OFTP2 IS BECOMING THE COMMUNICATIONS PROTOCOL OF CHOICE FOR AN INCREASING NUMBER OF AUTOMOTIVE COMPANIES – PROVIDERS OF COMMUNICATIONS SOLUTIONS NEED TO INTEGRATE OFTP2 IN THEIR PRODUCTS TO MEET THIS DEMAND

OFTP2 was developed by Odette in order to meet the growing need of the automotive industry for a globally available, low cost, fast, reliable and secure communications protocol (learn more about OFTP2).

An increasing number of OEMs are now requesting their suppliers to switch to this latest version of the Odette protocol and, in order to meet the growing demand, more and more service providers are busily integrating OFTP2 into their communications solutions.

Odette asked several service providers to explain what they are doing to meet the demand and why they feel that OFTP2 is an essential part of their product development strategy.

These companies are just a few of the service providers now supporting OFTP2. They tell us why below.

Several of them have also successfully completed the Odette OFTP2 Software Interoperability Test (learn more about the Test).

Click here to add your testimony.

AXWAY

OFTP2 - Proven B2B Communication based on newest Technology

During more than 20 years of OFTP experience Axway has implemented hundreds of successful high-performance OFTP gateways, focussing on OEM's, international 1st tier suppliers and their partners. The majority of the world's top 100 suppliers run Axway's OFTP and B2Bi platform to realize their supply chain integration, JiT/JiS processes and CAD/CAM data exchanges.

Since these customers expressed their strong need for an "Internet-ready" OFTP version, Axway became one of the founders and first supporters of the idea for a new OFTP2 protocol. Axway's gateway experts brought our customer's requirements into the ODETTE OFTP2 group and helped in designing OFTP2 as a customer-oriented and state-of-the-art communication protocol covering the following features:

- Fast and high-bandwidth data exchange via Internet
- Reliable and robust communication
- Backward compatibility (OFTP1)
- Security: secured partner identity, confidentiality, data integrity and non-repudiation
- Low TCO through automatic certificate exchange and inexpensive certificates
- World-wide availability

Axway, as an active member in the ODETTE OFTP2 group, was one of the first vendors that implemented a complete OFTP2 solution, showcasing a real-life-scenario together with BMW, Continental and TRW at the ODETTE conference in 2007.

After ODETTE finished the definition of their OFTP2 interoperability criteria the Axway OFTP solutions successfully passed these interoperability tests as one of the first available OFTP2 products. Now, in the name of ODETTE, Axway is allowed to process interoperability tests to certify other vendors.

Axway's OFTP2 customers benefit from:

- a proven and complete OFTP1 and OFTP2 protocol implementation
- scalable, parallel and high-performance OFTP2 architecture
- robust and high-available cluster approach for high bandwidth communication
- an integrated PKI infrastructure with automatic certificate exchange
- easy to use OFTP2 governance user interface
- a high-secure DMZ (Secure Relay) component, also available for other IP-based protocols
- a smooth and intelligent migration approach, enabling customers to use both OFTP 1&2
- the support of all relevant OFTP network types: Internet, ENX, X.25, ISDN, X.31
- complete integration with Axway's B2Bi and Collaborative Engineering Solutions (ENGDAT)
- the OFTP2 experience of leading automotive OEM's and suppliers

Axway - Global Leadership in Automotive

An innovative and reliable Partner of the Automotive Industry

Axway's competence in the automotive industry is based on over two decades of experience in providing leading B2Bi solutions to automotive manufacturers, suppliers, and their service partners around the world. Axway handles the ever-changing standards and interoperability requirements, integrating all partners and processes across the entire automotive value chain, so customers gain optimal operational efficiency.

Axway actively participates in major automotive industry groups, so Axway's Automotive Solutions reflect all current automotive industry trends and standards. For example, Axway is a member of the ODETTE organization and participates in such work groups as OFTP 2, certificate management, or eInvoice. Through this active involvement, Axway contributes to define state-of-the-art standards, testing them, and implementing them with customers.

This is why major automotive manufacturers and the majority of the world's top 100 automotive suppliers rely on Axway's B2Bi platform.

Axway is the Business Interaction Networks company – the only provider in the market today to manage, run, secure, and monitor all of your business interactions, including email, files, messaging, services, events, and processes. Serving over 11,000 organizations in more than 100 countries, Axway facilitates the multi-enterprise transactions, processes and integration that accelerate business by eliminating the barriers between vendors, customers, departments, partners and suppliers. Axway's comprehensive offerings include business-to-business integration, managed file transfer, secure email, business activity monitoring, enterprise application integration, service-oriented architecture, business process management, track & trace and identity validation solutions. Axway provides professional and managed services, as well as cloud computing and Software-as-a-Service (SaaS) offerings. Headquartered in Phoenix, Arizona, Axway's global presence spans 20 countries.

www.axway.com

www.axway.com/solutions/automotive/oftp_version2.php

c-works / SSC- Services

c-works and SSC-Services work together in a close partnership in the development and in the distribution of OFTP products. SSC-Services is the exclusive licensee of the OS4X products from c-works in Germany.

c-works and SSC-Services are confident of the fact that OFTP2 offers big advantages for engineering data exchange between partners compared to the present OFTP solutions by the support of the Internet and by the encoding options for high security.

Both companies have been involved from the very beginning in the Odette project OFTP2 by the cooperation as active members in the OFTP2 working group defining new standards and in interoperability tests between software vendors. Therefore, c-works and SSC-Services are competent partners for the implementation of OFTP2 with customers.

In the discussions with customers including large OEMs and in comparison with OFTP 1.x, following advantages of OFTP2 are evident:

- The data transfer can now been carried out via Internet with automatic compression. Files can be larger than 10 GB (limit with OFTP1.x)
- The security is guaranteed by session authentication, session encryption, file encryption and file signature
- High comfort by automated generation and exchange of certificates, and by being backwards compatible to OFTP V1.x
- High Performance by full duplex operation (no job queuing), low speed ISDN is not needed any more

- Cost reduction by the use of Internet with high range of bandwidth
- Worldwide cooperation via Internet as a carrier is now possible
- First time in OFTP history, interoperability is tested among competitors for best customer convenience

Therefore, most of the European OEMs have planned to support OFTP2 in productive use in 2010.

Company profile of c-works

c-works GmbH was founded at 1st of January 2008 by Harald Latzko, as a successor of the company "c-works software solutions GbR", which was founded in April 2004. Its headquarter is located in Holzgerlingen, Germany.

c-works is involved in software development since its first day, providing solutions for the automated data exchange in the automotive and logistics industry. Due to its small size of one main developer, four external "on-demand" developers and a telephone supporter team which is available 24/7, c-works achieves very short reaction times and highest customer satisfaction.

Products and services of c-works

The actual product line of c-works ranges from an entry-level OFTP system for transferring single files ("OS4X 2 Core"), over to a pluggable EDI system to fulfil the basic needs for small and entry level CAD data exchanger ("OS4X Enterprise Lite"), which is available in an unlimited version too ("OS4X Enterprise") ending in a hardware appliance, combining all possibilities in one out-of-the-box solution ("OS4XBox"). Hereby, OS4X is highly configurable and attachable to other EDM systems, such as SWAN of SSC and DDX. Its main advantage comes from its openness and configurability.

Services are available from consulting for the customer, followed by a seamless integration and installation of the chosen solution. Telephony and eMail support is available in addition to an online chat support for fastest reaction times. In this way reaction times are possible quite under an hour, in most cases instantly.

In addition, with SSC as distribution partner, consultancy, installation and administration effort is done in a highly effective manner.

c-works customers

About 60% of the customers are working in the automotive engineering sector, transmitting CAD data. 30% of the customer volume is located in the logistics sector. 10% of the customers are portal and middleware solution providers, using the products of c-works for their own products as a most stable and highly configurable solution.

Company profile of SSC-Services GmbH

The SSC-Services GmbH was founded on the 1st of April, 1998 by Karl Strecker and Matthias Stroezel with head office in Stuttgart, Germany. Today, more than 70 employees are active for the enterprise.

The SSC-Services GmbH is one of the leading suppliers for the electronic data exchange with internationally operating customers.

We offer standardised complete solutions and services for the car industry, as well as for other branches. Our products find her application along the whole supply chain.

Products and service portfolio of SSC-Services

SSC offers to industry an extensive range of solutions to the customer from an Internet portal for OFTP data exchange up to large data exchange management systems with high level of automation and integration.

The service SSC offers contains also the operation of data exchange systems with UHD and with operations of all software components with application management according to ITIL standards including training courses for administration and operation.

SSC customers

SSC-Services supports the car industry from vehicle manufacturers down to smaller engineering offices and suppliers. Therefore, our objective is to support our customers, dependent on requirements and operations, worldwide at many locations, e.g. for OEM´s, or also locally at few or only one location.

Contact:
c-works GmbH
Rechbergstr. 40
D-71088 Holzgerlingen
Phone: +49-(0)7031-4924306
Fax:+49-(0)7031-4924308
http://www.os4x.com
Email: contact@os4x.com

SSC-Services GmbH
Gewerbestrasse 42
D-70565 Stuttgart
Phone: +49-(0)711-782608-40
Fax: +49-(0)711-782608-55
http://www.ssc-services.de
Email: kontakt@ssc-services.de

DATA INTERCHANGE

As a core member of ODETTE from its inception, Data Interchange plc has always been closely involved in the development of the OFTP protocol, recognising it as a solid basis on which global EDI would be founded and would grow and prosper.

Data Interchange was also among the first to recognise the need for more security around the OFTP protocol and was therefore involved from the start, as a member of the OFTP Security Working Group, in the development of OFTP2.

Security features in OFTP had not previously been required when X.25 and ISDN networks were commonplace but, with the advent of the Internet providing a fast, low-cost connection method,

coupled with a business drive from the OEMs to reduce costs, it became obvious that OFTP had to evolve and provide security features to remain as the protocol of choice for businesses.

It is therefore natural that Data Interchange would choose to incorporate OFTP2 into all its communication products. OFTP2 provides session security, file security and secure authentication. It matches AS2 in its security features, but provides far more flexibility. Although some of our products offer both AS2 and OFTP2, if users have no overriding preference we would always promote OFTP2 as the better option.

“As one of the authors of the OFTP2 specification, Data Interchange is at the forefront of standards development," said Ewan Friend, Managing Director, Data Interchange. "ODETTE's certification of our OFTP2 capability demonstrates our continued investment in one of the most widely-adopted messaging standards across the globe and highlights our ongoing commitment to industry standards.”

Background on DI

Data Interchange is a leading international provider of EDI and eBusiness solutions. Over the last 20 years, Data Interchange has helped thousands of satisfied customers to connect electronically to their trading partners across the globe, both directly and via our global B2B network, DINET. Our DINET VAN offers all the advantages of the OFTP2 protocol to those who recognise the need for secure communications.

Data Interchange provides solutions and services underpinned by world class technology for supply chain management, order processing, business integration, data synchronisation and electronic funds transfers. OFTP2 communications (and other protocols) are available in the following products:

EPIC – an Enterprise Process Integration Controller solution, utilizing cutting-edge Distributed Processing technology to provide seamless integration of internal systems, business processes and trading partners in a high throughput environment.

ODEX Enterprise – a communications and workflow business integration server. It allows companies to communicate and manage exchange of business documents within a single environment.

OFTP2 Express – a simple application designed for the sending and receiving of files via an OFTP2 communication session with a single trading partner.

DARWIN – a complete B2B order processing solution for all market sectors. We also provide the same service on a hosted Web service.

DINET – a global messaging platform that provides a cost effective means of securely exchanging business data between trading partners anywhere in the world. With a single connection to DINET you can trade with all of your trading partners, independent of their communications protocol or connection method.

HUENGSBERG

Since 1981 HUENGSBERG has been offering information- and communication technology for the automotive industry and has established itself with innovative EDI solutions. Motivated and driven by the visions of the founder and today's CEO Werner Huengsberg, the company focuses on the engineering-data-exchange. This specialisation brought the market leadership in the CAD/CAM area for the company.

"We must not be satisfied with the potentials of today's technology at any time. We have to observe the requirements and demands of the industry for the mid-term and long-term future and to understand and formulate them correctly so that good products for the market will be established", says Werner Huengsberg.

More than 3000 customers use **DAX**ware® worldwide and focus on the innovation spirit of the company.

HUENGSBERG guarantees "State of the Art" solutions with investment security and an optimal integration into existing structures. The spectrum of our solutions is covering the complete data handling and includes:

- analysis and consulting of customer specific requirements
- solutions for easy and comprehensive data exchange, up to individual communication portals
- integration of applications
- illustration and optimization of complex data exchange processes

What is the interest for HUENGSBERG to incorporate OFTP2 in its product?

As the company history shows, HUENGSBERG has been working in the field of information and communication technology for almost 30 years and has thus shaped the implementation of EDI .

From the beginning, communication technology was required to be able to transmit data as fast and efficiently as possible from A to B. From telephone (FSP) to Datex-L and Datex-P up to ISDN and TCP/IP HUENGSBERG has implemented every technology change in its software and at all times the requirements of a broader bandwidth have been fulfilled. Frankly speaking: Based on its history HUENGSBERG feels obliged to innovate and progress! HUENGSBERG is committed to provide its customers (over 3000) with future technology trends, thus helping them to become more efficient.

The latest requirements are higher data volumes. For this purpose the internet is most suitable as it is available nationwide. To satisfy the increased security needs of the Automotive Industry the new standard OFTP2 with the various encryption and security levels has been established.

Implemented in the engDAX.OFTP2 module of the DAXware ® product line, we complete the OFTP2 communication with the "OFTP2 Ready Service", created especially for HUENGSBERG customers. This

service supports our customers in implementing OFTP2, beginning with the request for the certificate to the test runs with selected communication partners.

If you have any further questions concerning engDAX.OFTP2, just call 0049 /811/ 95 92 430 or e-mail sales@huengsberg.com. Our sales team will be delighted to assist you.

NUMLOG

NUMLOG was created sixteen years ago, based on a main activity of technical data exchange.

Our initial product: FT-Master was based on OFTP version 1.0 and the Galia V3 French standard. Soon, the Odette ENGDAT V1 standard was added. Through time, the other versions of these standards have been fully supported.

With TCPIP transport, brought in with OFTP version 1.4, a challenge was created: the security of the server. In order to provide the state of the art in this technological sector, we added a TCPIP relay (RELAY-Master) which runs in a DMZ and protects the server from attacks by external bad boys.

But when it came to more or less confidential data, OFTP was hardly usable over Internet. Actually, OFTP1 doesn't offer any protection mechanism, as it was designed to run over secure networks such as X25 and ISDN.

So, when in 2004 the automotive industry was looking for a secured protocol able to carry large CAD files, we were amongst the first people to jump in the boat; for two reasons:

- X25 and ISDN are going to die in a few years; this has been known for a long time and we want to be sure that our product continues to live,
- Our customers have invested money in the technology, and we want to give them the means to protect their investment.

These 2 reasons became quickly 2 main goals. A third one can also be added: to allow reliable, secure and managed data exchange to be carried out in emerging markets, using the most economical and worldwide network: the Internet.

So we attended the very first meeting of the “ad hoc SASIG working group” who studied various solutions and decided that the best one would be a “secured OFTP”. As the OFTP protocol is under the authority of ODETTE, SASIG asked ODETTE to enhance and secure it, and the ad hoc working group naturally transformed itself into an Odette Working Group, with the approval of the ODETTE Technology Committee.

The ODETTE OFTP2 WG has worked hard to modify the protocol and publish the new OFTP2 specification in 2 forms: an ODETTE document and an Internet RFC for a global reach.

NUMLOG participated very actively in the WG, and in parallel we implemented the new specification in FT-Master and in RELAY-Master. We now have a product which fits any size of company: from the smaller one with an embedded TLS layer to the larger ones with a TLS gateway implemented in RELAY-Master and running in a DMZ.

However, one problem was still not solved: OFTP2 relies on X509 in order to ensure secured exchanges over unsecured networks. The X509 Internet standard implements the concept of "trust chain". But, as with any chain, the trust chain is as strong as any of its elements, specially the first one: the Certificate Authority.

In order to solve that issue and offer a real way to automatically ensure the trust of the certificates on which OFTP2 relies, ODETTE created a second working group which worked in parallel with the OFTP2 WG: the Security Certificate Exchange (aka SCX) WG. This working group has specified the way to set up the trust: a Trust-service Status List (TSL), and the method to use it. The TSL is hosted on the ODETTE web site. It contains a list of trusted Certificate Authorities and their CA certificate chains. By downloading this TSL, OFTP2 software is able to verify the user certificates in a trusted way.

NUMLOG also participated actively in the works of the SCX WG, and we implemented our key store: PK-Master, based on the ODETTE TSL. FT-Master is backed to this key store, where it retrieves all the required certificates and keys.

SEEBURGER

OFTP2 sets a new B2B-Standard for Data Exchange

Since ISDN solutions are more and more repressed by IP based products, the communication protocol OFTP2 from the organization Odette becomes ever more attractive. OFTP2 as new B2B-communication standard offers the option to participate cost effectively in the global data exchange. Companies like Volvo have already announced the switch for their complete data communication to OFTP2. Other OEM use currently the classic OFTP for the data exchange in the logistic area, or for engineering data, but have now recognized OFTP2 as a new option and evaluate its application.

SEEBURGER as B2B Integration provider was already entrusted with the realization of large OFTP2 Roll out projects. The software provider was from the beginning a participant in the development of the new OFTP2 specification and was involved in the process of the interoperability. In addition is SEEBURGER one of the only three providers that have completed the ODETTE interoperability tests for the communication protocol OFTP2 successfully and that were therefore certified by ODETTE. Based upon this experience SEEBURGR has designed a selection of solutions – depending on the EDI system in use – SEEBURGER or other systems – to utilize OFTP2 optimal and cost effective in the Internet.

Users are provided with a fast access to OFTP2 with the SEEBURGER solutions, since the communication between supplier and OEM is handled full automatically. There are four options available including the outsourcing of the OFTP2 communication to the SEEBURGER Managed Service-Team:

OFTP2:Connect as Front-end for an existing EDI System

OFTP2:Connect is designed for all applications that are not OFTP2 compliant as BIS 5 and WinELKE from SEEBURGER, or systems from Third-parties. The integration between the existing EDI system and OFTP2:Connect happens via File Transfer, the integration to the ERP system remains with the existing EDI system as does the communication with partners using other communication protocols than OFTP2.

BIS:Express with direct ERP Connection

BIS:Express functions completely separately from the existing EDI system, and connects directly with the ERP system – this can happen through File Transfer or other data transfer methods (AS2, FTP, etc.). Communication with partners not using OFTP2 remains on the existing system, as does the integration of their data with the ERP system. Only OFTP2 partners are being channelled through BIS:Express and connected directly with the ERP system.

OFTP2:Clearing – SEEBURGER Clearing Service

For those who do not want to invest in a separate system to handle OFTP2 communication, SEEBURGER offers its OFTP2 clearing service. Through which they can exchange business data as DELFOR, DELJIT, DESADV, INVOIC with customers/partners using OFTP2. With this solution the investments for an own EDI system and its maintenance is eliminated.

BIS:epx – especially for the Engineering data exchange

As a modern communication protocol OFTP2 supports also the fast and comfortable exchange of engineering data. For this the SEEBURGER product BIS:epx – a user friendly Intranet application – the browser based and user related access to all relevant construction-and partner data. With a few mouse clicks the data can be sent easy and fast directly from the work station via OFTP2.

About SEEBURGER

SEEBURGER's objective is to seamlessly integrate external and internal processes – the interactions between different application systems or business partners – while eliminating media discontinuity.

The product portfolio covers the integration of B2B business processes, the integration of business partners, logistics/RFID solutions, the automated processing of paper-based documents, and end-to-end, independent consulting services for the introduction of product data management systems. The company's managed services include a SaaS B2B platform as well as traditional outsourcing services for B2B processes.

SEEBURGER has a long-standing partnership with SAP. More than 30 EDI adapters that were developed in-house enhance the integration platforms of SAP customers.

A range of additional services such as consulting and support allow SEEBURGER to complete its holistic approach.

SEEBURGER customers benefit from its extensive industry expertise and knowhow from more than 7,800 projects for companies such as Hyundai, Kongsberg, Porsche, VW, Volvo, Magna and many more. Founded 1986 in Bretten, Germany, SEEBURGER has offices in 18 countries worldwide.

Contact:
SEEBURGER AG, Edisonstraße 1, 75015 Bretten
Seref Erkayhan, Head of Business Development Product Lifecycle Management (PLM)
Tel.: +49 (0) 7252 96-1592, s.erkayhan@seeburger.de

TRUBIQUITY

Question: Dr. Davies, could you please introduce yourself to our readers and present Trubiquity and its portfolio to us?

I am Dr. Martyn Davies, Vice President of Trubiquity's Engineering Solutions Business Unit which engages with Trubiquity's global customer base regarding Managed Data Exchange solutions for the automated exchange of CAD, PLM and related documents. A main focus of my work is to ensure that the Trubiquity roadmap addresses both the current and future needs of its customers. Trubiquity is headquartered in Rochester Hills, Michigan, USA, with offices in Germany, the United Kingdom and Japan and an international network of resellers, The company delivers managed data exchange (MDE) and business process integration solutions across multiple enterprise boundaries for manufacturing, finance, consumer goods and retail organizations. Demand for these solutions increases as partner value chains extend globally and involve more geographically dispersed stakeholders, e.g. internal teams, external suppliers or Joint Venture companies. In fact, 6,000+ companies in 40+ countries worldwide use Trubiquity enterprise and SaaS solutions to connect, move, and share key business information whilst maintaining control, quality assurance and intellectual property security. Trubiquity solutions manage the complexities of information flow in many areas to enable B2B process automation. The key areas include Managed Data Exchange, especially for large files e.g. CAD, CAE, PLM, images, financial data, video and also IP security, Electronic Data Interchange (EDI), Procurement automation, Team collaboration and Quality and measurement data management.

Question: What objective did Trubiquity want to achieve by investing in the OFTP2 protocol?

Dr. Martyn Davies: Trubiquity has played an active role in the ODETTE OFTP2 organization to ensure the development and release of this important standard. Support of OFTP2 has been added to some of our products to make sure that current and future customers can benefit from this new communication protocol which is required by an increasing number of OEMs especially in the automotive industry. Meanwhile almost every manufacturer requires the application of OFTP2.

BMW, following PSA, was the latest OEM announcing to use OFTP2 with their suppliers before the end of the year 2009. This decision has been made as BMW considers ISDN as a technically and economically unreasonable technique for exchanging large volumes of data in global engineering networks.

Question: What customer requirements have Trubiquity met by incorporating support of OFTP2 into a number of its products?

Dr. Martyn Davies: Trubiquity's OFTP2 solutions meet the major requirements regarding:

- **Availability:** Companies can use OFTP2 everywhere - Internet is globally available!
- **Speed:** OFTP V1 with ISDN (1 cannel) at 7kB/s, it takes 20 hours to transmit a 500MB file which is not unusual for CAD/CAE/PLM and even classic EDI may reach 100 MB per file. Using OFTP2 with Internet (high speed internet access) the same 500MB file may be transmitted in 15 to 30 minutes.
- **Cost savings:** Less transfer costs compared to using ISDN or ENX.
- **Security:** Use of state-of-the-art security methods (i.e. security certificates) for channel protection, file encryption, document and end-to-end response signatures.
- **File size:** Larger files for CAD/CAE/PLM can be realistically exchanged.
- **Reliability:** The capability to restart broken transmissions, as well as pull and push data transfer.
- **Compliance:** Ensuring availability of OFTP2 to comply with major customer demands, especially with automotive OEMs.

Question: How do you see the results of this investment?

Dr. Martyn Davies: We have updated a number of Trubiquity solutions to incorporate support of OFTP2, as well as continued support for OFTP V1. These solutions include TRUeurex-c (formerly eurex®c). This software is used by over 2,000 companies to enable CAD and EDI data exchange as a standalone solution or as part of a more comprehensive Trubiquity or partner solution, for example as part of an ERP deployment.

Another solution is TRUfusion Connect that includes support of OFTP V1 and OFTP2 and ENGDAT for CAD/PLM data exchange in the automotive industry.

Our solution TRUfusion Enterprise (formerly DDX and Fusion-DX) includes support of OFTP V1 and OFTP2 and further communication options with TRUexchange, TRUfusion Portal and other company Portals. TRUfusion Enterprise provides ENGDAT for CAD/PLM data exchange in the automotive industry and key integration with other software solutions to automate the engineering data exchange workflow. So it integrates with PDM/PLM systems i.e. that manage the data that needs to be exchanged, CAD system translators e.g. for DXF, IGES, JT and STEP, 3rd party direct translators, CAD data quality checkers and data compression and encryption utilities.

Trubiquity's TRUexchange+OFTP, the web based/Software as a Service (SaaS) solution for users who wish to outsource their ODETTE data communication requirements offers beside the support of OFTP V1 and OFTP2 also support of Internet, ISDN, VPN and ENX connectivity options.

Regarding our investment in OFTP2 Trubiquity has ensured its solutions are open, can be integrated with other tools and enable B2B interoperability. Trubiquity's ability to support the OFTP2 protocol with our software was a critical step in offering market leading solutions to current and future manufacturing customers worldwide.

Please **contact Trubiquity** if you are interested in learning more about Trubiquity's OFTP2 solutions. Just call – USA: +1 (248) 601-7160 – United Kingdom: +44 (0) 113-242-5151 – Germany: +49 (0) 621-39155-0 or email solutions@trubiquity.com.

For more information please visit www.trubiquity.com

T-SYSTEMS

OFTP2 – The new Communication Standard via Internet

Since the foundation of the Odette organisation in 1984, T-Systems is participating actively in supporting several working groups to define communication standards for the European automotive industry. After the first version of the OFTP has been published in 1986 by the Odette Working Group 4 'Telecommunications', T-Systems has implemented all versions of the OFTP within the product rvs®. Since that date hundreds of customers (OEMs and suppliers) with several thousands of installations use the product rvs®, exchanging commercial EDI data as well as technical data.

During the last years the need for transmitting much bigger files in a secure and economical way came up. This has been requested for instance by the SASIG organisation to handle their technical data using ENGDAT V3. These new requirements could not be met with the currently used technique (ISDN and X.25). This new idea to use the Internet as communication platform has been picked up in 2004 by founding the new Working Group OFTP2 under the umbrella of the Technical Committee of Odette. T-Systems supported this activity very actively with technical expertise. The working group succeeded in developing a high sophisticated protocol running on Internet with major new qualities:

- Communication via Internet infrastructure with high bandwidth
- Sophisticated security functions like
  - Authentication
  - Confidentiality
  - Integrity
  - Non-Repudiation
- Support of big data volumes

- Automatic certificate exchange to permit low administration effort
- Worldwide availability
- Low cost solution
- Backward compatibility to OFTP1

With the help of T-Systems the standards of the protocol itself, the security and the interoperability tests have been developed successfully. As a consequence T-Systems has passed the interoperability tests successfully as one of the first four OFTP2 software providers and our software rvs®EVO got already the certification from Odette.

T-Systems is offering their OFTP2 solutions towards their customers with the following advantages:

- Support of OFTP1 and OFTP2 in one single product; only an upgrade of the rvs®EVO software is necessary to use the OFTP2 functionality
- High flexibility through different product variants from a Tiny up to an Enterprise version
- Connection to a PKI infrastructure of your company
- DMZ integration
- Various deployment in using a separate OFTP proxy which can support also other OFTP2 software

T-Systems has integrated the OFTP2 functionality into all product variants of the product line rvs®EVO:

rvsEVO Enterprise Edition
rvsEVO Proxy
rvsEVO Standard Edition
rvsEVO Light Edition
rvsEVO Tiny Edition

T-Systems – Enabler of connected life & work

We shape the networked future of business and society and create value for customers, employees and investors thanks to innovative ICT solutions.

T-Systems is Deutsche Telekom's corporate customer arm. Using a global infrastructure of data centers and networks, T-Systems operates information and communication technology (ICT) systems for multinational corporations and public sector institutions. With offices in over 20 countries and global delivery capabilities, T-Systems serves companies in all industries – from the automotive industry to telecommunications, the financial sector, retail, services, media, energy and the manufacturing industry all the way to government agencies and the healthcare sector. Approximately 46,000 employees worldwide use their industry expertise and ICT know-how to provide top-quality service. T-Systems generated revenue of around EUR 9,3 billion in the 2008 financial year.

Innovation through dialog

As a driver of innovation within the Deutsche Telekom Group, T-Systems provides ICT solutions for connecting business and society. Innovations in relevant areas such as education, health, environmental protection, mobility and security are increasingly arising out of dialog with experts and opinion makers among our customers and from other social groups.

A service created at BMW that is able to automatically detect a car's servicing requirements is one such example. The car sends a short message to inform the garage. The customer advisor at the garage then contacts the driver in order to make all other necessary arrangements. The underlying technology comes from T-Systems. Traffic control systems in some large cities also use T-Systems technology: In Stuttgart, for example, a Group solution controls traffic flow, helping to prevent traffic jams and improve road use.

With integrated solutions, networks and services for national, regional and local government, T-Systems assists administrative bodies, security authorities and educational facilities in the optimization of processes, the reduction of costs and the provision of faster, improved services for citizens.

The healthcare sector, comprising clinics and health insurance providers, also relies on the industry expertise of T-Systems: For example, one solution enables heart patients to transmit weight and blood pressure data to their doctor on a daily basis. In this way, doctors can identify critical changes in chronically-ill patients still at home and make all necessary arrangements immediately on a remote basis. As such, patients can remain more often within their own four walls while continuing to benefit from medical checks.

World number one in tailored SAP solutions

The service provider offers information and communication technology from a single production source, guaranteeing a high level of quality for complex ICT projects, especially major outsourcing contracts. For example, T-Systems has concluded a five-year contract with petroleum group Royal Dutch Shell for the provision of worldwide data-center and storage services. As part of IT outsourcing for UK energy provider Centrica, T-Systems manages the company’s IT infrastructure and over 23,000 workstation computers in the UK. T-Systems has also been operating worldwide data centers and networks for MAN since mid 2009. The company offers its customers brand new operating models allowing them to use software applications such as SAP via the network in accordance with their requirements. Today, when it comes to supplying customers with dynamically scalable SAP services, T-Systems is the number one worldwide.

XWARE

What is the interest for XWARE to incorporate OFTP2 in your product?

Xware has a strong heritage in providing off-the-shelf software for business-critical applications to a wide range of industries. Our mission with the *xTrade* product suite is to provide secure and reliable integration solutions supporting the broadest range of messaging standards and communication protocols.

Xware believes that the OFTP2 protocol with its unique properties in terms of security and acknowledgements has a natural place in the xTrade product suite. As an open and standards-based solution it has potential to play an important role in many types of applications in different industries.

The flexibility of xTrade makes it possible to mix older standards like X.400 and OFTP v.1 with the latest internet-based messaging in one consistent application. Migration between protocols is easy and cost-efficient in xTrade, since switching protocols to an external party does not affect connected applications.

About Xware and xTrade

Xware is a Swedish software company specialized in data communications and integration software. Xware develops and markets *xTrade Business Communications Suite,* a complete solution for application- and B2B-integration. It features support for virtually all types of messaging standards and communication protocols.

xTrade Business Communication Suite is today deployed in market segments such as healthcare, defence, automotive, retail and logistics. Most installations are high-volume, business-critical systems, often integrating geographically wide-spread organizations. *xTrade Business Communication Suite* is a ready-to-run product with exceptionally short deployment times, providing a very quick ROI. For more information visit http://www.xware.com or contact sales@xware.com