

Version 1: 11 March 2022



MiX 4000
Release Notes

Table on contents

New features and enhancements.....	3
Fixes.....	3
Known issues.....	4



New features and enhancements

Description	Component	Version
Additional baud rate options added for scriptable CAN (10k, 20k, 33k, 50k, 100k, 800k).	CAN	4.10.1
Quectel EG912YEUAD and modem support – TI Bluetooth only.	GSM	4.10.2
Quectel BG96MA modem support – TI Bluetooth only.	GSM	4.10.2
Correct configuration for post AT&T 3G Sunset operation.	GSM	4.10.2
Report GSM Modem Manufacturer details parameter with diagnostics message.	Diagnostics	4.10.5
TI CC2564 Blue Tooth Transceiver Revision support.	Bluetooth	4.10.8
Added Iridium network coverage parameter for diagnostics purposes.	Diagnostics, Iridium	4.10.8
Added new Telenor APN (tlnr01.mixtel.cxn) for new IMSI prefix.	GSM	4.10.9
Added new APNs for Nigeria (best.net, moove.net, obctracking.net) .	GSM	4.10.10

Fixes

Description	Component	Version
Improvements to circle location handling to better compensate for the shape of the earth.	Locations, On-board Geofences	4.10.1
Config enhancements around the maximum number of acronyms managed and internal improvements around caching.	Config Parameters	4.10.1
Ensure that GPS starts up reliably after external power recovers from dipping below 6.5V.	Power Management, GPS	4.10.1
CAN baud rate enumeration bug fixed.	CAN	4.10.1
Reverse BTS will now wait for the transfer result before closing the connection.	BTS	4.10.6
Config Engine will now latch positions for all event and geofencing checks. GPS position parameter updates occur asynchronous from the config cycle and this could lead to event trigger and event logging GPS position mismatches.	Events, GPS, On-Board Geofences	4.10.7
SARA U201 modem type detection issue addressed which previously led comms lockups.	Comms	4.10.7
The internal battery charging will now halt for the following two conditions: when going out of trip with external low and when the modem boosts out of sleep.	Battery, Power	4.10.8
The GSM back-off will now be correctly capped to 5 minutes if the vehicles speed is above 30 km/h.	GSM	4.10.8
Addressed a vulnerability with issuing AT command AT+USOWR that could previously get stuck if a URC was received instead of the @ token, leading to modem resets in order to recover.	Comms, GSM	4.10.8
All responses for Iridium modem AT command AT+SBDWB will now be correctly handled which previously was causing the modem to lose coms until OBC was reset.	Iridium	4.10.8

Addressed a uBlox U201 modem specific flash wear leveling vulnerability by limiting the unit from resetting the modem to more often than every 2 hours.	Comms, GSM	4.10.9
LTE Commissioning will no longer back off for 15 minutes between APN selection retries.	Comms	4.10.9
Quectel EG912 GSM jamming will now be able to detect every subsequent jamming event after having detected "possible jamming" previously.	GSM	4.10.10

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