

## Content

<b>1</b>	<b>Device - Revision Record - What is new? .....</b>	<b>1</b>
1.1	Hardware.....	1
1.2	Software.....	1
1.3	Firmware .....	1
<b>2</b>	<b>DTM - Device Type Manager .....</b>	<b>1</b>
2.1	Supported devices.....	1
2.2	DTM bundle Version record - What is new? .....	2
2.3	Requirements.....	3
2.3.1	PC-Hardware, Operating system .....	3
2.3.2	Frame application / compatibility.....	3
2.3.3	Software DTM500 .....	3
2.4	Installation and configuration .....	4
2.4.1	Installation .....	4
2.4.2	Uninstall instructions.....	4
2.5	Update- / Upgrade instructions .....	4
2.6	Known problems and limitations.....	4
2.7	Getting help / Additional information.....	5
2.8	How to get the latest information & software? .....	5
2.9	Licensing the DTM.....	5

## 1 Device - Revision Record - What is new?

### 1.1 Hardware

See the respective device driver Supplement-Information\*)

### 1.2 Software

See the respective device driver Supplement-Information\*)

### 1.3 Firmware

See the respective device driver Supplement-Information\*)

## 2 DTM - Device Type Manager

### 2.1 Supported devices

"ABB DTM500" is the name of an ABB DTM Bundle for HART, PROFIBUS field devices. The following supplementary information refers to all DTMs of this bundle.

The number and type of the DTMs in this package are shown chapter 2.3.3.

\*) The individual device driver Supplement Information & Software is available on the data medium or latest on [www.abb.com/fieldbus](http://www.abb.com/fieldbus):

→ latest information [*Field device protocol dependent*]

→ latest information (download) [*device type dependent*]

- Driver description

- Software [*driver type dependent*]

## 2.2 DTM bundle Version record - What is new?

Released bundle Version	Released Date	Released DTM500 Library Version	Remarks
05.00.01	Jan 2009	05.00.11	First release
05.00.06	Nov. 2009	05.00.13	<ul style="list-style-type: none"> <li>- Bug fix</li> <li>- Updated DTM Library</li> <li>- Updated device DTM</li> <li>- FEX300 HART</li> <li>- New device DTM</li> <li>- 264 HART, FEX100 HART</li> <li>- TTX300 HART, TZIDC HART</li> </ul>
05.01.00	Jul. 2010	05.00.15	<ul style="list-style-type: none"> <li>- Bug fix</li> <li>- Updated DTM Library</li> <li>- Updated device DTM</li> <li>- FEX300 HART, FEX100 HART</li> <li>- 264 HART</li> <li>- New device DTM</li> <li>- AZ20/AZ30 HART, 266-PdP HART</li> </ul>
05.02.00	Dec. 2010	05.00.16	<ul style="list-style-type: none"> <li>- Bug fix</li> <li>- Updated DTM Library</li> <li>- Updated device DTM</li> <li>- FEX300 HART, FEX100 HART</li> <li>- 264 HART, TTX300 HART</li> <li>- 266-PdP HART, AZ20/AZ30 HART</li> <li>- TTX300 PA</li> <li>- New device DTM</li> <li>- FEX100 DP,</li> <li>- FEX300/500 PA</li> <li>- 266-PdP PA</li> </ul>
05.03.00	Aug. 2011	05.00.17	<ul style="list-style-type: none"> <li>- Bug fix</li> <li>- Updated DTM Library,</li> <li>- Updated device DTM</li> <li>- FEX100 DP, FEX100 HART</li> <li>- FEX300/500 HART, FEX300/500 PA</li> <li>- 266-PdP PA, 266-PdP HART</li> <li>- 264 HART, TTX300 HART, TTX300 PA</li> <li>- TTX200 HART, AZ20/AZ30 HART</li> <li>- TZIDC HART</li> <li>- New DTM</li> <li>- NHU200-WL HART,</li> <li>- EDP300 HART</li> </ul>

05.04.00	Aug. 2012	05.00.18	Bug fix  Updated DTM Library Updated device DTM <ul style="list-style-type: none"> <li>- FEX100 DP, - FEX100 HART</li> <li>- FEX300/500 HART</li> <li>- FEX300/500 PA</li> <li>- 266-PdP PA</li> <li>- 266-PdP HART</li> <li>- 264 HART</li> <li>- TTX300 HART, - TTX300 PA</li> <li>- TTX200 HART</li> <li>- AZ20/AZ30 HART</li> <li>- AW640 DP</li> <li>- TZIDC HART</li> <li>- EDP300 HART</li> </ul> New DTM <ul style="list-style-type: none"> <li>- AT100/200 HART</li> <li>- ACA592 TE/TC/EC HART</li> <li>- APA592 PH HART</li> <li>- 266-MV HART</li> </ul>
05.05.00	May 2014	05.00.21	Bug fix  Updated DTM library <ul style="list-style-type: none"> <li>- 266 PdP HART, 266 PdP PA</li> <li>- 264 HART</li> <li>- TTX 300 HART, TTX 300 PA</li> <li>- FEX 300 / 500 HART, FEX 300 / 500 PA</li> <li>- FEX 100 HART, FEX 100 DP</li> <li>- AW 640 DP</li> <li>- TZIDC HART</li> <li>- EDP 300 HART</li> <li>- AZ 20 HART</li> <li>- ACA592 TE/TC/EC HART</li> <li>- APA592 PH HART</li> </ul> Updated device DTM <ul style="list-style-type: none"> <li>- 266 PdP HART</li> <li>- EDP 300 HART</li> </ul>
05.05.00	Jan. 2017	05.00.22	Bug Fix and Updated DTM500 Library

## 2.3 Requirements

### 2.3.1 PC-Hardware, Operating system

- Minimum requirement
  - Processor Intel compatible (2 GHz)
  - 1 GB RAM
  - 500 MB free hard disk space
  - 1024 x 768 screen resolution recommended
  - Windows 7 (32 bit)
  - .NET Framework 3.5
  - Internet Explorer 6.0 or higher
  - Adobe Reader latest version
  - Member of the "Administrators" group

The ABB DTMs of the DTM500 Bundle are released for Windows 7, 8.1 as PC / Notebook installation.

### 2.3.2 Frame application / compatibility

The FDT compatibility was tested with the dtmINSPECTOR Rev. 3.0.1300

Therefore, the ABB DTM should be usable in all frame applications according to the requirements of FDT 1.2. / 1.2.1.  
Refer the corresponding frame application documentation and Manuals.

### 2.3.3 Software DTM500

#### DTM for HART devices:

##### Analyzer

- AZ20 / AZ30 for Endura
- Analytical transmitters
  - AC592-xx (EC/TE/TC) Conduct. Endura
  - APA592-PH Redox (ORP) Endura

##### Flow transmitter

- FEX300 / FEX500 HART for FEH300 / FEH500 HygienicMaster, for FEP300 / FEP500 ProcessMaster
- FEX100 HART for WaterMaster
- FSX400 Vortex / Swirlmaster

##### Pressure transmitters

- 264 HART for 2600T(264xx)
- 266-PdP HART for 2600T(266xxx)
- 266-MV HART for 2600T(266xxx)

##### Level Transmitters

- AT100/200 HART

##### Positioners

- TZIDC HART for TZIDC, TZIDC-200

- EDP300 HART Position Master

#### Temperature transmitters

- TTX300 HART for TTH300, TTF300, TTF350
- TTX200 HART for TTH200, TTR200

#### DTM for PROFIBUS devices:

##### Analyzer

- AW641 DP Silicat
- AW642 DP Phosphate

##### Flow transmitter

- FEX100 DP for FEV100, FEF100 WaterMaster
- FEX300 / FEX500 PA for FEH300 / FEH500 HygienicMaster, for FEP300 / FEP500 ProcessMaster

##### Pressure and Level transmitters

- 266-PdP PA for 2600T(266xxx)

##### Temperature transmitters

- TTX300 PA for TTH300, TTF300, TTR300

##### Positioners

- TZIDC-110/-210

## 2.4 Installation and configuration

### 2.4.1 Installation

- Ensure that the minimum hardware requirements are met.
- Start Windows (login with administrator rights!).
- Cancel all active applications.
- Insert data medium or unpack the DTM zip file available as download from [www.abb.com/Instrumentation](http://www.abb.com/Instrumentation)
- Start the installation Wizard as follows:  
Data medium <drive>:\Setup.exe  
or
- Right hand MouseClick with “run as Administrator”  
DTM zip file \Revxx.yy.zz\_yyyy.mm\Setup.exe
- Follow the instructions.

### 2.4.2 Uninstall instructions

In the operating system: Start -> Settings -> Control Panel  
-> Add/Remove Programs -> Select the ABB DTM500 and Uninstall.

## 2.5 Update- / Upgrade instructions

- Uninstallation is not required before update / upgrade. It can be handled like a new installation existing projects will be retained.
- Hints regarding new versions may be found under [www.abb.com/Fieldbus](http://www.abb.com/Fieldbus)

## 2.6 Known problems and limitations

In addition to the specific hints in the respective device driver Supplement-Information\*) the general hints are attached.

#### - Attention:

DTMs of the ABB DTM500 bundle are not released for the ABB Stand-Alone-Tool DSV401 Rx (SMART VISION).

**It is recommended** to use the upgraded drivers released based on this library version (05.0.18)

- In Trend Control, under certain conditions like when axis min/max is changed/set to large range, then DTM trend view displays “Overflow exception” message.  
Workaround: User to close and reopen the User Interface containing trend display with valid range
- When an upload operation is interrupted, partially uploaded parameters gets saved to data set.

ters gets saved to data set.

Workaround: User recommended performing a full upload after communication status restore or User to save the new project at least once, before any further operations.

- In multi-client scenario (Eg: 800xA Frame), data replication is possible across clients only when the data source is set to Dataset.  
Workaround: User while working with data source in device, are recommended to trigger the “save to Instance dataset” option for data replication across clients.
- Interrupted Installation due to removal of CD installer or network disturbance or power failure can cause issues while reinstalling.  
Interrupted installation might require Registry, Assembly and Installation directory folder to be cleaned manually. Only after that, reinstallation is possible.  
Workaround: User to ensure that no power failure or network failure during DTM500 installation.
- When there is a communication disturbance encountered during data transaction between DTM and device, the next download from frame will pop-up with “dataset locked” message,  
Workaround: User recommended to use the DTM MDI for download.
- The DTM instance Additional function context menu updates take few seconds when toggled to offline. Meanwhile, if the user clicks on the menu option, then frame pops up an error message.  
Workaround: User can close the message box and continue working with the DTM.
- In 800xA system, when user logged in as Maintenance engineer / Operator, DTM MDI status bar displays as Planning engineer/Observer respectively with corresponding rights.
- In Server-client setup, when DTM accessed over a remote desktop from a client PC, DTM MDI opens in Server PC instead of client desktop. Remote Desktop is only supported in Console-Mode.
- The footprint of DTM500 is higher and consumes high memory when multiple instances are being used and this is because of usage of COM Wrapper. For each instance of the DTM, an entry appears in the task manager as DTGFDTManager.
- Occasionally, the DTM status bar displays as “Connecting/Disconnecting” on reconnect or while manually disconnecting, with no further updates in the DTM.  
Workaround: User to close/ reopen the DTM User Interface and toggle the parent communication DTM online /offline, in case of standalone frames like Asset Vision Basic and PACTware.
- When the user does not act on each command response message popup, the DTM status turns to “Disturbed” from connected and changes the data source from “Device” to “Dataset” in the status bar.  
Workaround: User to acknowledge and act on each message within 30 seconds to stay connected and continue working.
- A “cancel” operation in easy setup, will reflect the default values in online parameterize fields when opened.  
Workaround: User strictly recommended to perform a complete data upload from device after easy setup cancel or finish.
- In Windows 7 OS,  
Users strictly recommended to set or maintain the default display settings, using Control Panel -> All Control Panel Items -> Display, as „Smaller – 100% (default)“ to get controls in DTM user interfaces without overlaps.

## 2.7 Getting help / Additional information

- Press 'F1' for DTM online help.
- Help concerning the integration of the DTM in the FDT frame application can be found in the respective documentation of the frame application.

## 2.8 How to get the latest information & software?

- The latest DTM500 Bundle Supplement Information is available on [www.abb.com/fieldbus](http://www.abb.com/fieldbus):  
Enter in the search field following No. "3KXD801500R3901".

The latest DTM500 Bundle software is available on

[www.abb.com/fieldbus](http://www.abb.com/fieldbus):

Enter in the search field following No. "3KXD800500S0030".

- For the single device driver see the respective Supplement Information & Software\*)

## 2.9 Licensing the DTM

- The ABB DTM500 Bundle is usable without any license in any frame application.
- After the installation the ABB DTM500 Bundle runs 90-days in demo mode (full functionality) and needs to be purchased within this period, if the storage of data being requested.

ABB provides expert and comprehensive consulting services in more than 100 countries worldwide.

<http://www.abb.com/instrumentation>

ABB is continually improving its products. As a result, technical information in this document is subject to change.

Printed in the Fed. Rep. of Germany (03.2019)

© ABB 2019

3KXD801500R3901 Rev. K



#### Germany

**ABB Automation Products GmbH**  
Borsigstr. 2  
63755 Alzenau

Tel: +49 (0)551 905-534  
Fax: +49 (0)551 905-555

[vertrieb.instrumentation@de.abb.com](mailto:vertrieb.instrumentation@de.abb.com)

#### USA

**ABB Inc.**  
125 E. County Line Road  
Warminster, PA  
18974-4995

Tel: +1 (0)215 674 6000  
Fax: +1 (0)215 674 7183

[instrumentation@us.abb.com](mailto:instrumentation@us.abb.com)

#### Italy

**ABB S.p.A.**  
Via Statale 113  
22016 Lenno (CO)

Tel: +39 0344 58111  
Fax: +39 0344 56278

[abb.instrumentation@it.abb.com](mailto:abb.instrumentation@it.abb.com)

#### UK

**ABB Limited**  
Oldends Lane  
Stonehouse  
Gloucestershire GL10 3TA

Tel: +44 (0)1453 826 661  
Fax: +44 (0)1453 829 671

[instrumentation@gb.abb.com](mailto:instrumentation@gb.abb.com)

#### P.R. China

**ABB Engineering (Shanghai) Ltd.**  
32 Industrial Area  
Kangqiao Town, Nanhui District  
Shanghai, 201319

Tel: +86 (0) 21 6105 6666  
Fax: +86 (0) 21 6105 6677

[china.instrumentation@cn.abb.com](mailto:china.instrumentation@cn.abb.com)