

# Product Release Notice

## DATRAN DLP IDE

### Product Release Notice

Software version 4.04

April 2021

Rev 1



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## Introduction

QTech advise that we have released DATRAN DLP IDE Software Application version 4.04.

QTech views this as an optional upgrade but is required to operate XL4 *Plus* RTUs connected to Modbus slave devices that implement 32-bit Floating-Point Modbus registers. Please also refer to the release notice for XL4 *Plus* RTU Firmware v7.16.

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.

## Summary of New Features and Modifications

The following new features have been introduced into DATRAN DLP IDE v4.04.

### New DLP Functions

The following functions have been added to the DLP library of instructions to convert between 16-bit Integer values and 32-bit Floating-point values in both big- and little-endian formats. Floating point numbers must be represented in IEEE-754 single precision (binary32):

<b>Convert a floating-point number to an integer</b>		
<b>Endian-ness</b>	<b>Precision</b>	<b>Command</b>
Big	4 bytes (single)	<code>be_float_to_int</code>
Little	4 bytes (single)	<code>le_float_to_int</code>
Big	8 bytes (double)	<code>be_double_to_int</code>
Little	8 bytes (double)	<code>le_double_to_int</code>

<b>Convert an integer to a floating-point number</b>		
<b>Endian-ness</b>	<b>Precision</b>	<b>Command</b>
Big	4 bytes (single)	<code>be_int_to_float</code>
Little	4 bytes (single)	<code>le_int_to_float</code>
Big	8 bytes (double)	<code>be_int_to_double</code>
Little	8 bytes (double)	<code>le_int_to_double</code>

Please [click here](#) to download the application note which provides a worked example of use with the Swan AMI Turbiwell Turbidity meter.

## Updates

A fix is provided which rectifies compilation of older ASM files using an obsolete syntax for COSMASK. The latest syntax for this instruction should be used in all new programs.

An issue was fixed for Windows 10 installations which restrict access to the %PROGRAMDATA% folder. There was a problem with access rights to DLP IDE configuration files resolved by storing the configuration files in the users %APPDATA% folder instead of the %PROGRAMDATA% folder. Please also see the known issue below.

Also, to avoid restrictions to access rights when writing to the registry in Windows 10, the licence key is now stored in the HKEY\_CURRENT\_USER rather than HKEY\_LOCAL\_MACHINE.

## Known Issues

### Software License Key

The improvements made for Windows 10, and IT privilege restrictions, changes where the license key is stored. This change may create issues for users updating from prior versions of DLP IDE.

The symptom is the licence key cannot be found, and the application will not run properly. The resolution is to re-apply the licence key so that it is stored in the new location.

If you do not have a properly licenced copy of the application or cannot find your licence key, please contact us for assistance.

## Prerequisites for Upgrade

This version replaces all previous versions of DATRAN DLP IDE.

### Backward Compatibility

This is a full release version and replaces all existing versions.

### Software Licensing

No additional licensing is required for registered users and multiple user licenses are available as required.

### Close Applications

It is recommended that all applications running on the target machine be closed before an update is started.

### PC Reboot

The Target Machine does not have to be restarted after the installation.

## Ongoing Support

QTech Data Systems Ltd encourages clients to configure their systems to allow remote access via a directly connected modem or internet-based VPN. This allows for off-site support from either QTech Data Systems Ltd staff, or in-house staff outside of work hours.

## Reference Documentation

Please also refer to these documents available from our website:

Application Note - XL4 Plus Floating-Point Numbers

Release Notice - DATRAN XL4 Plus RTU Firmware V7\_16

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#### QTech Data Systems Ltd

12 Midas Place, Middleton, Christchurch 8024

PO Box 9087, Tower Junction, Christchurch 8149

Ph: +64 3 366 3713

[admin@qtech.co.nz](mailto:admin@qtech.co.nz)

[techsupport@qtech.co.nz](mailto:techsupport@qtech.co.nz)

[www.qtech.co.nz](http://www.qtech.co.nz)