

Release Note

Trebing + Himstedt DTM Library

Version 4.0

1. Components of the 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
Trebing + Himstedt DTM Library	setup_de.exe setup_en.exe setup_de.msi setup_en.msi	4.0.4.0
CommDTM PROFIBUS DP-V1	CommDtm_PROFIBUS_DPV1.dll ProfibusDll.dll BusParamDlg.dll PROFIBUSDiagnose.dll TelegramLogger.dll EngineeringImporter.dll CP5xxx.sys Instdrv.exe	4.0.0.9 1.4.5.4 1.0.3.6 1.0.0.7 1.0.0.8 1.0.0.8 3.2.0.9 1.6.0.0
CommDTM ET 200M	ET200.dll	3.0.1.0
CommDTM ET 200iSP		
CommDTM DP/PA Link	DP_PA_Link.dll	2.0.0.8
Common Components	AboutDlg.dll SetAdrDlg.dll SetChildDtmAdr.dll SetDtmAdrDlg.dll XEPIIPConfig.exe TicketCreator.exe activatedriver.exe	2.0.2.4 1.0.2.3 1.0.2.0 2.0.2.2 1.0.0.1 1.0.0.1 1.0.0.1

2. Manuals of the Current Product Version

Title	Language	Version
Trebing + Himstedt DTM Library - Install Guide	German/English	4.0
Benutzerhandbuch - CommDTM PROFIBUS DP-V1	German	4.0
User Manual - CommDTM PROFIBUS DP-V1	English	4.0
Benutzerhandbuch - CommDTM ET 200M	German	4.0
User Manual - CommDTM ET 200M	English	4.0
Benutzerhandbuch - CommDTM ET 200iSP	German	4.0
User Manual - CommDTM ET 200iSP	English	4.0
Benutzerhandbuch - CommDTM DP PA Link	German	4.0
User Manual - CommDTM DP PA Link	English	4.0

3. System Requirements

3.1. Operating Systems

Supported and tested operating systems are:

- Windows XP Professional (x32) SP3 (German and English)
- Windows Vista Business (x32) SP2 (German and English)
- Windows Server 2003 Standard (x32) SP2 (English)
- Windows 7 (x32 and x64) (German and English)

Hint:

Windows 7 does not support the CP5512 and CP5611 as PROFIBUS access.

3.2. 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 xEPI 2)

Communication through xEPI 2 requires a working Ethernet infrastructure (network card, switch, etc.).

3.3. Software Requirements

Requirement to use the Trebing + Himstedt DTM Library is a 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 2.07.00
- PACTware Version 4.0.0.6

4. Scope of Delivery

The Trebing + Himstedt DTM Library 4.0 and the Installation Guide are available for download on our website www.t-h.de in German and English language. After successful installation, all manuals will be available locally on your system.

You can use the Trebing + Himstedt DTM Library as a demo version with unlimited functionality for 30 days from date of installation. If you want to use the Trebing + Himstedt 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.

5. Compatibility

CommDTM PROFIBUS DP-V1

PROFIBUS Access	Hardware	Firmware	Baud rate
xEPI/xEPI 2 (without support of CommDTM PROFIBUS DP-V1 functions on page 8)	Rev. 2.0	Rev. 4.0.0.4 – 5.1.0.6	12 MBit/s
xEPI 2 *	Rev. 2.0	from Rev. 5.2.2.6	12 MBit/s
SIEMENS CP5611 (PCI and Siemens Field PG)	Rev. A1 and A2	-	12 MBit/s
SIEMENS CP5512 (CardBus)	Rev. 2	-	12 MBit/s

* Please note the hints of the possible limitations in chapter 9.

CommDTM ET 200M

Module description	Siemens order number	E-Stand
IM 153-2 ET 200M / Link	153-2BA01-0XB0	4
	153-2BA02-0XB0	1
	153-2BA81-0XB0	1
	153-2BA82-0XB0	1
SM 331 8-channel AI HART	331-7TF00-0AB0	4
	331-7TF01-0AB0	1
SM 332 8-channel AO HART	332-8TF00-0AB0	1
	332-8TF01-0AB0	1

CommDTM ET 200iSP

Module description	Siemens order number	E-Stand
IM 152-1 ET 200iSP	152-1AA00-0AB0	4
4 AI – 2 Wire HART	134-7TD00-0AB0	4
4 AI – 4 Wire HART	134-7TD50-0AB0	4
4 AO – HART	135-7TD00-0AB0	5

CommDTM DP/PA Link

Module description	Siemens order number	E-Stand
IM 157 DP/PA Link	157-0AA00-0XA0	2
	157-0AA80-0XA0	3
	157-0AA81-0XA0	3
	157-0AA82-0XA0	2
IM 153-2 ET 200M / Link	153-2BA01-0XB0	2
	153-2BA02-0XB0	1
	153-2BA81-0XB0	1
	153-2BA82-0XB0	1
Coupler	157-0AC00-0XA0	3
	157-0AC80-0XA0	4
	157-0AC82-0XA0	2

6. Installation Guide

To use the Trebing + Himstedt DTM Library 4.0, you first need to install the software on your system. To do so, start the setup.exe, an installation wizard will guide you through the installation process.

Please note that any former versions of the SIMATIC NET[®] DTM Library (earlier than version 2.0) always need to be uninstalled before you can install the new Trebing + Himstedt DTM Library 4.0. Save your license before de-installation (license.dat in the installation folder). SIMATIC NET[®] DTM Library versions 2.0 and higher are automatically updated to the Trebing + Himstedt DTM Library 4.0. Afterwards the license has to be transferred manually to the installation folder.

7. New and Changed Functions

- None

8. Corrected failures

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

9. Notes and Known Problems

- Opening old projects can sometimes cause problems in certain FDT frame applications. This is due to alteration of the company name Trebing & Himstedt Prozeßautomation GmbH & Co. KG compliant to the entry in the trade register. Some frame applications now fail to identify the DTM. In this case you need to re-create the project. Alternatively, contact the supplier of the FDT frame application.
- Upon update of the SIMATIC NET[®] DTM Library version 2.0 respectively Trebing + Himstedt DTM Library 3.1 to Trebing + Himstedt DTM Library 4.0, the installation folder of the old version is not deleted in order to save the license. Please transfer the license to the current installation folder of the Trebing + Himstedt DTM Library 4.0 after update and afterwards delete the folder of the old SIMATIC NET[®] DTM Library version 2.0 respectively Trebing + Himstedt DTM Library 3.1 manually.
- By using the additional xEPI 2 functions (PROFIBUS Diagnosis, Telegram Logger) of the CommDTM PROFIBUS DP-V1 a maximum baud rate of 1.5 MBit/s is supported.
- The CP5512 and CP5611 are not released for Windows 7 (x64), because the Trebing + Himstedt CP card driver does not support Windows 7 (x64).

10. History

Modifications in Release 4.0.1.0 (01-Oct-2010)

General:

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

Corrected failures

The following known failure is corrected:

- Improvement of the resource handling for Condition Monitoring

Modifications in Release 4.0.0.9 (04-Feb-2010)

General:

- 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

CommDTM PROFIBUS DP-V1

- 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 xEPI 2 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 xEPI 2 for a consistent view of tags and descriptions in FDT project and xEPI 2 website.
 - xEPI 2 Website
 - Opens the xEPI 2 website and enables an overview of the entire asset state.

CommDTM ET 200M

- Identification and setting of the device addresses

CommDTM ET 200iSP

- Identification and setting of the device addresses

CommDTM DP/PA Link

- No other changes

Corrected failures

The following known failures are corrected:

- 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.

Modifications in Release 3.1.0.9 (25-Aug-2009)**General:**

- 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

Modifications in Release 3.0.0.9 (15-Sep-2008)**General:**

- 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.

Modifications in Release 3.0.0.8 (01-Sep-2008)**General:**

- 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.

Modifications in Release 3.0.0.7 (12-Dec-2007)**General:**

- 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).

Modifications in Release 3.0.0.6 (30-Oct-2007)**General:**

- 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

Modifications in Release 2.0.0.11 (30-Mar-2007)

General:

- 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.

11. FAQ – frequently asked questions

Trebing + Himstedt DTM Library Licenses

Q: What is a single license?

A: A single license is valid for exactly 1 DTM of the Trebing + Himstedt DTM Library. The license applies to the DTM that establishes the first connection. I.e. when using a CP card (Siemens CP5512, CP5611, Siemens PG with integrated CP5611) the single license is valid for the CommDTM PROFIBUS DP-V1.

Q: Do I have to buy a license when I am using the CommDTM PROFIBUS DP-V1 with the xEPI 2 hardware?

A: No, you don't. If you use the CommDTM PROFIBUS DP-V1 together with the xEPI 2, no license is required.

Q: Can I transfer the license to another workstation?

A: No, you can't. It is a single-user license and can only be used for one workstation. A transfer is not possible.

Hardware

Q: Which ports have to be enabled to use the xEPI 2 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 xEPI 2. 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“ (accessible 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

12. Release Authorization

Name	Company/Position	Function	Date	Signature
Manuela Sievers	Trebing + Himstedt Product manager	Author		
Andreas Mikolaschek	Trebing + Himstedt Test manager	Verified		
Stefan Trebing	Trebing + Himstedt Technical leader	Approve		

Note: Signatures on the original only