Release Notes

DTM Library

Version 6.00

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1. Components of Current Product Version

The Trebing + Himstedt DTM Library includes the CommDTM PROFIBUS DP-V1, the CommDTM ET 200M, the CommDTM ET 200iSP and the CommDTM DP/PA Link.

Component	DTM System Files	Version
DTM Library	Install_DTMLib.exe	6.00
CommDTM PROFIBUS DP-V1	CommDtm_PROFIBUS_DPV1.dll ProfibusDll.dll BusParamDlg.dll EngineeringImporter.dll	6.00 2.0.0 6.00 6.00
CommDTM ET 200M CommDTM ET 200iSP	ET200.dll	6.00
CommDTM DP/PA Link	DP_PA_Link.dll	6.00
Common Components	AboutDlg.dll SetAdrDlg.dll SetChildDtmAdr.dll SetDtmAdrDlg.dll DTMSLM.dll	6.00 6.00 6.00 6.00 6.00

Related Documentation

Title	Language	Version
DTM Library – Installation Manual	EN/DE	1.03
User Manual - CommDTM PROFIBUS DP-V1	EN/DE	1.03
User Manual - CommDTM ET 200M	EN/DE	1.03
User Manual - CommDTM ET 200iSP	EN/DE	1.03
User Manual - CommDTM DP PA Link	EN/DE	1.03
User Manual - CommDTM DP PA Link	EN/DE	1.03

2. System Requirements

The following operating systems are supported in English and German:

Operating system	Bit version
Windows 7	32 Bit and 64 Bit
Windows 8.1	32 Bit and 64 Bit
Windows 10	32 Bit and 64 Bit
Windows Server 2012 R2	64 Bit only

Hardware Requirements

Your PC should meet the following minimum requirements:

CPU:	Intel Pentium 4; 1.8 GHz
RAM:	512 MB
Free hard disk space:	40 MB
NIC:	100 MBit/s (only for application with the TH LINK PROFIBUS)

Communication on TH LINK PROFIBUS requires a working Ethernet infrastructure (network card, switch, etc.).

Software Requirements

Requirement to use the DTM Library is an FDT frame application according to FDT Specification 1.2 + Addendum and the Adobe Acrobat Reader 8.0 or higher to open the manuals.

Example for supported FDT frame application:

- FieldCare Version 2.10
- PACTware Version 5.0

3. Scope of Release

The DTM Library 6.00 and the related documentation is available for download from our download area http://industrial.softing.com/en/downloads.html in German and English language. After successful installation, all manuals will be available locally on your system.

If you want to use the DTM Library as a demo version with unlimited functionality, please contact our support. You will obtain a license key allowing you to use the demo version with unlimited functionality for 30 days from date of installation. If you want to use the DTM Library for longer than these 30 days, you need to license the software. Please consult the Installation Guide for further information.

Note:

All integrated components are not restricted by embargos or intellectual property rights.

4. Compatibility

CommDTM PROFIBUS DP-V1

PROFIBUS access	Hardware	Firmware	Baudrate
TH LINK PROFIBUS	V. 2.0	6.0.0.0.0 and later	32 Bit and 64 Bit
xEPI 2	V. 2.0	4.0.0.4 and later	32 Bit and 64 Bit

CommDTM ET 200M

Module description		Siemens order number
IM 153-2	ET 200M / Link	6ES7 153-2BA00-0XB0 6ES7 153-2BA01-0XB0 6ES7 153-2BA02-0XB0 6ES7 153-2BA81-0XB0 6ES7 153-2BA10-0XB0 6ES7 153-2BA82-0XB0
SM 331	8 channel AI HART	6ES7 331-7TF00-0AB0 6ES7 331-7TF01-0AB0
SM 331	2 channel AI HART	6ES7 331-7TB10-0AB0
SM 332	8 channel AO HART	6ES7 332-8TF00-0AB0 6ES7 332-8TF01-0AB0
SM 332	2 channel AO HART	6ES7 332-5TB10-0AB0
SM 336	6 channel AI HART (fail-safe)	6ES 7336-4GE00-0AB0

CommDTM ET 200iSP

Module description	Siemens order number
IM 152-1 ET 200iSP	6ES7 152-1AA00-0AB0
4 AI – 2 Wire HART	6ES7 134-7TD00-0AB0
4 AI – 4 Wire HART	6ES7 134-7TD50-0AB0
4 AO – HART	6ES7 135-7TD00-0AB0
4F AI - 2 Wire HART EX	6ES7 138-7FA00-0AB0

CommDTM DP/PA Link

Module description	Siemens order number
IM 157 DP/PA Link	6ES7 157-0AA00-0XA0 6ES7 157-0AA80-0XA0 6ES7 157-0AA81-0XA0 6ES7 157-0AA82-0XA0
IM 153-2 ET 200M / Link	6ES7 153-2BA01-0XB0 6ES7 153-2BA02-0XB0 6ES7 153-2BA81-0XB0 6ES7 153-2BA82-0XB0
Coupler	6ES7 157-0AC00-0XA0 6ES7 157-0AC80-0XA0 6ES7 157-0AC81-0XA0 6ES7 157-0AC82-0XA0 6ES7 157-0AC83-0XA0

5. New and changed functions

New functions

Support of ET 200M modules:

- IM 153-2 ET 200M / Link 6ES7 153-2BA10-0XB0
- SM 331 2 channel AI HART
- SM 332 2 channel AO HART
- SM 336 6 channel AI HART (fail-safe).

Changed functions

- None

6. Known issues

Opening projects created with DTM library version 4.0.4.0 or earlier may cause problems for some FDT frame applications. This has to do with the renaming of the company name *Trebing & Himstedt Prozessautomation GmbH & Co. KG* to *Softing Industrial Automation GmbH* in compliance with the entry in the Commercial Register. In this case you will have to create a new project or contact the manufacturer of the FDT frame application.

Projects created with DTM library version 5.00.2 or earlier containing an ET 200M DTM or ET 200iSP DTM, the HART device DTMs of the ET 200 DTMs must be removed from the project and reassigned. The reason for this is the Siemens-compliant renaming of the ET 200 DTM channels in DTM library version 5.01.0. As a result of these changes, DTM frame applications in an older project cannot correctly map HART device DTMs to the channels.

7. Bug fixes

- None

6 Release History

Changes in release	5.01.0	15-Feb-2017

New functions

- Support of Windows 10.
- Support of ET 200iSP module 4F AI - 2 Wire HART EX

Bug fixes

- None

Changes in release	5.00.2	11-Sep-2015

New functions

- None

Bug fixes

- Intermittent HART device communication failures

Changes in release	5.00.1	08-Sep-2015

New functions

- CommDTM PROFIBUS DP-V1: GUI "Engineering Data" included again.

Bug fixes

- None

Changes in release	5.00	20-Aug-2015

New functions

- CommDTM PROFIBUS DP-V1: GUIs "Engineering Data", "Telegram Logger" and "PROFIBUS Diagnosis" removed.
- Conversion to the licensing procedure of Softing Industrial Automation GmbH.

Bug fixes

- When setting a device address for a device which was not part of the bus you previously ended up in a loop.
- When setting a device address of a PA device at the DP/PA link an error message was displayed erroneously.

- When trying to connect chronologically close to multiple PA devices at the DP/PA link the connection establishment was only successful for a part of the PA devices.
- The connection establishment to HART devices at ET 200iSP or ET 200M failed whenever a connection to the CommDTM PROFIBUS DP-V1 had not been established before (i.e. during connection establishment to the HART devices).

Changes in release	**4.0.4.0**	**19-Jun-2012**

New functions

- None

Bug fixes

- ET 200M and ET 200iSP licensing error corrected.
- Memory leak fixed.
- Installation error on Windows 7 operating system fixed.

Changes in release	**4.0.1.0**	**01-Oct-2010**

New functions

- All DTMs of the Trebing + Himstedt DTM Library are certified
- Support of Windows 7 (x32 and x64).

Bug fixes

- Improvement of the resource handling for Condition Monitoring

Changes in release	**4.0.0.9**	**04-Feb-2010**

New functions

- Renaming of GatewayDTMs to CommDTMs
- Manufacturer name changed to “Trebing & Himstedt Prozeßautomation GmbH & Co.KG”
- Appellation license types changed
- Design of graphical user interfaces changed
- Installation folder changed

<u>New functions for *CommDTM PROFIBUS DP-V1*</u>

- Renaming of „CommDTM PROFIBUS Master DP-V1“ to „CommDTM PROFIBUS DP-V1“
- Improvement of bus parameter configuration:
  - Simplified and faster hardware search.

- Test bus parameter:

  The user can check his settings before saving. In case of faulty configuration an exclamation mark assign the incorrect cell. A detailed error description is displayed in the error monitor of the FDT frame application.

- Check of parameter settings before establishing an online connection.

- When using the TH LINK PROFIBUS the following additional functions are available:

  PROFIBUS Diagnosis

  - Provides diagnosis information about the PROFIBUS network and its stations.
  - Includes the views: Device list, Details, Live List, Diagnosis list, Bus statistics, Failure statistics.

  Telegram Logger

  - Supports trouble shooting at communication problems between CommDTM PROFIBUS DP-V1 and deviceDTM.
  - Displays the acyclic running class 2 master communication (DP-V0, DP-V1) via the CommDTM PROFIBUS DP-V1, caused by FDT orders. That applies all communication between DTMs and their devices.

  Engineering Data

  - Export of entered tags and device descriptions in the FDT project to the TH LINK PROFIBUS for a consistent view of tags and descriptions in FDT project and TH LINK PROFIBUS website.

  TH LINK PROFIBUS Website

  - Opens the TH LINK PROFIBUS website and enables an overview of the entire asset state.

New functions for *CommDTM ET 200M*

- Identification and setting of the device addresses

New functions for *CommDTM ET 200iSP*

- Identification and setting of the device addresses

New functions for *CommDTM DP/PA Link*

- No other changes

Bug fixes

- Installation could not be performed on some supported operation systems
- License error OEM License
- Scanning for devices below the CommDTM PROFIBUS DP-V1 sometimes causes a wrong device assignment in PACTware 3.6
- Hardware searching took a long time.

Changes in release	**3.1.0.9**	**25-Aug-2009**

New functions

- Performance improvement
- Name modification of the Library to **Trebing + Himstedt DTM Library**.

CommDTM PROFIBUS Master DP-V1

- Support of Condition Monitoring

GatewayDTM for SIMATIC ET 200M

- Support of Condition Monitoring
- Support of 12 I/O-modules for 6ES7153-2BA02-0XB0 and 6ES7153-2BA82-0XB0

GatewayDTM for SIMATIC ET 200iSP:

- Support of Condition Monitoring

GatewayDTM for SIMATIC DP/PA Link

- Support of Condition Monitoring

Bug fixes

- Improvement of the resource handling for Condition Monitoring

Changes in release	**3.0.0.9**	**15-Sep-2008**

New functions

- The versioning of DP_PA_Link.dll has been adapted.
- The possibility to upgrade version 3.0.0.7 to 3.0.0.8 has been ensured.

CommDTM PROFIBUS Master DP-V1

- No changes

GatewayDTM for SIMATIC ET 200M

- No changes

GatewayDTM for SIMATIC ET 200iSP:

- No changes

GatewayDTM for SIMATIC DP/PA Link

- The versioning of DP_PA_Link.dll has been adapted.
- The possibility to upgrade version 3.0.0.7 to 3.0.0.8 has been ensured.

Bug fixes

- None

Changes in release	**3.0.0.8**	**01-Sep-2008**

New functions

- Only changes for SIMATIC DP/PA Link done.
- Initiate I&M Requests with older versions of SIMATIC DP/PA Link results in a successful scan procedure.

CommDTM PROFIBUS Master DP-V1

- No changes

GatewayDTM for SIMATIC ET 200M

- No changes

GatewayDTM for SIMATIC ET 200iSP:

- No changes

GatewayDTM for SIMATIC DP/PA Link

- The SIMATIC DP/PA Link does not support any I&M Request until the Firmware Version 4.0. It results in an unsuccessful scan procedure. This problem has been patched now.

Bug fixes

- None

Changes in release	3.0.0.7	12-Sep-2007

New functions

- All DTMs have been modified with regard to About Dialog and window resize.
- A new Siemens 6ES7 331-7TF01-0AB0 E1 AI HART module is supported.
- All Library DTMs have been certified after tests with the DTM Inspector 2.0.60.

CommDTM PROFIBUS Master DP-V1

- In the About Dialog, links can only be accessed if this function is supported by the FDT frame.
- When reducing the DTM window, all displays and functions remain accessible via scroll bar.

GatewayDTM for SIMATIC ET 200M

- In the About Dialog, links can only be accessed if this function is supported by the FDT frame.
- When reducing the DTM window, all displays and functions remain accessible via scroll bar.
- The 8-channel 6ES7 331-7TF01-0AB0 E-1 Siemens AI HART module is supported.

GatewayDTM for SIMATIC ET 200iSP:

- In the About Dialog, links can only be accessed if this function is supported by the FDT frame.
- When reducing the DTM window, all displays and functions remain accessible via scroll bar.

GatewayDTM for SIMATIC DP/PA Link

- In the About Dialog, links can only be accessed if this function is supported by the FDT frame.
- When reducing the DTM window, all displays and functions remain accessible via scroll bar.
- Old DP/PA Link modules have been tested and included in the list of supported hardware (see chapter 6).

Bug fixes

- None

Changes in release	3.0.0.6	30-Sep-2007

New functions

- Name modification of the Library to **Trebing & Himstedt DTM Library**. The designation: “SIMATIC NET“ has been deleted from the product name for reasons of trademark protection.
- Names have been harmonized in all DTM and documentations.
- A GatewayDTM for the SIMATIC ET 200iSP has been added.
- Windows Vista operating system is supported.

CommDTM PROFIBUS Master DP-V1

- Enhanced logging implemented

GatewayDTM for SIMATIC ET 200M

- Supports field devices with HART address 0 – 15; DTM address setting is enabled
- Supports processing of parallel HART requests
- Enhanced logging implemented

GatewayDTM for SIMATIC ET 200iSP

- Has been newly added to the Trebing & Himstedt DTM Library. Supports the same functions as the GatewayDTM for SIMATIC ET 200M.

GatewayDTM for SIMATIC DP/PA Link

- OEM license integrated
- Troubleshooting: A wrong address was created upon generation of ConnectResponse for the device DTM.
- Enhanced logging implemented

Bug fixes

- None

Changes in release	3.0.0.11	30-Sep-2007

New functions

- The SIMATIC NET® DTM Library V 2.0 was optimized and enhanced in essential points with regard to hardware connection, which has consequences for the hardware to be connected.
- Setting of bus address 126 is now only possible for the DTM, no longer for field devices.

CommDTM PROFIBUS Master DP-V1

- Cards supported by default by the CommDTM PROFIBUS DP-V1 include CP5611 A2 cards.
- Automatic identification of supported hardware, both local CP cards and xEPI | EPI via Ethernet
- Easy, clearly arranged hardware parameterization
- For use of the CommDTM PROFIBUS DP-V1 as of V 3.0, firmware updates for the xEPI to FW Rel. 3.0.0.2 and for the EPI to FW Rel. 1.0.0.2 are imperative. Additionally, an upgrade of the EPI operating system from WinNT to Windows 2000 is mandatory.

GatewayDTM SIMATIC ET 200M

- The GatewayDTM SIMATIC ET 200M as of V 1.5 does only support eight-channel AI and AO HART modules. Two-channel modules are no longer supported by default. On request, our customer service center will provide you with a version for two-channel modules.
- The diagnosis function in the context menu has been dropped.

GatewayDTM DP/PA Link

- Since the DP/PA Link does not support setting of bus address 125 for PA devices, this function is no longer supported by the GatewayDTM DP/PA Link either. It is rejected with an error message.

Bug fixes

- None

7 Frequently Asked Questions

Softing DTM Library Licenses

Q: Which license types do you provide with the DTM Library?

A: You can order a single license for any of the separate device types (DP/PA Link, ET 200M or ET 200iSP) or one full license for all device types.

Q: Do I have to buy a license when I am using the CommDTM PROFIBUS DP-V1?

A: No, when using CommDTM PROFIBUS DP-V1 no license is required.

Q: Can I transfer the license to another workstation?

A: Yes, if you are using a USB dongle (hardlock).

Hardware

Q Which ports have to be enabled to use the TH LINK PROFIBUS without limits?

A: You have to enable the ports 80, 1100 TCP and 2362 – 2363 UDP with IP 224.0.5.128.

Software

Q: When configuring the network settings the xEPIIPConfig Tool reports „Error Number: -2 "Operation Timeout"“. What can I do?

A: Enable the software for the firewall.

Q: Scan network for HART devices in FieldCare is not successful. Why?

A: Only HART devices with HART address 0 can be determined by scanning. Make sure that the HART address is 0 and scan again.

Q: When using PACTware, an error message from the CommDTM PROFIBUS DP-V1 that the Ethernet connection is interrupted or disturbed, appears during running communication after disconnecting the Ethernet cable from the TH LINK PROFIBUS. The message is correct, but the message window cannot be closed. What can I do about this?

A1: Check the box „Ignore other error messages of this source“ in the error message window.

A2: Change the PACTware settings. Open the “Options” dialog in the menu by selecting “Tools” – “Options” and uncheck the "Display error message dialog on device error” box.

Q: I have a PROFIBUS network without a class 1 master. While connection establishment to the PA device via a DP/PA Link, an error message appears, that the connection can not be established. How can I establish a connection to the PA device?

A: At first start the connection establishment at the CommDTM PROFIBUS DP-V1 and wait a few seconds. After this establish the online connection to the PA device.

Q: I have a larger project with about 50 devices and use the Condition Monitoring function in FieldCare. The device DTM communication takes a long time. How can I speed it up?

A: The best performance is achieved, if there is allowed one Condition Monitoring connection simultaneous only. Therefore make the following settings:

Open in „FieldCare Guardian“ (accessable via menu „Tools“ → „Condition Monitoring“ → „Guardian“) the „Properties“ dialog and go to the „Condition Monitoring“ tab. Switch in the dropdown-box „Performance“ to „Custom“ and then make the following settings:

Maximum connections in use: 1

Transaction Count: 1

Transaction Delay: 1000