

Internet as an E-business Backbone for Small and Medium Size Enterprises

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INTRODUCTION



Accelerating the adoption of industry standards



The XML Industry Portal
SPONSORS: IBM, Sun, Oracle, SAP, ...
“how to apply XML in industrial and commercial settings”.





ebXML vision



- *‘Provide an open XML-based infrastructure enabling the global use of electronic business information in an interoperable, secure and consistent manner by all parties.’*



Why ebXML



- Enables globalisation in world economy
- Flexible, expandible architecture
- Interoperability
- Uses the Internet as an e-business backbone



Strategy



- Uses OASIS and UN/CEFACT to ensure global open standard
- Developing technical specifications for open ebXML infrastructure
- Cooperation with other developing initiatives and organizations



ebXML concept



UN/CEFACT



- **Standard mechanism for description of business processes**
- **Mechanism for registration and storage of meta models**
- **Mechanism for storing information about trading companies**
- **Mechanism for business agreement (CPA)**
- **Standardized Messaging Service**



ebXML technologies



UN/CEFACT



ebXML

UML, UMM

XML Security, PKI, CA

Java, XML, SOAP

HTTP, SMTP

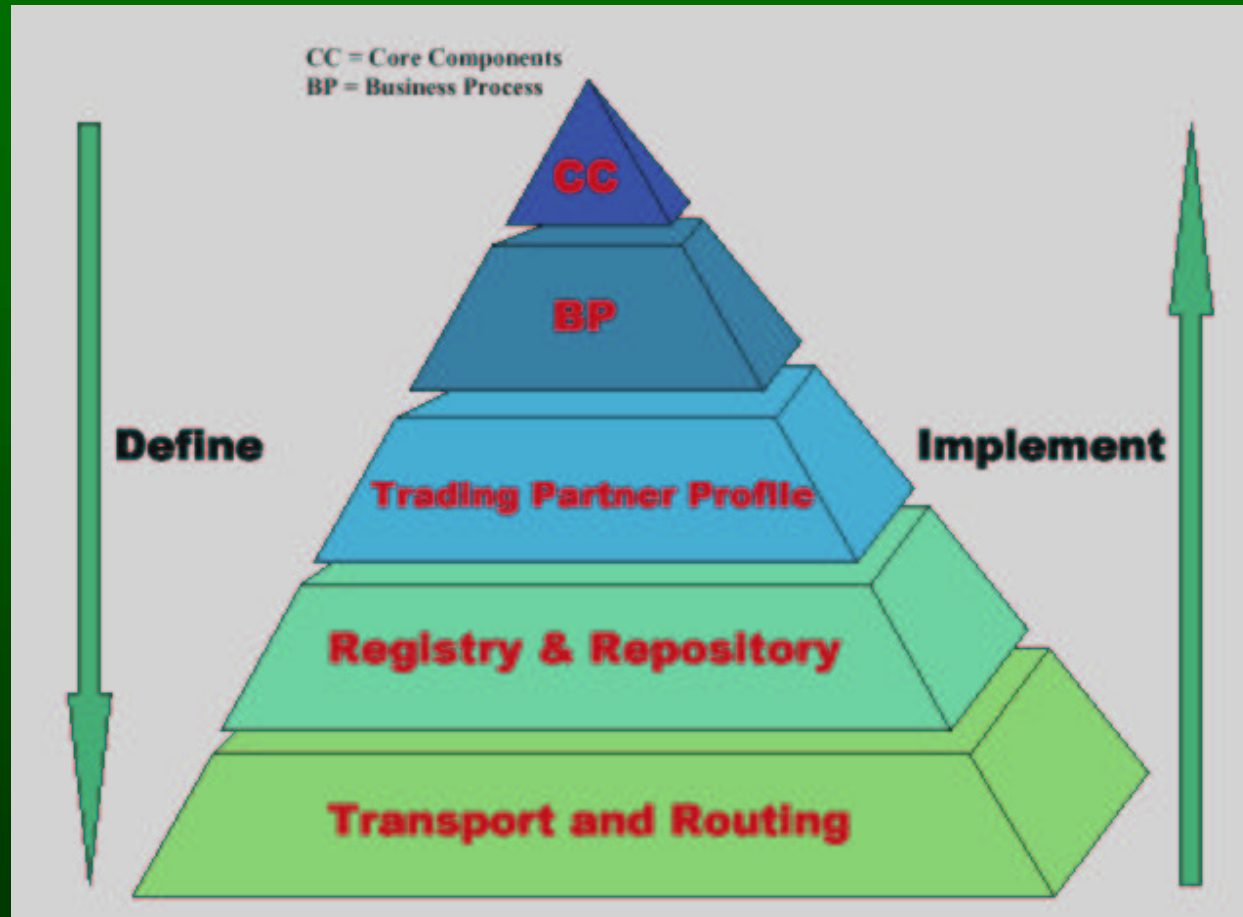
Internet



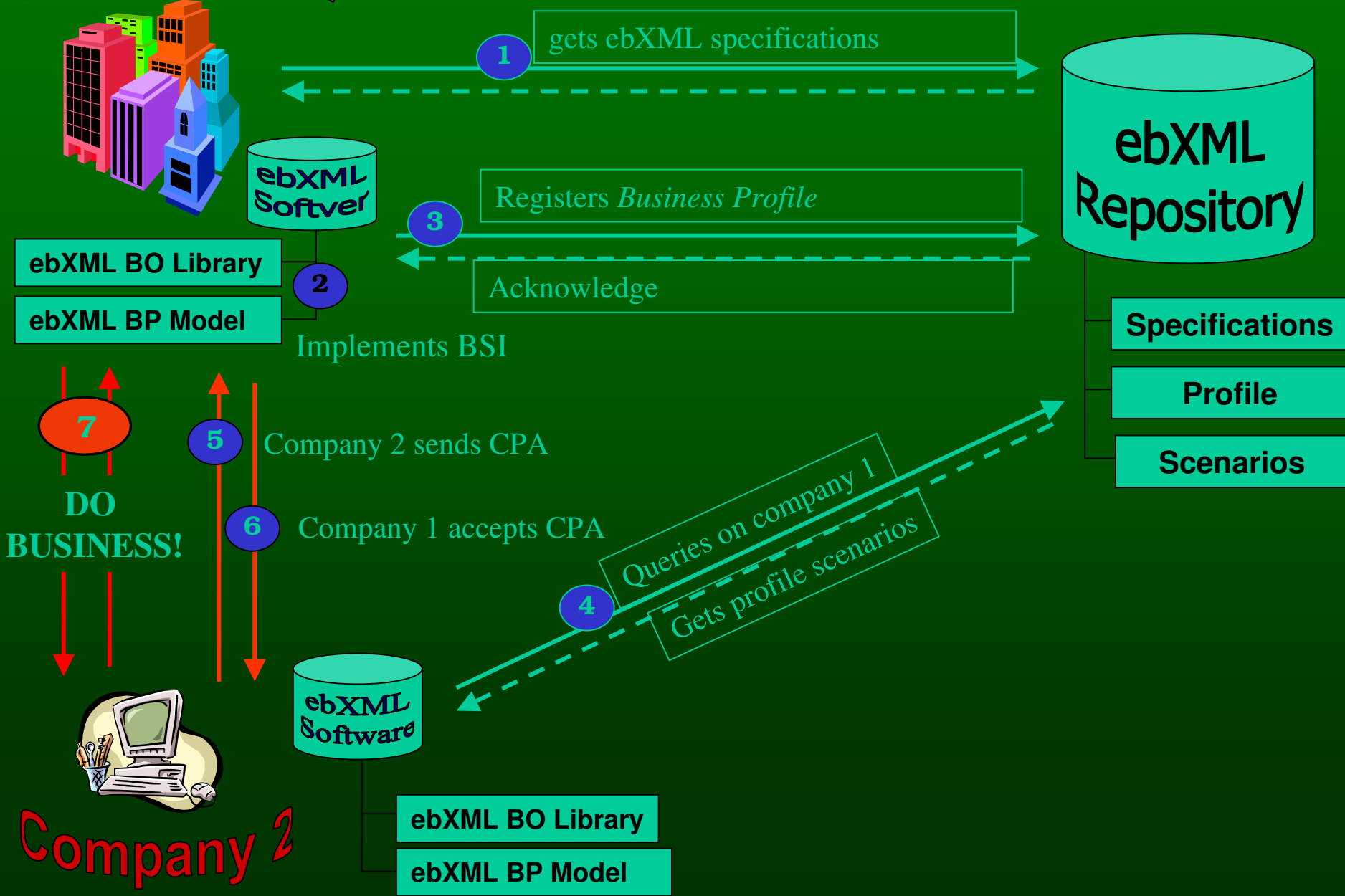
ebXML architecture



UN/CEFACT



Company 1 ebXML- Do BUSINESS





ebXML – solution for SME



- developing countries – 90% or more of their economy is SME (small and medium-sized enterprises)
- ebXML – only globally developed and recognized open standard based on XML
- ebXML has global perspective
- coexistence with the other standards for B2B (UDDI, RosettaNet etc.)



ebXML – solution for SME



- definition of the standard, common and widely accepted business documents
- a developing country has two strategies:
 - development of its own set of documents
 - implementation of a set of documents adopted as standard
- reusability and well established definitions of business processes are crucial



ebXML – solution for SME



UN/CEFACT



- implementation of the ebXML Registry & Repository for its own economy or joining to existing Registry & Repository
- Registry should be used for many business purposes
- Internet as a backbone – low-cost solutions for e-business
- not competitive to other similar initiatives (UDDI, RosettaNet, OAGIS ...)
- smooth transition of the national economies towards e-business



ebXML

laboratory implementation



UN/CEFACT



- Implementation of business process
“PURCHASE ORDER PROCESS WITH
KNOWN VENDOR”:
 - CPA and CPP interfaces
 - XML editor for SOAP messages



ebXML

laboratory implementation



UN/CEFACT



Collaboration Protocol Profile - CPP Agrokor

File Help

Collaboration Protocol Profile

Delivery Channels:

Vanjska informacija	channelId: N01
Poslovna uloga	transportId: N02
ProcessSpecification	Characteristics:
Delivery Channels	syncReplyMode: none
Doc-Exchange	nonrepudiationOfOrigin: false
Transport	nonrepudiationOfReceipt: false
Packaging	secureTransport: true
Komentar	
Home	

Override:

channelId: N04
action: orderConfirm

<http://www.agrokor.hr/ebxml/process/buySell.xml#orde>

CPP interface



ebXML

laboratory implementation



The screenshot shows a web browser window titled "Collaboration Protocol Agreement". The main heading is "Collaboration Protocol Agreement" followed by "PartyInfo 1:". Below this, there are four tabs: "Poslovna uloga", "Delivery Channels", "Doc-Exchange", and "Transport". The "Transport" tab is selected. On the left side, there is a vertical menu with the following items: "CPA Informations", "PartyInfo 1", "PartyInfo 2", "Packaging", and "Komentar". The main content area displays the "Transport:" configuration for a specific transport instance (ID: N02). The configuration includes:

- transportid: N02
- SendingProtocol: HTTP 1.1
- ReceivingProtocol: HTTP 1.1
- Endpoint: http://www.agrokor.hr
- type: allPurpose
- Transport Security: Protocol: SSL 3.0

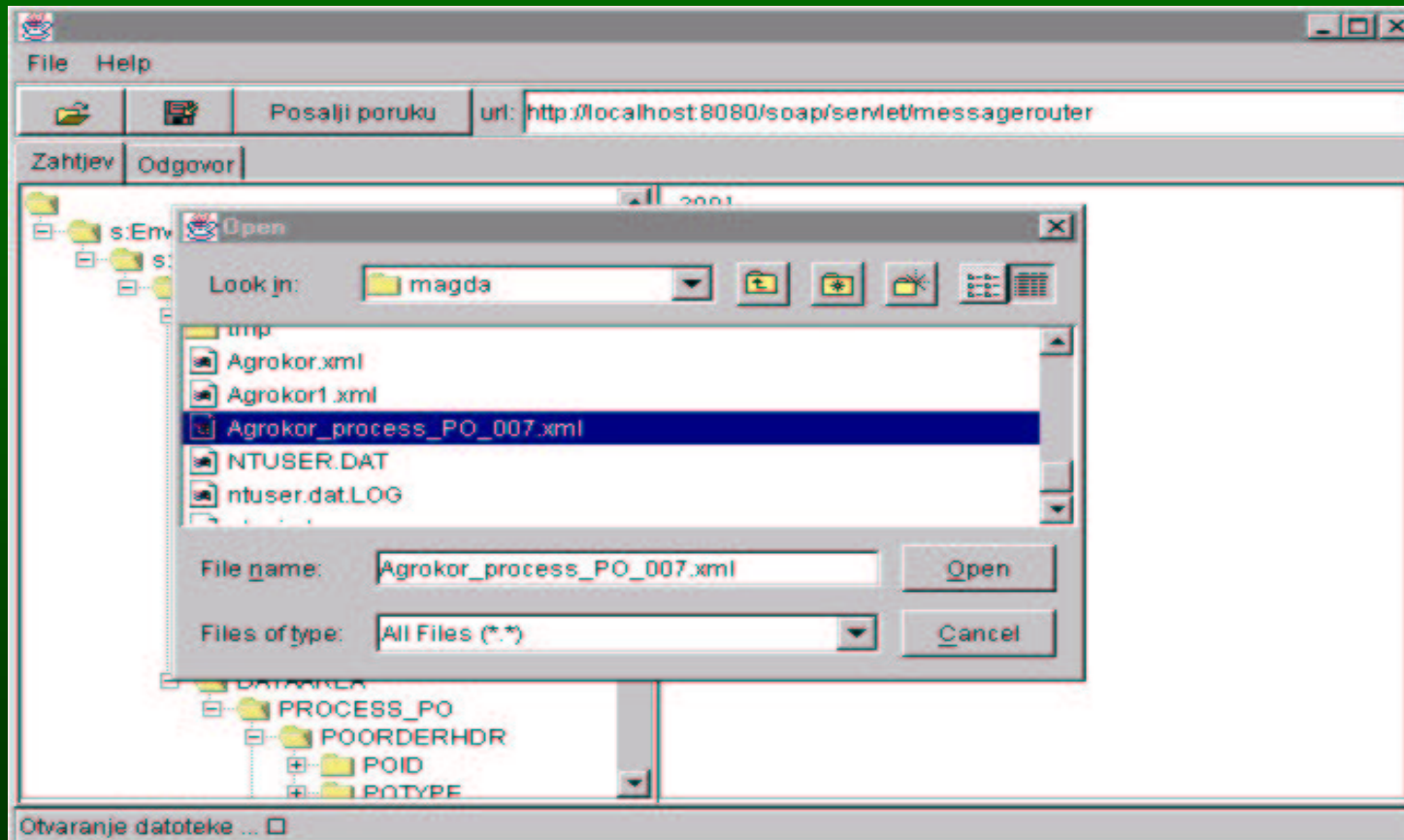
Below this configuration, another transport instance (ID: N05) is partially visible.

CPA intrface



ebXML

laboratory implementation



XML editor for SOAP messages



ebXML

laboratory impelmentation



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- confirmed modularity of implementing an ebXML framework for B2B
- open tehcnology (Java, J2EE, XML ...) - low costs
- current projects:
 - implementation of ebXML Registry & Repository



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Thank you for your attention!

Are there any questions?