

# TTC Download Library

## Release Notes

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The product or Sample is only allowed to be used in the scope as described in section "System Overview". Please note that based on the current state of the art in science and technology, it is impossible to develop software that is bug-free in all applications.

Contents

**1 Introduction 3**

1.1 Version Overview . . . . . 3

1.2 Compatibility . . . . . 3

**2 Installation Instructions 4**

2.1 Supported Operating Systems . . . . . 4

**3 Update Instructions 5**

**4 Revision Details 6**

4.1 New Features . . . . . 6

4.2 Fixed Issues . . . . . 6

**5 Known Issues 8**

**References 9**

**Legal Disclaimer 10**

## 1 Introduction

This document lists all new features, new functions and bug fixes which are available with the software release 1.2.0 for the TTC Download Library. Please read this document carefully, it also contains information on compatibility and instructions on updating the TTC Download Library.

The latest software release and documentation can be found on the service area on our website.

URL <https://www.ttcontrol.com/service-area/>

Username ttcontrol

Password +Flexibility

### 1.1 Version Overview

The following software versions are included in this release:

	Version
TTC Download Library for Windows x86	1.2.0
TTC Download Library for Windows x64	1.2.0

The following document versions are included in this release:

Artefact ID	Title	Version
D-TTCSW-DN-20-002	TTC Download Library 1.2.0 Release Notes	1.0
D-TTCSW-G-20-005	TTC Download Library 1.2.0 API Documentation	1.2.0

### 1.2 Compatibility

The TTC Download Library version 1.2.0 is fully compatible to older versions.

## 2 Installation Instructions

To install the TTC Download Library simply copy the TTC Download Library release folder to the desired project location.

### 2.1 Supported Operating Systems

Following operating systems are supported by the TTC Download Library version 1.2.0:

- Windows 7 (32-bit and 64-bit)
- Windows 8 (32-bit and 64-bit)

### 3 Update Instructions

To update a previously installed version of the TTC Download Library simply overwrite the old TTC Download Library release folder with the newer one.

## 4 Revision Details

This section summarizes all changes w.r.t. the last officially available release of the TTC Download Library version 1.0.1.

### 4.1 New Features

#### Support for Windows x86

**88521/TTC Download Library**

The TTC Download Library is now also available for Windows x86 applications.

### 4.2 Fixed Issues

#### Application download fails

**83806/TTC Download Library**

With version 1.0.1, the call of `DLD_Download_Flash_File()` caused a segmentation fault when trying to download an application to a target.

#### Access to protected memory areas is granted

**84378/TTC Download Library**

With the previous version of the TTC Download Library, read and write access to protected memory areas was illegally granted.

#### DLL entry point `DLD_Write_Flash` cannot be found

**84465/TTC Download Library**

In version 1.0.1, function `DLD_Write_Flash` was not properly exported causing an error upon each call to this function.

#### Application CRC does not detect a corrupted application

**85209/TTC Download Library**

The previous version of the TTC Download Library allowed to download corrupted Intel Hex and Motorola S-record files. This version rejects application files that contain an invalid application. Note that the application CRC does not get recalculated upon download anymore, i.e., the application CRC of the target APDB will show the same value as the application CRC of the selected file.

#### Possible receive queue overrun at custom driver

**87321/TTC Download Library**

When using a custom CAN driver with version 1.0.1 of the TTC Download Library, the receive queue of the CAN adapter was prone to overrun during the connection procedure. With version 1.2.0, an additional callback function for clearing the receive queue can be provided when registering a custom driver. Refer to the API documentation of the TTC Download Library for more details.



Note that the functions `DLD_Driver_Register_Custom_CAN` and `DLD_Driver_Register_Custom_UDP` are deprecated with version 1.2.0 of the TTC Download Library.  
Please use the functions `DLD_Driver_Register_Custom_CAN2` and `DLD_Driver_Register_Custom_UDP2` instead.

**Application download is not possible if the password protection is enabled**  
**Download Library****87692/TTC**

With version 1.0.1, the application download always failed in case the password protection was enabled on the target. Note that with version 1.2.0 the application download is always possible without knowing the correct password even if the password protection is enabled on the target.

**EEPROM/flash file download is not possible if the password protection is enabled**  
**Download Library****88386/TTC**

With version 1.0.1, the EEPROM and flash file download always failed in case the password protection was enabled on the target and an incorrect password was set.

**Connect to target fails if hardware type contains hexadecimal digits [A-F]**  
**Library****88626/TTC**

The previous version of the TTC Download Library was not able to connect to any target whose hardware type contained at least one hexadecimal digit [A-F].

**Application version in APDB is not set correctly****88848/TTC Download Library**

With the previous version, the revision field of the application version stored in the APDB was always set to zero upon application download.

## 5 Known Issues

This section lists all issues that are not fixed with the current release of the TTC Download Library.

### **Built-in CAN drivers are not implemented**

**89663/TTC Download Library**

The built-in CAN drivers PCAN-USB, PCAN-PCI and Softing CANpro have not been implemented, yet.

### **Workaround**

Use the custom CAN driver with callback functionality to connect to targets via CAN.



## References

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