

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 ² 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.

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).

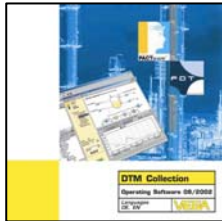
- Also VEGALOG EV and EP DTM offer the function 'Instrument search'. It is now possible to search connected sensors and to generate the project tree automatically (based on a project of VEGA RS232 or VEGA Ethernet with VEGALOG 571 DTM and one or several VEGALOG EV or EP DTMs).
- The presentation and 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

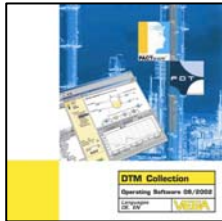
- The following interfaces/instruments are additionally supported:

- 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 I²C.
- 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.

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.

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 (I²C) 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 (I²C) 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 (I²C) 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 I²C 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 (I²C 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.

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 (I²C) 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 (I²C) on the instrument side are supported.
- A DTM for VEGASCAN 693 is also included. Configuration is made via VEGACONNECT (I²C 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.

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.

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 (I²C) 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 I²C 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 I²C 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 inH₂O).
- 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 I²C 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 I²C.
- **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.

The following errors had been removed

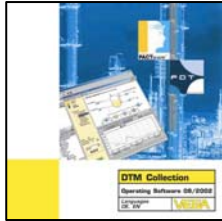
- VEGAPULS DTM
The input of the tube inner diameter in feet is possible now.
- Import function
Import of special parameters is now possible.
- Software update
The DTMs of the instrument families VEGASON, VEGAPULS, VEGAFLEX, VEGABAR and VEGACAL enable now the cancellation of a software update.
- VEGA 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 I²C 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 I²C 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.

DTM Collection 01 / 2007 (2)

Publication date 22.3.2007

General

The software component "VEGA DTM Collection: DTMplics 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 I²C.
- **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

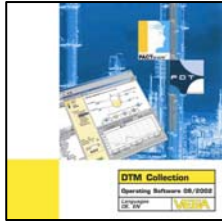
- Editing of the application type "Pressurized vessel" (only VEGAMET 625)
- Indication of a HART communication statistics to judge the communication quality.

The following errors had been removed

- 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 overflow protection (WHG)
The signal conditioning instruments VEGAMET 624 and VEGAMET 625 with Firmwareversion >1.90 are in conformity with the approval principles for overflow protections (ZGÜS) and can basically be used as part of an overflow 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.