

## DTM Collection 08 / 2002

Publication date 01.08.2002



The program package contains the following software components:

- PACTware™ version 1.4
- VEGA DTM version 1.00

### Features of the supplied VEGA DTMs

- VEGA DTMs support FDT 1.20 specification. They had been tested with PACTware™ version 1.4 and adapted perfectly to this frame application.
- The following interfaces/instruments are supported:
 

- VEGASON	51, 52, 53, 54, 55, 56	HART, VBUS
- VEGAPULS	41, 42, 43, 44, 45	HART, VBUS
	51, 52, 53, 54, 56	HART, VBUS
- VEGAFLEX	51, 52, 54	HART, VBUS
- VEGABAR	40, 41, 44	HART
- VEGA D series	76, 77	HART
	80, 81, 84, 85, 86, 87	HART
- VEGA CONNECT	1, 2, 3	HART, VBUS, I <sup>2</sup> C
- VEGA protocol driver for		RS 232
- All sensor-DTMs appear with a unique DTM parameter window. Its clear presentation allows direct access to all parameters used in the instrument.
- Together with the FDT 1.20 compatible frame application PACTware™ all settings, the instrument view of the planned or already existing system, but also the settings of the instruments can be pre-configured very comfortably in offline mode.
- Beside the possible sensor settings, there are also analysis and help functions offered by the instrument DTMs such as:
  - Simulations
  - Trend presentations and recordings
  - Linearisation functions
  - Echo curve presentations and recordings
  - Own documentation functions
- A comprehensive online help is available for all DTMs. You will get the suitable help (context-related) of the actual handling steps.
- If the vessel form and the corresponding dimensions are known, 'Tank Calculation' supports you to determine the suitable linearisation characteristics.

## DTM Collection 11 / 2002

Publication date 15.12.2002



The program package contains the following software components:

- PACTware™ version 1.4
- HART protocol driver version 1.4.0
- VEGA DTM version 1.31

### Note:

If you have loaded the DTM Collection from the download area, the software component PACTware™ version 1.4 SP1 will be included.

## General

- VEGA DTMs support FDT 1.20 specification. They had been tested with PACTware™ version 1.4 SP1 and adapted perfectly to this frame application.

## New functions

- The following interfaces/instruments are supported in addition since this version:
 

- VEGABAR	42	HART
- VEGABAR	52, 53 <i>plics</i>	HART
- VEGABAR	61, 64, 65, 66, 67 <i>plics</i>	HART
- VEGAFLEX	61, 62, 65 <i>plics</i>	HART
- VEGAWELL	72	HART
- VEGACONNECT DTMs had been extended by the function 'Instrument search'. It is possible to start an automatic sensor search of the connected sensors and to generate the project tree automatically (based on a project of VEGA RS232 with VEGACONNECT).
- The adjustment of the 'Target address' for DTMs is no longer made in the DTM parameter window. This adjustment can be carried out now, without opening the DTM, via the instrument data menu of the frame application (here: PACTware™).
- The function 'Update instrument software' is no longer made in the DTM parameter window. This adjustment can be carried out now, without opening the DTM, via the instrument data menu of the frame application (here: PACTware™).
- The adjustment of the DTMs is now possible in the languages German, English, French and Spanish.
- The online help of the DTMs is now also available in the languages German and English.

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**The following errors had been eliminated**

- The function 'Update instrument software' had been improved considerably. The transmission of firmware is now twice as fast as before.

**Program internal**

- The set-up for the installation of the VEGA DTMs was replaced by an InstallShield-Setup. The multilingualism is already supported excellently during installation.

## DTM Collection 03 / 2003

Publication date 21.03.2003



The program package contains the following software components:

- PACTware™ version 2.4 SP2
- VEGA DTM version 1.33
- HART protocol driver version 1.4.0
- Generic HART DTM version 2.00

### General

- VEGA DTMs support FDT 1.20 specification as well as extensions acc. to FDT Addendum. They had been tested with PACTware™ version 2.4 SP2 and adapted perfectly to this frame application.
- In the program group 'VEGA', a subdivision 'DTM Help' and 'DTM Tools' was made. DTM Help contains now the instruction 'First steps' in four languages. DTM Tools contains 'DTM Licensing' as well as 'Tank Calculation'.

### New functions

- The following interfaces/instruments are supported in addition since this version:
 

- VEGASON	51, 52, 53, 54, 55, 56	Profibus PA
- VEGAPULS	41, 42, 43, 44, 45	Profibus PA
	51, 52, 53, 54, 56	Profibus PA
- VEGAFLEX	51, 52, 54, 55	Profibus PA
- VEGABAR	40, 41, 44	Profibus PA
- VEGA D series	90, 91, 94, 95, 96, 97	Profibus PA
- VEGALOG	571	RS 232, Ethernet
- VEGALOG	EV	VBUS
- VEGALOG	EP	Profibus PA
- VEGA protocol driver for		Ethernet
- The VEGA protocol driver for RS 232 was converted. It now uses the same layout like the sensor-DTM. Furthermore, comprehensive functions for support of remote parameter adjustments via modem were added.
- The VEGALOG DTMs were realised in form of pure communication-DTMs. It is hence possible, to generate PACTware projects for VEGA sensors connected to VEGALOG EV or EP cards and to carry out the parameter adjustment of VEGA sensors via VEGALOG 571.
- The VEGALOG 571 DTM offers the function 'Instrument search'. It is now possible to search module cards EV or EP and to generate the project tree automatically (based on a project of VEGA RS232 or VEGA Ethernet with VEGALOG 571 DTM).

- Also VEGALOG EV and EP DTM offer the function 'Instrument search'. It is now possible to search connected sensors and to generate the project tree automatically (based on a project of VEGA RS232 or VEGA Ethernet with VEGALOG 571 DTM and one or several VEGALOG EV or EP DTMs).
- The presentation and adjustment of user programmable linearisation curves in the info section were revised. The linearisation is now also possible in scaled values or can be displayed.
- Further revisions in the info section were made under 'Trend' and 'Echo curve'. Besides several optimisation, the menu item 'Info' had been added. It is now possible, to get information on the actual status of recordings.
- The structure of the parameter tree in the navigation section for plics-HART sensors was changed.
- The measured value display 'Temperature' is deleted for VEGABAR 61 and 65.
- The documentation function of the DTMs was revised. The section Instrument data was extended by the instrument address and applied DTM versions.
- The DTM adjustment is now also possible in the languages German, English, French, Spanish and Russian.
- The online help of the DTMs is now available in the languages German, English, French and Spanish.

#### **The following errors were eliminated**

- The error messages of the different DTMs in case of problems during connection or general communication problems were sometimes very rudimentary and difficult to allocate. Often several messages for the same problem were outputted subsequently. In future only one message will be sent, collecting all messages in the context.

## DTM Collection 06 / 2003

Date of publication 10.06.2003



The CD includes the following software components:

- PACTware™ version 2.4 SP2
- VEGA DTM collection 06/2003 (Build 1.35)
- HART protocol driver version 1.4.0
- Generic HART DTM version 2.00
- Profibus communication DTM version 1.00 (62)
- 30 days test version -

### Note:

The software components included on the CD can be individually downloaded on the VEGA homepage. If you want to use VEGA DTM collection 06/2003, please make sure that you have installed the current PACTware™ version 2.4 SP2.

## General

- The VEGA DTMs support the FDT 1.20 specification as well as the extensions acc. to FDT Addendum. They have been tested together with PACTware™ version 2.4 SP2 and optimally adapted to these frame applications.
- The program group ,DTM Tools' has been extended by "VEGA multiviewer". The VEGA multiviewer is a universal viewer for all documents which can be generated in conjunction with VEGA DTM. The VEGA multiviewer enables the evaluation and analysis of all echo curve records, trend recording and export data file without opening of a PACTware project.

## New functions

- The following interfaces/instruments are additionally supported:
 

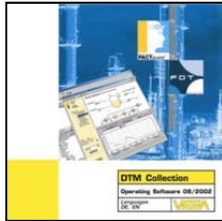
- VEGAPULS	61, 62, 63, 65, 66 <i>plics</i>	HART, Profibus PA
- VEGAFLEX	61, 62, 65 <i>plics</i>	Profibus PA
- VEGABAR	52, 53 <i>plics</i>	Profibus PA
- VEGABAR	62, 64, 65, 66, 67 <i>plics</i>	Profibus PA
- VEGABAR	74, 75	HART
- New DTMs are available now for the measuring principle ,Radar' with plics-instruments (please compare the above survey of VEGAPULS versions). The communication via HART and Profibus is supported as well as the direct connection via the configuration interface via I<sup>2</sup>C.
- Instrument documentations can be produced and printed with cover sheet now.
- The info window and the heading of the instrument documentation include additional information of the actually used DTM version now.

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- All plics instruments have the option to check or change the PIN.
  - All plics instruments with Profibus communication interface have the option to configure an “additional PA value” for the Profibus communication.
  - All plics instruments of VEGABAR series have the adjustment option to select the application type (“process pressure” and “level”).
  - For all plics instruments of VEGAPULS series the optimum adaptation of the signal processing to the vessel conditions or product characteristics is carried out via easily applicable “application parameters”
  - A service DTM will be supplied for a simplified exchange of the electronics of plics sensors (e.g. alterations, repairs, tests); the service DTM can be activated by a suitable release. The service DTM ensures the generation of an exact copy of instruments already supplied. The data necessary can be read out from an available sensor or if the serial number is known of a formerly supplied sensor it can be loaded via the VEGA homepage.

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## DTM Collection 10 / 2003

Publication date 20.10.2003



The CD includes the following software components:

- PACTware™ version 2.4 SP2
- VEGA DTM Collection 10/2003 (Build 1.36.0.0)
- HART protocol driver version 1.4.10
- Generic HART DTM version 2.0.11
- Profibus communication DTM version 1.0 (62)
  - 30 days test version -

### Note:

In the download section on the VEGA homepage you can load the individual software components available on the CD. If you want to use the VEGA DTM Collection 10/2003, make sure that you have installed the latest version PACTware™ version 2.4 SP2.

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### General

- The VEGA DTMs support the FDT 1.20 specification as well as the extensions acc. To FDT Addendum. They have been tested along with PACTware™ version 2.4 SP2 and adapted perfectly to this frame application.
- The set-up offers now partial installations of DTMs separated acc. to measuring principles.

### New functions

- Since this version, the following interfaces/instruments are supported in addition:
  - VEGASON 61, 62, 63 plics HART, Profibus PA, Fieldbus Foundation\*
  - VEGAPULS 61, 62, 63, 65, 66 plics Fieldbus Foundation\*
  - VEGAFLEX 61, 62, 65 plics Fieldbus Foundation\*
  - VEGABAR 52, 53 plics Fieldbus Foundation\*
  - VEGABAR 61, 64, 65, 66, 67 plics Fieldbus Foundation\*

\* The DTM adjustment of instruments with communication interface acc. to Fieldbus Foundation is actually limited to the access via the configuration interface (I<sup>2</sup>C) on the instrument side.

- New DTMs for the measuring principle ,Ultrasonic' with plics instruments are now available (see VEGASON type overview on top). Communication via HART and Profibus as well as the direct connection via the configuration interface (I<sup>2</sup>C ) on the instrument side are supported.
- All DTMs for operation with plics instruments have now the function ,Instrument trend'. By means of this function you can make all necessary settings in the respective plics instrument for recording of measured values. In addition, these DTMs offer also functions to read out and analyse the recordings. DTM versions history Faist - 9 - 22. October 2003



- The procedure to adjust the display format for the PA-OUT value (with Profibus PA sensors) was changed. The setting is now made via a separate list box independent of the setting in OUT-SCALE.
- The standard settings for the VEGA RS232 – DTM (COM-Port, parity) can be now made via a separate configuration file from the user
- For operation under the Frame-Application Symphonie (ABB) some adaptations were made. The functions printing, trend and linearisation by means of the tank calculation are not available in this frame. The GSD files are now saved in an editable version in the installation directory of the DTM Collection.

#### **The following faults were removed**

- In the function ,Update instrument software' there were often communication errors or non-reproducible indications of the progress bar. The reasons for this were localised and the wrong function removed
- Up to now, the configuration of pressure transmitters series D90 (Profibus PA) for cyclical communication in ABB systems was not possible.

## **DTM Collection 10 / 2003 (2)**

Publication date 19.12.2003

### **General**

The software component “VEGA DTM Collection 10 / 2003 (2) Build 1.36.0.1” includes only failure removals against release 10 / 2003 and is only available in the download area.

#### **The following failures were removed**

- Licensing problems with meas. principle “Ultrasonic“ and plics sensors
- Identification problem of the service-DTM with meas. principle “Ultrasonic“ and plics sensors
- Further smaller bugfixes against release 1.36.0.0

## DTM Collection 04 / 2004

Publication date 8.4.2004



The CD contains the following software components:

- PACTware™ version 2.4 SP2
- VEGA DTM Collection 4/2004 (version 1.40.0.0)
- HART protocol driver version 1.4.10
- Generic HART DTM version 2.0.11
- Profibus communication-DTM version 1.0 (62)
- 30 days test version -

### Note:

In the download area of the VEGA homepage you have the possibility to load the individual software components contained on the CD. If you want to use VEGA DTM Collection 4/2004 make sure that you have installed the up-to-date PACTware™ version 2.4 SP2.

### General

- Interoperability:  
The VEGA DTMs support the FDT 1.20 specification as well as the extensions acc. to FDT Addendum. They were tested together with PACTware™ version 2.4 SP2 and adapted perfectly to this frame application. The VEGA DTMs are also suitable for the use in all frame applications having the FDT 1.2 standard implemented.
- From now on you have the possibility to enter our new mailing list online. An easy access to this list is possible via the program group “VEGA - DTM Tools - Mailinglist DTM-Collection“

### New functions

- The following interfaces/instruments are also supported from this version:
 

- VEGASON	64, 65, 66 <i>plics</i>	HART, Profibus PA, Fieldbus Foundation*
- VEGAPULS	68 <i>plics</i>	HART, Profibus PA, Fieldbus Foundation*
- VEGAFLEX	66, 67 <i>plics</i>	HART, Profibus PA, Fieldbus Foundation*
- VEGAMET	624, 625	via VEGACONNECT

\* The DTM adjustment of instruments with communication interface acc. to Fieldbus Foundation is currently limited to the access via the configuration interface (I<sup>2</sup>C) on the instrument side.

- New DTMs for the meas. principles ‘Ultrasonic’, ‘Radar’ and ‘Guided microwave’ are now available (see Type overview on top of the page). Supported are the communication via HART and Profibus, but also the direct connection via the configuration interface I<sup>2</sup>C on the instrument side.

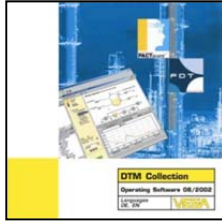
- New DTMs for the VEGAMET 624 and VEGAMET 625 signal conditioning instruments are now also included. The configuration is made via VEGACONNECT (I<sup>2</sup>C interface), connected can be 4-20mA sensors but also HART sensors. For further details see operating instructions manual “VEGAMET 624/625” or online help of the VEGAMET DTMs.
- The adjustment of the DTM address was adapted to the FDT specification. Previously the target address must be set individually for each sensor via the context menu. This function was now shifted to the context menu “Modify DTM addresses” of the superior communication-DTM. Hence the adjustment can be carried out in centralised position.
- The DTMs now use for saving of echo curves, trends and export files always a common, individually selectable directory. This directory is valid until another directory is selected for one of the stated file types with “Save as”.
- For all DTMs supporting the recording of echo curves (VEGAPULS, VEGAFLEX und VEGASON) an optimised procedure was implemented. This new procedure has considerably reduced the loading times as well as the data volume.
- The modes for recording of echo curves were extended. Via the menu Echo curve, the recording mode of the echo data as well as the echo curve can be modified.
- The standard setting for the trend recording was modified. The trend recording is no longer started automatically during connection.
- The functional volume of the DTM-Tools Multiviewer was extended. The Multiviewer can now also process device trends. Trend curves can now also be exported as ASCII files.
- To simplify the exchange of electronics modules, so called Service-DTMs are now available. Due to these DTMs it is possible to reset new electronics modules easily to the delivery status of the original electronics.
- The DTMs for adjustment of plics sensors offer now a direct link to the VEGA download area. Via the menu entry “Help – Instrument documentation in the web“ you reach by only one key push the suitable documents to the opened DTM.
- In addition to the previously adjustable languages, the DTMs now offer also the language “Italian“. The switching over concerns the complete adjustment as well as the online help.

#### **The following errors were removed**

- Interruption of the long-terms recordings of echo curves or DTM trends without interaction of the user.
- The previously valid limitations concerning the trend functions during operation in the FDT1.2 frame applications of ABB are no longer applicable.

## DTM Collection 10 / 2004

Publication date 13.12.2004



The CD includes the following software components:

- PACTware™ version 3.0
- VEGA DTM Collection 10/2004 (version 1.42.0.0)
- Microsoft .NET Framework version 1.1
- HART Communication DTM version 1.0.17
- Generic HART DTM version 3.1.6
- Profibus communication DTM version 1.10 (84)

### Note:

In the download area on the VEGA homepage you can load the individual software components available on the CD. If you want to use all functions of the VEGA DTM Collection 10/2004, make sure that you have installed the current PACTware™ version 3.0.

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## General

- **Interoperability:**  
The VEGA DTMs support FDT 1.20 specification as well as the extensions acc. to FDT Addendum. They have been tested together with PACTware™ version 2.4 SP2 or PACTware™ 3.0 and adapted in an optimum way to these frame applications. The VEGA DTMs are also suitable for use in all frame applications having the FDT 1.2 Standard with FDT Addendum implemented.
- **Microsoft .NET Framework:**  
PACTware™ 3.0 was completely revised and uses now latest software technologies like Microsoft .NET.  
This conversion enables the use of more efficient memory management mechanisms and wrapping of the individual DTMs. This means also that before installing PACTware™ 3.0, it is absolutely necessary to install Microsoft .NET-Frameworks.
- **Profibus communication DTM:**  
The supplied Profibus communication DTM from Softing requires no longer an own licensing. In PACTware 3.0 projects where licensed VEGA DTMs are used, the Profibus communication DTM functions now without limitations.
- **Setup for VEGA DTM Collection:**  
The previous setup of VEGA DTM Collection was splitted into three single setups. Hence users requiring only parts of the VEGA DTM Collection can make selections. Furthermore the download times from the VEGA homepage reduce.

## New functions

- The following interfaces/instruments are also supported beginning with this version:

- VEGABAR	54 <i>plics</i>	HART, Profibus PA, Fieldbus Foundation*
- VEGASCAN	693	via VEGACONNECT, Ethernet, RS 232

\* The DTM adjustment of instruments with communication interface acc. to Fieldbus Foundation is currently limited to the access via the configuration interface (I<sup>2</sup>C) on the instrument side.

- New DTMs for the meas. principle 'Pressure/Hydrostatic' are now available (see above type overview). The communication via HART and Profibus as well as the direct connection via the configuration interface (I<sup>2</sup>C) on the instrument side are supported.
- A DTM for VEGASCAN 693 is also included. Configuration is made via VEGACONNECT (I<sup>2</sup>C interface) or directly via an additional RS 232 or Ethernet interface. Up to 15 HART sensors can be connected. You will find further information in the operating instructions manual of "VEGASCAN 693" or in the online help of VEGASCAN DTM.
- Configuration of event-controlled messages  
Instrument types VEGAMET 624 / 625 and VEGASCAN 693 support the transmission of e-mails in case of pre-defined events. All corresponding DTMs had been revised and support the creation of an e-mail account, the definition of events as well as the creation of the respective message.
- The DTMs for VEGAMET 624 / 625 support also the adjustment via the interfaces RS 232 and Ethernet.
- The DTMs for VEGAMET 624 / 625 and VEGASCAN 693 support now the creation of flow measurements. Especially on VEGAMET 624 / 625 the pulse output can be also assigned to the measurement loops for flow measurement.
- The creation of interface measurements can now be carried out in a simple way by the DTM VEGAMET 625 by a so called assistant.
- The standard installation directory of the VEGA DTM Collection was modified. The VEGA DTM Collection installs now under C:\Programme\VEGA\VEGADTM
- The VEGA Ethernet DTM was completely revised. In the actual version it is possible to use several Ethernet-capable VEGA instruments at the same time via only one Ethernet DTM. In addition, functions for address management of the cascade DTMs as well as for automatic instrument search were completed.
- The VEGA-RS 232 DTM was extended. Additional functions for address management were added via the DTM context menu.
- The installation routines of the VEGA DTM Collection install in addition the PACTware-AddIn "VEGA Projektassistent". This AddIn fits automatically in the surface of PACTware 3.0. This activates the function extension enabling the automatic configuration of PACTware projects.  
Currently the VEGA project assistant supports the automatic configuration of projects with VEGA instruments via the VEGA RS 232 DTM and the VEGA Ethernet DTM. If the VEGA project assistant finds unknown HART instruments, the assistant adds instead the Generic HART DTM (if installed).
- DTM trend function was extended, this functions now saves and visualises also additional status information.

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**The following errors were removed**

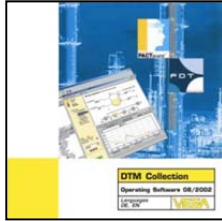
- The setting for recording of scaled values in the device trend was previously not possible for plics sensors with HART interface.
- Error in the documentation of series 40/50 HART sensors (scaling) as well as VEGAMET 624/625 (display settings) is removed.
- Error when opening the diagnostics page for series 40/50 Profibus sensors is removed.

**Program-internal**

- The mechanisms for monitoring multi-access to an instrument can be now switched off. Switching off can be necessary for systems with very low data throughput.

## DTM Collection 04 / 2005

Publication date 26.4.2005



The CD includes the following software components:

- PACTware™ version 3.0
- VEGA DTM Collection 4/2005 with
  - DTM Communication: version 1.45.0.0
  - DTM plics: version 1.45.0.0
  - DTM series 40/50: version 1.42.0.0
- Microsoft .NET Framework version 1.1
- HART Communication DTM version 1.0.17
- Generic HART DTM version 3.1.6
- Profibus communication DTM version 1.10 (84)

### Note:

In the download section of the VEGA homepage you can load the individual software components available on the CD. If you want to use all functions of the VEGA DTM Collection 4/2005, you should take care that you have installed the current PACTware™ version 3.0.

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### General

- **Interoperability:**  
The VEGA DTMs support FDT 1.20 specification as well as the extensions acc. to FDT Addendum. They were tested together with PACTware™ version 2.4 SP2 or PACTware™ 3.0 and adapted perfectly to these from applications. The VEGA DTM are also suitable for use in all frame applications having the FDT 1.2 Standard with FDT Addendum implemented.
- **Microsoft .NET Framework:**  
PACTware™ 3.0 was completely revised and uses now the latest software technologies like Microsoft .NET.  
This conversion enables use of more efficient memory management mechanism and capsulation of the individual DTMs. This means also that before installing PACTware™ 3.0, Microsoft .NET-Frameworks must be installed.
- **Profibus communication DTM:**  
The supplied Profibus communication DTM of Messrs. Softing is free of charge for PACTware 3.0 projects where licensed VEGA DTMs are used and can be used without any limitation.

## New functions

- From this version, the following instruments are also supported:
 

- VEGACAL	62, 63, 64, 65 and 66 <i>plics</i>	HART, Profibus PA, Fieldbus Foundation*
- VEGAFLEX	63	HART, Profibus PA, Fieldbus Foundation*

\* The DTM adjustment of instruments with communication interface acc. to Fieldbus Foundation is currently limited to the access via the configuration interface (I<sup>2</sup>C) on the instrument side.

- New DTMs for the “Capacitive” measuring principle are now available (see above typ overview). Communication via HART and Profibus as well as the direct connection via the configuration interface on the instrument-side via I<sup>2</sup>C are supported.
- The DTMs for the measuring principle “Guided microwave” were completed by type 63. Communication via HART and Profibus as well as the direct connection via the configuration interface on the instrument-side via I<sup>2</sup>C are supported.
- The DTMs for VEGAMET 624 / 625 and VEGASCAN 693 allow for the first time the creation of particularly adapted measurement loops for the sensor type VEGACAL. On the instrument-side the respective function will be available for the first time with version 1.40.
- The DTMs for VEGAMET 624 / 625 and VEGASCAN 693 offer now also the possibility to change over to the VEGA-ASCII communication protocol. This protocol offers simple access to measured values via own applications. On the instrument side, this function is offered in version higher than 1.40. Furthermore instruments must be equipped either with an Ethernet interface or an RS232 interface.
- The DTMs for VEGAMET 624 / 625 and VEGASCAN 693 were optimised in respect to the creation and administration of mailing lists. The mailing lists contain all defined events and addressees of event-controlled messages.
- The VEGA-specific PACTware-AddIn “VEGA project assistant“ was extended for us in local networks (LAN). If the VEGA project assistant has found several VEGA systems within a local network, a checkbox dialog appears delivering a list of all found VEGA measuring systems allowing a specific selection of certain VEGA measuring systems. This mode can be switched off.

## The following errors were removed

- Fault rectifications/optimisations with VEGAMET DTM (context-sensitive help, formatting and contents of the instrument documentation, warnings).
- Fault rectifications/optimisations with VEGABAR DTM (formatting and contents of the sensor documentation, conversion in mmHg and inH<sub>2</sub>O).
- Fault during connecting to VEGAFLEX in version 1.21 and 1.23



## DTM Collection 10 / 2005

Publication date 21.11.2005



The CD includes the following software components:

- PACTware™ Version 3.0 SP2
- VEGA DTM Collection 10/2005 with
  - DTM Communication: Version 1.50.0.0
  - DTM plics: Version 1.50.0.0
  - DTM series 40/50: Version 1.42.0.0
- Microsoft .NET Framework Version 1.1
- HART Communication DTM Version 1.0.17
- Generic HART DTM Version 3.1.6
- Profibus communication DTM Version 2.02

### Note:

In the download section on the VEGA homepage you can load the individual software components included on the CD. If you want to use all functions of the VEGA DTM Collection 10/2005, you should make sure that you have installed the actual PACTware™ version 3.0 SP2.

### General

- Certification:  
All VEGA DTMs for adjustment of the plics instrument series are certified acc. to the directives of the FDT-Group.
- Interoperability:  
VEGA DTM support FDT 1.20 specification as well as the extensions acc. to FDT Addendum. They had been tested along with PACTware™ version 2.4 SP2 or PACTware™ 3.0 SP2 and adapted in an optimum way to these frame applications. VEGA DTMs are also suitable for use in all frame applications having the FDT 1.2 Standard with FDT Addendum implemented.

## New functions

- **VEGACAL 69**  
DTMs for the “capacitive“ measuring principle had been completed by VEGACAL 69. Communication via HART and Profibus as well as the direct connection via the configuration on the instrument side via I<sup>2</sup>C are supported.
- **Adequate VEGALOG DTM**  
Supplementary to the previous function of the VEGALOG-DTM as pure Gateway-DTM, also the function as instrument-DTM is available. Hence also the communication and creation of measurement loops can be carried out centrally in the VEGALOG-DTM. Previously the adjustment software VVO had to be used. The adjustment is harmonised and is carried out in the same way as for the known VEGA-DTMs.  
Note:
  - For operation as instrument-DTM a CPU software 2.0 or higher must be used in VEGALOG 571.
  - Only the basic application types are supported. See “Function overview VEGALOG” in the download section of the VEGA homepage for detailed information
- **Profibus PA sensors of individual manufacturers on VEGALOG 571**  
In future it is possible to combine individual Profibus PA sensors (acc. to profile 3) with the VEGALOG-DTM. Requirement is firmware version 2.0 of the VEGALOG 571 CPU as well as firmware version 1.50 of the VEGALOG 571 EP card. If the manufacturer of the respective Profibus PA sensors delivers a corresponding DTM, this possibility offers a smooth integration of individual Profibus PA sensors in VEGALOG 571 from the hardware to the adjustment.
- **VEGA Generic Profibus DTM**  
If there is no corresponding DTM for the Profibus PA sensor available when creating measurements on VEGALOG 571, the VEGA Generic Profibus DTM can be used instead. However, the use implies detailed knowledge of the Profibus specification and is only recommended in exceptional cases.
- **Functional safety acc. to SIL**  
For most plics sensors with HART connection, there is now the possibility to operate them in safety-relevant measuring systems acc. to SIL 2 or SIL 3. The DTMs offer suitable support of this mode in respect to the preparation of the sensors and a permanently available indication of this operating condition in the DTMs.  
The following plics sensors are supported:

VEGASON 61-63	from firmware version 3.26
VEGAFLEX 61-66	from firmware version 3.23
VEGABAR 52, 54, 61, 54-67	from firmware version 3.22
VEGAPULS 61-66	from firmware version 3.22
- **VEGA project assistant**  
The VEGA project assistant can now also be used for automatic configuration of Profibus projects. Requirement is a preconfigured Profibus communication DTM in the project. Furthermore the VEGA project assistant now also takes over DTMs of other manufacturers into the project tree, as far as they can be clearly assigned to the instrument.

- **VEGAMET/VEGASCAN**  
From firmware version 1.60, VEGAMET 624 / 625 and VEGASCAN 693 offer the following new functions:
  - integrated data logger
  - SMS messages via VEGAMET
  - WHG approvals
  - Access protection for RS 232 connectionFrom this version, the VEGAMET/VEGASCAN DTMs offer complete support for the creation as well as use of the new VEGAMET functions.
- **VEGAMET/VEGASCAN**  
From firmware version 1.70, VEGAMET 624 / 625 and VEGASCAN 693 offer the following new functions:
  - Tendency recognition
  - Pump controlFrom this version, the VEGAMET/VEGASCAN DTMs offer complete support for the creation as well as use of the new VEGAMET functions.

#### **The following errors had been removed**

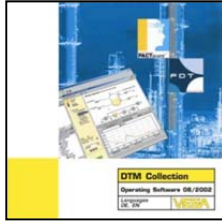
- **Multiviewer**  
Loading of echo curve recordings (CRV files) from CD is now supported.
- **Modem connections**  
The automatic project configuration via a modem connection is now possible.
- **Operate DTM via keyboard**  
The pre-allocation and sequence of the DTM adjustment elements was optimised for the keyboard-oriented use.

#### **Download of a DTM**

The download of instrument data of a VEGAMET/VEGASCAN Default-DTM can now also be carried out before creating a measurement loop.

## DTM Collection 04 / 2006

Date of issue 26.4.2006



The CD includes the following software components:

- PACTware™ Version 3.0 SP3
- VEGA DTM Collection 4/2006 with
  - DTM Communication: Version 1.51.0.0
  - DTM plics: Version 1.51.0.1
  - DTM Series 40/50: Version 1.42.0.0
- Microsoft .NET Framework Version 1.1
- HART Communication DTM Version 1.0.17
- Generic HART DTM Version 3.1.6
- Profibus Communication DTM Version 2.02

### Note:

In the download area of the VEGA homepage you can download the individual software components that are contained on the CD. If you want to benefit from all functions of VEGA DTM Collection 4/2006, please make sure that the updated PACTware™ version 3.0 SP3 is installed.

## General

- DTM certification:  
All VEGA DTMs for adjustment of the plics instrument series are certified according to the guidelines of the FDT group.
- FDT conformity:  
The VEGA DTMs support the FDT 1.20 specification as well as the extension according to the FDT Addendum. They were tested with PACTware™ Version 2.4 SP2 and PACTware™ 3.0 SP3 and optimally adapted to this frame application.
- Interoperability:  
The VEGA DTMs are also suitable for all frame applications having implemented the FDT 1.2 Standard with FDT Addendum. VEGA is an active member of the working group „FDT Interoperabilität“ of the FDT Group.
- PACTware 3.0 SP3  
VEGA DTM Collection is supplied with the latest PACTware version. Beside smaller bugfixes, this version was improved in respect to instrument interoperability. Thus, the stability of PACTware could again be improved in systems with heterogeneous instrument configuration. In addition, PACTware 3.0 SP3 offers now the adjustment in Russian language (Online assistance excluded)

## New functions

- **VEGACAL 67**  
The DTMs for the “capacitive” measuring principle had been supplemented by VEGACAL 67. The communication via HART and Profibus is supported, as well as the direct connection via the configuration interface on instrument site via I<sup>2</sup>C.
- **VEGAPULS 61 – 63 with increased sensitivity**  
The VEGAPULS DTMs had been adapted to the instrument versions with increased sensitivity (illustration of the echo curves, documentation, Import/Export function).
- **VEGALOG DTM**  
When reading out the instrument data, VEGALOG DTM checks, if Profibus and VBUS sensors configured to the measurement loops are actually connected, otherwise the VEGALOG DTM reacts with a warning notice.  
Measured value limitations can now also be activated for VEGALOG measurement loops, the same applies to the current outputs. .
- **Analysis of echo curves**  
To simplify the comparison of echo curves, the zoom function was extended by the direct input of zoom fields. This extension concerns all VEGAPULS, VEGASON and VEGAFLEX DTM of the plics series and the VEGA Multiviewer.
- **VEGA Ethernet DTM**  
The VEGA Ethernet DTM now stores the IP addresses of the Ethernet instruments assigned to the project, even if no licensing for the signal conditioning instrument DTM was carried out.
- **PLICSCOM with backlight**  
The updated version of PLICSCOM is provided with a backlight. The backlight can be activated and deactivated by means of the DTMs of the instrument families VEGASON, VEGAPULS, VEGAFLEX, VEGABAR and VEGACAL.
- **PLICSCOM – language adjustment**  
The updated version of PLICSCOM is provided with a backlight. The languages “Chinese” and “Japanese” can be activated by means of the DTMs of the instrument families VEGASON, VEGAPULS and VEGAFLEX.
- **VEGAFLEX DTM**  
With VEGAFLEX DTM (plics series) basic adjustments can be easily carried out by easy selecting the application type. In addition the VEGAFLEX DTM supports the evaluation of the current DK value of the product to be measured.
- **Adaptation to ABB systems**  
The VEGA DTM (plics series) had been optimised under ABB systems in respect to multi-user operation and bus configuration.

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### **The following errors had been removed**

- **VEGAPULS DTM**  
The input of the tube inner diameter in feet is possible now.
- **Import function**  
Import of special parameters is now possible.
- **Software update**  
The DTMs of the instrument families VEGASON, VEGAPULS, VEGAFLEX, VEGABAR and VEGACAL enable now the cancellation of a software update.
- **VEGA Multiviewer**  
With the illustration of trend records in the VEGA Multiviewer the axis identifications for VEGALOG and VEGAMET/SCAN had been improved, with VEGALOG trend records the wrong indications of the units had been removed.
- **VEGA Tank Calculation**  
When importing tank geometries linearisation curves can now also be imported, which only use a section of the tank.

### **Program internal**

- From this version the monitoring system of the running time "NuMega" operates only in the so-called Silent-Mode. Possibly occurring program internal conflicts are only displayed in the background. The previous error dialog is stopped.

## DTM Collection 01 / 2007

Publication date 15.2.2007



The CD contains the following software components:

- PACTware™ version 3.0 SP4
- VEGA DTM Collection 01/2007 with
  - DTM Communication: version 1.53.0.0
  - DTM plics: version 1.53.0.0
  - DTM series 40/50: version 1.53.0.0
  - DTM DIF55 version 1.4.129
- Microsoft .NET Framework version 1.1
- HART Communication DTM version 1.0.25
- Generic HART DTM version 3.1.12
- Profibus communication DTM version 2.03

### Note:

In the download area of the VEGA homepage you have the possibility to download the individual software components available on CD. If you want to use all functions of the VEGA DTM Collection 01/2007, make sure that you have installed the actual PACTware™ version 3.0 SP4.

### General

- DTM certification:  
All VEGA DTMs for adjustment of the plics instrument series are certified according to the regulations of the FDT group.
- FDT conformity:  
VEGA DTMs support FDT 1.20 specification as well as the extensions according to the FDT Addendum. They had been tested together with PACTware™ 3.0 SP4 and adapted optimally to this frame application.

### New functions

- From this version, the following instruments are also supported:
  - PLICSRADIO C62, R61, R62, T61 and T62  
→ Instrument concept for wireless remote transmission of measured values
  - VEGACONNECT 4  
→ Communication adapter for connection to USB-port
  - VEGADIF 55  
→ Differential pressure transmitter for connection to HART bus systems
- VEGAPULS 67 DTM  
VEGAPULS DTMs had been completed by the VEGAPULS 67 instrument type. The

communication via HART and Profibus as well as the direct connection via the configuration on the instrument side through I<sup>2</sup>C are supported.

- VEGABAR 51 and 63 DTM  
VEGABAR DTMs had been completed by the VEGABAR 51 and VEGABAR 63 instrument types. The communication via HART and Profibus as well as the direct connection via the configuration on the instrument side through I<sup>2</sup>C are supported.
- Language Dutch  
From this version, Dutch can be selected as language for the DTMs. The online help appears for this selection in English.  
The language of the displays on the instrument side can be also set to Dutch.
- DTM measured value and diagnostics window  
Extended diagnostic options for VEGASCAN and VEGAMET. The progress bar appear now in the status areas of measured value and diagnostics window. For instruments with Ethernet or RS232 interface, the event log on the instrument side can be requested. The diagnostics window offers now information on the quality of the HART communication.
- Linearization curves  
For VEGASCAN 693 it is now possible to adjust an individual, programmable linearization curve for each measurement loop. The requirement on the instrument side to use this DTM function is given from firmware version 1.80.
- Dialling connections  
The configuration of the RS 232 interface for communication protocol "PPP" was simplified in respect to the setting for Internet operation via modem (Dial-in / Dial-out). This concerns instrument types VEGAMET 624/625, VEGASCAN 693 as well as PLICSRADIO C62.
- Project assistant  
The VEGA project assistant (PACTware 3.0 AddIn) supports now the automatic instrument search via USB interface for VEGACONNECT 4.
- Message list  
The event list of VEGAMET 624/625, VEGASCAN 693 as well as PLICSRADIO C62 was extended for operation with Web-VV.  
E-mail and SMS messages can now also be triggered in interval mode.
- SIL mode  
The DTMs of VEGAPULS 68, VEGABAR 51, VEGABAR 61 and VEGASON 6x instrument types offer now the activation of the SIL mode.
- VEGA Multiviewer  
Extension of the instrument documentation in respect to information in the footer, adaptation of the cover sheet and instrument identification.  
Improvement of the readability when using very long file names for echo curve recordings.  
Also extended search functions for DTM trend and device trend recordings.
- Special parameters  
New special parameters "Overfill recognition with product type liquid" and "Correction of the spreading speed" for VEGAFLEX plics sensors (except FLEX 67).

**The following errors had been removed**



- **Service DTM**  
The Service DTM supports now the configuration of plics replacement electronics units also if these are available without basic initialisation (instrument type = 60).
- **Service DTM**  
The instrument type was not displayed with ultrasonic PLICS sensors VEGASON 61 to 63.
- **Import function**  
Depending on the initial conditions, not all imported data were transmitted to the instrument after an import. In future, all customer parameters as well as all special parameters (if they were selected for import) are marked as “changed” after an import. This ensures that all imported values – unaffected by the last project status – will be transferred to the instruments with the next download.
- **DTM trend**  
The DTM trend recording with PULS 61 HART did not function with certain basic conditions.
- **Device trend**  
The device trend recording with VEGAMET 624/625 and VEGASCAN 693 could not be started with certain basic conditions.

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## **DTM Collection 01 / 2007 (2)**

Publication date 22.3.2007

### **General**

The software component "VEGA DTM Collection: DTMplices 01 / 2007 (2)" turned up as completion to release 01 / 2007. The new software component with version 1.53.0.2 is only available in the download section on the VEGA homepage.

### **New functions**

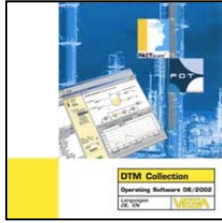
- VEGAWELL 5x DTM  
The VEGAWELL DTMs were completed by type VEGAWELL 5x. Simply communication via HART is supported. The DTM is used for adjustment of VEGAWELL 51.

### **The following errors had been removed**

- Comment field for trend and echo curves is no taken over into the print version.

**DTM Collection 11 / 2007**

Publication date 19.12.2007



The CD contains the following software components:

- PACTware™ version 3.5
- VEGA DTM Collection 11/2007 with
  - DTM Communication: version 1.54.0.0
  - DTM plics: version 1.54.0.1
  - DTM series 40/50: version 1.54.0.0
  - DTM DIF55 version 1.4.129
- Microsoft .NET Framework version 1.1
- HART Communication DTM version 1.0.25
- Generic HART DTM version 3.1.12
- Profibus communication DTM version 2.03

**Note:**

In the download area of the VEGA homepage you have the possibility to download the individual software components available on CD. If you want to use all functions of the VEGA DTM Collection 11/2007, make sure that you have installed the actual PACTware™ version 3.5.

**General**

- DTM certification:  
All VEGA DTMs for operation of plics instrument series are certified according to the regulations of the FDT-Group.
- FDT conformity:  
VEGA DTMs support FDT 1.20 specification as well as all supplements according to the FDT Addendum. They had been tested together with PACTware™ 3.5 and adapted in an optimum way to these frame applications.
- PACTware 3.5  
The new PACTware includes the following improvements:
  - Completely new adjustment surface with extended presentation options
  - Possibility to Save/Load PACTware sessions
  - New project presentation option: Plant view
  - Modified presentation in the project window with sorting functions
  - Improved management of the device catalogue
  - Upload/Download manager for specific saving/loading of project parts
  - Improved clipboard function
  - Improved print function with clear project presentation
  - High performance also with very comprehensive projects (1000 nodes and more)
- The layout of the graphic user surface had been improved for the complete VEGA DTM Collection for optimum integration in PACTware 3.5. The adjustment elements now also adapt to the Windows® style.

**New functions**

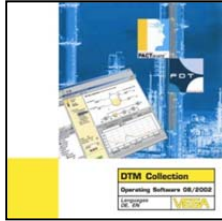
- VEGASON S 61 and VEGASON S62 DTMs  
The VEGASON DTMs were extended by instrument types VEGASON S 61 and VEGASON S 62. Supported is only the communication via the configuration interface on the instrument side via I<sup>2</sup>C.
- VEGAWELL 5X DTM  
The VEGAWELL DTMs were extended by the DTM VEGAWELL 5X for adjustment of the sensor VEGAWELL 51 HART. Supported is only the communication via HART. The sensor does not have an additional configuration interface on the instrument side.
- SIL for VEGACAL  
The VEGACAL DTMs offer now SIL support for VEGACAL types 62, 63, 64, 65 and 66 in HART version.
- Service recording  
All plics-DTMs for contactlessly measuring instrument types had been extended in the menu Service functions by the option "Service recording". By starting the "Service recording", all DTM documents are generated and saved automatically which are of relevance in conjunction with service activities (trend recording, echo curve recording and export data).
- Communication protocol: FF  
Communication and adjustment of the plics instrument series with interface type FF by means of DTM is now directly possible via the FF-H1 or FF-H2 bus.
- VEGA service-DTMs  
To carry out the electronics exchange, the VEGA service-DTMs offer now also two simplified assistant-driven procedures. Furthermore VEGA Service DTMs offer now also an assistant to carry out the offset setting of contactlessly measuring sensors.
- VEGA Multiviewer  
The VEGA Multiviewer has been extended by the following analysis functions:
  - Function for simplified comparison of DTM export files
  - Function for generation of temporary trend files from existing echo curve recordings (\*.crv files).
- VEGA Ethernet DTM  
The VEGA Ethernet-DTM has been extended by the following functions:
  - Support of modem routers
  - Instrument search for instruments with activated DHCP
- VEGA project assistant  
The VEGA project assistant has been extended in the following items:
  - Identification of VEGA instruments even if they are using profile-specific IDs
  - Identification of Profibus instruments from other manufacturers (only restricted)
  - Identification of VEGADIF 55
- VEGAMET-DTM  
The DTMs for VEGAMET 624/625 and VEGASCAN 693 were adapted to function extension of the stated instrument types. These are mainly:
  - Editing of the instruments as DHCP clients
  - Editing of the application type "Pressurized vessel" (only VEGAMET 625)
  - Indication of a HART communication statistics to judge the communication quality.

### **The following errors had been removed**

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- VEGAPULS 67 DTM  
The malfunction for online parameter adjustment of VEGAPULS 67 for Profibus and FF via DTM has been removed.
  - Tank Calculation  
Access to Tank Calculation from the DTM is now also supported by the DTM language "Dutch".
  - Print device documentation  
The print function "Print device documentation for PLICSRADIO" works now correctly, previously everything was printed double.
  - Zoom for echo curve presentation  
The scaling of the X-axis functions now also without problems with extremely magnified echo curves.
  - Saving of IP addresses  
Saving of IP addresses by means of DTMs for VEGACOM 558 functions now.

**DTM Collection 10 / 2008**

Publication date 6.10.2008



The CD contains the following software components:

- PACTware™ version 3.6
- VEGA DTM Collection 10/2008 with
  - DTM Communication: version 1.55.0.0
  - DTM plics: version 1.55.0.0
  - DTM series 40/50: version 1.55.0.0
  - DTM DIF55 version 1.4.129
- Microsoft .NET Framework version 1.1
- HART Communication DTM version 1.0.25
- Generic HART DTM version 4.01
- Profibus Communication DTM version 2.03

**Note:**

In the download section on the VEGA homepage you can load the individual software components available on the CD. If you want to use all functions of the VEGA DTM Collection 10/2008, make sure that you have installed the latest version PACTware™ 3.6.

**General**

- All VEGA-DTM contained on this CD are tested and released for operation under Microsoft® Windows Vista.
- DTM certification  
All VEGA DTMs for operation of plics instruments are certified according to the guidelines of the FDT Group.
- FDT conformity  
The VEGA DTMs support the FDT 1.20 specification as well as the extensions according to FDT Addendum. They have been tested along with PACTware™ 3.6 and adapted perfectly to this frame application.
- PACTware™ 3.6  
The new PACTware™ includes the following revisions:
  - Support of Microsoft® Windows Vista
  - Revision of the user interface:
    - Device catalogue management
    - DTM identification
    - Settings for print function
    - Revised user guide with download function
  - TCI (Tool calling interface) Level 3 for involvement of PACTware™ in engineering systems

## New functions

- VEGA signal conditioning instruments as part of an overfill protection (WHG)  
The signal conditioning instruments VEGAMET 624 and VEGAMET 625 with Firmwareversion >1.90 are in conformity with the approval principles for overfill protections (ZGÜS) and can basically be used as part of an overfill protection. The respective adjustment of the unit (WHG activation) can be carried out by the customer by means of the new DTMs.
- SIL function  
All VEGA sensors which are SIL qualified are available either with fix activated SIL function or with adjustable SIL function. For sensors with fix activated SIL function, the SIL activation cannot be eliminated via DTM (protection against unintentional changes).
- VEGA project assistant  
The VEGA project assistant was extended as follows:
  - The search function will now also find DTMs of other manufacturers.
  - The determined values for serial number, tag and address are now also taken over for series 40/50 DTMs.
- VEGA service - DTM  
The VEGA service – DTMs were extended as follows:
  - Implementation of the simplified electronics exchange with parameter of local data file.
  - Copy protection in case of deviant instrument type respectively deviant Firmwareversion (electronics / parameter data file) has been cancelled and replaced by warning notices.
- VEGA signal conditioning instruments with RS232 interface  
The VEGA signal conditioning instrument DTMs VEGAMET 624, VEGAMET 625, VEGASCAN 693 and PLICSRADIO C62 offer improved support for the Dial-Out function when using „Serial to GPRS“ modems.
- All VEGA DTM  
A safety query appears, if data are tried to be transferred into an instrument without synchronisation of the DTM with the instrument. Thus, unintentional overwriting with DTM standard parameter is avoided.
- VEGACONNECT 4 - DTM  
The standard setting with VEGACONNECT 4 - DTM for HART Communication is now preset with „Secondary Master“.

## The following errors were eliminated

- VEGA Multiviewer  
The problem, that in case of „generated trends“ deviations in respect to time synchrony between echo curves and appropriate index markers in the trend occurred, has been eliminated.
- Instrument documentation  
The false echo data for VEGAPULS series 60 sensors are taken over in the instrument documentation with immediate effect.

**DTM Collection 05 / 2009**

Publication date 28.5.2009



The CD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- PACTware™	Version 3.6 SP1
- VEGA plics DTM:	Version 1.60.0
- VEGA series 40/50 DTM:	Version 1.55.0.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.25
- Generic HART DTM	Version 4.01
- Profibus communication DTM	Version 2.03

**Note:**

In the download area on the VEGA homepage, you have the possibility to load the individual software components available on CD. If you want to use all functions of the *VEGA DTM Collection 05/2009*, be sure that you have the actual version *PACTware™ 3.6 SP1* installed.

**General**

- All VEGA DTMs on this CD are tested and released for use under Microsoft® Windows Vista.
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification as well as the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with *PACTware™ 3.6 SP1* and adapted in an optimum way to these frame applications.
- The complete content of the previous setup *DTM plics* and *DTM Communication* is now combined in one setup *VEGA plics DTM*.



## New functions

- **VEGAMET 391 DTM**  
The VEGA DTMs were completed by the VEGAMET 391 DTM for adjustment of VEGAMET 391. VEGAMET 391 can be connected directly via a USB cable with the PC. Optionally, it is also possible to operate the instrument via Ethernet or RS232.
- **VEGA USB-DTM**  
For direct operation of VEGAMET 391 via USB, the communication DTM VEGA USB-DTM was incorporated.
- **VEGADIF 65 DTM**  
Also new are the VEGADIF 65 DTMs. The communication via HART, Profibus and FF is supported as well as the direct connection via the I<sup>2</sup>C configuration interface on the instrument side.

## Notes

- **DTM Style Guide**  
Except the communication DTMs and the VEGACONNECT DTMs, all DTMs from the setup "VEGA plics DTM" had been equipped with a new graphical user interface according to the DTM Style Guide 1.1.
- **Conversion of the technology**  
Together with the conversion of the user interface, also the technology for development of the DTMs on NET 1.1 was converted and an update from the FDT interface to FDT 1.2.1 specification was carried out. Due to the use of new technologies, data (project data, echo curve recordings, trend recordings, etc.) recorded with this DTM version can no longer be processed with the previous versions.
- **Downward compatibility**  
Despite the comprehensive conversions, all supplied DTMs are completely downward compatible to all previous instrument versions. Furthermore, all data (project data, echo curve recordings, trend recordings, etc.) recorded with older DTM versions can be further processed with this DTM version.

## DTM Collection 10 / 2009

Publication date 14.10.2009



The CD includes the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 3.6 SP1
- VEGA-DTM:	Version 1.61.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.25
- Generic HART DTM	Version 4.01
- Profibus Kommunikations DTM	Version 2.04

### Note:

In the download section on the VEGA homepage you have the possibility to load the software components available on CD individually. If you want to use all functions of the *VEGA DTM Collection 10/2009* make sure that you have installed the actual *PACTware™ 3.6 SP1* version.

### General information

- All VEGA DTMs on this CD are tested and released for use under Microsoft® Windows Vista and Windows 7.
- FDT conformity  
The VEGA DTMs had been developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification as well as the specifications of the DTM Style Guide 1.1.
- The VEGA DTMs had been tested together with *PACTware™ 3.6 SP1* and adapted optimally to these frame applications.
- All contents of the previous setups:  
    *"DTM plics"*,  
    *"DTM Communication"* and  
    *"DTM S40\_50"*  
are now combined in the setup *"VEGA-DTM"*.
- For the correct function of the new VEGA DTM, also .NET-Frameworks 2.0 is a prerequisite apart from .NET-Framework 1.1. The installation of the VEGA DTM is only possible if these requirements are fulfilled. With the next installation via CD (Autorun), all required software components will be installed automatically.

## New functions

- VEGAPULS with extended functionality  
All DTMs of the VEGAPULS instrument series (VEGAPULS 61 – 68) support now also the plics® sensors as well as the plics® sensors with increased functionality. During the project generation via the VEGA project assistant, the changeover is carried out automatically. With manually created projects, the setting can be carried out individually in the DTM under “Configuration”. Supported is the communication via HART as well as the direct connection via the configuration interface on the instrument side via VEGA-CONNECT 4.
- VEGA communication DTMs  
All relevant VEGA communication or Gateway DTMs (VEGACONNECT 4, VEGAMET, VEGASCAN, PLICSRADIO) had been extended by the function to differentiate plics® and plics® sensors with increased functionality.
- VEGAMET 391 DTM  
The setup assistant offers now also the adjustment of “Linearization” and “Scaling”. The modes for pump control were extended.
- Electronics exchange  
All functions of the DTMs previously available in the device catalogue as service DTMs are now shifted to the standard device DTMs. The central function to support the “Electronics exchange“ is now available in the device DTMs under “Device data – Additional functions – Electronics exchange“. Other functions of the service DTM can now be accessed directly in the parameter adjustment window. The previous service DTMs are no more available.
- Set bus address  
In the DTMs for HART and Profibus PA sensors, the “Option dialogue” was extended by the entry “Change address in device“. Hence, there is a possibility to change the bus address of a sensor in case the used communication DTM does not offer this function.
- Menu structure in diagnosis pages  
The menu structures of the context menus of the parameter adjustment pages “Echo curve“, “DTM trend” and “Device trend” had been adapted.
- Software update  
The adjustment interface for the software update was adapted for all DTMs to the requirements of the DTM Style Guide 1.1. For sensors with extended functionality, a procedure for the software update with coded source files was introduced.
- Activity range  
To avoid faulty adjustment, the adjustment concept was changed for DTM parameter adjustment pages which can execute separate activities in the instruments – such as for example a “Reset“. For these DTM parameter adjustment pages, the buttons “OK” and “Accept” are generally blocked in the so-called “Activity sector“.
- VEGA Multiviewer  
The VEGA Multiviewer was extended by the indication of the new file types from the plics® sensors with increased functionality. Furthermore the functions “Generate trend” and “Compare export files” are again supported with this version.

### The following errors were removed

- VEGAFLEX 67 DTM  
The function “Calculated DK value” was completed.
- VEGAMET DTM  
Resetting of the totalizer with VEGAMET 391 functions now. The combination with VEGADIF 55 was improved. Various errors in the application assistant were removed.
- VEGABAR DTM  
The settings for “Application” and “Adjustment” are also accepted correctly after importing the data from the device with the setting “Process pressure”.
- VEGAWELL 5x DTM  
The parameter adjustment page “Device trend” is now offered from software version 1.10 of the sensor.
- VEGA Multiviewer  
All file types that can be used in the VEGA Multiviewer are now correctly registered in the operating systems. Hence, they can be directly opened by double clicking to the file name in the VEGA Multiviewer. Printing as PDF is now also possible.  
When starting, the Multiviewer uses now the lastly selected language in a VEGA DTM.
- VEGA project assistant  
The device types VEGADIF 65, VEGAPULS 67 and VEGASON S61 were not found in certain bus structures. This error is now removed.
- False signal suppression  
The optical response for the user when executing an action for false signal suppression was improved. Furthermore, an automatic upload of the new curve is automatically carried out after execution.
- Import function  
The error message “E129” during the download of imported files with VEGAPULS DTMs does no longer appear.
- Service recording  
The DTM function “Service recording” creates now the directory “VEGA-Service” in case it does not exist on the computer.
- Sensor features  
Loading of the sensor features can now be carried out as often as requested. With each loading process, the update of the indication in the DTM is carried out.
- Windows with Asiatic character set  
On computers with Windows installation using an Asiatic character set, the connection to the instrument was not possible. This malfunction was removed.

## DTM Collection 10 / 2009 SP1

Publication date 23.12.2009

Only available via the download section and plics@plus – Setup DVD 01/2010



The DVD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 3.6 SP1
- VEGA DTM:	Version 1.61.2
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.25
- Generic HART DTM	Version 4.01
- Profibus Communication DTM	Version 2.04

### Note:

In the download section on the VEGA homepage you have the possibility to load the individual software components available on the DVD. If you want to use all functions of the *VEGA DTM Collection 10/2009 SP1*, make sure that you have installed the actual version *PACTware™ 3.6 SP*.

### General information

- The DVD contains all components of the previously supplied CD *VEGA DTM Collection 10/2009*. The difference to the CD is that for the DVD some errors in the VEGA DTM had been removed that in the meantime came to our notice so that it will be supplied now with version 1.61.2.

### New functions

- VEGABAR 55  
The DTM for the measuring principle "Pressure/Hydrostatic" was completed by type VEGABAR 55. Supported is the communication via HART, Profibus and FF but also the direct connection via the configuration interface on the instrument side via I<sup>2</sup>C.

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### **The following errors were removed**

- **Device catalogue**  
VEGAMET 391 – DTM and PLICSRADIO – DTMs appear now also under the Turkish MS Windows© in the device catalogue.
- **Multiviewer**  
The indication of the parameter adjustment values functions now also for older export files (before version 1.60.0).
- **Interoperability**  
The interoperability problems occurring in version 1.60.0 with the frame applications Fieldcare (E+H), Freelance (ABB), Melodie (ABB) and 800xA (ABB) are solved.
- **Import**  
Error when importing older export files (from version 1.60.0) is removed.
- **False signal curve**  
Error when transmitting manually edited false signal curves is removed.
- **Converting tool**  
The converting tool "PW-ProjectConverter.exe" is made available in the installation directory of the VEGA-DTM.
- **Electronics exchange**  
With the electronics exchange, also the instrument offset when exchanging a plics electronics module with a plics@plus electronics module is now adapted.

## DTM Collection 04 / 2010

Publication date 16.4.2010



The CD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 3.6 SP1
- VEGA-DTM:	Version 1.62.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.25
- Generic HART DTM	Version 4.01
- Profibus Communication DTM	Version 2.04

### Note:

In the download section of the VEGA homepage, you have the possibility to download individual software components available on the CD. If you want to use all functions of the *VEGA DTM Collection 04/2010*, keep in mind that you should have the actual version *PACTware™ 3.6 SP1* installed.

### In general

- All VEGA DTMS of this CD are tested and released for use under Microsoft® Windows Vista and Windows 7.
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification as well as the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with *PACTware™ 3.6 SP1* and adapted optimally to these frame applications.
- For the correct function of the new VEGA DTM, .NET-Frameworks 2.0 is a prerequisite apart from .NET-Framework 1.1. The installation of the VEGA DTM is only possible if these prerequisites are fulfilled. All required software components will be installed automatically when installing via CD (Autorun).

## New functions

- **VEGAPULS Profibus DTM**  
The VEGAPULS instrument series (VEGAPULS 61 – 68) is now available in the plics@plus version. The DTMs are adapted respectively for the new functionality. The DTMs support the parameter adjustment via Profibus as well as the direct connection via the configuration interface on the instrument side through VEGACONNECT 4.
- **History on parameter changes**  
From software version 4.1.0, the VEGAPULS instrument series has a so-called parameter modification memory, recording and storing all manipulations of the parameter settings. The DTMs were extended respectively for the indication and adjustment of this function.
- **Echo curve memory**  
From software version 4.1.0, the VEGAPULS instrument series has an instrument-internal echo curve memory. The DTMs were extended respectively for the indication and adjustment of this function.
- **Measurement in the free field**  
From software version 4.1.0, the VEGAPULS instrument series has the option "Measurement in the free field". The DTMs were extended respectively.
- **Linearization**  
The calculation assistant for linearization curves can be opened now directly in the parameter page "Linearization". Also scaled values can now be used in the table.
- **Optimization of the assistant functions**  
Complex adjustments were facilitated already in previous versions by so-called assistant functions. The assistant functions had been extended in such a way that from now on all data are automatically accepted in the instrument after an assistant function was carried out.
- **Echo curve**  
The echo curve is now displayed as a standard feature in all parameter adjustment pages where it is helpful to monitor also the curve. The echo data are displayed together with the curve where it is useful for lack of space.
- **Interoperability**  
The interoperability problems with frame applications Fieldcare (E+H), Freelance (ABB) and Melodie (ABB) detected in version 1.60.0 are eliminated.
- **Licensing**  
For the DTMs of the previous instrument generations (series 40/50), also the complete function volume is now released in the standard version. All DTMs, developed according to DTM Style Guide offer now a possibility for a later input of the licensing code in the "Info on" dialogue. The input of one valid code is sufficient to convert all installed VEGA DTMs to the full version.



### The following faults were removed

- VEGAPULS DTM  
When the sensor is in error status, this is indicated also in the measured value window.
- VEGAMET DTM  
Application images correspond now to the actually used sensor type. Misinterpretations of some data after the import are now removed. An instrument search can now also be started within the assistant to assign inputs. The assistant for creating events was optimised.
- VEGASCAN DTM  
The presentation for the measured value window is more clear now and the unit for scaled values is now displayed in the correct way.
- VEGABAR DTM  
The DTMs allow now also negative values for adjustment. Also the determination of the permissible limit values was improved.
- VEGACONNECT 4 DTM  
The function "Change instrument address" in the context menu of VEGACONNECT 4 DTM was improved.
- PLICSRADIO R62 DTM  
The DTM was completed by an indication clarifying the online/offline status.
- PLICSRADIO T61 DTM  
The communication problems to VEGAPULS sensors from software version 4.0 are removed.
- PLICSRADIO C62 DTM  
The indication of the measurement loop TAG in the measured value view was corrected.
- VEGAMET 391 DTM  
Problems during connection to a VEGAMET 391 via USB (if the project was created manually) are removed. The error when writing the Ethernet address in the setup assistant is removed.
- VEGA Multiviewer  
The new VEGA Multiviewer supports now also the indication of DTM data files (export files) of former instrument generations of series 40/50. The switching over of the indication from metres to feet was improved. The cover sheet contains now additional information on the improvement of the traceability.
- VEGA DTM Selector  
The VEGA DTM Selector works now also under Windows 7.
- False signal suppression  
The presentation of the echo curve is now updated after each activity in respect to false signal suppression. The problems occurred sometimes with "Edit false signal" are removed.
- Import function  
The rounding of the parameter adjustment values during import has now the same number of commas after the decimal point than that shown in the DTM. The DTM function "Import" was improved in respect to the compatibility test of the DTM data file (export file) and target instrument.
- Print view  
The presentation of the X/Y-axis for the echo curve via the function "Print view" was improved.

- 
- **Electronics exchange**  
The DTM function "Electronics exchange" was improved in respect to the compatibility test of sensor data (XML file) and replacement electronics.
  - **Simulation**  
The limit values for the simulation are converted respectively when using the length unit "ft".
  - **Event memory**  
The sorting according to date in the parameter adjustment page "Event memory" functions now.
  - **Sensor documentation**  
The special parameters are now displayed with index, analogue to the presentation in the DTM.
  - **Simulation**  
The simulation of measured values in the instrument remains active until it is undone by the DTM. If the connection is not disconnected correctly, the instrument undos automatically the simulation operation after a defined time.
  - **Linearization**  
The error relating to the assignment of linearization curves for "Venturi" and "Palmer-Bowlus" is removed now. The error existed only with plics instruments with software version < 4.0.

**DTM Collection 07 / 2010**

Publication date 13.7.2010



The CD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.0
- VEGA DTM:	Version 1.63.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.39
- Generic HART DTM	Version 4.03
- Profibus Communication DTM	Version 2.10

**Note:**

In the download section of the VEGA homepage, you have the possibility to download individual software components available on the CD. If you want to use all functions of the *VEGA DTM Collection 07/2010*, keep in mind that you should have the actual version *PACTware™ 4.0* installed.

**In general**

- All VEGA DTMs on this CD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7. This applies also to the included PACTware 4.0
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification as well as the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with *PACTware™ 4.0* and adapted optimally to these frame applications.
- The availability of the .NET-Frameworks 2.0 is a requirement for the correct function of the new VEGA DTMs. The installation of the VEGA DTM is only possible if this requirement is fulfilled. All required software components will be installed automatically when installing via CD (Autorun).

## New functions

- **VEGAPULS Foundation Fieldbus (FF) DTM**  
The VEGAPULS instrument series (VEGAPULS 61 – 68) is now available in the plics®plus version for Foundation Fieldbus. The DTMs for the new functions were adapted accordingly. The DTMs support the parameter adjustment via the FF bus as well as the direct connection via the configuration interface on the instrument side via VEGACONNECT 4.
- **VEGAPULS SR 68 DTM**  
New are the VEGAPULS SR 68 DTMs. Supported is the communication via HART, Profibus and FF but also the direct connection via the configuration interface on the instrument side via I<sup>2</sup>C.
- **VEGAPULS WL 61 DTM**  
New are the VEGAPULS WL 61 DTMs. Supported is the communication via HART, Profibus and FF but also the direct connection via the configuration interface on the instrument side via I<sup>2</sup>C.
- **PLICSMOBILE DTM**  
Also new are the PLICSMOBILE DTMs for support of the communication components PLICSMOBILE and PLICSMOBILE T61.
- **PROTRAC DTM**  
Also new are the PROTRAC DTMs for support of the PROTRAC instrument series (MINITRAC, SOLITRAC and FIBERTRAC). The DTMs support the parameter adjustment via the HART bus but also the direct connection via the configuration interface on the instrument side via VEGACONNECT 4.
- **Project assistant**  
If the project assistant recognizes when checking the instrument topology that only one instrument is connected, then the corresponding DTM will be opened automatically after adding it to the project window.
- **VEGA DTM Configurator**  
The program group “VEGA DTM Tools“ was now completed by the VEGA DTM Configurator. The VEGA DTM Configurator offers the possibility to define different settings for the DTMs in respect to appearance and behaviour in a central position.
- **Sensor documentation**  
The sensor documentation of the plics®plus versions was extended by a category for the data of the integrated additional electronics (4-wire HART).
- **Electronics exchange**  
The electronics exchange assistant checks the compatibility of the sensor data (XML file) before downloading it into the electronics. There is a differentiation between three categories: Valid, warning, error. If the XML file contains deviating sensor data which are generally compatible with the electronics, only a warning appears, the user decides in this case if the data set should be nevertheless written into the electronics. However, if the XML file contains sensor data with incompatible deviations, then the electronics exchange assistant can only be interrupted.
- **Adjustment**  
In the parameter adjustment page “Adjustment“, the actual measured value of the sensor system is now displayed as a guide.

- **Linearization table**  
The context menu of the linearization table was extended by the function “Accept measured value”.
- **Download error**  
If the limit values are exceeded with one or several parameters when taking over device data, then a clear text message is outputted for the concerned parameters. The same parameter names are used which are also displayed in the DTM parameter pages. The download will be continued after confirming the message.
- **Interoperability**  
Due to conceptional features of some FDT frame applications, a possibility was created to present the VEGA DTMs for plics and plics@plus as separate DTMs in the device catalogue. This presentation form can be necessary in Fieldmate (Yokogawa) and Melody (ABB).

### **The following errors were removed**

- **Upgrade to full version**  
The upgrade of an existing “Standard version“ to a “Full version“ is now possible without a preceding deinstallation.
- **VEGAPULS DTM (plics@plus version)**
  - The application type (liquid/bulk solid) is now set correctly with an electronics exchange
  - During connection a WHG instrument is now recognized
  - The simulation of AI FBs for Profibus instruments is now possible
- **VEGABAR 55 HART DTM**  
Parameter page Display and Scaling are now displayed.
- **Service recording**  
The echo curve file was missing with the service recording. This error was removed.
- **Change address in instrument**  
Changing the instrument address is not permitted for users in the user roles “Operator“ and “Observer”.
- **Software update**  
For the instrument types VEGASON S61 and VEGASON S62, a software update was not possible. This error was removed.
- **Sensor documentation**  
After a data import coming from a DTM (version < 1.55.0.0), the calibration date is now displayed correctly.
- **VEGAFLEX 67**
  - In the echo curve indication the caption of the two measured value arrows was exchanged.
  - Level values could not be displayed in the indication of the DTM trend.

- 
- Import
    - VEGABAR  
When importing data coming from a DTM (version < 1.55.0.0), the adjustment values were not interpreted correctly when a unit of length was used as measured variable.
  - Simulation  
The program was interrupted when signs were entered with the simulation. The error was removed.
  - TankCalculation  
The graphic presentation of the vessel geometry functions now also correctly with modified measuring unit.

## Patch 1.63.1

Publication date 8.9.2010



The CD contains the following software components:

- Patch 1.63.1

version 1.63.1

### The following errors were removed

- plics@plus-sensors:  
Due to a malfunction in the WHG device checker functionality of the VEGA-DTM of version 1.63.0 (based on DTM Collection 07/2010), the download of changed parameters into the sensor is blocked.

This problem only refers to the plics@plus sensors with WHG approval.

There is no need to update the VEGA-DTM when operating other instrument types.





## DTM Collection 12 / 2010

Publication date 17.12.2010



The CD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.0
- VEGA-DTM:	Version 1.64.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.39
- Generic HART DTM	Version 4.03
- Profibus communication DTM	Version 2.10

### Note:

In the download section of the VEGA homepage, you have the possibility to download individual software components available on the CD. If you want to use all functions of the *VEGA DTM Collection 12/2010*, keep in mind that you should have the actual version *PACTware™ 4.0* installed.

### In general

- All VEGA DTMs on this CD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7. This applies also to the included PACTware 4.0
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification but also the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with *PACTware™ 4.0* and adapted in an optimum way to the frame applications.
- For a correct function of the new VEGA DTM, .NET-Frameworks 2.0 must be available. The installation of the VEGA DTM is only possible when this requirement is fulfilled. When installing via CD (Autorun), all required software components will be installed automatically.

## New functions

- **VEGAMET 391 SIL DTM**

The VEGAMET 391 is now also available as version “SIL classified” (SIL = safety integrity level). The VEGAMET 391 DTM was adapted respectively to the new version. Apart from the optical signaling of the instrument versions with SIL qualification, the DTM was equipped with an adjustment concept which is designed to the concerns of the parameterization of safety-relevant parameters. This includes the verification of safety-relevant parameters as well as the locking of the instrument.
- **POINTRAC DTM**

The instrument series PROTRAC was completed by type POINTRAC 31. A DTM to support this instrument type was added accordingly to the DTM Collection. The DTM supports the parameter adjustment via HART bus as well as the direct connection via a configuration interface on the instrument side through VEGACONNECT 4.
- **Communication DTMs**

The layout of the communication DTMs VEGA Ethernet and VEGA USB was adapted to the specifications of the DTM Style Guide 1.1.
- **PROTRAC DTM**
  - The import function was completely revised
  - The sensor documentation was completed by different information such as for example “Background radiation“
  - The linearization was revised
  - The diagnostics was completed by further information
  - The setup assistant was revised
- **VEGAPULS DTM**

The DTMs for the plics@plus instrument series were extended by the following functions:

  - Indication of the Device ID adjusted in the instrument
  - The import function can either be carried out with or without address information
  - The structure of the parameter tree in the navigation section of the DTM parameter window was revised
  - Special parameters were completed by the parameter “Overfill safety“
  - Indication of the echo curve offers extended presentation options
  - Measured value memory records now also the reliability
  - Diagnostics information was extended
  - Service recording includes now also the event memory and the parameter modification memory
  - Lock adjustment influences now also the import function
- **VEGA DTM Configurator**

The VEGA DTM Configurator was extended by an option to suppress the function “Load echo curve automatically during connection“. With this, the connection can be accelerated with connections with low transmission rate.

- WEB-VV event  
The assistant for creating a WEB-VV event allows now transmission intervals from 15 minutes.

#### **The following errors were removed**

- USB driver  
The USB driver is now also terminated with a forced termination of the PACTware instance. If this is not possible, a warning is displayed when starting PACTware for the next time.
- Interoperability  
Due to interoperability problems, the communication with HART field devices of Messrs. Krohne via a VEGAMET was not possible. The error was removed.
- Echo curve  
When showing the echo curves in “Standard resolution“, a compressed echo curve was sporadically shown. The error was removed.
- Multiviewer  
Generating a trend curve out of an existing echo recording is now also possible with VEGAFLEX 61 to 66.
- Project assistant
  - Execution of the project assistant with faded out PACTware project window caused a program crash.
  - Under certain conditions, the project assistant integrated the Generic Profibus DTM into the project for all Profibus sensors.
  - VEGABAR 74 HART was not found by the project assistant.
- VEGABAR  
With the Profibus versions of VEGABAR, the simulation of SV1 was not possible when the unit “m“ (metre) was used. The error was removed.
- PROTRAC  
The communication behaviour on the MGC was improved
- VEGAPULS  
The following errors were removed on the DTMs for the plics@plus instrument series:
  - Simulation of the current value when changing over the HART address from Multidrop to Standard functions now
  - The adjustment of the unit for the Secondary Value 2 was not possible with the FF version
  - Indication of the measured value as distance value in the navigation section of the DTM parameter window was not possible
  - Peak values for electronics temperature were not shown in the sensor documentation

## DTM Collection 06 / 2011

Publication date 22.6.2011



The CD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.0
- VEGA-DTM:	Version 1.65.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.39
- Generic HART DTM	Version 4.03
- Profibus communication DTM	Version 2.11

### Note:

In the download section of the VEGA homepage, you have the possibility to download individual software components available on the CD. If you want to use all functions of the *VEGA DTM Collection 06/2011*, keep in mind that you should have the actual version *PACTware™ 4.0* installed.

### In general

- All VEGA DTMs on this CD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7. This applies also to the included PACTware 4.0
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification but also the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with *PACTware™ 4.0* and adapted in an optimum way to the frame applications.
- For a correct function of the new VEGA DTM, .NET-Frameworks 2.0 must be available. The installation of the VEGA DTM is only possible when this requirement is fulfilled. When installing via CD (Autorun), all required software components will be installed automatically.

## New functions

- **Installation**  
Language selection for Autorun and VEGA DTM setup was extended by the language “Russian”.
- **WEIGHTRAC DTM**  
The instrument series PROTRAC was extended by the types WEIGHTRAC 31 and 32. The DTMs to support these instrument types were included in the DTM Collection. The DTMs support the parameter adjustment via the HART bus as well as the direct connection via the configuration interface on the instrument side via VEGACONNECT4.
- **PROTRAC – DTM**  
The following changes were carried out:
  - Software update was included
  - Application API temperature compensation was completed
  - Illustrations of different applications were revised
  - Parameter page “Real value correction“ was revised
- **VEGAPULS - DTM**  
The DTMs or the plics®plus instrument series were extended by the following functions:
  - The import function appears now with different options adapted especially to the most important applications
- **PLICSMOBILE – DTM**  
Function to change the instrument address of the connected sensor was included to set for example a HART sensor to multidrop mode.
- **WEB VV event**  
For the definition of the WEB VV event, further options are now possible:
  - The data transmission can now also be carried out in packed form (Service-login required)
  - The data transmission is now also possible when a predefined measured value change is exceeded
- **PACTware Advanced Scan**  
All VEGA DTMs for the plics as well as the plics®plus instrument series were extended by functions to support the PACTware Advanced Scan. In PACTware this function will be available from version 4.1.
- **Placeholder – DTM**  
Due to the request of supporting the FDT 1.2.1 Scan, the extension of the device catalogue by the so called Placeholder DTMs for HART, Profibus and FF is required. The mentioned DTMs are also used by the PACTware Advanced Scan.
- **Software update**  
Software update is now carried out via the assistant function. The ZIP files from the VEGA download section “Software” can now be used by the DTM before unpacking them first
- **HART parameter MESSAGE**  
All HART DTMs for the plics and plics®plus instrument series were extended by the possibility to enter the parameters ”MESSAGE“ or “LONGTAG“.

- Well and flow measurement  
The DTMs for the VEGAMET 391 and VEGAMET 624 instrument series had been extended in respect to the setup assistant.
    - A separate user guidance especially for the application of a well measurement was included
    - The setup of a flow measurement is now possible for any curve form by directly entering the flow formula
    - For the setup of a flow measurement for a Parshall flume of Messrs. "ISCO" only the flume type must be known, all other parameters are available in the DTM
- With the three stated extensions, the DTM parameter pages "Adjustment", "Scaling" and "Linearization" are automatically preset with the correct values.

### **The following errors were removed**

- TankCalculation  
With the calculation of the linearization curves for cylindrical tanks with different tops, faulty results were caused
- Instrument search  
The instrument search of the RS232 DTM finds now also PLICSMOBILE instruments
- Service recording  
The principle of operation of the service recording was changed so that it is ensured that all generated files will be updated when quitting the service recording
- Echo curve  
In some cases a displacement was caused with the indication of the measured value in the measured value window and the measured value at the echo arrow in the echo curve presentation. The two measured values will now be synchronized.
- Multiviewer  
The following errors were removed:
  - The presentation of the device trend files with a recording period of more than 24 days was not possible
  - Fuzzy texts when generating PDF files
  - Problem of the "Go to" function in generated trend data
- VEGAPULS DTM  
The following error of the plics@plus DTM was removed:
  - Echo curve in sensor documentation appears in "m" although "ft" is set
  - Software update interrupts from time to time with the message "No communication"
- PROTRAC DTM  
The following errors were removed:
  - Measurement of the background radiation or the pulse rate is not possible with instruments with software version 1.01.00
  - Problems with the presentation of the measured value memory (DTM), if measured values occur which are outside the indication range

## DTM Collection 12 / 2011

Publication date 20.12.2011



The CD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.1
- VEGA DTM:	Version 1.66.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.39
- Generic HART DTM	Version 4.03
- Profibus communication DTM	Version 2.11

### Note:

In the download section of the VEGA homepage, you have the possibility to download individual software components available on the CD. If you want to use all functions of the VEGA DTM Collection 12/2011, keep in mind that you should have the actual version PACTware™ 4.1 installed.

### In general

- All VEGA DTMs on this CD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7. This applies also to the included PACTware 4.1
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification but also the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with PACTware™ 4.1 and adapted in an optimum way to the frame applications.
- For a correct function of the new VEGA DTM, .NET-Frameworks 2.0 must be available. The installation of the VEGA DTM is only possible when this requirement is fulfilled. When installing via CD (Autorun), all required software components will be installed automatically.

## New functions

- **PACTware 4.1**  
PACTware was revised and is now shipped in the version 4.1. Apart from the improvements of the function "Diagnostic Scan" also the generic function for searching in devices networks will now also be implemented. The new function can be opened via "Topology Scan".
- **PROTRAC**  
All instrument types of the PROTRAC series can now also be ordered with an FF interface. Respective DTMs supporting this instrument types were added.
- **VEGAMET 391 SIL**  
For VEGAMET 391 with SIL qualification, the VEGAMET 391 SIL DTM has been enhanced. Apart from the special features of this instrument, the DTM contains also a method to support a safe parameterization concept according to SIL.
- **Modbus module serial**  
VEGA sensors of the plics@plus generation can be extended in future with a Modbus module (Gateway). This module allows the operation of the sensors in Modbus systems. For operation of the Modbus module, the new Modbus Module Serial DTM is now available.
- **PROTRAC DTM**  
The following novelties were carried out:
  - Application steam density compensation was completed
  - Function Import assistant was completed
  - Function Service recording was completed
- **Placeholder DTM**  
The Placeholder DTM is now used apart from the previous use for the FDT 1.2.1 Scan also for the treatment of a universal electronics (electronics exchange). If the project assistant finds a universal electronics when searching in the topology, i.e. an electronics which was not yet configured, then a Placeholder DTM is integrated in the project window. Furthermore the function Software update can be also opened directly from the Placeholder DTM.
- **VEGA DTM Configurator**  
The VEGA DTM Configurator was extended by a register card "Interoperability" for better adaptation of the VEGA DTMs to different DTM frame applications.



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### **The following errors were removed**

- **Decimal separator**  
The use of a decimal separator deviating from the operating system definition can cause a misinterpretation during the parameter acceptance. The entry fields accept only the respectively valid decimal separator.
- **VEGAMET 391**
  - **Setup assistant**  
The input of the sensor characteristics values for standard applications did not work correctly. The values are now taken over correctly.
  - **Relay**  
The pump monitoring can now also be set with the mode Pump monitoring
- **Service recording**  
During the service recording, an export file is now also stored for the sensors of the plics® generation
- **Event memory**  
The event memory of the sensors of the plics®plus generation could not be read out if the connection to the DTM was directly provided via the Foundation Fieldbus interface
- **Multiviewer**  
The following errors were removed:
- The presentation of the logarithmic echo curve recordings from DTM 1.60.0 is now carried out correctly

## DTM Collection 07 / 2012

Publication date 12.7.2012



The CD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.1 SP2
- VEGA DTM:	Version 1.67.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.44
- Generic HART DTM	Version 4.03
- Profibus communication DTM	Version 2.11

### Note:

In the download section of the VEGA homepage, you have the possibility to download individual software components available on the CD. If you want to use all functions of the VEGA DTM Collection 07/2012, keep in mind that you should have the actual version *PACTware™ 4.1 SP2* installed.

### In general

- All VEGA DTMs on this CD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7. This applies also to the included PACTware 4.1 SP2
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification but also the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with *PACTware™ 4.1 SP2* and adapted in an optimum way to the frame applications.
- For a correct function of the new VEGA DTM, .NET-Frameworks 2.0 must be available. The installation of the VEGA DTM is only possible when this requirement is fulfilled. When installing via CD (Autorun), all required software components will be installed automatically.
- Language extension  
The VEGA DTMs offer for the first time the user interface and the online help in Portuguese language.

## New functions

- **PACTware 4.1 SP2**  
PACTware was revised and is now available as a compact installation package. PACTware can now also be operated in Chinese language and the online help was translated accordingly. By using the extended call parameters, the DTMs can now also be started without PACTware surface.
- **VEGAFLEX 80 series DTM**  
The instrument series VEGAFLEX was completed by types VEGAFLEX 81, 82, 83 and 86. A respective DTM for support of these instrument types was added to the DTM Collection. The DTM supports the parameter adjustment via HART bus, but also the direct connection via configuration interface on the instrument side through VEGACONNECT 4.
- **PROTRAC DTM**  
All instrument types of the PROTRAC series can now be ordered with a Profibus interface. Respective DTMs supporting these instrument types were added.
- **PROTRAC SIL DTM**  
Respective SIL DTMs were added for PROTRAC instrument types with SIL qualification. Apart from the special features of these instruments, the DTMs contain also a method to support a safe parameterization concept according to SIL.
- **Modbus Serial DTM**  
For direct operation of the Modbus module via the Modbus, a communication DTM VEGA Modbus Serial was added.
- **VEGAMET 391 and VEGAMET 6xx DTM**
  - The pump control was extended by the option "Forced switching over".
  - The list of the scaling units was extended by the unit "mNN" and various density units
- **Non-synchronized operation**  
The DTMs for VEGAPULS 60 (plics@plus) and VEGAFLEX 80 can now also be adjusted for the so called "Non-synchronized operation". In this mode, the user is responsible for the data consistency between project and device data; the following simplified features are applicable:
  - During connection, only the identification data of the device are loaded
  - Further device data are loaded when opening a parameter adjustment page
  - Parameter changes in the **Parameter window Online** are not automatically stored in the project. The updating rate of measurement and diagnosis values can be adjusted via the VEGA DTM Configurator.
  - In the **Parameter window Offline** neither measured values nor diagnosis values are displayed

In this mode, the communication rate between computer and connected instrument can be reduced to a minimum, which is a particular advantage for connections with low band width (for example Wireless HART).

- **VEGA DTM Configurator**  
The VEGA DTM Configurator was extended by the tab "Synchronization". Here, the changeover between "synchronized" and "non-synchronized" operation can be carried out. The adaptations act only on the DTMs for VEGAPULS 60 (plics@plus) and VEGAFLEX 80.
- **Import/Export funktion**  
A respective warning is outputted when trying to export an incomplete data set out of a DTM. The import assistant informs also if a file should be imported with an incomplete data set. Incomplete data sets can be caused when working with DTMs in the "Non-synchronized" mode.
- **VEGA USB-Scan**  
For connection of the VEGA instrument via USB, a desktop link called **VEGA USB-Scan** is provided. With this call option, PACTware is opened with the automatic start of the VEGA project assistant. In doing so, a search via the USB interface is initiated, the suitable DTM is opened and the device data are loaded. In case, the computer can contact exactly one instrument, the adjustment elements of PACTware will be faded out.
- **Service recording**  
When executing a service recording with a VEGAPULS DTM, the laboratory parameters are now loaded automatically. These parameters can be taken over with a later import.
- **Proxy Server**  
The instrument types VEGAMET 624, 625 and 391 as well as VEGASCAN 693 and PLICSRADIO C62 can now be operated on a Proxy Server. The DTMs are extended accordingly by the parameter page **Proxy-Server**.

#### The following errors were removed

- **VEGASON S61 and S62**  
With the device search via the VEGA project assistant, now also the instrument types VEGASON S61 and S62 are found.
- **Linearization**  
With the Profibus and FF versions of the VEGAPULS DTMs, the indication of the scaled linearization values can be selected separately for each AI-FB.
- **Multiviewer**  
With echo curve recordings, now also the **Echo curve of the seup** can be displayed.
- **Echo curve indication**  
The presentation of the adjustment range in the echo curve indication was faulty, if the indication was carried out in the unit "ft".
- **PLICSMOBILE DTM**  
The function **Change DTM address** is now also available in the PLICSMOBILE DTM.
- **PROTRAC DTM**  
The presentation of the PD-TAG as well as the name of the channel in the parameter page **Info** were faulty.

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- VEGABAR DTM  
With the presentation of the peak values in the unit "bar", also the positions after the decimal point are now displayed.
  - Modbus Module Serial DTM  
The address for the Levelmaster can no be adjusted.
  - Import function (VEGAMET DTM)  
The import of data is now also possible in the standard version of the VEGAMET DTMs.
  - Language setting of the DTM tools  
The language changeover for the DTM-Configurator, DTM-Selector and Multiviewer depends now on the most recently used language setting in the VEGA DTM.

## VEGA-DTM 1.67.1

Publication date 31.07.2012



Includes several bug-fixes for VEGA-DTM version 1.67.0

The VEGA-DTM version 1.67.1 is provided as download version and it is included in the DVD "Software & Documents".

- VEGA-DTM version 1.67.1

### The following errors were removed

- VEGAFLEX 80 series HART  
Limit values for simulation of "Lin.percent, level" and "Dielectric constant" have been changed.
- VEGAPULS 61 up to 67  
In several applications, some parameters have been masked out by mistake.
- VEGAFLEX 80 series HART DTM and VEGAPULS 61 up to 67  
The supported units have been extended by: g, STon and LTon.
- VEGAMET (all), VEGASCAN 693, C62, PLICSMOBILE  
The adjustment of a minimum intervall for a WEB-VV event is now possible.
- PLICSMOBILE  
The adjustment for control of a WEB-VV event by the measured value difference is now also possible for the unit "Lin. percent".
- PROTRAC family  
The adjustment "Activate current output" is now also available for instruments with SIL.

## VEGA-DTM 1.67.2

Publication date 24.09.2012



Includes several bug-fixes for VEGA-DTM version 1.67.0 and 1.67.1

The VEGA-DTM version 1.67.2 is provided as download version, as CDs „VEGA DTM Collection 07/2012 including VEGA-DTM 1.67.2“ and as DVD „Software & Documents“ as well.

- VEGA-DTM version 1.67.2

### The following errors were removed

- VEGAFLEX and VEGAPULS - DTM:  
Problems with updating the false signal curve after modifications.
- VEGAFLEX and VEGAPULS - DTM:  
Modifications of the false signal suppression have been indicated as change of the parameterization.
- VEGAFLEX 80 series HART - DTM:  
There have been some curves missing in the echo recording of the service recording function.



The CD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.1 SP2
- VEGA DTM:	Version 1.68.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.44
- Generic HART DTM	Version 4.03
- Profibus communication DTM	Version 2.11

Note: In the download section of the VEGA homepage, you have the possibility to download individual software components available on the CD. If you want to use all functions of the VEGA DTM Collection 12/2012, keep in mind that you should have the actual version PACTware™ 4.1 SP2 installed.

### In general

- All VEGA DTMs on this CD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7. This applies also to the included 4.1 SP2
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification but also the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with PACTware™ 4.1 SP2 and adapted in an optimum way to the frame applications.
- For a correct function of the new VEGA DTM, .NET-Frameworks 2.0 must be available. The installation of the VEGA DTM is only possible when this requirement is fulfilled. When installing via CD (Autorun), all required software components will be installed automatically.
- Language extension  
The VEGA DTMs offer for the first time the user interface in Chinese language. The online help is not yet translated and appears in English language.



## New functions

- VEGAFLEX 80 DTM  
The instruments of the VEGAFLEX 80 family can be equipped in future also with an additional current output. The DTMs were prepared for operation with an additional current output.
- Diagnosis function  
The diagnosis function of the DTMs for all instruments of the plics@plus series (VEGAPULS and VEGAFLEX) will be only read out if a diagnosis page is actually opened. This measure is used to reduce the data volume during connection.
- PLICSMOBILE DTM  
In the diagnosis area, the IMEI number is now also displayed.
- VEGAMET 391 and VEGAMET 6xx DTM  
For the configuration of events (e-mail, SMS, WEB-VV) the adjustment values can now also be set **every 30 minutes** and **every 15 minutes**.
- VEGA DTM Configurator  
The category **Interoperability** was completed by an adjustment option to output shortened DTM descriptions. This option was provided for FDT frame applications of Messrs. ABB to get with OPC use short OPC items.
- Multiviewer  
The results of the function **Compare export files** can now also be printed directly.

## The following errors were removed

- Device search  
With the device search via the VEGA project assistant, now also the instrument types PLICSMOBILE are found.
- False signal suppression  
For the false signal suppression now also values can be entered which are higher than the probe length.
- Linearization table  
The column for indication of the scaled values can now be switched on optionally.
- Echo curve memory  
Reading out the echo curve memory of the VEGAPULS plics@plus and VEGAFLEX 80 sensors is now also possible with locked instrument.
- Echo curve  
The presentation option Echo data does now also function with the VEGAFLEX 80 DTMs.
- PROTRAC DTM
  - The presentation of the current characteristics in the image **Current output** was corrected
  - The instrument can no longer be locked when entering an invalid PIN

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- Event memory can now also read out with locked instrument
  - The info texts when carrying out the real value correction were corrected
  - Service recording  
When terminating the service recording via the DTM menu, the events and the instrument parameter adjustment are stored with the latest information.
  - Sensor documentation
    - Echo curve in the extended presentation range is now displayed
    - Echo curve is now displayed even if the option ***Do not load echo curve during connection*** is selected in the DTM Configurator.
  - PLICSMOBILE DTM  
When sending an e-mail, it is now also possible to transmit the device status as attachment.
  - Linearization  
Under certain conditions, linearization curves which were calculated with the calculation assistant could not be taken over into the instrument. The error was removed.



The CD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.1 SP3
- VEGA DTM:	Version 1.69.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.44
- Generic HART DTM	Version 4.03
- Profibus communication DTM	Version 2.11

Note: In the download section of the VEGA homepage, you have the possibility to download individual software components available on the CD. If you want to use all functions of the VEGA DTM Collection 05/2013, keep in mind that you should have the actual version PACTware™ 4.1 SP3 installed.

### In general

- All VEGA DTMs on this CD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7 as well as Windows 8. This applies also to the included 4.1 SP3
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification but also the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with PACTware™ 4.1 SP3 and adapted in an optimum way to the frame applications.
- For a correct function of the new VEGA DTM, .NET-Frameworks 2.0 must be available. The installation of the VEGA DTM is only possible when this requirement is fulfilled. When installing via CD (Autorun), all required software components will be installed automatically.

## New functions

- From this version, the following instruments/interface are supported in addition:
  - VEGAFLEX 80 series HART SIL DTM  
for VEGAFLEX 81, 82, 83, 86 HART SIL
  - VEGAFLEX 80 series Profibus DTM  
for VEGAFLEX 81, 82, 83, 86 Profibus
- Linearization assistant  
The DTMs for adjustment of the VEGAFLEX 80 family were extended by an assistant for implementation of a linearization of the measured values. The linearization assistant supports the handling of different standard tasks whereby the use of the assistant assures that also the settings of the adjustment, scaling, vessel height and socket correction fit with the adjusted linearization curve.
- Service recording  
All DTMs for adjustment of plics@plus sensors were equipped with an improved function for creating service recordings. The adjustment of this functions is made directly via the toolbar symbols of the DTM. Hence files with echo curves, measured value recordings and event memory as well as a DTM data file are generated. When terminating the function, the files will be packed as a ZIP file and stored on the data carrier of the workstation. In future, storing of echo curve recordings on the data carrier of the workstation will only be possible with the service recording.
- Echo curve presentation  
The function of the parameter page "Echo curves" was revised. In future, reading out of the echo curves is carried out directly after opening the page "Echo curve" (no action required). When quitting this page, reading out will be terminated. The echo curves cannot be stored in this mode. For the selection of the visualized curves under presentation option, lateral adjustment panels are now available.
- Sensor documentation  
When using a "User-programmable linearization curve", the sensor documentation includes now also information on the selected vessel geometry.
- Diagnosis information  
With the DTMs for VEGAMET and VEGASCAN the diagnosis information appear now more differentiated depending if the diagnosis comes directly from the connected sensor or from the VEGAMET.
- Language selection  
The VEGACAL DTMs offer now also the changeover to the PLICSCOM languages Japanese and Chinese.  
The PROTRAC DTMs were extended for the selection of the PLICSCOM language Portuguese.
- Electronics exchange for PROTRAC series  
The DTMs for the adjustment of the PROTRAC series support now also the electronics exchange.

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**The following errors were removed**

- Software update  
In some DTM languages the progress indication was only displayed in hours.
- VEGAFLEX 80 DTM
  - The limit value for the "Sounded distance to the medium" with the false signal suppression is no longer limited to the actual probe length.
  - The presentation of the echo curve in the sensor documentation was optimized.
- Quick setup of the VEGAFLEX 80 DTM
  - When creating the device documentation the corresponding echo curve now also appears.
  - The value for the measured distance in the sensor optimization is now updated cyclically.
  - After determination of the probe length, a download of the determined value is now carried out automatically.
- Tank Calculation  
A text is displayed if the program is quit without storing the data.

**DTM Collection 10 / 2013**

Publication date 10.10.2013



The DVD contains the following software components:

- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.1 SP3
- VEGA DTM:	Version 1.69.3
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.44
- Generic HART DTM	Version 4.03
- Profibus communication DTM	Version 2.11

Note: In the download section of the VEGA homepage, you have the possibility to download individual software components available on the DVD. If you want to use all functions of the VEGA DTM Collection 10/2013, keep in mind that you should have the actual version PACTware™ 4.1 SP3 installed.

**In general**

- All VEGA DTMs on this DVD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7 as well as Windows 8. This applies also to the included 4.1 SP3
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification but also the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with PACTware™ 4.1 SP3 and adapted in an optimum way to the frame applications.
- For a correct function of the new VEGA DTM, .NET-Frameworks 2.0 must be available. The installation of the VEGA DTM is only possible when this requirement is fulfilled. When installing via DVD (Autorun), all required software components will be installed automatically.

## **New functions**

- From this version, the following instruments/interface are supported in addition:
  - VEGAFLEX 80 series FF - DTM  
for VEGAFLEX 81, 82, 83, 86 Foundation Fieldbus

Electronics exchange for PROTRAC series

The DTMs for the adjustment of the PROTRAC series support now also the electronics exchange for Profibus and Foundation Fieldbus instruments.

## DTM Collection 01 / 2014

Publication date 7.1.2014



The DVD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.1 SP3
- VEGA DTM:	Version 1.70.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.44
- Generic HART DTM	Version 4.03
- Profibus communication DTM	Version 2.11

Note: In the download section of the VEGA homepage, you have the possibility to download individual software components available on the DVD. If you want to use all functions of the VEGA DTM Collection 01/2014, keep in mind that you should have the actual version PACTware™ 4.1 SP3 installed.

### In general

- All VEGA DTMs on this DVD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7 as well as Windows 8. This applies also to the included 4.1 SP3
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification but also the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with PACTware™ 4.1 SP3 and adapted in an optimum way to the frame applications.
- For a correct function of the new VEGA DTM, .NET-Frameworks 2.0 must be available. The installation of the VEGA DTM is only possible when this requirement is fulfilled. When installing via DVD (Autorun), all required software components will be installed automatically.



## New functions

- From this version, the following instruments/interface are supported in addition:
  - VEGABAR series 80 DTM  
for VEGABAR 81, 82, 83, 86, 87
  - VEGABAR series 80 HART DTM  
for VEGABAR 81, 82, 83, 86, 87 HART
  
- Sensor documentation  
When using a "User-programmable linearization curve", the sensor documentation of the VEGAFLEX 80 and VEGABAR 80 series includes now also graphic information of the selected vessel geometry as well as the linearization table of the adjusted range.
  
- Electronics exchange  
The electronics exchange supports now also the instrument series VEGAFLEX 80 Profibus and VEGAFLEX 80 FF.
  
- Linearization assistant  
Different optimizations in the calculation assistant for instrument series VEGAFLEX 80 and VEGABAR 80.
  
- Adjust device address  
The dialogues to adjust the device address support now also the extended address range for HART7 instruments

## The following errors were removed

- VEGAFLEX 80 DTM
  - The input of the measured value difference in mm as recording option for the echo curve memory was not interpreted correctly.
  - The function "Electronics exchange" offers now also the activation of the second current output
  - Error while calculating the linearization table of the adjusted range (with probe length << vessel height) was removed
  - Indication of the wrong unit for PV Scale in °F (with Profibus) was corrected

### Synchronisation with Foundation Fieldbus

The synchronisation of the parameter pages for indication of AI-FBs with instruments for operation on Foundation Fieldbus failed in some cases.

## VEGA DTM 1.70.2

Publication date 13.02.2014



Contains fault rectifications to VEGA DTM version 1.70.0

The VEGA-DTM version 1.70.2 is available as patch version in the download section

- VEGA DTM                      Version 1.70.2

### The following errors were removed

- PROTRAC DTMs:  
Recording of measured value curves via the function measured value (DTM) functions now again
- DTM Selector:  
The error message while deselecting the DTMs for adjustment of series 40/50 does no longer appear.
- Installation:  
The installation problem on computers where "My documents" are linked to a server path does no longer exist.

**DTM Collection 05 / 2014**

Publication date 2.5.2014



The DVD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.1 SP3
- VEGA DTM:	Version 1.71.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.44
- Generic HART DTM	Version 4.03
- Profibus communication DTM	Version 2.11

Note: In the download section of the VEGA homepage, you have the possibility to download individual software components available on the DVD. If you want to use all functions of the VEGA DTM Collection 05/2014, keep in mind that you should have the actual version PACTware™ 4.1 SP3 installed.

**In general**

- All VEGA DTMs on this DVD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7 as well as Windows 8. This applies also to the included 4.1 SP3
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification but also the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with PACTware™ 4.1 SP3 and adapted in an optimum way to the frame applications.
- For a correct function of the new VEGA DTM, .NET-Frameworks 2.0 must be available. The installation of the VEGA DTM is only possible when this requirement is fulfilled. When installing via DVD (Autorun), all required software components will be installed automatically.

## New functions

- From this version, the following instruments/interface are supported in addition:
  - VEGABAR 80 series Profibus – DTM  
for VEGABAR 81, 82, 83, 86, 87 with Profibus interface
  - VEGABAR 80 series HART SIL – DTM  
for VEGABAR 81, 82, 83, 86, 87 with HART interface and SIL qualification
  - VEGADIS 82 – DTM  
for VEGADIS 82

- PROTRAC DTM

The following function extensions were carried out for the PROTRAC DTMs:

- Loading and showing the event memory integrated in the instrument, the parameter modification memory as well as the measured value memory.
- The selection of the units was extended by PPA and KgA
- The real value correction can now also be carried out cyclically
- The mass flow measurement can now also be combined with the moisture measurement

The functions are only offered in the DTM if they are supported by the instrument software.

- The setup assistant was particularly optimized and extended to establish applications with combined instruments.
- The DTMs offer now also the function "Service recording"
- In the diagnosis section, there are also information available of the inputs to be configured

- VEGAMET DTM

The DTMs for VEGAMET/VEGASCAN support now also the establishment of the encrypted e-mail transmission. The function is only offered in the DTM if it is supported by the instrument software.

- DTM Configurator

The DTM Configurator offers now a possibility to increase the max. telegram length for HART connections. Hence the data throughput with many HART networks can be improved considerably.

- Lock adjustment

The procedure to lock the adjustment by means of DTM was changes. The definition of a new PIN is now carried out in the assistant "Lock adjustment"

- **Service recording**  
The service recording is only finished completely if it is finished with the toolbar symbol "Finish service recording". If the DTM is closed during the service recording, then the immediate closing of the DTM has priority.
- **Language selection**  
The VEGABAR 80 DTMs offer now also the changeover to the PLICSCOM language Czech.
- **Linearization assistant**  
The linearization assistant checks now if the storing of modified parameters into the instrument is necessary before the linearization is carried out.

#### **The following errors were removed**

- **Sensor documentation**  
Formatting problems of the sensor documentation occurred under Windows 8 and different Windows 7 versions in the Asian region, were removed now.
- **Multiviewer**  
The multiviewer now displays the TND recordings correctly if they were generated with DTM versions earlier than version 1.51.
- **Change device address**  
The error when changing the instrument address of Profibus sensors of instrument generation plics® no longer exists. The error only occurred when the modification was triggered via the option dialogue of the instrument DTMs.
- **Online help**  
The contents of some online help pages (e.g. measured value memory and echo curve memory) must be updated.
- **Adjustment or import with VEGABAR 80**  
In some cases, the limit value determination with application "Process pressure" did not work correctly, therefore the adjustment could not be written into the instrument.

**DTM Collection 10 / 2014**

Publication date 8.10.2014



The DVD contains the following software components:

- Microsoft .NET Framework	Version 1.1
- Microsoft .NET Framework	Version 1.1 SP1
- Microsoft .NET Framework	Version 2.0
- PACTware™	Version 4.1 SP3
- VEGA DTM:	Version 1.72.0
- VEGADIF 55 DTM:	Version 1.4.129
- HART Communication DTM	Version 1.0.44
- Generic HART DTM	Version 4.03
- Profibus communication DTM	Version 2.11

Note: In the download section of the VEGA homepage, you have the possibility to download individual software components available on the DVD. If you want to use all functions of the VEGA DTM Collection 10/2014, keep in mind that you should have the actual version PACTware™ 4.1 SP3 installed.

**In general**

- All VEGA DTMs on this DVD are tested and released for operation under Microsoft® Windows XP, Vista and Windows 7 as well as Windows 8. This applies also to the included 4.1 SP3
- FDT conformity  
The VEGA DTMs were developed according to the latest requirements of the FDT Group. They meet the requirements of the FDT 1.2.1 specification but also the requirements of the DTM Style Guide 1.1.
- The VEGA DTMs were tested together with PACTware™ 4.1 SP3 and adapted in an optimum way to the frame applications.
- For a correct function of the new VEGA DTM, .NET-Frameworks 2.0 must be available. The installation of the VEGA DTM is only possible when this requirement is fulfilled. When installing via DVD (Autorun), attempts are made to install all required software components automatically. With some Windows 8 environments however additional interventions by the administrator are required (see ReleaseNotes in the directory VEGA DTM of the DVD).

## New functions

- From this version, the following instruments/interface are supported in addition:
  - VEGABAR 80 series FF DTM  
for VEGABAR 81, 82, 83, 86, 87 with Foundation Fieldbus interface
  - VEGAPULS 69 HART DTM  
for VEGAPULS 69 with HART interface
- DTM for signal conditioning instruments
  - Transmission of location data  
The DTMs for VEGAMET/VEGASCAN and PLICSMOBILE support now the function to establish the transmission of location data to the measured value server WEB VV and similar systems.
  - Density measurement  
Establishing a density measurement in VEGAMET 625 is now considerably simplified by a special option in the application assistant.
  - Measurement loops with HART variables  
In the instrument types VEGAMET and VEGASCAN now also the standard HART variables of plics@plus sensors can be used for the measurement loops. The DTMs were extended for establishing these variables.
- Operation of HART sensors  
For the operation of plics@plus VEGA sensors with HART communication, the communication behaviour was optimized so that the connection and the data exchange are now faster.
  - The standard length for HART telegrams was increased.
  - During connection, only data are loaded which are required for the direct parameterization. Echo curves, false signal memory etc. can be loaded later on, if necessary.
- Linearization assistant  
The linearization option "Gauging by litres" allows now also the manual setting for index markers of the linearization curve.

## The following errors were removed

- Service recording  
The ZIP files of the service recording use now a better level of compression.
- VEGADIS 82 DTM  
The contents of the parameter page "Diagnosis" are now also shown in the device documentation.
- Modbus  
The range of the selection of the COM port in the DTM "Modbus Serial Driver" was extended. Now ports in the range 1 to 255 can be selected.

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- **Establishing a density measurement**  
By establishing density measurements for PROTRAC sensors in combination with an automatic real value correction, problems for the pulse rate determination of the background radiation could occur. The error in the DTM was removed.
  - **Event memory**  
When showing a PIN change in the event memory, the selected PIN is no longer displayed.
  - **Non-synchronized mode**  
The settings for the measured value memory can now also be changed in the "non-synchronized mode".
  - **VEGABAR 80 DTM**
    - The error in the assistant for setting the "Measured value memory (device)" when selecting FBs was removed (only Profibus).
    - When using the linearization assistant, now also linearized values are selected (only Profibus) in the FB channel.
    - **Density measurement**  
In the quick setup, the distance of the sensors was not taken over with application type "Density measurement". The distance value is now taken over.