

Flexible B2B Communication?

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Why B2B communication?

- 17% of the work in organisations is spent for routine administration, 50% of this administrative work can be avoided if we interconnect business information systems (a saving potential of € 40 000 M for Holland alone)
- Manual interventions delay business processes and make them error-prone, while supply chains must react instantly on market developments
- Supply chains consist of many parties (because of localisation and outsourcing)
- Supply chains form one large international network



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IIGS

ODETTE

Present paradigm

- Standardization committees design message scenarios
- Scenarios are adopted and manually adapted by businesses

Scenarios are implemented in business software (on a case to case basis)



Why doesn't the paradigm work?

- The business world is too complicated to standardize, the architecture is not scalable
- Business is so diverse, that business software can never support all applicable, 'standard', B2B messages
- Companies must constantly innovate, deploy new technology, processes and involve different partners
- Business is not about consensus, but about competition, also in logistics and business processes
- Standardization is too slow, it cannot keep up with innovation pace



New paradigm

- B2B Message scenarios are negotiated among businesses
- Scenario negotiation is supported by business software
- Scenarios are instantly implemented, without hiring consultants or software engineers





Let systems negotiate

- Businesses expose their requirements and capabilities, both technically and business-wise
- Business systems negotiate and agree on the bilateral business process
- Agreed business processes are instantly deployed
- Negotiation and run time processes use a universal B2B exchange language (which may be mapped on existing syntaxes)



Systems are just like people

- All modelling and exchange languages are derived from natural language
- In natural language we may define new concepts and new processes
- A universal exchange language should support definitions, not only observations



Systems are just like people

I want to buy klinknagels

What is a "klinknagel" ?

A klinknagel is a pin to fasten two plates

Ah, ok, we call it a rivet, GTIN 12345, they cost 10 euro per kg

Business system Ok, send me 100 kg by Nov 15

Will do, payment is due Dec 15

Deal



Business system



Utterance structure







Business systems



Next steps

- Pilot to show the architecture is feasible
- Let business system providers expose the capabilities and requirements of their systems
- Teach business people how to expose their policy
- Turn presently standardised message scenarios into basic ontologies
- Convince business people that the business conducted with their systems is *their* business and not the IT people's business



