

23rd of Oct. 02

Agenda

- Electronic Business Interface
- What is RosettaNet and what it is for Nokia
- RosettaNet Programs
- Challenges & Lessons learnt during the CoPla implementation
- Benefits
- Why is Rosettanet called Rosettanet

Partner to Partner Electronic Business Interface

Company A

Company Specific processing



Translate from Rosettanet standards to 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.

Company B

Company Specific processing



Translate from Rosettanet standards to Company B system data set.



The RosettaNet Vision, Mission



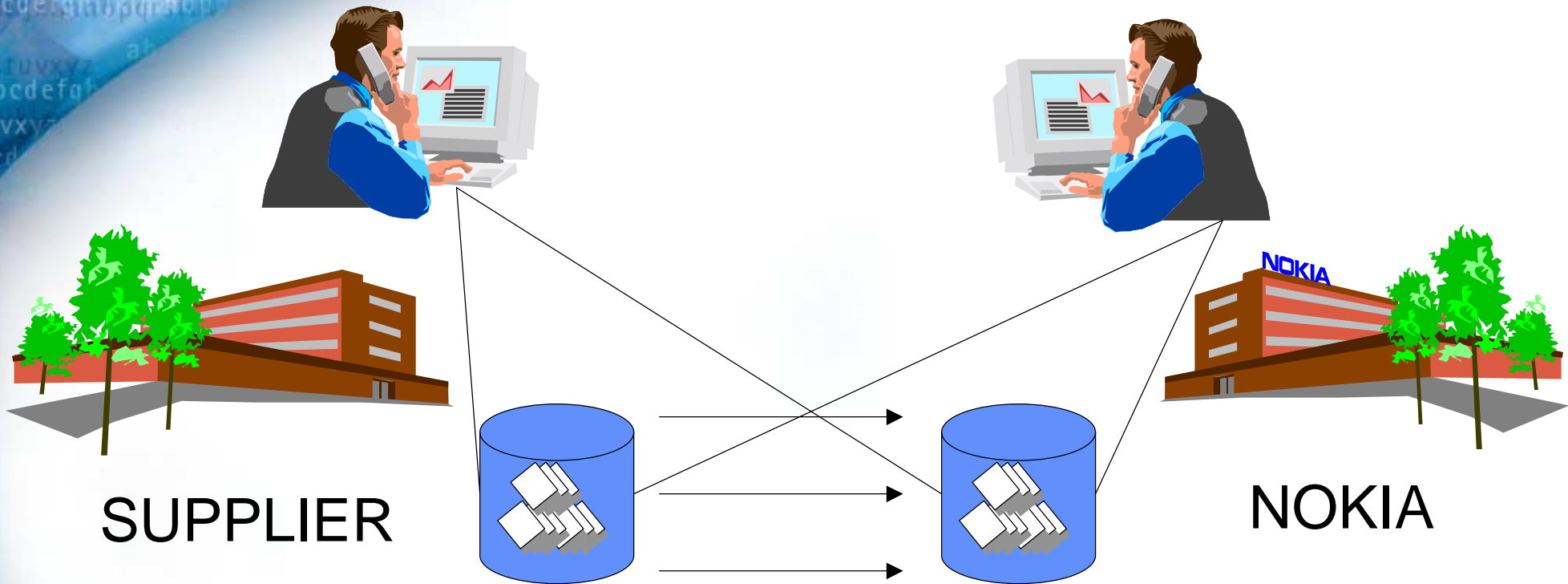
Vision:

The Leader in **global**
e-business **standards**

Mission:

RosettaNet drives collaborative development and **rapid** deployment of internet-based business standards, creating a common language and **open** e-business processes that provide measurable **benefits** and are vital to the evolution of the global, high-technology trading network.

Final Goal: Integrated Business Processes Conducted On-line



SUPPLIER

NOKIA

On-line Business processes between:

- Human-to-human
- System-to-human/human-to-system (WEB)
- **System-to-system (RosettaNet)**

Millions of components every hour

eBusiness Tools for doing business with Nokia

Exists



Electronic Data Interchange

Existing standard. Nokia recognises that EDI is needed by some partners, and will be supported accordingly

In production



Nokia Global Supply Web

NGSW is Nokia's web marketplace. Easy to set up and operate, but does not deliver a system to system connection

Under deployment



ROSETTANET
Lingua franca for eBusiness

Rosettanet is a non-proprietary XML protocol allowing system to system connections. Nokia is committed to integrate business process with Rosettanet standard.

Purpose of RosettaNet work in Nokia

- Use **RosettaNet standard** for business process and system integration with external business partners
- Use **RosettaNet processes** and process interfaces as a guideline for Nokia internal process development and modular business platform development
- Actively **participate to RosettaNet** work and drive standard development to make sure it is **supporting Nokia business** requirements and needs
- **Emphasize Nokia business partners** to join RosettaNet and apply that as a standard for business process and system integration

Business Processes

Customer

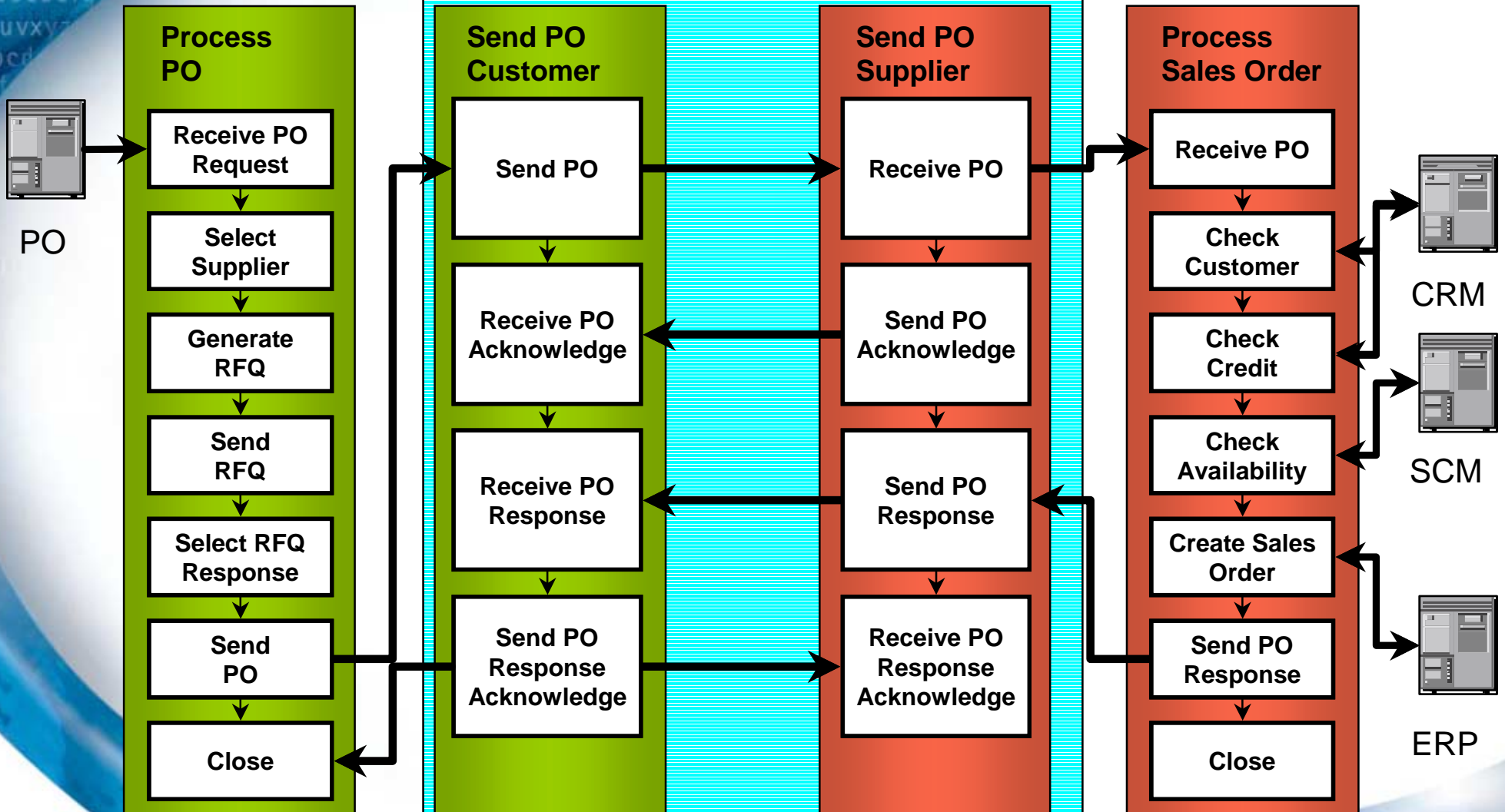
Supplier

Private process
(Company -specific)

Public process
(Standard)

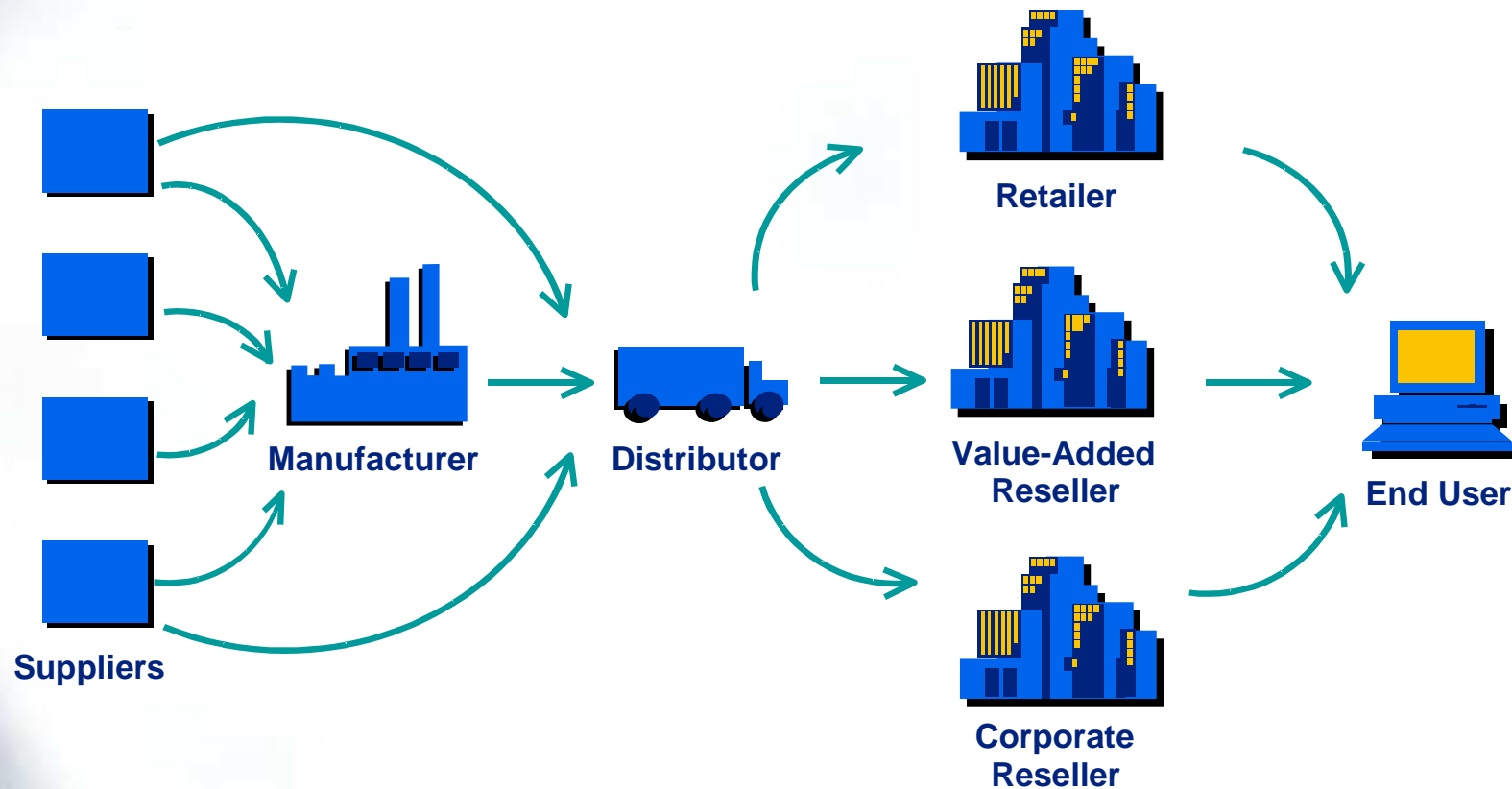
Public process
(Standard)

Private process
(Company -specific)



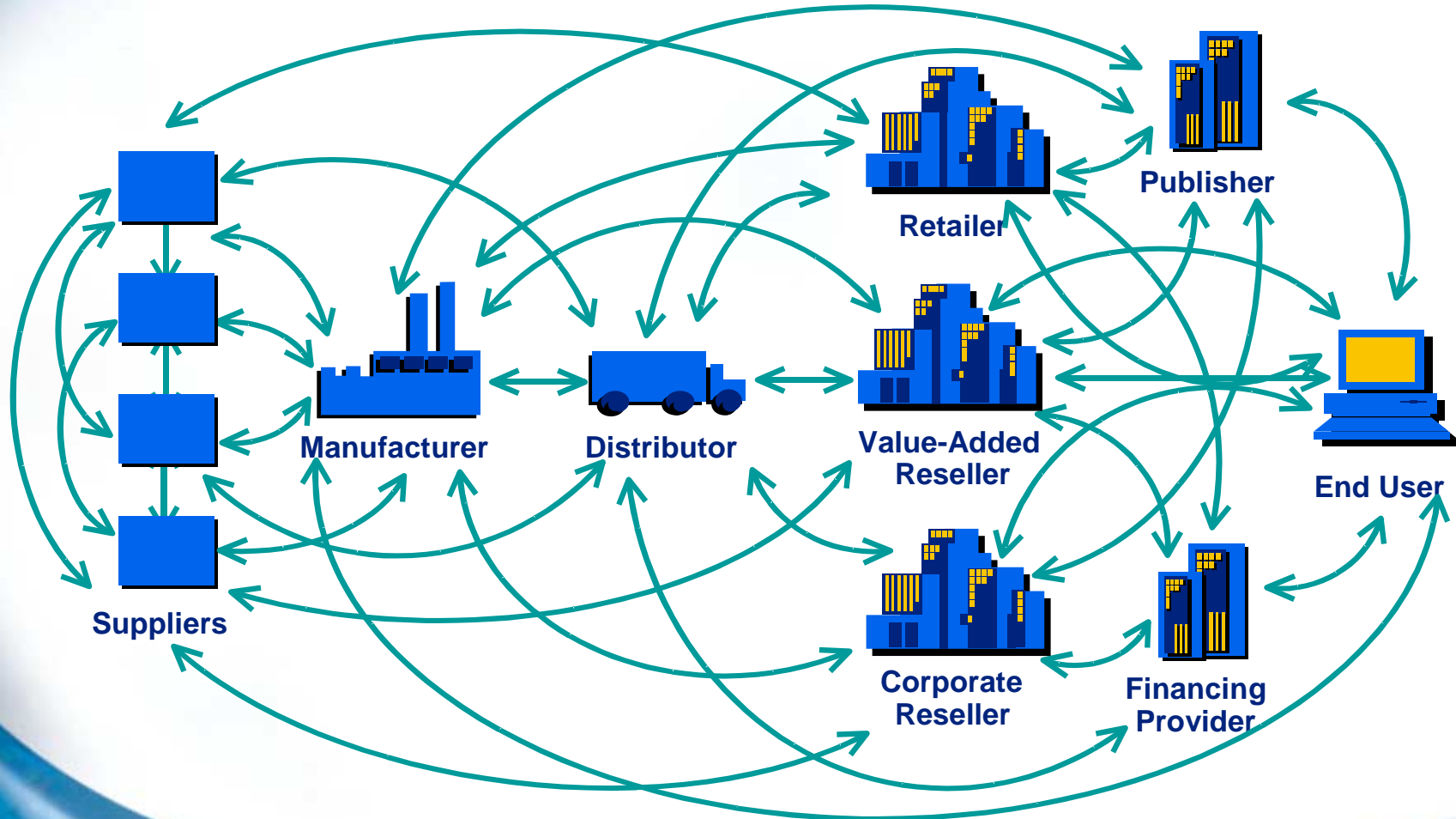
Industry Trends - Supply Chain Transition

Transition from Linear Supply Chain...



Industry Trends - Supply Chain Transition

..... to Dynamic Supply Chain Networks



Information Exchange Standards

Message-centric

- Batch
- 10% of B2B processes
- VAN-enabled
- X.12/EDIFACT/JECALS
- Regional
- Large businesses
- Custom industry dictionaries

Process-centric

- Real-time
- 100% of B2B processes
- Internet-enabled
- XML
- Global
- All businesses
- Standard industry dictionaries



The Key Elements of RosettaNet

PIP™s – Partner Interface Processes – define business processes between supply-chain companies, providing the models and documents for the implementation of standards

- **Dictionaries** - provide a common set of properties for PIP™s & designates the properties used in basic business activities.
- **Product & Partner Codes** - Working in conjunction with RosettaNet dictionaries are product and partner codes, including the Data Universal Numbering System (D-U-N-S), Global Trade Item Number (GTIN) and United Nations/Standard Product and Services Code (UN/SPSC).
- **RNIF** - An open, common networked-application framework, the RosettaNet Implementation Framework (RNIF) provides common exchange protocols that enable the implementation of PIP™s.

Partner Interface Process™ (PIP™)

- Depict activities, decisions and interactions that fulfill a business transaction
- Specify structure and format of business document payloads
- Organized by clusters and segments

Cluster 0: RosettaNet Support	Cluster 1: Partner, Product and Service Review	Cluster 2: Product Information	Cluster 3: Order Management	Cluster 4: Inventory Management	Cluster 5: Marketing Information Management	Cluster 6: Service and Support	Cluster 7: Manufacturing
Segment 0A: Administrative	Segment 1A: Partner Review Segment 1B: Product and Service Review	Segment 2A: Preparation for Distribution Segment 2B: Product Change Notification Segment 2C: Product Design Information	Segment 3A: Quote and Order Entry Segment 3B: Transportation and Distribution Segment 3C: Returns and Finance Segment 3D: Product Configuration	Segment 4A: Collaborative Forecasting Segment 4B: Inventory Allocation Segment 4C: Inventory Reporting Segment 4D: Inventory Replenishment Segment 4E: Sales Reporting Segment 4F: Price Protection	Segment 5A: Lead Opportunity Management Segment 5B: Marketing Campaign Management Segment 5C: Design Win Management (EC) Segment 5D: Ship from Stock and Debit (EC)	Segment 6A: Provide and Administer Warranties, Service Packages and Contract Services Segment 6B: Provide and Administer Asset Management Segment 6C: Technical Support and Service Management	Segment 7A: Design Transfer Segment 7B: Manage Manufacturing WO & WIP Segment 7C: Distribute Manufacturing Information

RosettaNet Business & Technical Dictionaries

- Ensures consistent information exchange during PIP™ execution
- Technical dictionary (form, fit, function)
 - - Specifies common product properties
- Business dictionary
 - - Specifies common partner properties
 - - Enables partners to identify one another
- Shares common standards
 - - E.g., Global Trade Item Number (GTIN)

RosettaNet Implementation Framework (RNIF) Core

- Defines RosettaNet Object (RNO)

Specifies how to transport RosettaNet Object between trading partners' network applications

- Version 2.0 features and benefits:
 - - HTTP and SMTP transfer protocols better support for e-marketplaces
 - - Support for .pdf, .gif files - can send complex documents
 - - Support for S/MIME v.2 - greater security, privacy and authentication

RosettaNet Programs

- **Milestone Programs**
Led by RosettaNet's global EC, IT and SM Boards, these programs drive rapid development and deployment of **Partner Interface Processes™ (PIPs®)**.
- **Foundational Programs**
Foundational Programs continually enhance the quality and adoption of RosettaNet standards for the global trading network.

The 10/10 Milestone

- **Collaborative Forecasting**

The Collaborative Forecasting program allows trading partners to improve the match between supply and demand throughout the EC and IT supply chains. With a shared commitment to collaborative forecasting in the EC and IT trading network, companies can significantly reduce inventory, increase product turns, and improve on-time delivery and customer satisfaction. This is the basis of RosettaNet's Collaborative Forecasting program -- deploying RosettaNet Partner Interface Processes™ (PIPs™) that allow partners to share information affecting materials management decisions.

- **Implementation Milestone**

At least 15 EC and IT Board Member companies in production with at least two partners using forecast/ response dialog by 10.10.2001.

- ST, TI, Philips and NOKIA fulfilled this Milestone in time.

Implementation Approach

- Get high-level business approval/commitment
- Gather Project Team (Appoint Project Mgr.)
- Kick-off
- Identify PIPs (4A1 in scope?)
- Joint data analyses (PIP contents)
- Create joint project plan
- Analyse internal applications (data available)
- The rest is up to your and our IT department....

Challenges in Implementation

- Keep all concerned parties informed during project (e.g. bulletins)
- Must have good quality data to enable e2e tests.
- Go through the details of the PIP definitions jointly with your partners
- All Parties involved should appoint single contact point (project Mgr.)
- Kick-off meeting needs key people from the business and IT
- Need to ensure that the partners attendees have the right level of authority to make decisions.
- Difficult to deal with parties in different time zones.

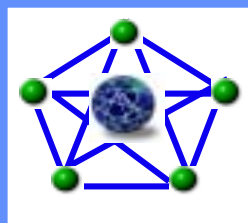


Benefits

With system integration we guarantee data integrity and security.



Common process throughout The supply chain



Improve visibility in the demand-supply network

Minimize the manual work in plants by automated transactions



Save money by doing b2b transactions over the web



Ability to react faster to changes in the supply chain



Why RosettaNet is called RosettaNet?



The name of RosettaNet originates from

The Rosetta Stone (196 BC), which provided the key to solve the mystery of hieroglyphs. The Rosetta Stone is the only surviving fragment of a stela bearing a decree written in three languages: Greek, Demotic and Hieroglyphs.

The Rosetta Stone was probably originally erected at the temple of the city of Sais, later in the medieval period moved to Rosetta (aka el-Rashid), where it was discovered in July 1799 by Pierre François Xavier Bouchard.

The Rosetta stone is now located at British Museum in London.

Thank you!
Questions?

Matthias Gehrken, Nokia

