



Material Composition –using RosettaNet approach

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NEMI / Material Composition meeting

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RosettaNet Material Composition Program

Outline

- Why do we need Material Composition
- History and status in Europe
- RosettaNet -solution



Why do we need Material Composition

Main reasons:

- Satisfy legal and regulatory requirements
- Drive environmental improvements in product design
- Respond to inquiries from customers, product recyclers and other stakeholders

As a summary many companies have started Material Composition activities

History: Scope

Scope:

”To develop a common Supply Chain Management approach for the electronics industry which simplifies data collection for both requestor and the supplier providing the data.”

1999 G Adams

- Definition of a common approach for material composition exchange.

European development

- Material Composition work started in ECTEL 1999
- It was continued in EICTA Supply Chain Management task force
- 2002 it was divided into two streams:
 - List development
 - Tool development
- List development -> Joint task force between EIA/EICTA/JGPSSI
 - EICTA SCM was closed in spring 2004
- Tool development -> RosettaNet Material Composition Program

The Problem

- Current status
 - Lots of different solutions (typically Microsoft Excel-based)
 - Data model used in these solutions varies
 - Typically a separated action
- No standardization
- Resulting:
 - ⇒ Unnecessary efforts needed in supply-chain
 - ⇒ Inefficiency
 - ⇒ Unnecessary costs
- This is currently mostly the case in Europe

Why RosettaNet

- Standard solution
 - RosettaNet is a global, industry wide framework for e-business standards
 - RosettaNet PIPs are based on standards (Internet, XML,...)
- Efficient solution
 - Flexible
 - Inexpensive
 - Decentralized
 - Human efforts can be optimized
- Enables integrated approach
 - Material Composition -> Part of normal business (design, component choices,...)
- Support
 - RosettaNet PIP factory

Partner-to-Partner Electronic Business Interface

Company A

Company Specific
processing



Translate
material/substance
data to
RosettaNet
standards
from Company A
system data set.

Internet & XML



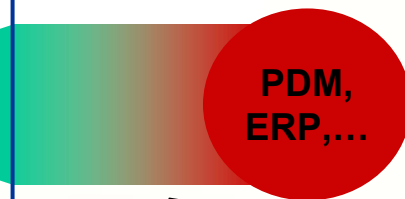
RosettaNet defines processes and a framework for how data gets passed over the Web and certain handshake criteria.

It does not take any opinion which kind of data is transferred inside general framework

It does not specify any IT-tool that every company must use (companies can use whatever tool or services they want provided that PIP-specs are fulfilled)

Company B

Company Specific
processing



Translate from
RosettaNet standards
to Company B
system data set.

RosettaNet PIP® for Material Composition

- Content
 - Includes necessary definitions and documents for information exchange and software development and implementation
 - Data model is flexible -> Enables simple and complex type declarations
 - Data model and the content are totally separated (e.g. PIP does not include any definitions concerning individual substances, thresholds)
- PIP 2A10 already published
- PIP 2A13 validation started
 - Involved companies: Nokia, Ericsson TI, NSC
- Will be free for everybody to use (= no licence etc. fees)
- PIPs are logically similar, the choice is dependent on technical capabilities/decisions (= choice between RNTD or RNBD –approaches)
- Information available: www.rosettanet.org

Implementation

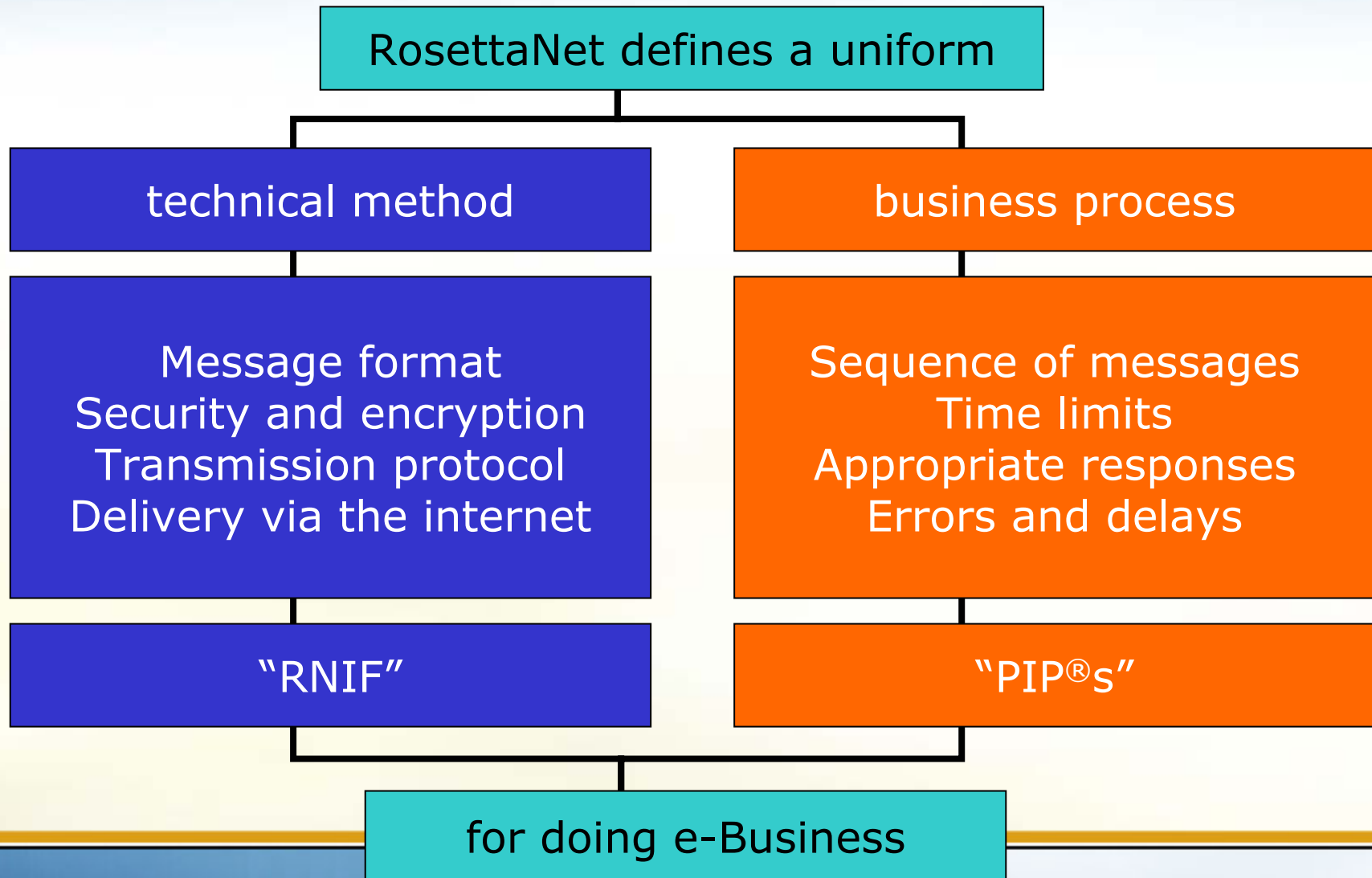
- Develop RosettaNet gateway
 - This already exists, if a company has implemented RosettaNet PIPs
- Develop Backend system
 - Where to store information, how to display it, tools,...
 - This is the biggest IT –task and company dependent
- Develop business processes
 - Who, when, what, how,...
- Organize support
 - Training
 - Internal documents
 -
- Note: Most of these tasks companies have to do in any case, if they decide to gather Material Composition



Thank you!

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What does RosettaNet do?



E-Business Exchange

**human-to-human
business exchange**

**Partner-to-Partner
eBusiness exchange**

Telephone	Ecom Application
Business Process	eBusiness Process
DIALOG	PIP®
Grammar	Framework
Words	Dictionary
Alphabet	XML
Sound	Internet

RosettaNet