

## ***Spectrum Controls Modules DTM Library***

The Spectrum Controls Modules DTM Library is delivered as a standalone Setup for the 1769sc-IF4IH and 1769sc-OF4IH Module.

The following features/functions are released:

- Automatic discovery of HART devices attached to a 1769 HART module (local or remote).
- Communication with the discovered HART devices attached to a 1769 HART module.

This library requires FactoryTalk® Linx™ CommDTM and provides communication capability between HART devices and HART DTMs, so that asset management for HART devices is possible.

### **Products or Specific Components**

- 1769 I/O System

### **Supported Frame Applications**

The Spectrum Controls 1769 Module DTM Library supports the following FDT Frames:

- Endress+Hauser FieldCare 2.14
- PACTware 5.0

## **System Requirements**

### **System Resources**

Proper execution of the DTMs requires a standard PC with at least the following system resources:

- 1 gigahertz (GHz) or faster 64-bit (x64) processor with at least 2 cores
- 4 gigabytes (GB) RAM

### **Operating Systems**

The DTMs of the DTM library will run under the following operating systems:

- Windows 10, version 2004

## Requirements

The Spectrum Controls Modules DTM Library requires approximately 100 MB hard disk space and .NET 3.5.

## Used Components and Licenses

Component	Copyright Information
Apache log4net 1.2.10	Copyright (c) 2004-2006 The Apache Software Foundation
Bootstrap 3.3.7	Copyright (c) 2011-2017 Twitter, Inc. Copyright (c) 2011-2017 The Bootstrap Authors
DotNetZip 1.9.1.8	Copyright (c) Dino Chiesa 2006 - 2011
jQuery 2.1.1	Copyright (c) 2005, 2014 jQuery Foundation, Inc. and other contributors
Mark.js 8.11.1	Copyright (c) 2014–2018 Julian Kühnel
OpenSans 1.0	Copyright (c) Project contributors
SharpZipLib 0.84	Copyright (c) 2000-2005 SharpZipLib Contributors
ZLIB.NET 1.0.3	Copyright (c) 2006 ComponentAce
FDT-JIG FDT Interface Assembly 1.2.1.0	Copyright (c) 2005 FDT-JIG
DevExpress .NET 2005 6.3.9	Copyright (c) 2000-2006 Developer Express Inc.
locomp .Net WinForms 4.0.0	Copyright (c) 1998-2008 locomp Software Inc.
Sanford State Machine Toolkit 1.0.1.1	Copyright (c) 2007 Leslie Sanford
Microsoft Libraries (Visual Studio - Windows)	Copyright (c) Microsoft Corp.

Relevant license texts and notices are accessible via the document “index.htm” that can be found in the folder “Licenses” in the main installation path.

## Installation

Execute the installation package and follow the instructions of the setup wizard to complete the installation.

## Limitations

ID	Description	Symptom
TP-27425	Reconnection of modules does not work automatically	<p>NOTE: The 1769 platform does NOT support hot-swapping of modules.</p> <p>After a hot unplug of a module, a connection to this module and its connected devices can no longer be established, even when the module is plugged in again.</p> <p>Instead, a partial transfer error occurs continuously in the frame application.</p> <p>Studio 5000 show an error message for this module.</p>
TP-28101	Scan can take a long time for some controllers	For older controllers (for example, 1769-L61) the scan of connected I/O modules can take several minutes; in special cases up to an hour. This is due to the way these controllers work.
TP-28101	Cable breaks are not detected immediately in order to increase compatibility	In order to detect a cable break, the communication is stopped after a fixed number of retries. Since many possible controllers with different temporal behavior should be supported, the detection of cable breaks is not optimal.