



eng**DAX**

The workflow based communication server for the secure and high-performance exchange of design and manufacturing data in the PLM processes of the Automotive Industry.

OFTP-Communication via IP-networks and ISDN with ENGDAT functionality

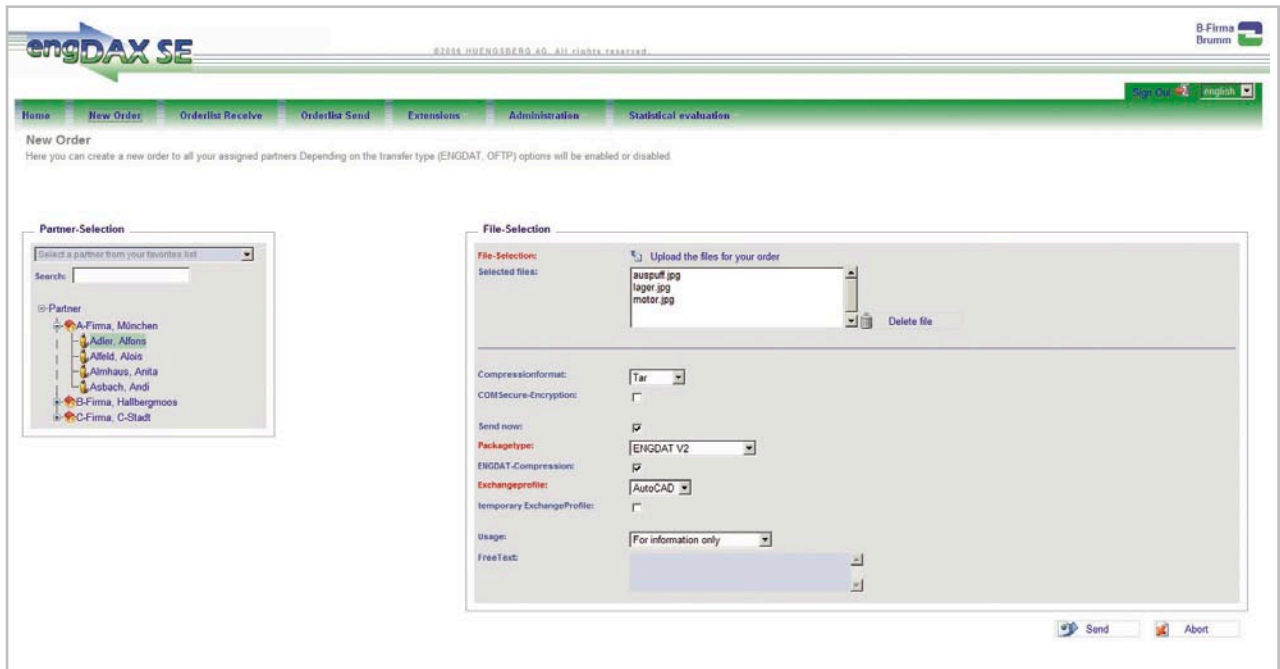
Field of Application

All data exchange requirements of the Automotive Industry.
Optimal integration in existing network environments through modular interfaces.

engDAX – engineering Data Exchange

engDAX is the perfect communication solution for CAD/CAM and logistic data exchange. Supported by ODETTE and ENGDAT protocol over IP networks and ISDN the communication server engDAX meets all requirements for the data exchange in the Automotive Industry. Due to its flexibly expandable work flow system engDAX is optimally adaptable to your individual needs and increases with the specific demands on the data exchange.

The user administration of engDAX permits the assignment of individual rights to each user and the analysis of user- and project-specific data. The various licensing modes offer a perfectly balanced cost/performance ratio for every configuration of the software.



Sending of an ODETTE Message

Performance characteristics of the Basic System

- **Standards used**
engDAX supports the ODETTE protocol (VDA 4914/2) as well as the based upon ENGDAT Standard (VDA 4951). The transmission can be carried out via ISDN, TCP/IP, ENX , X.25 and thus satisfies all current data exchange requirements of the Automotive Industry.
- **Licensing modes**
engDAX offers a wide range of licensing modes guaranteeing an excellent cost/performance ratio for any type of system composition. From a license bundle meeting your individual demands can be put together.
- **Workflow System**
In engDAX the course of processing is managed by predefined workflows adaptable to the individual requirements of the customer thus permitting a modification of the software operating mode without being obliged to modify the software itself. Within a system the simultaneous application of various workflows is possible depending on the user or a linked system of some other kind.
- **Process Card**
The Process Card is a digital routing note based on XML and is generated with every file to be processed comprising the main functions as follows:
 - complete traceability of the file processing by means of detailed logging of all work steps performed.
 - due to the central documentation of all collected information concerning the file to be processed the administrator is able to retrieve these quickly and effortlessly.
- **Routing mechanisms**
Almost any information from the communication process can be used for the routing of received data to predefined directories. This mechanism can be used in the company's own network as well as with FTP servers.

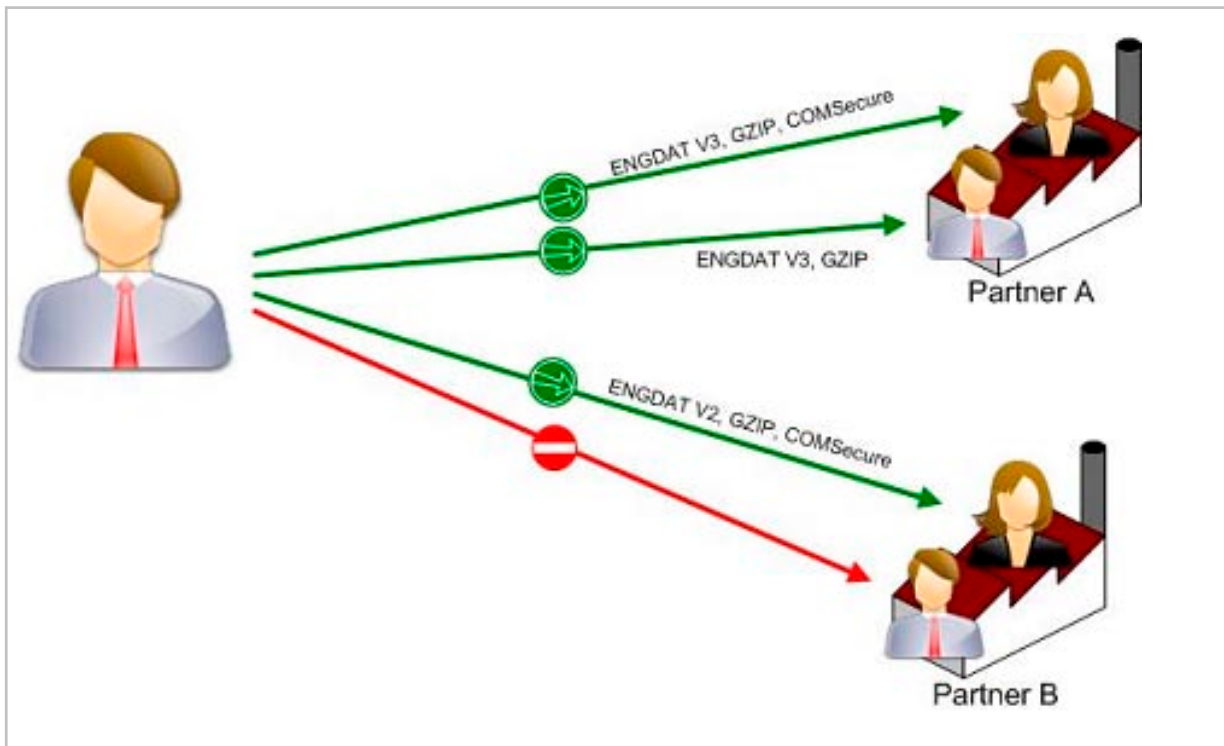


Illustration of the Agreements

● **Data Security**

In order to guarantee data security for the communication process engDAX provides the following operations:
 – With hierarchically structured user roles the scope of rights as well as the access to data for every single user is defined.
 – With detailed so-called agreements all communication partners which a user is allowed to exchange data with are configured.

● **Error Handling**

Active □
 to a list displaying all erroneous orders. Those can be cancelled or resumed after successful correction of the error. In case the communication server has crashed engDAX analyses the current status of an order and continues the processing after the latest known work step after a restart.

● **Send Profile**

engDAX permits to preset communication parameters in the form of send profiles simplifying the sending process for the individual user and helping to avoid errors.

● **Modularity**

To optimise the data exchange engDAX provides various modules thus rendering a later enlargement of the functional range of the software very simple.

● **Interfaces**

Using the latest technologies as SQL, ASP.NET and XML enables to an almost complete integration into established and envisioned IT environments as well as into product- and process management systems as EDM-, ERP-, PDM- or further CAD-systems. Detailed documented interfaces offer the administrator many alternatives of connecting external systems.

● **User friendliness**

Self-explanatory and perspicuously structured user interfaces complete the intuitive operating concept of engDAX. To provide the user with important information on the handling, tool tips have been attached to all relevant fields.

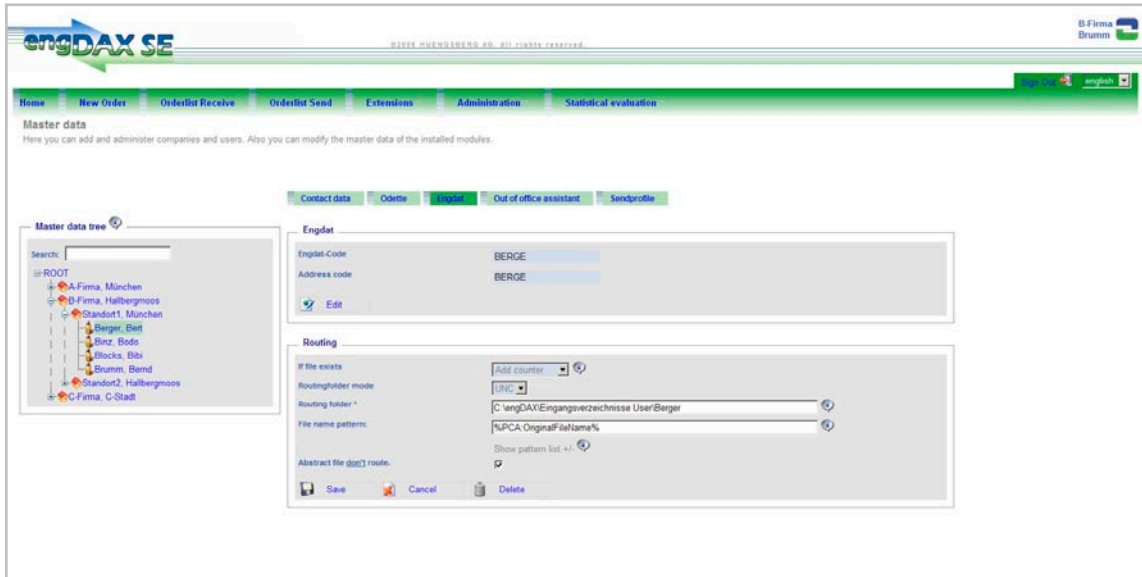
● **Service**

A service- or service-on-demand contract guarantees support and a professional error-solving by our well trained and certified service team at any time.

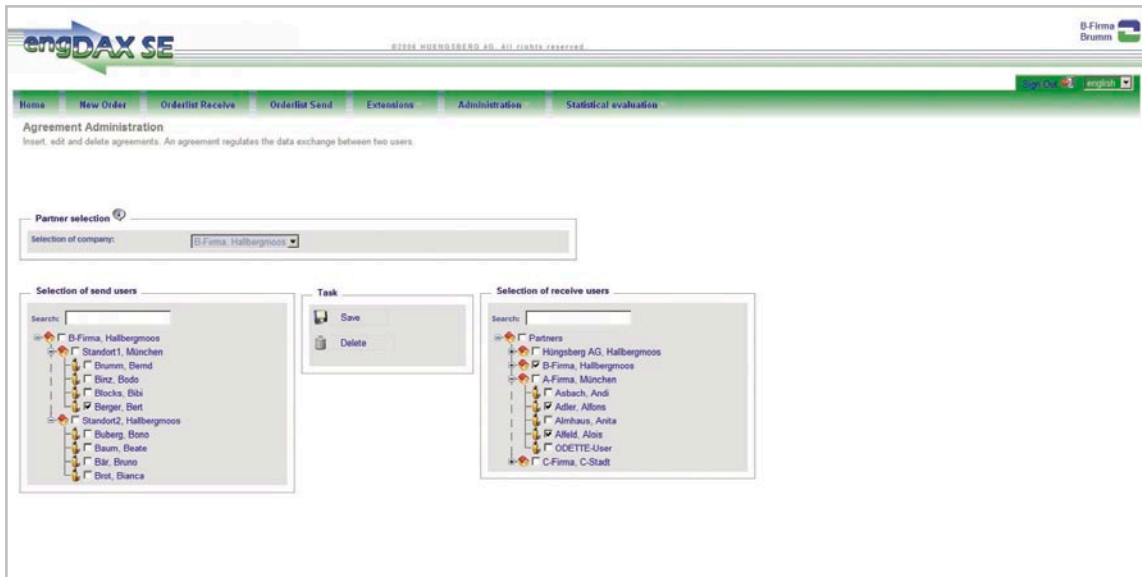


General Information concerning ODETE and ENGDAT:

- ODETE (Organization for Data Exchange by Tele Transmission in Europe)** is the predominantly used protocol for the exchange of logistic and CAD/CAM data in the Automotive Industry. Already implemented security settings and convenient functions such as restart feature and qualified error handling guarantee a high performance and secured transmission of digital information.
- ENGDAT (Engineering Data Message)** is a standard especially established for the exchange of engineering data within the Automotive Industry. With the ENGDAT message which is based on ODETE, an electronic delivery note for every transmitted file is generated containing additional information on sender, receiver and CAD/CAM file. Many OEMs require the use of ENGDAT because with the application of this protocol subsequent processes can be optimized.



Administration of Master Data



Administration of the Agreements for the Data Communication

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Microsoft



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