Flightcell
Always Connected

DZMx Firmware Release Notes

Platform 3/4

Version	Date	Features	Bug Fixes
v4.11.0	24 Jan 2024	Guardian Mobility G6 Certus Terminal Support Network failover capability GDL-90 UDP streaming of ADSB-IN data for EFB AIS NMEA-0183 UDP streaming of AIS data for EFB Enhanced Wi-Fi Security Enhanced fill detection for fire tanks Installer setting to disable incoming call ring tones	Fixed issue with iridium Service Centre numbers Correction to generation of google maps URL for email and SMS Fixed issue with A.R.M mode and Geofence Fixed issue with call updates in DZMx Connect Fixed Wifi-Ethernet forwarding

v4.10.0	15 Mar 2023	Software-Defined Radio support. New and improved Automated Event Notification feature.	Fixed issue with Forms loading correctly on start-up from v4.9.1.
v4.9.1	04 Aug 2022	Firmware-Over-The-Air (FOTA) upgrades for WP7610 modem (USA 4G modem).	Fixed an issue with Sierra WP7610 modems on LTE only networks where APN registration was not succeeding. Fixed an issue with Sierra Wp7610 modems where SMS memory was incorrectly configured on some units. Fixed an issue with Remote Head upgrades causing the screen to go black.

| v3.9.0 / v4.9.0 | 21 Jun 2022 | Added accented character entry and display in DZMx Connect and DZMx Manager.

Phonebook names and other text field entries can now add and edit upper and lower case characters via the DZMx keypad. | Fixed cause of Bluetooth call drop outs and autoconnect issues.

Modified rollover time of Daily Flight Time to reduce cumulative errors. Will now roll over to next +0.1 after 3, 9, 15 minutes etc instead of 6, 12, 18 minutes etc.

Improved form entry error handling via DZMx Connect and DZMx Manager. Form entry page will no longer vanish, losing all data entered so far, if a field is incorrect or not complete.

Fixed received SMS messages containing accented characters resulting in an empty SMS being received by the DZMx.

Fixed occasional SMS tracking message corruption issues when sending via an external Iridium Extreme phone.

Fixed Hobbs timers reset buttons so that they cannot be reset from the DZMx Manager whilst in flight and enabled Trip Timer reset whilst in flight via the DZMx keypad.

Fixed occasional data connection drop-out on some types of cell modems. |

			Fixed tracking over IP occasionally leaving sockets open. Corrected labelling of secondary ethernet settings. DZMx will now maintain external port configuration after an upgrade.
v3.8.2 / v4.8.2	17 Mar 2022		Corrected issue with DHCP server configuration that caused failure in address assignment Corrected issue with IEC card upgrades
v3.8.1 / v4.8.1	15 Feb 2022	Added support for enable/disable of IP forwarding from DMZx Wi-Fi to Ethernet interfaces. Added setting to enable/disable inclusion of position data in quick messages	Corrected issue where screen goes blank on pickup of Bluetooth call. Improved reliability of data connection with Sierra WP76XX modem series. Corrected issue with cellular band selection for Sierra MC7304 modems Corrected issue with answer call not working correctly in DZMx Connect. Corrected issue with debug port configuration from within DZMx Connect

| v3.8.0 / v4.8.0 | 09 Jul 2021 | Added support for creating and filling in multiple forms from the DZMx and also via DZMx Connect app

Added AFDAU (Aerial Firefighting Data Acquisition Unit) interface on the RS232 serial port

Added additional external backlighting control mode for variable night / variable day backlighting, as alternative to fixed day / variable night backlighting.

Added EU and APAC WP76xx modem support

Dropbox interface updated to use the latest Dropbox authentication method. Any users still using the dropbox functionality with pre vX.8.0 must upgrade to use this version as Dropbox will not be supporting the older authentication method after September 30th, 2021 | Corrected issue where SBDs would not be transmitted if there was no SIM fitted

Corrected issue where call forwarding was reported as failed, when it had in fact succeeded. Also added more meaningful error messages on failure when due to the network not allowing call forward number to be changed or disabled.

Corrected issue in Hobbs counters where extra an landing count was added if the GPS signal was lost (only affected 'speed only' take-offs)

Corrected audio issue for DZMx fitted with WP76xx US modem

Old HD enabled setting is now translated correctly to new HD Tracking Mode (Cell HD) when upgrading unit from pre-vX.7.0 versions

Corrected 'download latest firmware' function on DZMx Connect that was downloading the latest Platform 4 package, regardless of the device platform |

		Added support for configuration of secondary ethernet DHCP modes Added user configurable IO capability Added 15 second tracking support via Iridium (Full HD mode) Added flight monitor function: collision detection, vertical rate exceedance, g force, pitch and roll exceedances. Added VOIP support (Alpha) for internal calls and external call from mobile client. Hobbs engine starts and landings counters are now daily counters and are reset at the same time as the DFT. Added maintenance check due countdown timer to Hobbs timers page. The maintenance email is now sent automatically every time the DFT is reset. This email now also includes the maintenance data as a json file attachment. Added internet connectivity monitor and automated speedtest.	Multiple improvements to Toby L2 modem reliability Corrected issue with reset of Hobbs meter from DZMx Connect Corrected issue with ethernet static IP configuration Corrected issue with bluetooth losing pairing information on FW update Corrected issue with audio system startup in platform 4. Corrected issue with Wi-FI DHCP failure on startup. Removed popup with non-critical warning about IP tracking. Corrected issue with IO event logging. Additive reporting fixed due to tank protocol change
v3.7.0 / v4.7.0	25 Jan 2021		
v3.5.2	30 Sep 2020		Corrected issue with file system synchronisation that could cause configuration file corruption on abrupt power down.
v4.6.1	30 Sep 2020		Updated Toby L2 modem handling to support alternate EPS bearer settings for LTE connectivity (resolves issue with Telecom Italia data connection)

v4.6.0	10 Aug 2020	Added support for DZMx Plus remote head Additional support for Sierra WPR76xx modem series Added settings file to USB log export	Corrected firmware upload file size limitation issue Corrected issue with new firmware detection in DZMx Connect Updated Toby L2 modem handling to provide better support for Vodafone SIM cards
v3.5.1 / v4.5.1	23rd June 2020	Added support for Sierra Wireless 7610 modem Added support for hardware version number in DZMx Connect Updated the Kawak fire tank interface to allow tank filling from a tanker on the ground	Corrected issue setting the default PTT talkgroup Improved version 4 start up timing Corrected issue with direction finder display updates in Firefox browser Corrected issue with DZMx Connect displaying signal metrics for cell modems Corrected Kawak fire tank issue where multiple drops were being reported during a single drop

| v3.5.0 | 1st May 2020 | Asset Tracking (Bluetooth Low Energy Beacons):

• Automated asset manifest creation and reporting
• IQOnboard Bluetooth Beacons supported

Hobbs/Maintenance Counters:

• Added engine start and landing counters
• Added email reporting
• Hobbs reporting changed from 2 decimal places to 1 decimal place, to match mechanical meters.

Email service:

• Added outbox function to queue emails

Custom Applications:

• Kawak fire tank update
• Preferred network route selection via API for dual cell modem systems
• SIM card no longer needed for SBD messaging (not applicable to a DZMx working with a cradle)

Modem Support:

• U-Blox Toby L2 series modem support
• Sierra WP76XX series mode support (beta)

Platform Support:

• Initial Platform 4 firmware support | Corrected cell tracking configuration error popup issue

Corrected calling issue on second cell modem |

		• Initial DZMx Plus firmware support	
v3.4.0	2nd December 2019	Custom Applications: • Support for Kawak fire tank • PTT - Faster update of talk group lists • Implemented support for AIS marine vessel location system Tracking: • Suspend/resume periodic tracking via SBD message Updated Iridium Service Center options	Corrected issue with incorrect flight state on start-up Corrected issue with load manager reports Corrected issue with Agriculture application job number and totals
v3.3.1	1st August 2019		External modem now correctly detected after system reboot

v3.3.0	15th Jul 2019	Custom Applications: • Load management application added to DZMx Connect • Rotheta RT-600 Direction Finder Support added to DZMx Connect • Updated Ag application to better handle take-off/landing events Tracking: • Added manual mark with color code feature to front panel interface • Added quick message SMS to multiple contacts/tracking provider using numeric shortcut keys. Bluetooth Phonebook Support DZMx Connect can now store a list of manual connections Privacy: Call/SMS logs - added auto-deletion feature	Fixed issue with Satellite modem locking up on SBD registration Corrected handling of DZMx Connect email password entry Fixed issue with spurious call forwarding notifications when modifying operator BT controls. Fixed issue with firmware upgrade Fixed issue with SBD not going out on SBD only modem User can now modify / enter phone-book contacts from the front panel interface
v3.2.2	9th May 2019		Resolved Bluetooth issues with hands free (HFP) and media (A2DP) connectivity. Email configuration password setting has been added to DZMx Connect.
v3.2.1	10th April 2019		Firmware upgrades were not initialising for some customers. This was relevant to both USB and DZMx Connect upgrade methods.

		Added logging and reporting of cellular and satellite network coverage and radio performance. Add Telit LM940 cellular modem support (better Cellular 4G support on US networks). Cellular Band Select: additional settings for enabling and disabling individual LTE bands for Sierra Wireless 4G modems. Added Call Forwarding support for Cellular networks (requires network support). Tracking: now supports sending a generic Manual Position/Mark tracking event triggered from a DZMx input. Modem Audio configuration: • Allows assignment of a specific ICS channel per modem • When multiple modems are sharing the same ICS, audio priority can be set per modem for auto muting lower priority calls • In multiple modem configurations, dial interface allows choice of which modem (i.e. ICS channel) to use Audio Cancellation on discrete input: an input can be configured to cancel any current playing tone so a pilot can dismiss audio alerts (if the tone is an incoming call the ring is muted but the call is not cancelled). FDR notification: users can now be auto-notified by email once a flight has	Audio sidetone no longer forced on, now adheres to setting option (can be off or 'on in call'). Fixed Bluetooth call issue when multiple phones are connected to the DZMx simultaneously. Fix to Bluetooth name changing when using DZMx Connect. Fixes to USB drive file copying (improvements when using Dropbox). Fixed a bug when upgrading using a USB stick which has been plugged into a MacOS computer. Other minor bugfixes.
v3.2.0	28th March 2019		

| | | completed so they can quickly access to FDR data and other logs.

Bluetooth Call Alert: can add ringtones for incoming and outgoing calls for phones that don't generate them.

Bluetooth and Wifi on/off control (new EASA requirements):

- Installers can now prohibit Operators from turning wireless on and off
- Wifi and Bluetooth can now be disabled/enabled using a discrete input

DZMx Connect Contacts now highlight the speed dial numbers.

Added ability to enter a manual IP address in DZMx Connect which assists in situations using external routers.

External User Interface (XUI over RS485) now allows control of DZMx menus externally. | |
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| v3.1.1 | 8th February 2019 | Improved external backlighting control | Firmware upgrade fixes |

v3.1.0	December 2018	Auto-Connect for Bluetooth now supported. Iridium PTT Enhancements: • Option for PTT to start as the default application • Iridium modem starts in PTT mode without a SIM • Caller location provided • The ability to export caller location • Aircraft location tracking over PTT Three Internal timers added: • Total Time Airframe Hours (TTAF and also known as Hobbs Meter). Once set it is non-resetable • Daily Flight Timer (DFT) • Trip timer Advanced Cellular band select: can now select an individual GSM/WCDMA band using the advanced band select. External DZMx control: XUI interface now supported over ARINC-429 as well as RS485. Helicopter rotor brake and winch reporting to tracking provider for New Zealand National Ambulance Sector Office (NASO). Added external modem configuration to UI menu option (previously was only available in DZMx Connect only). Added support for secondary Ethernet Interface and fail-over routing.	Stability fixes. Fixed the inability to reject incoming Sat calls. Bluetooth audio volume control: fixed 10 second delay, fixed one way only audio when call initiated from mobile device. Fixed occasional audio hiss at startup. Improved firmware upgrade version checking.

		External DZMx control: API now supports answering incoming calls. Added barometer support for the Flight Data Recorder.	
v3.0.0	September 2018	v3.x.x firmware is a new software platform that supersedes firmware v2.x.x. It has different architecture to v2.x.x and it is an enabler for DZMx WiFi and Bluetooth functionality. This firmware only works with new DZMx hardware that supports built in WiFi and Bluetooth and High Definition (HD) audio.	