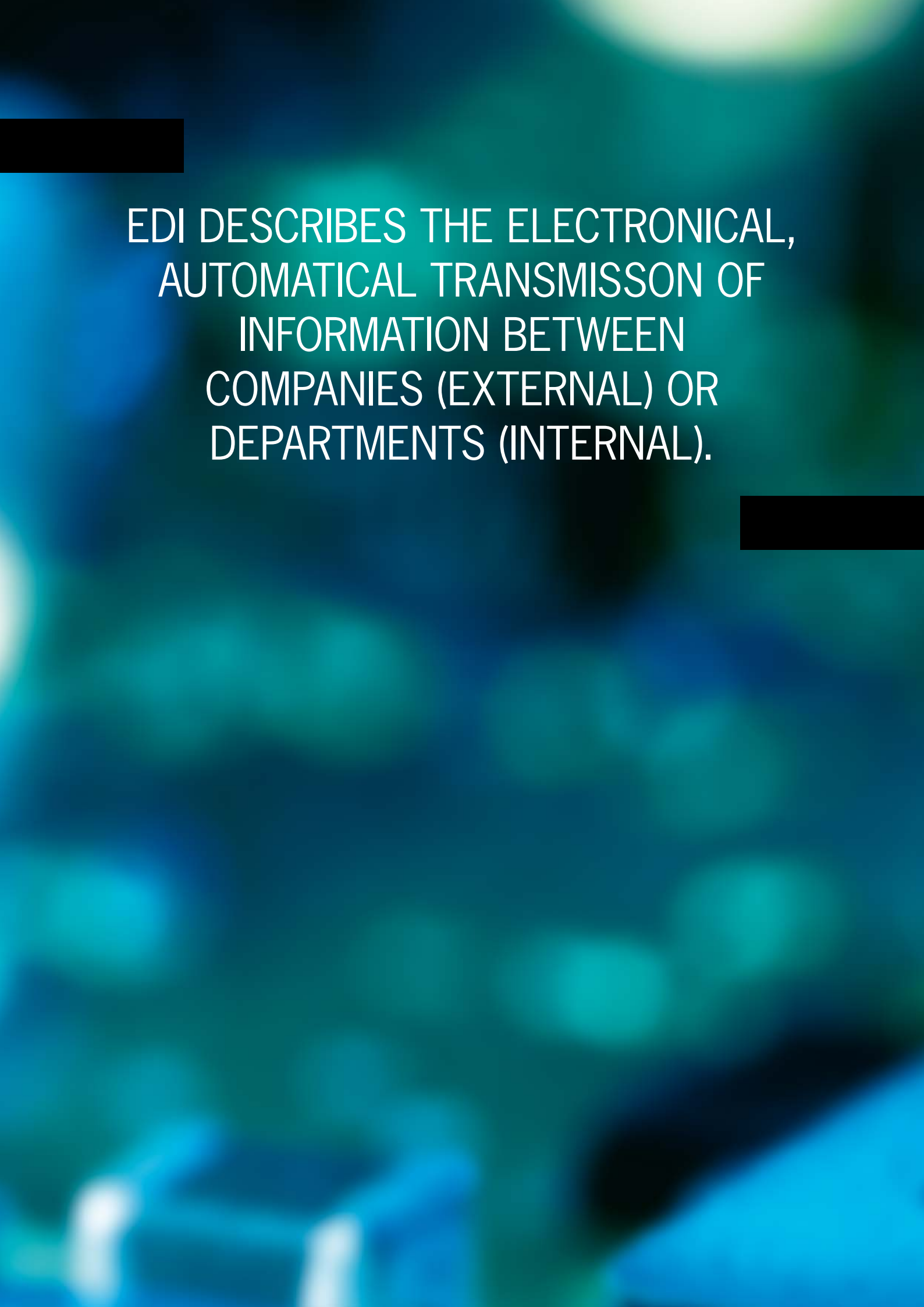


Data Exchange via EDI

V2.0

Combined Benefits Process Optimization in Logistics

The background of the slide is a blurred image of a person's face, showing their eyes and nose. The colors are muted and soft, creating a professional and focused atmosphere. The text is centered and clearly legible against this background.

EDI DESCRIBES THE ELECTRONICAL,
AUTOMATICAL TRANSMISSION OF
INFORMATION BETWEEN
COMPANIES (EXTERNAL) OR
DEPARTMENTS (INTERNAL).

Electronic Data Interchange



Electronic data interchange or EDI is independent of the logistics system. It is also possible to automate the business processes of a customer who is not linked to Rutronik by a logistics system.

Processes

Standard business processes, such as

- order entry
- order confirmation
- delivery notification
- invoicing

can in principle be handled electronically for all customers. For this, it is of course necessary that the customer has the corresponding technical means to set up the communication with Rutronik.

Benefits and targets

- Time-reduced and reliable information flow
- Acceleration of the business processes
- Lowering of the logistics cost
- Increase of the service level

Advantages

- Reduction of process time
- Reduction of process cost
- Automatic process management
- Reduction of inventory
- Increase of process reliability
- Availability – Confidentiality – Reliability

Jointly benefit

A Gartner research shows that the correction of an error during the order process causes a 10 to 15 times higher rate to correct it than the order process itself. Even though EDI has been a well-established process for many years, the number of transferred messages is still increasing.

25 million

Rutronik's EDI portfolio is as multifaceted as the industrial sector and the markets of our customers. Rutronik speaks the language of its customers. Just as well Rutronik supports the individual EDI situation. Many different message types, all well-established EDI forms and the most important transmission channels are well known and day-to-day business for Rutronik's EDI experts.

Together with the partner a dedicated Team at Rutronik analyses the requirements and the actual situation. They develop an individual solution in order to create a win-win-situation. During the definition of the details and the adjustment of the connection the Rutronik experts follow well-established and proved processes and procedures. Of course they still have the flexibility to react to special requirements or situations.

EDI with its supplier

List of documents Rutronik is exchanging with its suppliers:

- Orders
- Order confirmations
- Order changes
- Delivery notes
- Invoices
- Stock information
- Availability information
- Sales reports
- Ship & debit reports
- Logistic reports
- Price lists
- Forecast information
- ...

EDI with its customers

List of documents Rutronik is exchanging with its customers:

- Forecast information
- Orders
- VMI handling
- Consignment removal
- Consignment refill orders
- Delivery notes
- Invoices
- Consignment
- Order confirmation
- Order change
- ...

Content format

To enable the automatic import into the customer's IT system, the data has to be transferred into a standard format. Worldwide there are a lot of different types in use. Rutronik can handle the most important:

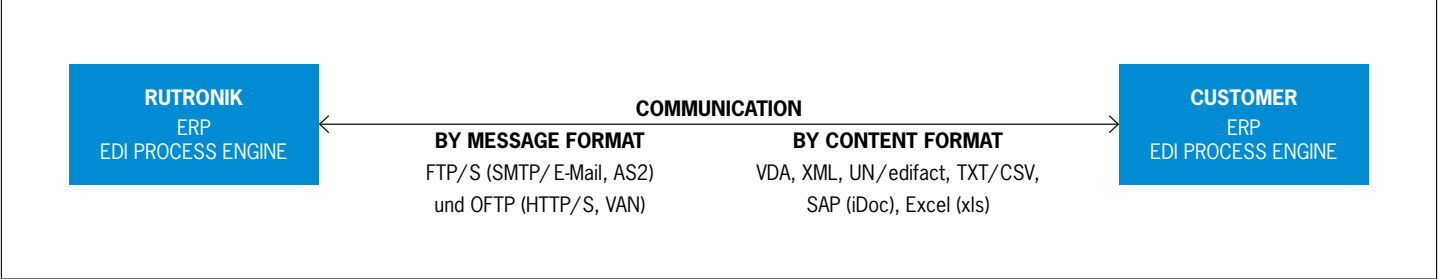
- UN/EDIFACT
- VDA
- XML
- SAP-IDOC
- OpenTRANS
- ebXML
- RosettaNet
- XLS
- CSV
- TXT
- ...

Message format

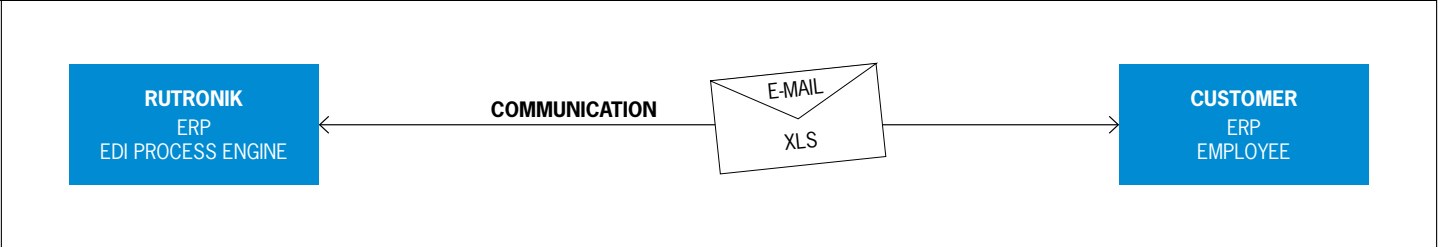
Standard protocols have been defined for a reliable transfer of data between sender and recipient. Rutronik supports all established variations:

- AS2
- FTP/FTPS
- VANs
- X400
- OFTP
- SMTP (Email)
- ...

Process



Best practice: communication with unstructured data



Best practice: message monitoring

EDIMonitoring

Status	Process	GPO	PID	PartnerID	Partnername	XML	Partner	Date	Size	Com.
RCV	geln	1550018	1550019	dlu	DVZ	F	F	2014-11-03 15:54:17	100KB	
RCV	geln	1550081	1550084	dlu	DVZ	F	F	2014-11-03 15:53:19	100KB	
RCV	geln	1550081	1550082	dlu	DVZ	F	F	2014-11-03 15:53:17	100KB	
RCV	geln	1550081	1550080	dlu	DVZ	F	F	2014-11-03 15:53:13	100KB	
RCV	geln	1550081	1550087	020201844	Oswam	F	F	2014-11-03 15:52:33	100KB	
RCV	geln	1550081	1550084	020201844	Oswam	F	F	2014-11-03 15:52:26	100KB	
RCV	geln	1550042	1550043	011011237	EDM (Entwickler)	F	F	2014-11-03 15:51:26	100KB	
SNT	edocul	1550018	1550019	1550018002	Herman Becker Karlsruhe F.UB	F	F	2014-11-03 15:50:45	100KB	
SNT	edocul	1550018	1550019	011000012	Herman Becker Ungarn	F	F	2014-11-03 15:50:40	100KB	
SNT	edocul	1550018	1550019	011000010	IMMEDI (MEDI)	F	F	2014-11-03 15:50:39	100KB	
SNT	edocul	1550018	1550019	011000011	Halla (Wiederholer)	F	F	2014-11-03 15:50:38	100KB	
SNT	edocul	1550018	1550019	011000013	Halla (Wiederholer)	F	F	2014-11-03 15:50:35	100KB	
RCV	geln	1550018	1550017	011047069	Berlin CZ	F	F	2014-11-03 15:52:46	100KB	
RCV	geln	1550018	1550017	011047069	Becher CZ	F	F	2014-11-03 15:52:34	100KB	
SNT	edocul	1550018	1550017	011000012	IMMEDI (MEDI)	F	F	2014-11-03 15:52:30	100KB	
SNT	edocul	1550018	1550017	011000014	Herman Becker Ungarn	F	F	2014-11-03 15:52:30	100KB	
SNT	edocul	1550018	1550017	011000015	Shah LUXEM	F	F	2014-11-03 15:52:29	100KB	
SNT	edocul	1550018	1550017	011000013	IMMEDI (MEDI)	F	F	2014-11-03 15:52:29	100KB	
SNT	edocul	1550018	1550017	011000015	Halla (Wiederholer)	F	F	2014-11-03 15:52:29	100KB	
SNT	edocul	1550018	1550017	011000014	Klein (MEDI)	F	F	2014-11-03 15:52:29	100KB	

Forecasts

Kunde	EDIMONITOR	Kundenname	Becher-Waerung	Status	Info
Kunde	EDIMONITOR	Kundenname	Becher-Waerung	Status	Info
Kunde	EDIMONITOR	Kundenname	Becher-Waerung	Status	Info

By setting the respective BITS we are able to specify all formats ourselves. If the data is available in a standard structure it can be processed individually without any additional programming.

EDI via Internet



Best practice: smartConsi



Messages

In order for business partners to be able to operate via EDI, they must agree on a so-called message standard. We support all common formats, such as EDIFACT (the international EDI standard which is continuously updated by the responsible UN committee), VDA (German Association of the Automotive Industry), ANSI X.12, ODETTE and many more.

EDI software

The EDI software consists of connectors and a converter. The converter is the heart of the EDI software; its task is to convert the data (messages) from the internal format of a company into a standardized EDI message format and to convert the EDI partner messages received in standard format into the in-house format. For this, we offer standard mapping and assignments for many partner/ERP systems.

Communication

After the data (message) has been converted from the internal format into a standard messaging format by the EDI software it needs to be transmitted to the designated recipient. The transmission facilities that we support include value-added networks (VANs), ISDN, etc.

Number of implements

Process	No. of partner	Direction
Master Article Data	55	out
Order	921	in
Order Change	104	in
Order Response	291	out
Stock Report	186	in
Forecast	949	in
Despatch Advice	234	out
Self Billing	58	in
Invoice	91	out
Total	2889	

Overview of the implementations

File format	No. of partner
xls	953
csv	283
txt	65
xml	251
EDIFACT	1276
IDOC	9
VDA	52
Total	2889



CATALOG

- Prices
- Delivery times
- Datasheets
- Support

SAMPLES

- Order samples online

PROCUREMENT

- Order information
- Contracts
- Traceability
- Buffer Stock
- Customer article list

MASSQUOTATION

- Automatical analysis pricelist

PCN

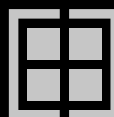
PRINTMEDIA

RUTRONIK PROCUREMENT

- Order information, Online tracking
- Offers
- Article list
- Buffer stock
- Contracts, schedule lines
- Consignment
- Traceability
- smartConsi

Visit us online
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