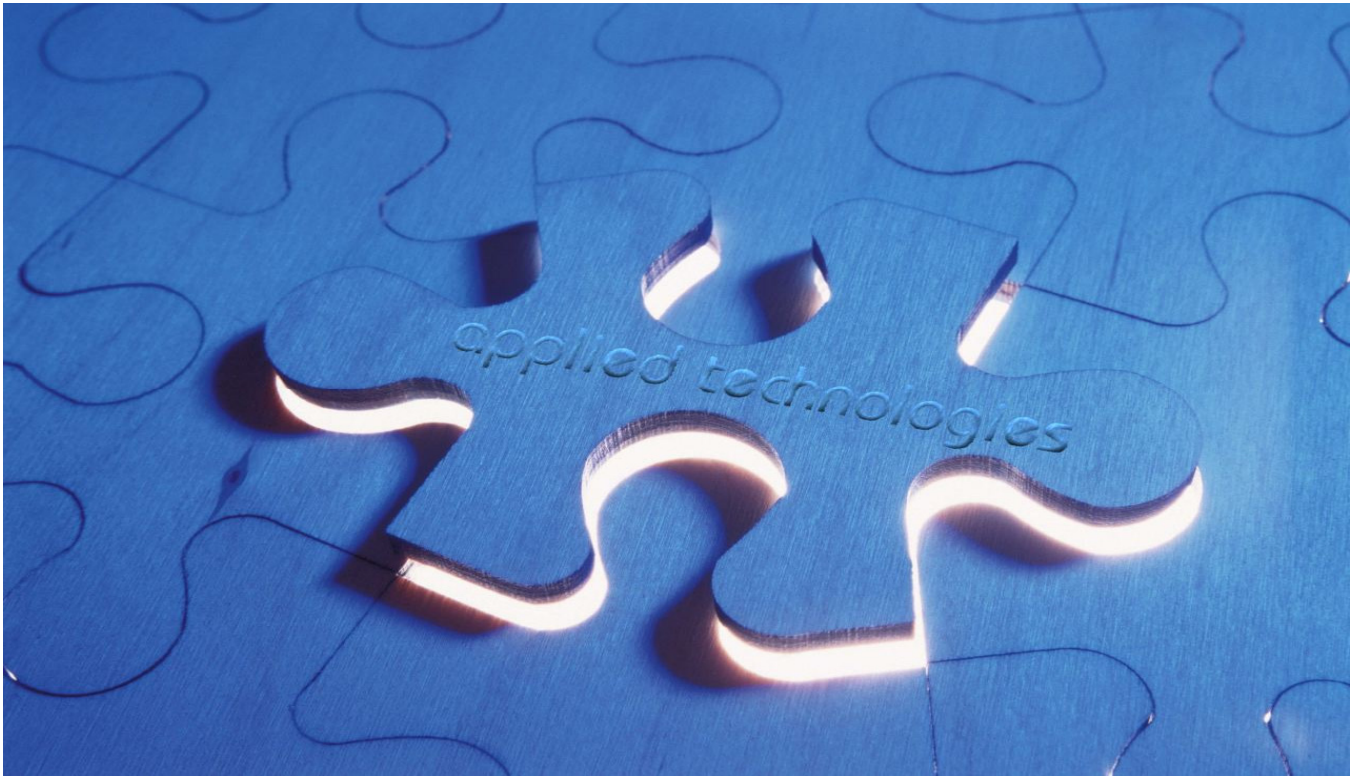


## SOLUTIONS THAT WORK



applied technologies GmbH is a modern IT service and systems provider in Essen. This modern software company has placed its main emphasis since 2001 on two areas.

- Under "Solutions For Gas" applied technologies is able to provide more than fifteen years experience in IT projects for gas supply companies. applied technologies has set itself the goal to develop high quality solutions for the liberalised energy market.
- In the area "Professional Services" applied technologies offers its customers a wide range of knowledge in software engineering (development processes, requirements engineering, change management, object oriented software development, component technology etc.) in the form of consultant services.

Due to their activities in the gas business (the staff at applied technologies has been involved in various project areas with different aims such as: process data and business data communication, trade, transport and energy billing, balance zone management, contract management, online booking systems for transport capacity, nomination management, information portals, gas quality reconstruction, measurement acquisition using DSfG and measurement and control systems, auditing etc.

applied technologies goal in all of these areas is to develop software solutions with a high degree of quality, stability and above all reliability.

In a nutshell: "Solutions that work."

Microsoft Certified Partners are independent companies who offer their customers state of the art technology in the form of development, consulting, training, installation, service, support etc.



applied technologies has been a member of the EDNA-Initiative since October 2004.



applied technologies has also published articles in various journals covering:

- Software Requirements
- Change Management Processes
- Quality Management
- Test Driven Development
- Microsoft BizTalk Server
- Web-Technologies

## SOLUTIONS THAT WORK

applied technologies develops high quality standard software, that complies with the requirements set by the liberalised gas market.

Furthermore applied technologies provides its customers with turn-key systems and competent support in various areas within the gas industry and so helps connect business processes using modern, future oriented software techniques and information technology.

### COMMUNICATION - APPTech COMMUNICATOR

The apptech Communicator is the only communication solution in the gas industry for EAI und EDI that is based on an industry standard. The Microsoft BizTalk Server is in use the world over in more than 6.000 installations in different scenarios and sizes. The extension of this system with components specific to the gas industry for exchanging messages using:

- EDIG@S
- TASE.2
- OPC
- XML, GAS-XML
- KISS-GAS
- FTP / SFTP
- OFTP
- Web Services
- AS2
- E-Mail

have made the system into an efficient communication server. The same system is suitable for traders, transport companies and distributors alike.

The apptech Communicator is already being used by several market player both in Germany and abroad as their communication solution.

### GASDATAHUB

#### COMMUNIKATION AS A SERVICE

Messages can be sent or received using EDIG@S, KISS-GAS or GAS-XML without the need for any capital expenditure. The GasDataHub transforms the messages from one format into the target format for each individual communication partner and sends the message (digitally signed if required and with or without encoding) via SMTP, ISDN-FTP or AS/2. applied technologies ensures that the newest message type versions are made available.

The GasDataHub is of particular interest for Online-Flow-Control (OFC) via TASE.2. Companies without their own connection to the Extranet-Gas can send their OFC-data in CSV or XML format to the GasDataHub. Online data can also be directly received from Görlitz Skalar or Veraut Veribox systems. The data is collected at the GasDataHub, aggregated if necessary and made available to the vorgelegerten network operator via TASE.2.

EnWG - (Energiewirtschaftsgesetz) Energy Industry Act  
GasNZV - (Gasnetzzugangsverordnung) Regulation governing access to gas networks  
PTB - (Physikalisch-Technischen Bundesanstalt) Federal Institute for Metrology

## ONLINE CAPACITY BOOKING

The Online Booking System enables a discrimination free booking of transport capacities in real time. Transport fees can be calculated quickly and easily. If the requested capacity is not available the system offers alternatives automatically .

### WEB-PORTALS

applied technologies offers tailored solutions for the provision of process data and billing information for customers according to the GasNZV (Regulation governing access to gas networks).

The individual functions can be extended using a building block system. In combination with Microsoft BizTalk Server additional functions such as web nomination or reporting can be easily and effectively integrated

### REKONSTRUKTION OF GAS QUALITY

The introduction of the Entry-Exit-Model and further innovations in the EnWG and GasNZV, e.g. the use of Biogas, have placed a far greater emphasis on the role of gas quality determination.

apptech REKO, a solution for the reconstruction of gas qualities, provides a universal framework which enables the integration of various simulation kernels such as LIWA-COM SIMONE or PSIGanproda.

The Physikalisch-Technischen Bundesanstalt was consulted during the development of the application.

### BILLING FOR TRANSPORT AND TRADE

The applied technologies billing system VMA.NET was developed in cooperation with the Gas-Union GmbH in Frankfurt. The system has a modular design and is optimally primed to deal with the new requirements in the liberalised energy market.

- multi-client capability
- contract modelling
- energy calculation
- pricing component with formula editor
- trade billing
- balance zone and difference quantity billing

The multi-client capability not only enables the setting up of productive, test and planning system but also enables billing to be carried out as a shared service. The application is aimed at both transport companies and traders. If the system is operated as a shared service all roles can be used.

#### Solutions that work

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