

OFTP2 for CAD Data Exchange

Exchanging Engineering Data Securely, Directly,
and Cost-Effectively over the Internet

The Challenge

Although the automotive industry is faced with mounting cost pressure and shorter product introduction times, engineering data continues to be exchanged in a cost-intensive way and with heterogeneous methods.

For a long time, one of the major problems of global data exchange was the incompatibility between three regional automotive networks (ENX®, ANX, and JNX).

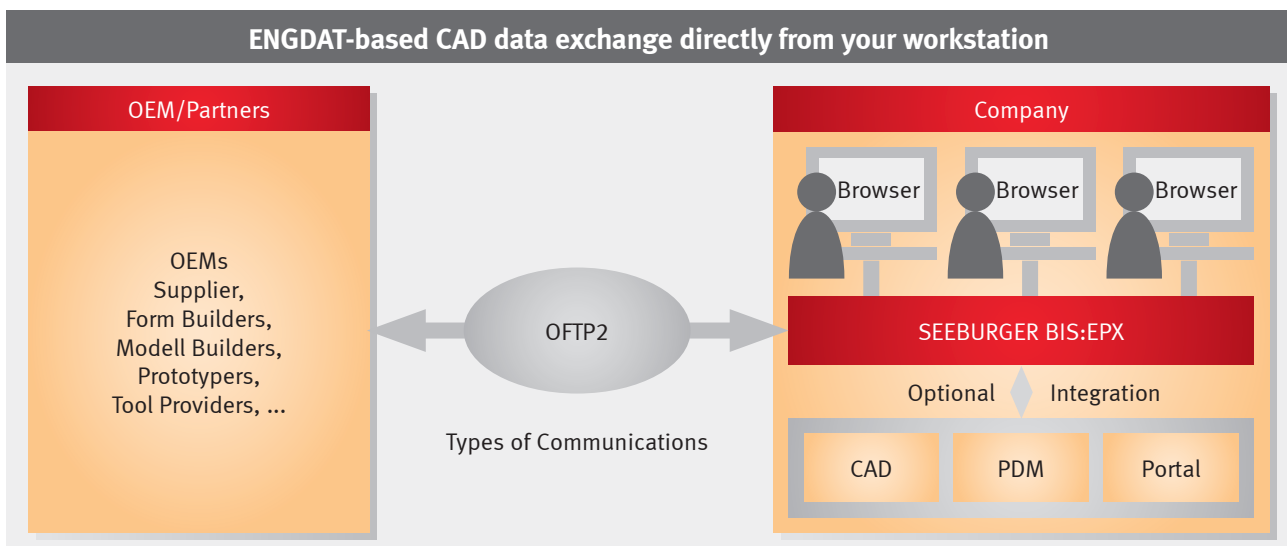
The new standard ODETTE – Odette File Transfer Protocol – OFTP2 eliminates this problem and can now be used for exchanging engineering data securely and directly over the Internet. The standard connects enterprises with their business partners – easily and cost-effectively. All the company needs is Internet access, a digital certificate, and OFTP2 software.

The Solution

OFTP2 has been developed by the OFTP Security Working Group, working under the ODETTE International Ltd banner.

With OFTP2, ODETTE wants to extend the existing standard, establish a new international standard for the exchange of engineering data, and unify national and international communications. The objective is for the United States, Europe, and Japan to transfer their data in a unified communications environment.

The Internet is the network of now and the future. Companies use the Internet frequently for communication purposes to take advantage, for example, of high bandwidth availability for the exchange of data. OFTP2 uses the high bandwidth of the Internet so that the size of the files is no longer limited, 10 GB or more can be sent.



SEEBURGER BIS:EPX

Secure and Cost-Efficient Data Exchange with OFTP2

Benefits of OFTP2

- A globally unified communications standard for the automotive industry. You can use OFTP2 everywhere – Internet is globally available!
- Cost savings: less transfer costs
- Use of low-cost Internet connections
- OFTP2 with high speed Internet connection can transmit files more quickly
- Restart broken transmissions, pull and push
- Accelerate the flow of information: Timely and event-driven transmission of documents via http-based point-to-point connections directly to the partner
- No additional set-up costs – your existing Internet gateway is used
- Reliable and integrated security functionality – an additional software is not required
- Security: use of state-of-the-art security mechanisms with security certificates for channel protection, file encryption, document and end-to-end response signature
- Authentication
- Encryption protocol elements within a session
- Encryption and decryption of files from the sender to recipient
- Standard encryption functions can be integrated
- Especially designed for the transfer of large amounts of data (files up to 10 GByte)
- Low investment costs because of the worldwide availability and compatibility of OFTP2
- All current OFTP features (ID exchanges, receipt) will be preserved

Three Levels of Secure Data Exchange

Session security: OFTP2 uses the Transport Layer Security (TLS) to establish a secure session for a protected data transmission

- SSL/TLS encrypted TCP/IP communication links can be utilized
- Each single TCP/IP packet can be encrypted

Data encryption: For higher security requirements, OFTP2 enables the additional encryption of the transmitted data content

- Utilization of asymmetric encryption

Signature and verification: If the business process or legal environment requires signed documents OFTP2 provides the ability to attach digital electronic signatures to documents

- Generating a hash of the data
- Encryption of the hash with the own private key

»Reduce costs with OFTP2 and SEEBURGER's BIS:EPX solution«

SEEBURGER's BIS:epx is a state-of-the-art and flexible client/server solution for the rapid and comfortable exchange of product data (also CAD/CAM) with business partners.

The user-friendly intranet application gives designers user-based access to all necessary construction and partner data over their browser. With just a few mouse clicks, the data can be easily and quickly selected and sent – irrespective of where the designers are working or what workstation they are using (Windows or Unix).