

Configure
automation better
with PACTware





PACTware Consortium e.V.
Panoramastraße 16
76327 Pfinztal
Germany

T +49 7240 943 09-61
F +49 7240 943 09-63
info@pactware.com
www.pactware.com

Contents

Overview	4
FDT and DTM Technology	6
Configuration	8
Functions	10
PACTware-DC	12
Future-proof automation	13
Download	14
PACTware members	15

PACTware – the adjustment software for all field instruments and protocols



A tool with great user benefits

PACTware brings together companies with a wide range of competencies. Designed as a manufacturer and fieldbus independent solution, the software forms the framework for standardized device configuration in the area of automation. It serves the entire range of existing field instruments, and that via any communication channel.

With PACTware, all instruments in a system or entire plant can be configured, operated and diagnosed. Free of charge for users, the software has become the most widely used FDT frame application. PACTware is extremely flexible under a wide variety of operating conditions; whether deployed at an engineering station or directly on site: PACTware performs reliable work from any location.

Why PACTware?

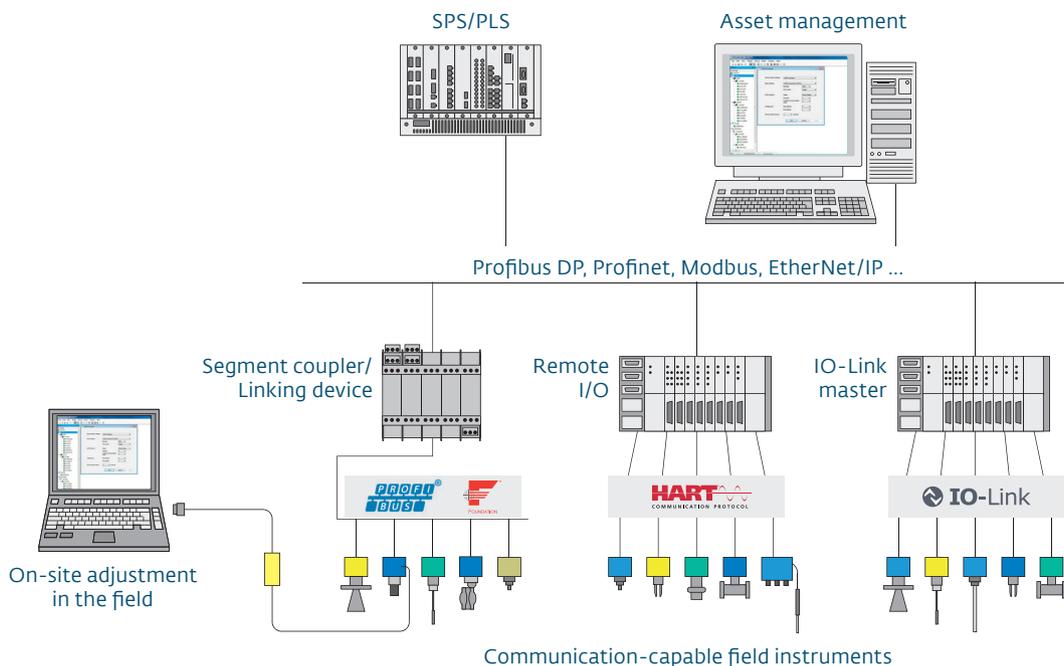
Quick adaptation to any measuring task

When the user interface of PACTware was being designed, the focus was on clarity and intuitive, user-friendly operation. The overall view of a system or plant can be quickly adapted to the individual measuring points, making them easy to recognize and understandable. PACTware accompanies the user step-by-step through the configuration of instruments: no matter whether they draw on internal presettings or require customized solutions based on special parameters.

Compatible with all communication protocols

PACTware supports all current communication protocols – regardless of device type or function. Thanks to its manufacturer-independent, standardized interfaces and exchange formats as well as modular structure, PACTware integrates well into all areas of a heterogeneous system landscape.

This is made possible by the globally established standards FDT (Field Device Tool) and DTM (Device Type Manager). FDT ensures standardized data exchange between instruments and PACTware, while DTMs make certain that all field instruments are adjusted according to standard procedures.



FDT + DTM: The technology behind PACTware



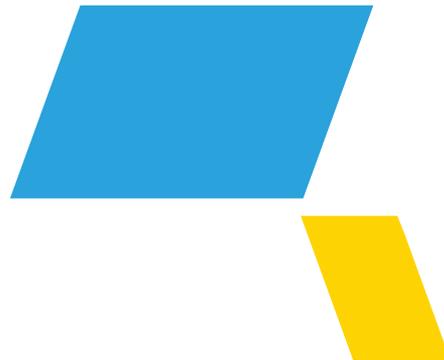
Field Device Tool (FDT)

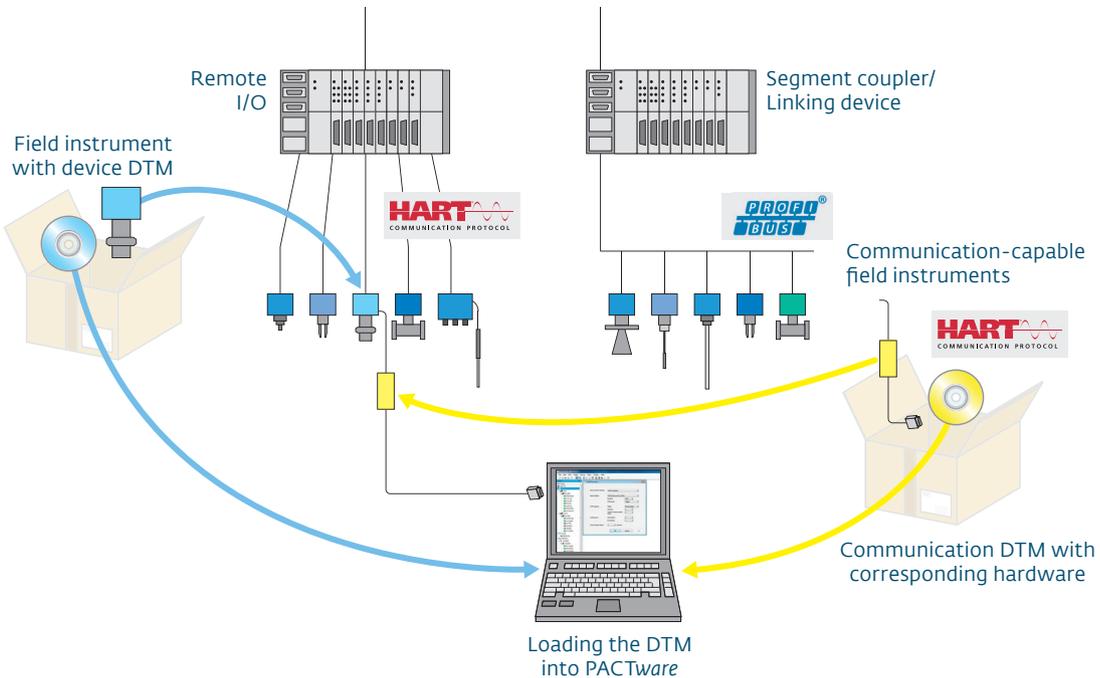
FDT is the interface definition between field instrument, DTM and PACTware. It defines the data exchange between components independently of the type of fieldbus communication. This allows the FDT interface to carry out data exchange uniformly, even taking fieldbus or instrument specific features into account.

Device Type Manager (DTM)

Just like printer drivers in the office world, the separate drivers of field devices, the DTMs, guarantee good communication between the system level and field devices in the FDT world. The DTM combines all functions and data of a device. And it works for a single field instrument, an interface module or an entire instrument family.

Two who understand each other well:
Equipped with FDT, the field instrument
can speak the system-level language
via its own specific DTM.





PACTware – simple and efficient configuration

For all field instruments, for all protocols: PACTware uses a standardized adjustment and interface concept.

Optimal adjustment, minimal effort

Unlike simple device descriptions, DTMs also offer extended functions for display and user guidance. Thanks to its standardized technological basis, the PACTware adjustment concept works well for all the very different field components from different manufacturers, and always presents a recognizable interface to the user. This minimizes the workload, lends certainty to the application and at the same time reduces the amount of training required.

Clarity saves time

The first thing PACTware does is combine all the device drivers of a system or plant, including the communication drivers, into one project. The DTMs are selected from the device catalogue and inserted into the project. This small amount of effort creates clarity and, thanks to the resulting improved workflow, also saves time:

- when adjusting the configuration
- when changing individual parameters (also at a later time)
- when simulating functions
- when making detailed diagnoses
- when creating documentation

Well-established technology

PACTware has been proving its worth as a stand-alone tool for configuring and diagnosing field devices and interface modules since 2001, the year the consortium behind it was founded. Manufacturer-independent collaboration has led to the creation of a high-quality product and contributed to the resulting broad acceptance by users. A large number of tools are available for creating DTMs: be it through modular building block systems or through automatic conversion from simple device descriptions or more complex FDI packages.



Advantages of PACTware

- simplifies instrument configuration and diagnostics through standard technologies
- supports the full functionality of all instruments
- fieldbus-independent, open to new standards and thus future-proof
- runs on any Windows PC or tablet
- free of charge and available for download from many instrument manufacturers



PACTware – function overview

Configure

With PACTware, the system structure of a project can be easily modelled, as a whole or in part, on a PC. Application-specific views can be generated and the individual instruments easily configured. An online connection is not necessary for this.

Parameterize

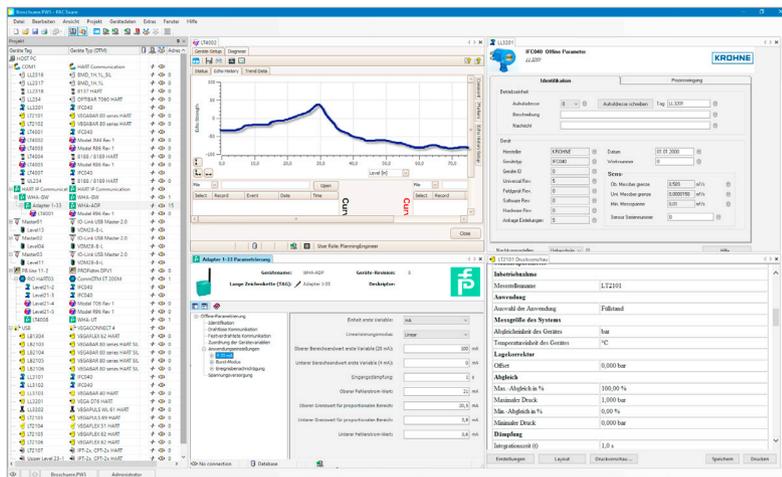
Settings in field instruments and interface modules can be made or changed via point-to-point communication as well as via bus systems. The intuitive user interface makes it possible to read out all device information quickly and write data and changed settings into the device with absolute reliability.

Simulate

During commissioning, the signal flow in an application can be tested by simulating a specific process value. This allows signals to be tracked and analysed across different measuring points and any errors to be detected and rectified at an early stage.

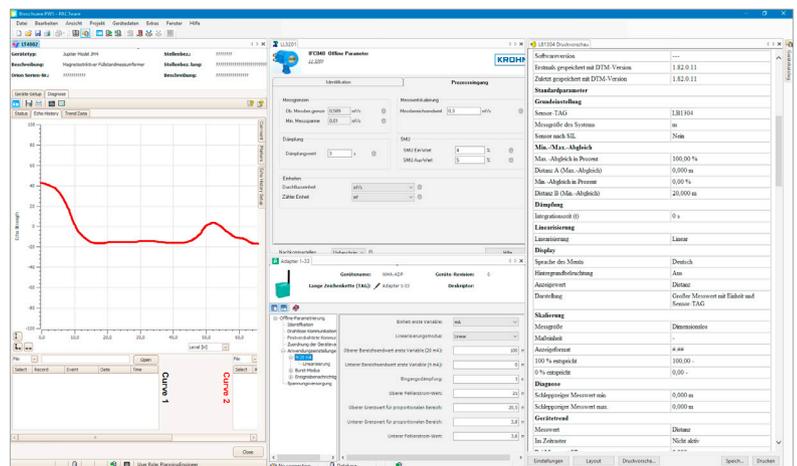
Analyse

The "Diagnostic Scan" function saves and updates the status of all devices combined in a PACTware project. In addition, measured values can be recorded without limit, viewed over longer time periods and evaluated.



Document

Project structures and settings can be conveniently saved and printed out with PACTware. Moreover, important information such as the instrument description, manufacturer identification, serial number and firmware version in the DTM are also available for documentation.



PACTware DC revolutionizes point-to-point connection

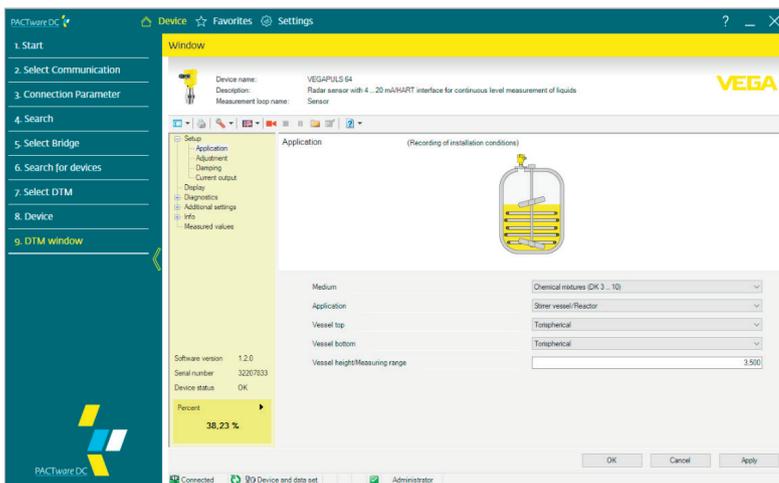
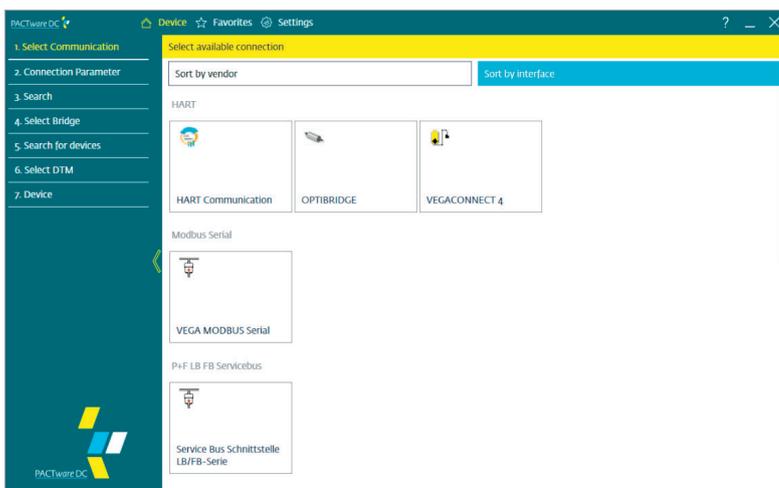
Whether the task involves fast, on-site parameterization or direct diagnosis of individual devices in a complex system structure, point-to-point connection is the easiest way to do it. Being able to work quickly and intuitively via “touch” saves time and money in servicing. PACTware DC teases out maximum efficiency from point-to-point connections with minimum effort. “DC” stands for a special version that makes direct control of devices much easier.

Automatically ready for use

After selecting the primary communication interface on the control unit or adjustment device, the connection to the field instrument can be established directly and without further configuration. PACTware DC automatically finds the appropriate communication and instrument DTM on the adjustment device and establishes the online connection to the instrument. The field instrument is then automatically ready for immediate parameterization or diagnosis.

Quickly copied instead of newly created

For repetitive system structures, PACTware DC offers the option of saving the structure and the steps necessary for establishing a connection as a “favourite”. When setting up a new application later, a favourite can be called up with just one mouse click, bringing the field instrument immediately online.



PACTware – future-proof automation

PACTware Consortium e. V.

PACTware Consortium e.V. bundles the interests of many companies and drives the concept, as well as the product, forward. This is achieved through active participation in the FDT specification, the integration of additional communication systems, and internationalization. The association coordinates and watches over innovations and enhancements, for example by enforcing strict quality controls and making sure that only mature, industry-proven software is introduced to the market. The result of the consortium's work is a reliable, manufacturer-independent adjustment software for automation – in use now for more than two decades and always up to date.

High software quality

PACTware is available to all full members of the PACTware Consortium as completely transparent source code (Open Source). This makes it easy to locate and fix bugs, and avoid dependencies on individual companies. What is more, the standard software modules initiated by the FDT Group, the so-called "common components", guarantee the best possible basic technology – always up to date.

Equipped for the future

Thanks to its modular design, PACTware not only incorporates all current fieldbus standards but is also open to future ones. Additional functions can be flexibly added via special interfaces, making them available to all DTMs. Such "add-ins" allow progress checks such as "audit trails" or "trending" as well as cloud connection across multiple devices.



High product quality
through open collaboration
and high standards



PACTware – get started right away

Where can I get PACTware?

The PACTware member companies (e.g. instrument manufacturers) provide PACTware as a download with the appropriate DTMs for their instruments. This is ideal for users. Because, whether it's a field instrument, a matching driver (DTM) or the higher-level adjustment software PACTware you need: you can always turn to the same contact person. Service and support also come from the same source – the instrument manufacturer.

Adjustment of HART instruments included

Every PACTware installation allows adjustment of all HART instruments. Setup includes a communication driver for commonly used HART modems as well as a generic HART device DTM.



PACTware members

		
		
		
		
		
		
		
		<p>A current overview of members and their websites can be found at: www.pactware.com</p>



PACTware Consortium e.V.
Panoramastraße 16
76327 Pfinztal
Germany

T +49 7240 943 09-61
F +49 7240 943 09-63
info@pactware.com

www.pactware.com