

SAP*ience.be* TECHday 2011 Modeling tomorrow's technology

Tailor-made E-Invoicing solution implementation at Bridgestone using SAP PI 7.0 and WebDynpro



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Rooms Kris

Lamot, Mechelen April 6, 2011

















Bridgestone Group activities and products













Tyres (84% of our total activity in 2009, growing)

- NON tyre products
- Automotive parts, such as wheels, noise absorbers, cushions, ...
- Industrial rubber products, such as belts, hoses, roofing and insulation materials, ...
- Chemical products, such as building products, foams, ...
- Sporting goods, such as bicycles, golf balls and gear, tennis balls, surf boards, boats etc.























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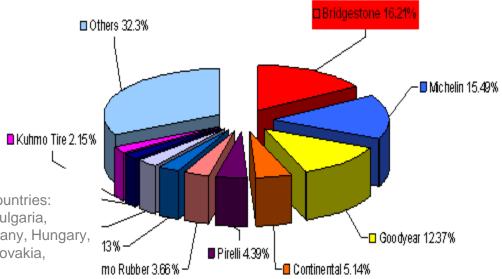


Bridgestone Europe



Bridgestone Europe NV/SA Headquarters : Brussels

Bridgestone Europe established as coordination office in 1972; became HQ in 1990.



Facilities in Europe include:

20 fully owned Sales Subsidiaries

Sales presence through 6 regions covering the following countries: Austria, Baltic Countries, Belgium, Bosnia- Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Poland, Portugal, Romania, Serbia, Spain, Slovakia, Slovenia, Sweden, Switzerland, UK, The Netherlands

2 Exclusive Distributors

Greece and Norway

9 Factories

- 3 in Spain,
- 2 in Poland
- 1 in France, in Italy, in Hungary, in Belgium
- 1 Technical centre with Proving Ground (Rome)
- 1 European Proving Ground (Rome)

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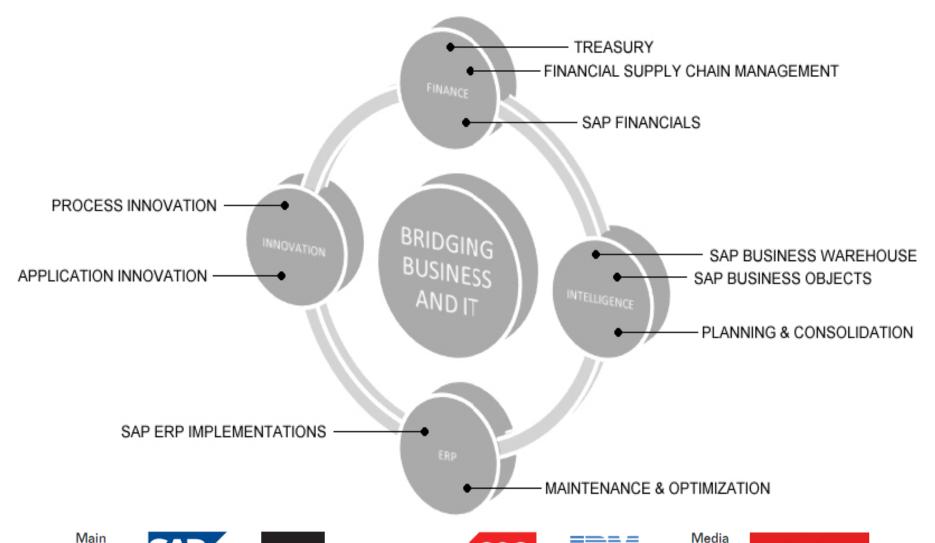
Tyre Market Share

(worldwide 2009)



Intensum





CSC

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EDI @ BSEU



Messages

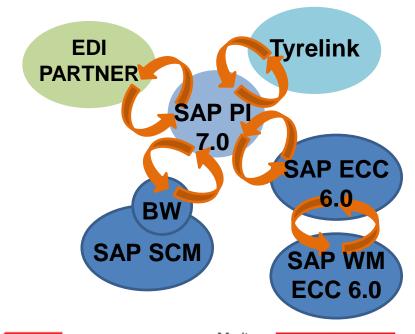
IN: ORDERS, DELINS, DELJIT, GSVERF, REMADV, ACC_INVOIC_RECEIPT

OUT: ORDRSP, DESADV, SHPMNT, INVOIC, DIRDEB, PAYEXT, PRICAT, ZSTATA

> 150 mappings in PI with customers, carriers, suppliers, payment organisations, banks

Statistics

Asynchronous: 40.000 / day Synchronous: 20.000 / day









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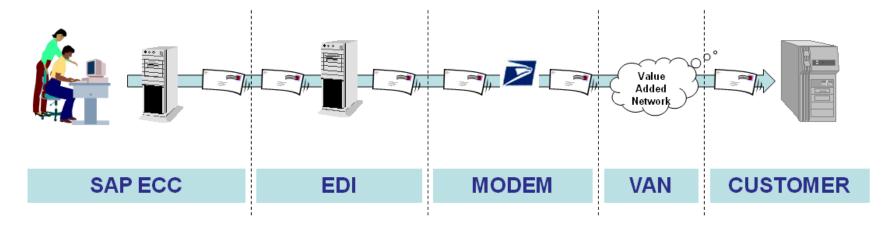


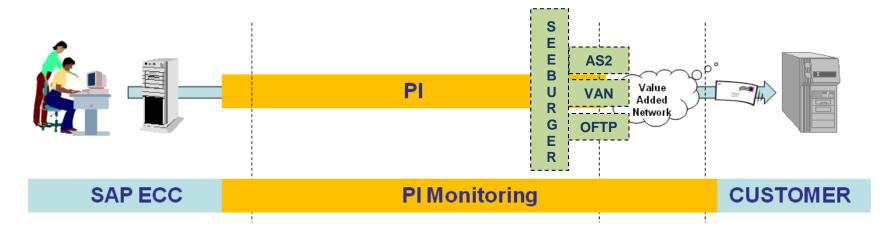


EDI @ BSEU









INTENSUM DOCUMENT TRACKING

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Intensum Document Tracking



Flexibel

User Friendly
End-to-End Monitoring Tool for
IT User, Key User, End User
Fast Tracking of

Selection						
From date:	3/9/2011	7	To date:		7	Document number
From time:	00:00:00		To time:	23:59:59		IDoc number:
Status:		• •	History:	\bigcirc on	● off	Message type:

Asynchronous and Synchronous Messages
that are in error or succesfully posted
Based on Document nb or other search functionalities
Performant Filtering and grouping

Data is persistent
Authorization Concept
No sensible information is displayed

Possible to track documents over different interfaces / Cross System Monitoring Data can be archived independent of PI messages







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Paperless e-Invoicing



- Digital paperless e-Invoicing: means that the electronic invoice is legally accepted and there is no more paper documents exchanged.
- DEMAT is the French denomination for "Digital Paperless Electronic Invoicing" eg. in FR: "DEMATéralisation de factures"
- The French DEMAT process is specific to France and it is used by many customers since a long time. It does NOT require a digital signature. The major legal requirements are:
 - to have the legally requested information in the electronic messages
 - to be able to visualize the electronic message in a human readable way for the legal authorities
 - the archiving system must ensure that the messages can not be changed once archived.
- For consistency reason, it is advisable to have the same check rules on both sides







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Some rules must be followed to respect the FR law for the storage:

- The FR public administration can control whenever they want the documents and they must be made accessible.
- The layout of presenting the content of the document is not regulated BUT the legal information MUST be shown.
- The physical storage can be in France or could be in a partnership country (meaning this country has signed a special agreement with the FR public administration; example European community countries)
- Archiving for minimum 6 years for EDI, 10 years for business document (paper based)
- Not all invoice types must be in demat, you can start partial demat (example normal invoices yes, credit notes no), but both parties MUST be aligned.







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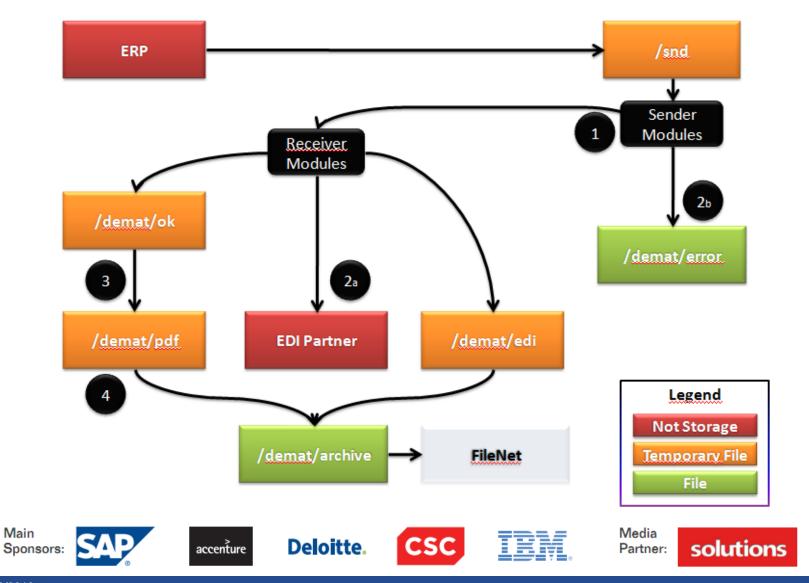






BRIDEMAT







BRIDEMAT



PI

- PI Graphical Mapping: IDOC to EDIFACT/XML
- Seeburger BIC Mappings : EDIFACT/XML to EDI Conversion
- XPATH: check DEMAT mapping
- ABAP RFC FM :
 - Z_DEMAT_CHECK_PARTNER, Z_DEMAT_UPDATE_SUMMARY
- Enterprise Java Beans
- Java Mapping Programs: PDF Creation
- Java Adapter Modules :
 - Monitoring updates, Validation, Indexing, Archiving

WEBDYNPRO JAVA

Intensum Document Tracking extended for DEMAT







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Typical question:

My customer claims that he did not received my invoice.

What should I do?



















Input screen

Selection									
From date:	3/9/2011	7	To date:		7	Document number:	7141662230	Ref. document number:	
From time:	00:00:00		To time:	23:59:59		IDoc number:		Ref. IDoc number:	
Status:		()	History:	O on	● off	Message type:		Partner:	

green = OK

red = Error







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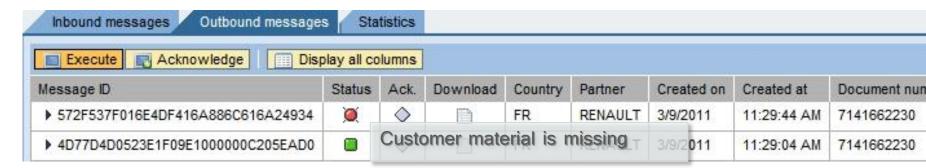








Result



- Bottom line: IDoc to file (EDIFACT)
- Top line: Check Mapping DEMAT







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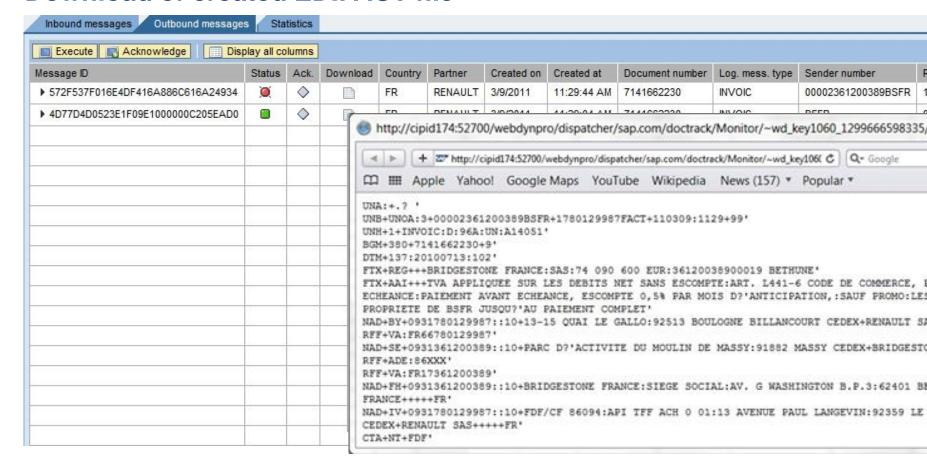








Download of created EDIFACT file



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Result



The four steps to check the whole process:

- 1st line mapping of IDoc to file (EDIFACT)
- 2nd line mandatory fields check result
- 3th line Creation of the PDF file (via mapping)
- 4th line Creation of the INDEX file (needed for archiving)







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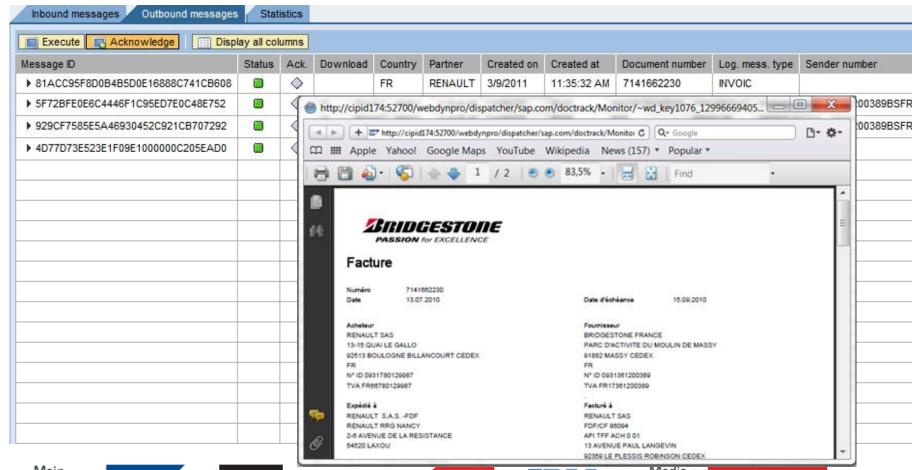








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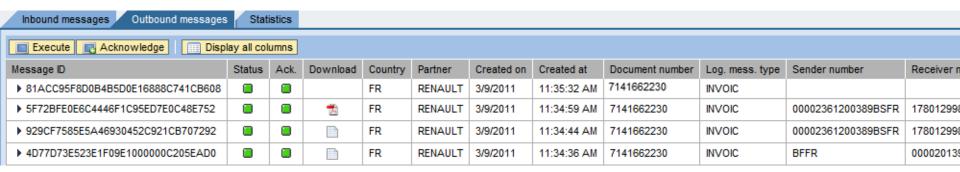
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Acknowledgment of flow



→ Delivered at receiver side





















Country	Partner	Mesage type	Adapter type	File size	Entries	Status indicator	Entries / Percentage	Entries / Percentage
DE	MAN	INVOIC	File	3.054 KB (0.003 MB)	14		14 (100.0%)	0 (0.0%)
DE	MBA	DESADV	OFTP	0.000 KB (0.000 MB)	2		2 (100.0%)	0 (0.0%)
DE	MBA	ORDRSP	File	0.000 KB (0.000 MB)	3		3 (100.0%)	0 (0.0%)
DE	POINT S	DESADV	File	0.524 KB (0.001 MB)	1		1 (100.0%)	0 (0.0%)
DE	POINT S	ORDRSP	File	0.362 KB (0.000 MB)	4		4 (100.0%)	0 (0.0%)
DE	TOYOTA	ORDRSP	OFTP/IDSN	1.352 KB (0.001 MB)	17		17 (100.0%)	0 (0.0%)
DE	TOYOTA	PRICAT	OFTP/IDSN	0.000 KB (0.000 MB)	4		4 (100.0%)	0 (0.0%)
ES	CROSSGATE	SELFBILL	File	308.291 KB (0.301 MB)	17		11 (64.8%)	6 (35.2%)
ES	CROSSGATE	SELFBILL	Soap	648.141 KB (0.633 MB)	3		1 (33.4%)	2 (66.6%)
ES	MAPFRE	INVOIC	File	0.000 KB (0.000 MB)	10		8 (80.0%)	2 (20.0%)
FR	MASSA	DESADV	File	0.849 KB (0.001 MB)	1		1 (100.0%)	0 (0.0%)
FR	PSA	DESADV	GXS	0.000 KB (0.000 MB)	1		1 (100.0%)	0 (0.0%)
FR	RENAULT	INVOIC	Edifact	14.976 KB (0.015 MB)	26		7 (27.0%)	19 (73.0%)
FR	RENAULT	INVOIC	File	14.976 KB (0.015 MB)	33		33 (100.0%)	0 (0.0%)
PL	NOWAKOWSKISZYMANSKI	INVOIC	File	7.241 KB (0.007 MB)	2		2 (100.0%)	0 (0.0%)
PL	OPONY	DESADV	FTP	0.000 KB (0.000 MB)	2		2 (100.0%)	0 (0.0%)
PL	OPONY	DESADV	File	0.000 KB (0.000 MB)	7		7 (100.0%)	0 (0.0%)
PL	TOYOTA	INVOIC	File	74.802 KB (0.073 MB)	15		15 (100.0%)	0 (0.0%)
PL	VWFASSTEK	DESADT	File	0.000 KB (0.000 MB)	6		5 (83.4%)	1 (16.6%)

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Conclusion



The **BRIDEMAT** solution helped Bridgestone to

- Achieve customer satisfaction and respect the legal requirements
- Lower the TCO
- Have a easy tool to monitor the e-invoices, usable for end users (reduce time spend of the highly specialized IT skills on monitoring).
- Be more flexible on future changes/demands.

















Thank you!

