 GSM jamming detection since the current modem firmware version in production does not support actual jamming detection and comes at a comms performance cost with no gain.	GSM	4.12.7
DTCO Driver ID lookups on config (onboard) will now work correctly with renewed DTCO Driver ID cards.	DTCO, Driver ID	4.12.7
GPS performance improved by increasing the NMEA buffer. Watchdog resets prevented by halting high-load systems when device load is high.	GPS	4.12.8
Reduce the time wasted on waiting for non-responsive modem AT commands, thereby improving comms delays.	GSM, Comms	4.12.9

Fixes

Description	Component	Version
Removed excessive extended mode debug spam from gsmSvcModem.	Diagnostics	4.12.7
Resolved a PMM transition issue which delayed the unit from switching to external power supply long enough for the internal battery low voltage persisted fault to be set due to under-voltage.	Battery, Power Management	4.12.7
Modem specific vendor firmware versions will now be correctly reported by the unit.	Diagnostics	4.12.7
Fixed 4.8 regression where RBTS result codes from MCS was not handled. Previously this could lead to missing tacho blocks.	BTS	4.12.7
MiX TechTool: iPhone X will now also support with Nordic NRF Bluetooth module.	Bluetooth	4.12.7
GPS odometer value is changed to no longer accumulate between trips.	Odometer	4.12.8
Will no longer incorrectly report jamming while initializing the modem on ublox 3G modules.	GSM	4.12.8
Magix Transceiver will now be reinitialized every 16 minutes if no Magix message was received to ensure RF Transceiver has not locked up.	Magix	4.12.8
Will no longer assume a loss of coverage when the modem reports jamming, as the Quectel modems frequently report jamming while remaining connected. This reduces comms delays when the modem reports jamming but is still able to communicate.	GSM	4.12.9
Various fixes and changes aimed at improving overall modem registration performance on the BG96, with some changes also positively affecting EG912.	LTE, Comms	4.12.9
Introduced a fix to handle ambiguous OK and Error responses of EG912 modem to the AT command AT+QJDCFG.	LTE	4.12.9
Implemented a change to set Quectel modem to use numeric representation of network. Without this change, units experienced problems with connectivity in some regions of Brazil.	LTE, Comms	4.12.9

Known issues

Description	Severity
Comms delays on MiX 4000 seemingly resulting from bad network conditions.	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
