

# **DATRAN XL4 *Plus* RTU**

## **FIRMWARE VERSION 7.10**

**March 2019**

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# Introduction

QTech advise that we have released DATRAN XL4 Plus RTU Firmware version 7.10.

While this release adds new functionality, it is primarily a maintenance release.

The previous release was V7.09.

QTech views this as an important upgrade and strongly recommends that all DATRAN XL4 Plus RTUs are upgraded to this firmware version. QTech requests that a list of the Serial Numbers of all RTU's post upgrade to this version of firmware is provided to us to assist us in monitoring its use and efficacy.

The following sections of this document describe the enhancements and the installation prerequisites.

Your feedback on the product and possible future enhancements is always appreciated.

Please contact QTech on +64 3 366 3713, or email to [techsupport@qtech.co.nz](mailto:techsupport@qtech.co.nz).

# Prerequisites for Upgrade

- **Hardware Platform**

The DATRAN XL4 Plus RTU Firmware Upgrade is designed for both the XL4 *Plus* and the previous model XL4 RTUs.

NB To upgrade a DATRAN XL4 RTU to a XL4 *Plus*, please contact the QTech sales team at [sales@qtech.co.nz](mailto:sales@qtech.co.nz) to order the upgrade licence key. You will need to supply the serial number of the RTU to be upgraded.

- **Firmware Options Licencing**

All pre-existing licence options for the RTU to be upgraded shall continue with this firmware upgrade.

- **Firmware Upgrade Process**

**For an existing XL4 *Plus* RTU:**

To upgrade an RTU which already has XL4 *Plus* firmware, ensure you are using at least version 2.6 of QTech's Workbench (available for free download at [https://www.qtech.co.nz/shop/Telemetry+Hardware/Workbench/x\\_sku/00936.html](https://www.qtech.co.nz/shop/Telemetry+Hardware/Workbench/x_sku/00936.html)).

Then follow the procedure in the User Manual, or the [Application Note – “Upgrading QO4 firmware to QO4 Plus on an XL4 RTU”](#), noting Points 8 and 10 in particular.

**XL4 RTU to XL4 Plus using this Firmware version:**

For assistance in upgrading an XL4 RTU for which you have purchased a new XL4 *Plus* license, please ensure that you follow the [Application Note – “Upgrading QO4 firmware to QO4 Plus on an XL4 RTU”](#), and have read the [Application Note - “Guide to Porting XL4 to XL4 Plus V1.2”](#).

## Summary of Changes

The reason for change includes bug fixes but key modifications relate to:

- The File system consistency check is long running (10 or so seconds), and while running the Digital sampling task (and probably others) are not being serviced (performance improvements)
- NAOs displayed at the master and arriving at the slave are not the same as the values configured at the base station (out of order)
- MAO to slave RTU incorrect

## Summary of Resolved Issues

The following issues have been resolved since the last release of DATRAN XL4 Plus RTU firmware.

QTech ID	Category	Description
6812	Communication Protocols	NAO to slave RTU now correct.
6830	RTOS	Modified DLP scheduling.
6800	Communication Protocols	DLP no longer corrupted by polling RTU.
6808	Communication Protocols	NAOs displayed at the master and arriving at the slave are now the same as the values configured at the base station.
6825	Communication Protocols	Point count comparison function has been corrected.
6826	Communication Protocols	Data table update behaviour modification.
6807	Communication Protocols	RTU now sends RDG appropriately.
6793	RTOS	Implemented Watchdog timer for use in catching RTU "lockup".
6797	RTOS	Pre-emption now working correctly.
6755	Communication Protocols	Coils at address > 64 can be set and cleared (when using "write multiple coils")

## Disclaimer

While every endeavour has been made to ensure that the product description is accurate, details are subject to change. QTech Data Systems Ltd reserves the right to alter the product and system specifications if required. It is QTech's firm intention to continue to develop the features of the DATRAN VI product range and add additional modules.

QTech Data Systems Ltd does not warrant the suitability of this product for any particular application as the conditions in which the application is used are beyond QTech's control. This is notwithstanding warranty of merchantability.

Many systems are now connected to the Internet. QTech Data Systems Ltd cannot guarantee these services as being available or functional all of the time as network connections are beyond QTech's control.

## Ongoing Support

QTech Data Systems Ltd encourages clients to configure their systems to allow remote access via a direct connect modem or Internet based VPN. This allows for off-site support from QTech staff.

QTech Data Systems Ltd provides options for support services and maintenance agreements, please talk to your QTech sales representative. Support services outside the scope of any maintenance agreements shall be charged at QTech's standard Engineering Support hourly rate plus disbursements.