





ERPEL Enterprise Registry Permitting Enterprise Liaisons or ERP Exchange Language

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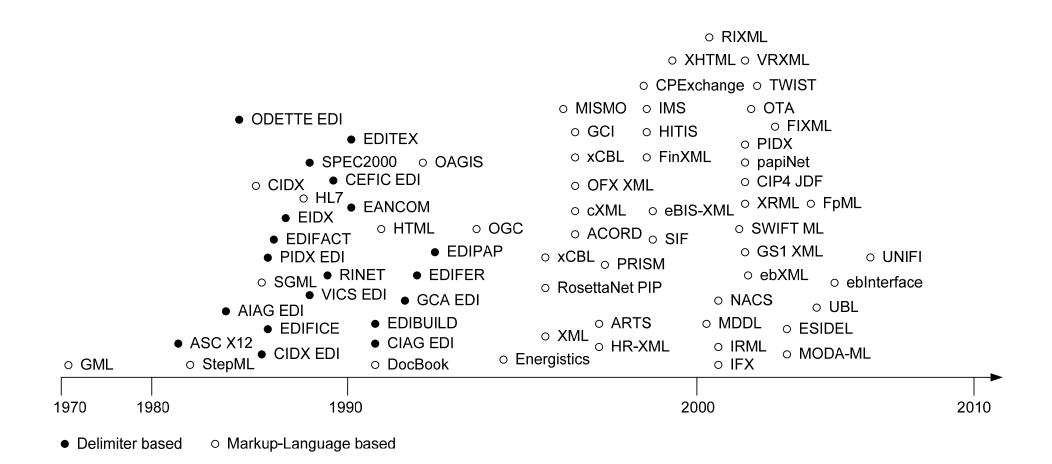
Health Warning

- This is not an academic paper presentation
- The presentation is rather about experiences and opinions of an academic participating in the standards world and creating a start-up company
- Statements in this talk are not scientifically justified
- Not agreeing to this statements may cause a headache ;-)



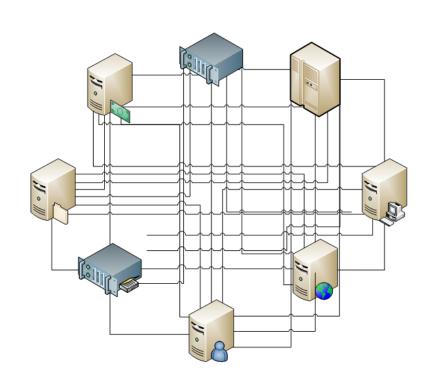


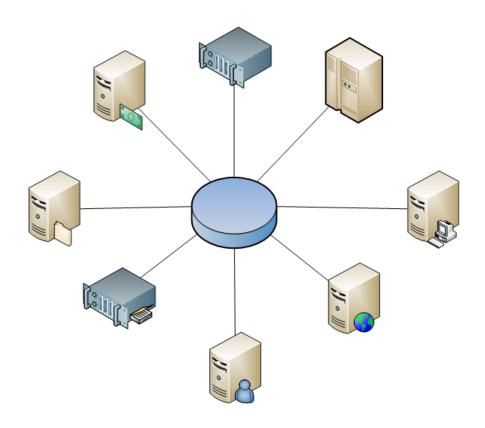
Standards over time





The way we build standards has not changed

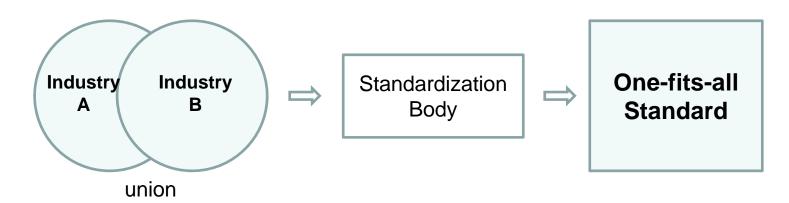




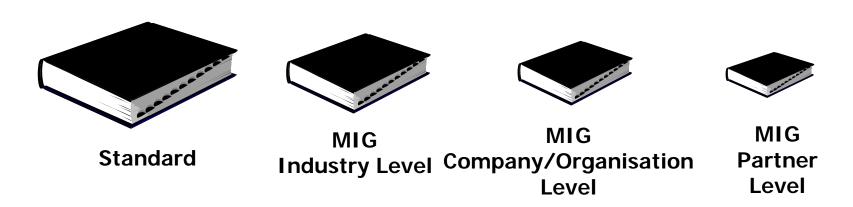


Traditional EDI Standardization Approach

The "Union" Approach



... and its proprietary customization

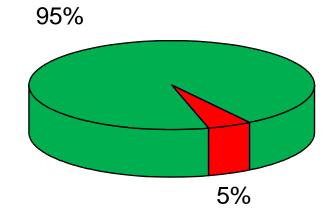




EDI Users

Fortune 1000

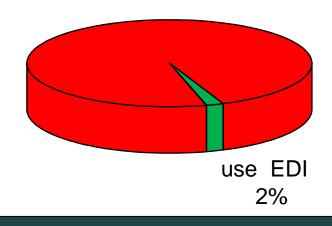
using EDI



... will not change this situation

Small-and-medium sized enterprises

98% able to participate in e-Commerce



EDI is too expensive to implement



Types of Businesses

Usual classification

- Large enterprises
- Medium-sized enterprises
- Small-sized enterprieses
- Micro enterprises

EU classification

	Medium	Small	Micro
Employees	<250	<50	<10
Turnover	<40 Mio €	<7 Mio €	-
Balance sheet total	<27 Mio €	<5 Mio €	-



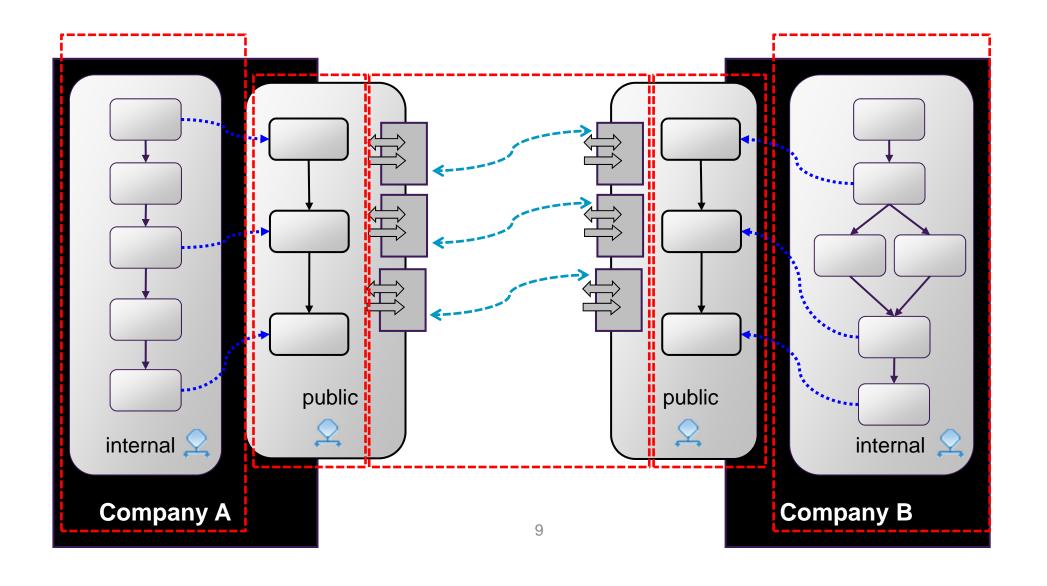
Types of Businesses

Information scientist's classification:

- Large Enterprises
 - o run business applications
 - o develop software or customize software, i.e.,control their interfaces
 - o more or less able to participate in B2B
- Small and Medium Enterprises
 - o run business applications
 - o buy (or rent) off-the-shelf software
 - o Need Off-the-Shelf Software with B2B Functionality
- Micro Enterprises
 - o do NOT run business applications
 - o act similar to consumers and are satisfied with "browser-based" e-commerce

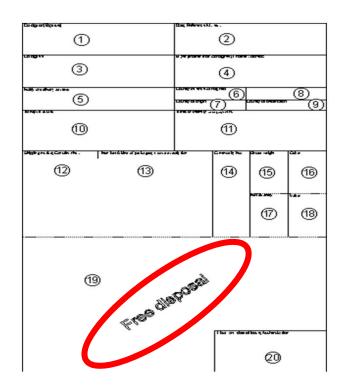


Focus of the change



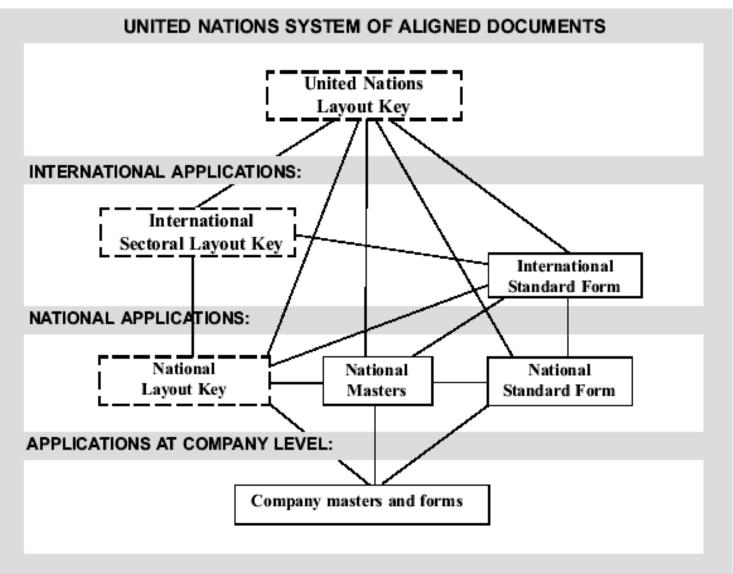


UN/Layout Key





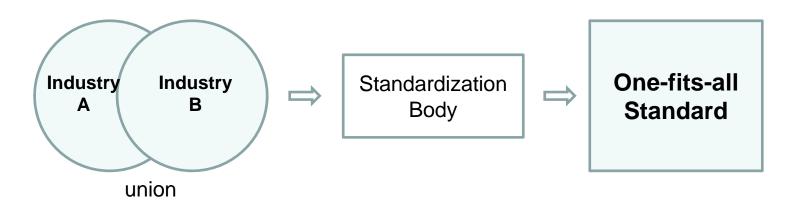




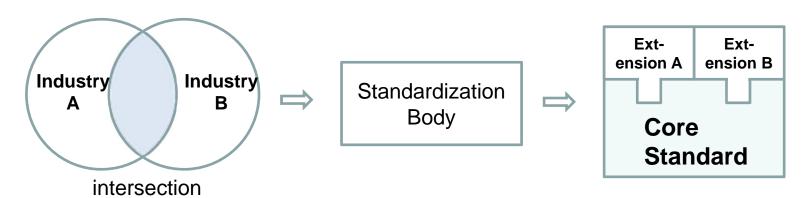


Standardization: Union vs Intersection

The "Union" Approach

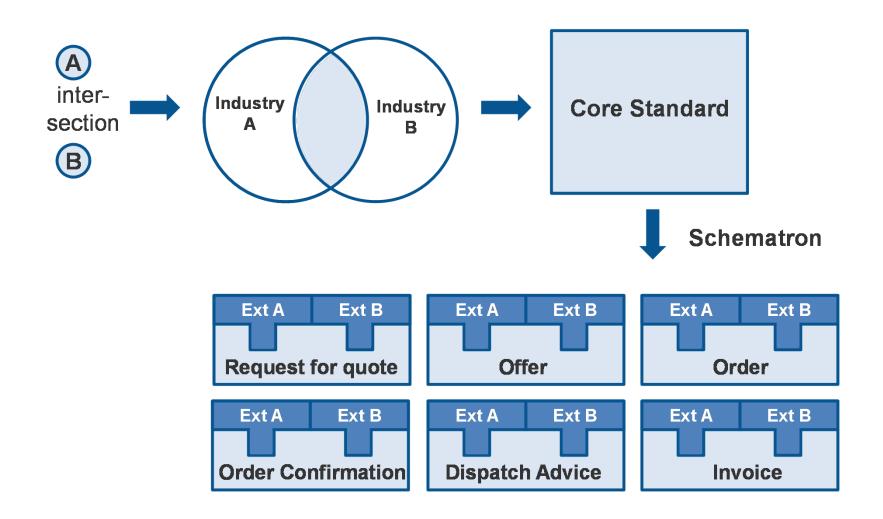


The "Intersection" Approach





ERPEL business documents





Strategic Alliance













Challenges in B2B interactions: No central registry available



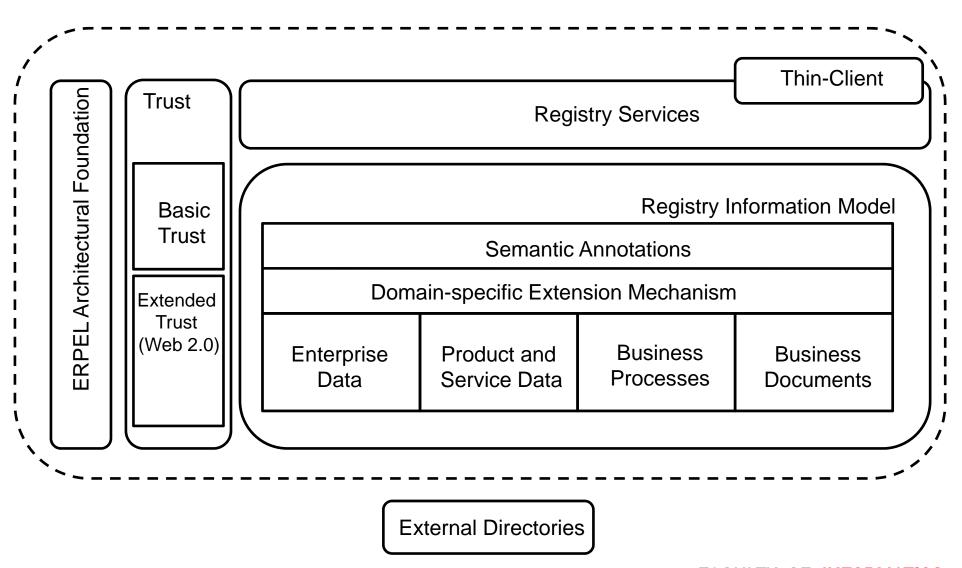
- Where is the company located?
- What kind of business is the company doing?



- Which (technical) services does the company offer?
- Which electronic business document types does the company accept?
- What are the product codes of the products the company offers?



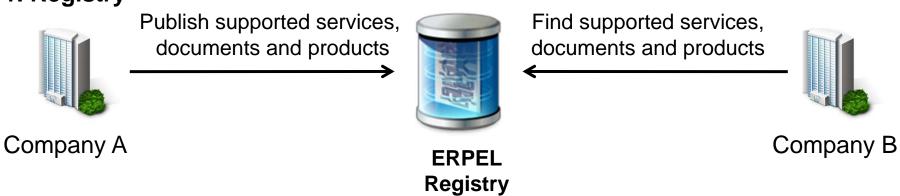
The ERPEL Registry Architecture



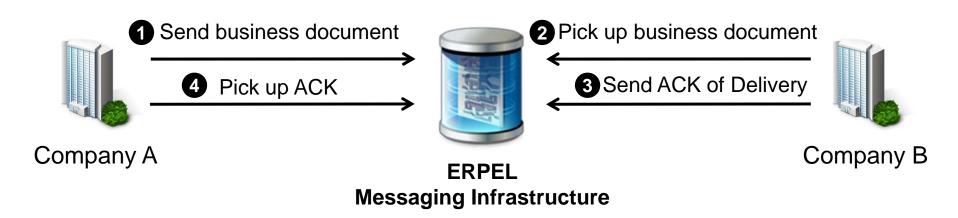


Now what does ERPEL provide in order to help enterprises to connect?

1. Registry



2. Messaging





ERPEL follows an "open-platform" approach





Individual enterprise software

Conducktor Apps

- Archiving
- Digital signature
- Document transformations
- ..

Small enterprises and sole proprietors



ENTE Smart Client

Medium-sized enterprises



Standardized "off-the-shelf" Enterprise Software



Conducktor platform



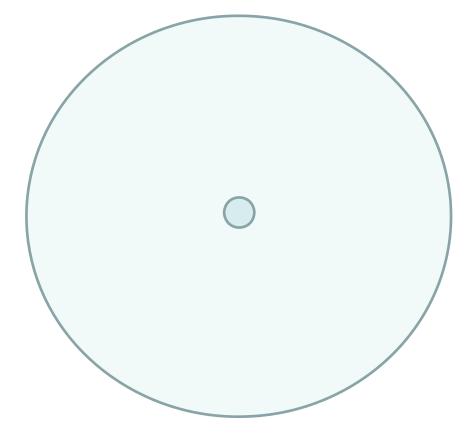
No ERP system or not yet partner in the Conducktor network

ERPEL apps allow for a multitude of add-on features



Standards and their usage

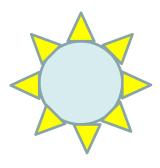
Union Standardization Approach



Standards Usage



Intersection Standardization Approach



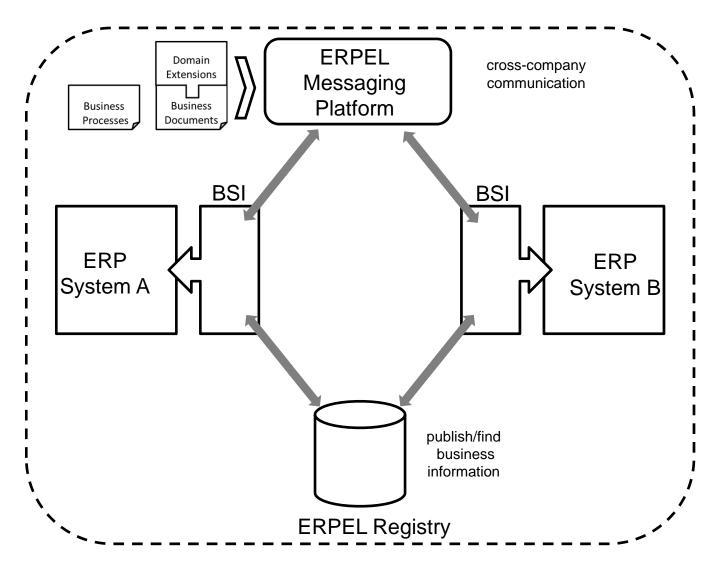
ecosio business interchange







The ERPEL Messaging Infrastructure





The ERPEL Messaging Protocol

