

# **ebXML: intro & business model**

Darko Gulija, HINA



# Agenda

- What is ebXML
- Main ebXML concepts
- OAGI business messages and integration scenarios
- Implementing ebXML
- Creating ebXML marketplace
- Conclusion

# XML E-business Standards Segmentation

- ebXML
  - BizTalk
  - RN
- } Frameworks

- ebXML
  - UDDI
  - BizTalk
- } Registry & Repository

- OAGI
  - RN
  - ebXML
  - XML/EDI
  - CBL
  - cXML
- } Content  
(vocabulary  
& process)

- SOAP
  - HTTP
  - HTTPS
  - SMTP
- } Transport

# What is ebXML

- A layered framework of specifications for e-business
  - Business Process (BP)
  - Collaborative Partner Profiles and Agreements (CPP/CPA)
  - Core Components (CC)
  - Registry / Repository (REG/REP)
  - Message Service (TR&P)
- Other important efforts
  - Technical Architecture
  - Quality Review

# ebXML sponsors

- United Nations Center for Trade Facilitation and Electronic Business
- Developers of EDIFACT
- One of four organizations in the world that can set de jure standards
- World's largest independent, non-profit organization dedicated to the standardization of XML applications
- More than 400 members in 26 countries
- Operator of the XML.ORG Registry



# ebXML Business Process

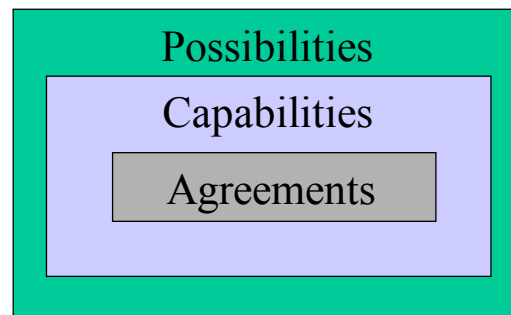
- BP describe document choreography and overall process interfaces
  - identify which business data needs to be present to ensure requirements of a party is being met
  - formally described by the Business Process Specification Schema (XML Schema or DTD) identified by GUID
  - may also be modeled in UML.

# ebXML: CPP / CPA

- Collaboration Protocol Profile (CPP)
  - specifies supported Business Processes and Business Service Interfaces (*can do X*)
  - what business messages and transport, security and encoding protocols are supported
  - each Process has a Globally Unique Identifier (GUID)

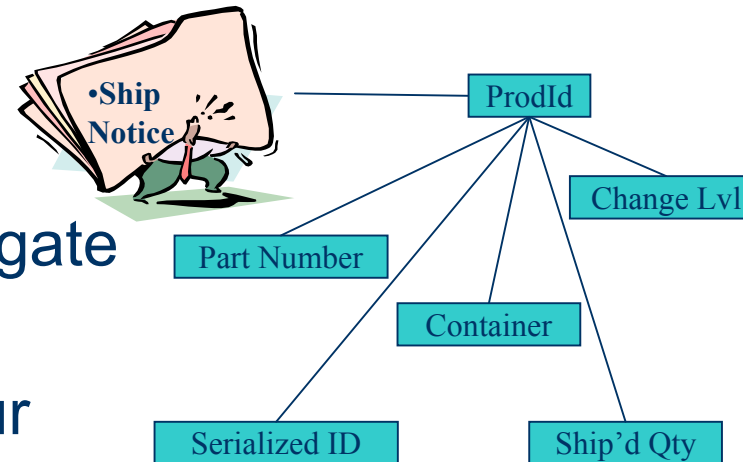
# ebXML: CPP / CPA

- Collaborative Protocol Agreement (CPA)
  - business contract derived from both company's CPPs
  - configuration file for TRP: specifies service name and parameters, role of an organization in the context of a service and failure and error-handling scenarios



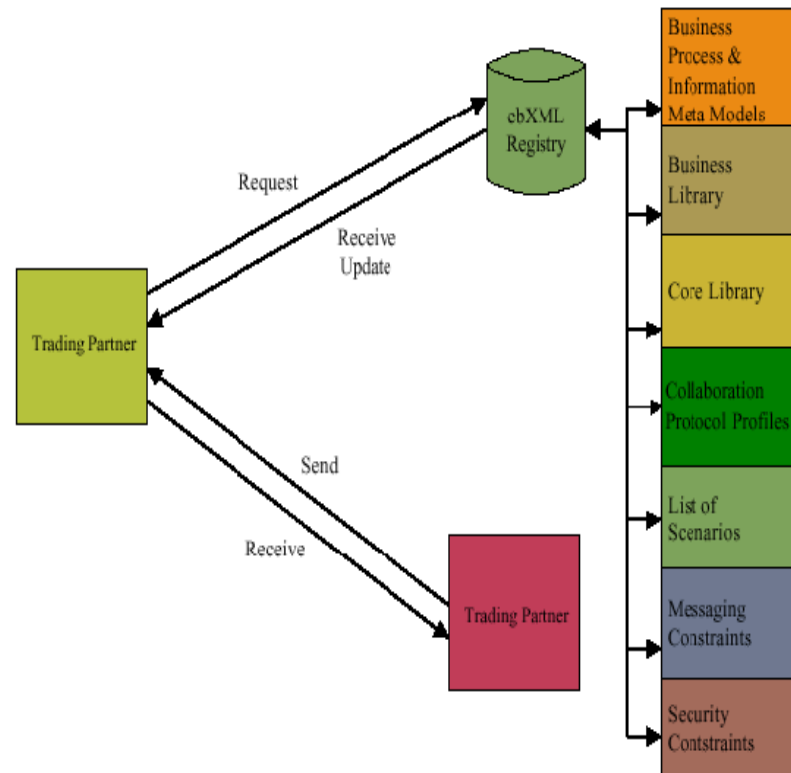
# ebXML Core Components

- A set of standard "parts" that may be used in larger ebXML elements
- Carries information about real world (business) concept
- Might be either atomic or aggregate data element
- May have contextual behaviour at run time
- Examples: <name>, <partyAddress>



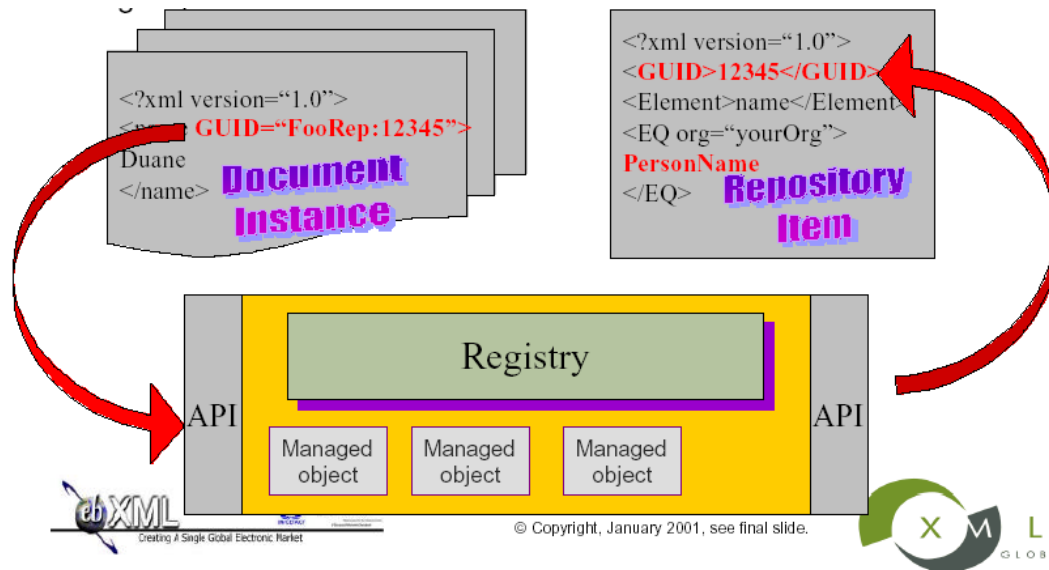
# ebXML: Registry & Repository

- At the heart of ebXML is a powerful system of Registries and Distributed Repositories
- Registries contain pointers and metadata about many different items



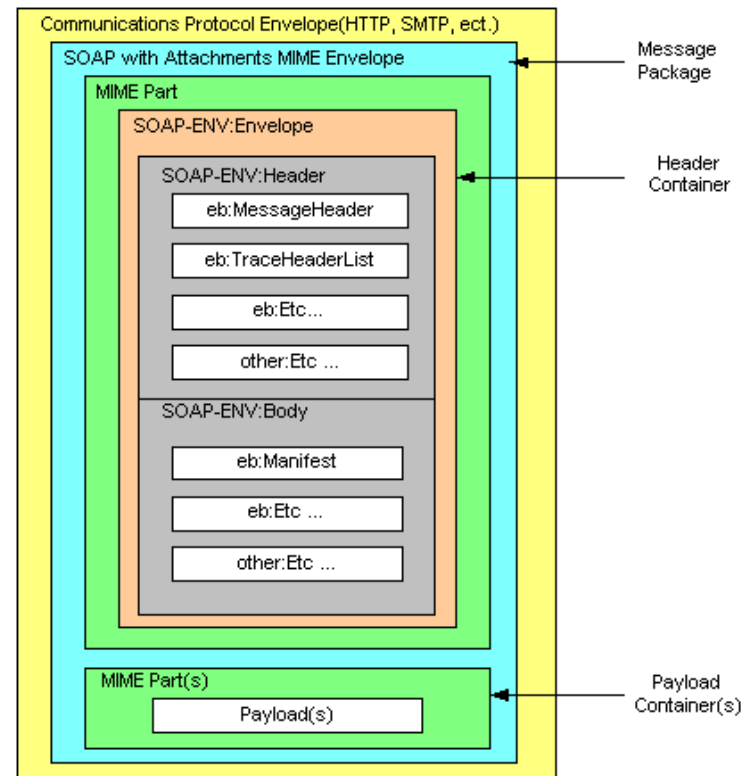
# ebXML: Registry & Repository

- XML elements in document instances and business messages contain pointers to Repository Items (RI's)
- RI's are metadata – not instances of data

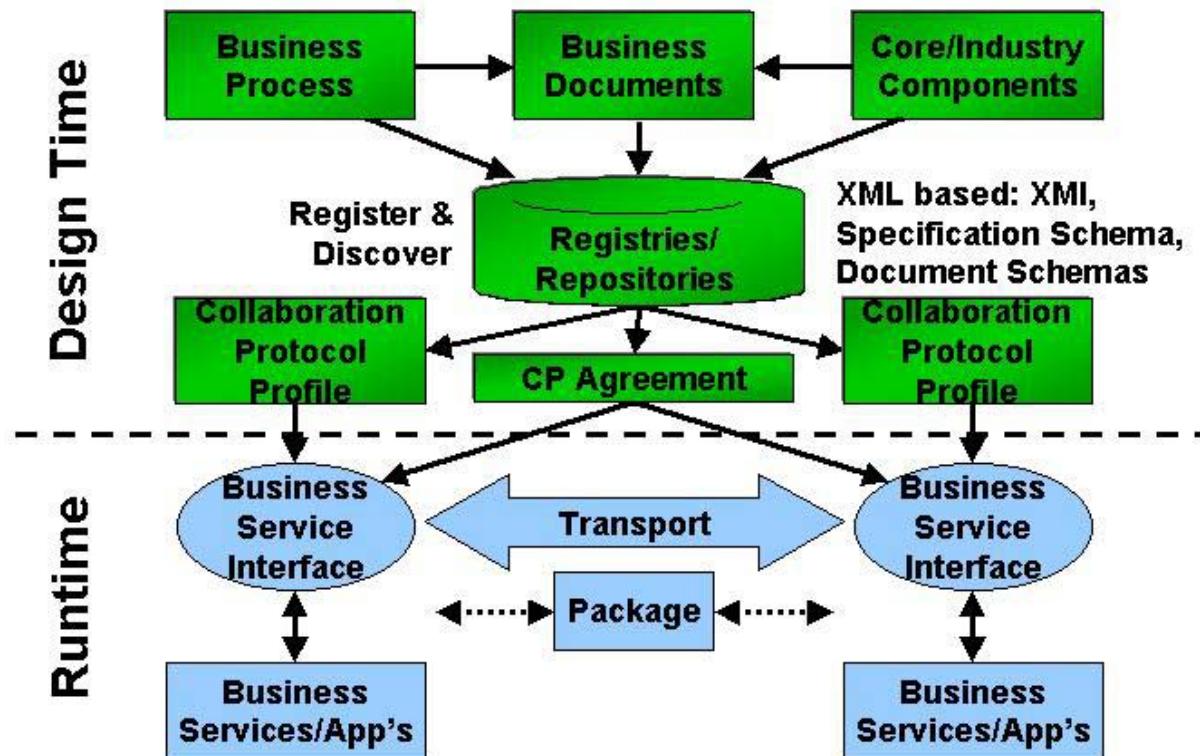


# ebXML Message Service (TR&P)

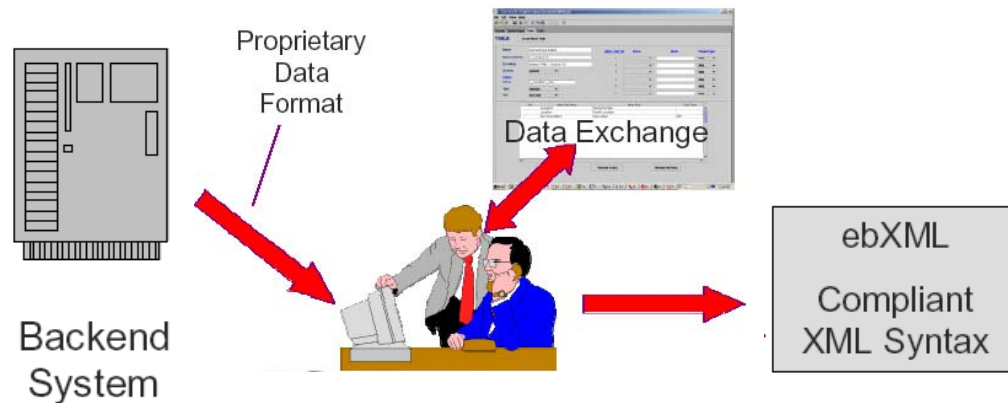
- ebXML uses SOAP with Attachments, wrapping XML SOAP format in MIME envelopes
- MIME envelopes allow SOAP/ebXML messages to include non-XML content such as digitized images or programming code as attachments



# ebXML architecture



# ebXML architecture

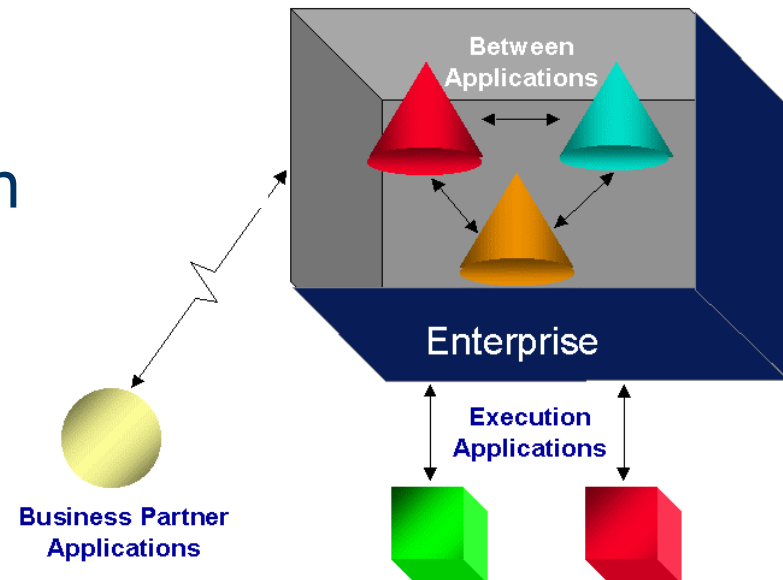


- Data transformation is key to successful business

# Open Applications Group

## Not-For-Profit Industry Consortium building standards for Global Business Integration

- Business to Business
- Application to Application
- Application to Execution
- For horizontal business



# OAGI Key Deliverables

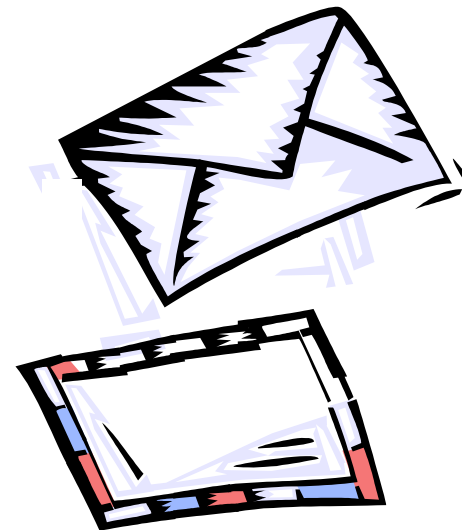
- Architecture
- Business collaboration definitions
- XML message definitions
  - *Full Documentation*
- Data dictionary
- UML Definitions



# OAGIS Release 7.2

- In Final Development
- 19 new messages to 201 Messages
- Enhancements and refinements
- DTD's avail now
- XSD formats avail Mid-October
- Second Release so far in 2001
- From 122 in 2000
  - 79 New BODs YTD
  - 65% Growth YTD
- Actually the 16<sup>th</sup> Release
- 6 years in maturing

ebXML is the  
envelope/framework



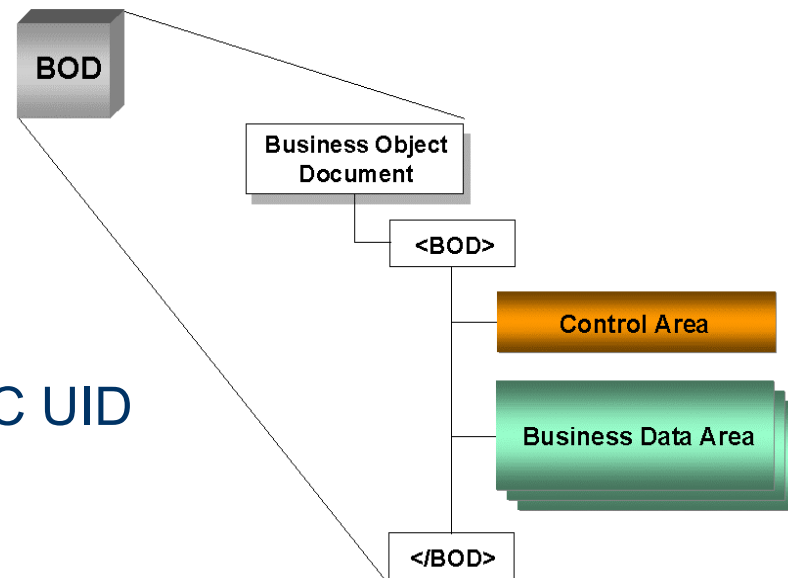
OAGIS is the  
letter/content

# Sample BODs

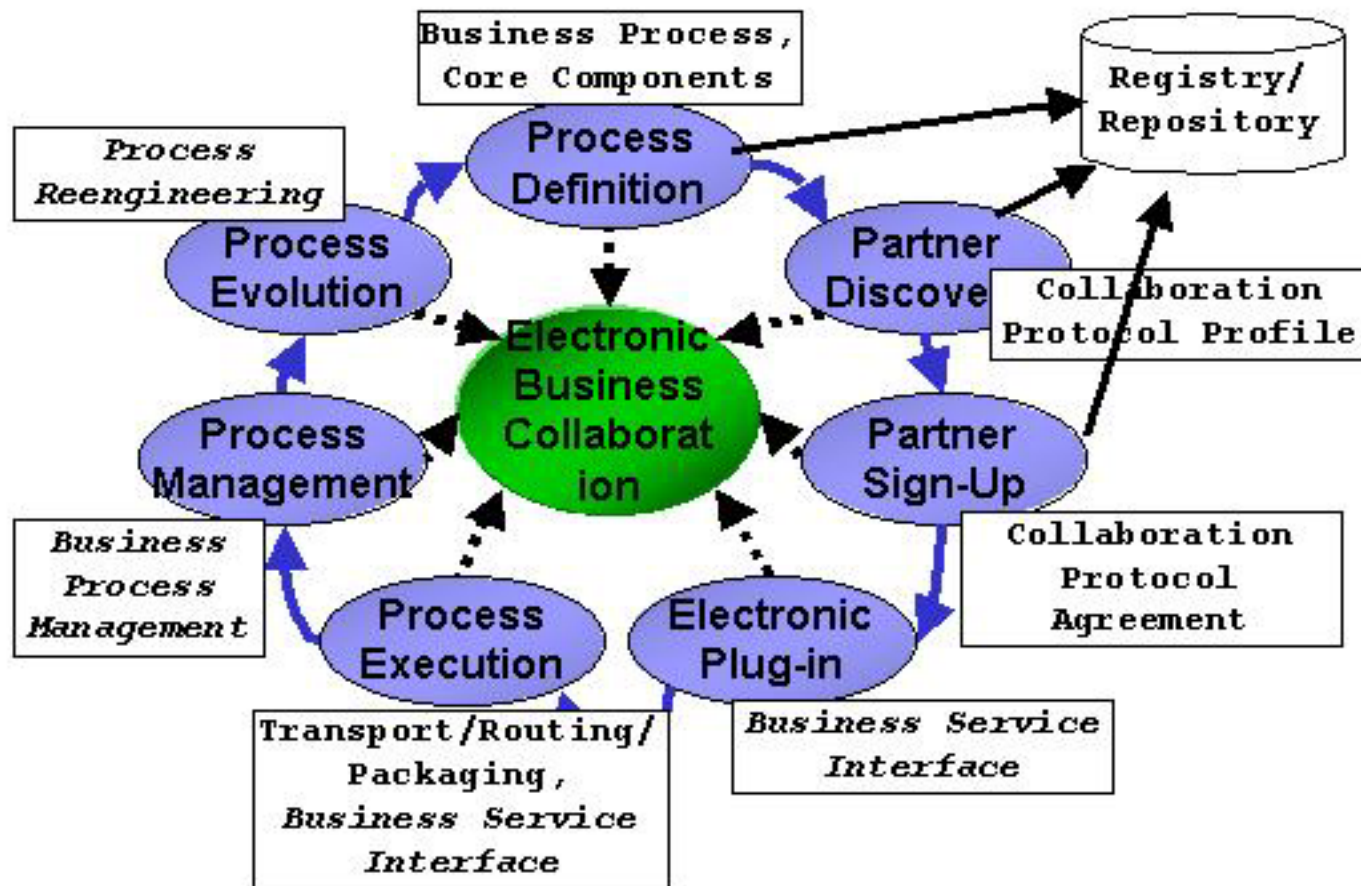
- Add PO
- Cancel PO
- Change PO
- Get PO
- Getlist PO
- List PO
- Process PO
- Receive PO
- Show PO
- Sync PO
- Get Pricelist
- Show Pricelist
- Sync Pricelist
- Cancel Prodorder
- Create Prodorder
- Get Prodorder
- Show Prodorder
- Sync Prodorder
- Add RFQ
- Cancel RFQ
- Change RFQ
- Get RFQ
- Respond RFQ
- Show RFQ
- Add Quote
- Cancel Quote
- Change Quote
- Get Quote
- Show Quote
- Respond Quote
- Load Receivable
- Add Requisitn
- Cancel Requisitn
- Change Requisitn
- Get Requisitn
- Show Requisitn

# OAGI fits with ebXML

- Communication Layer (TRP)
  - ✓ ebXML Transport
- Partner Agreements (CPP, CPA)
  - ✓ Format - ebXML
- Process Definitions (BPSS)
  - ✓ Format – ebXML
  - ✓ Content - OAGI
- Syntax (CC)
  - ✓ OAGI Tags
  - ✓ ebXML naming conventions
  - ✓ Cross reference to ebXML CC UID
- Meaning of Information
  - ✓ OAGI Dictionary



# Implementing ebXML

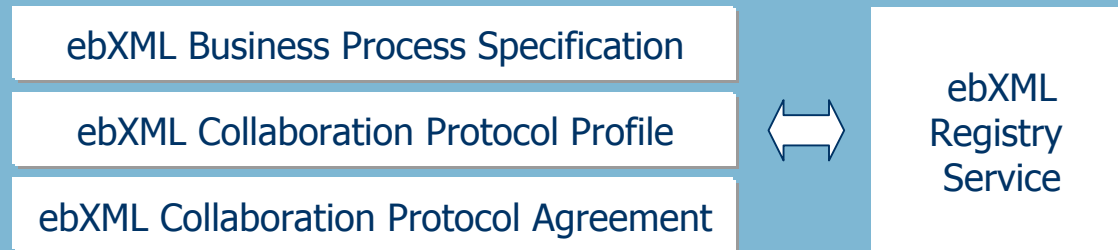


# Implementing ebXML

## Define Content



## Implement

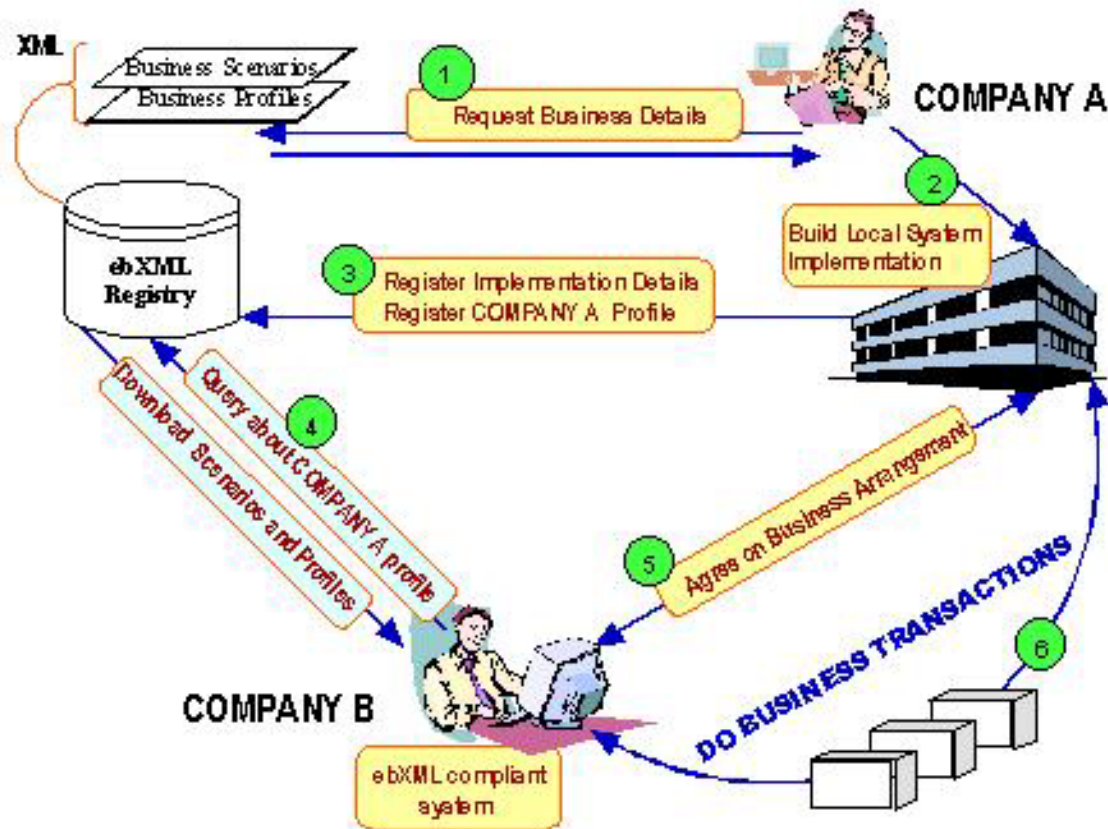


## Discover

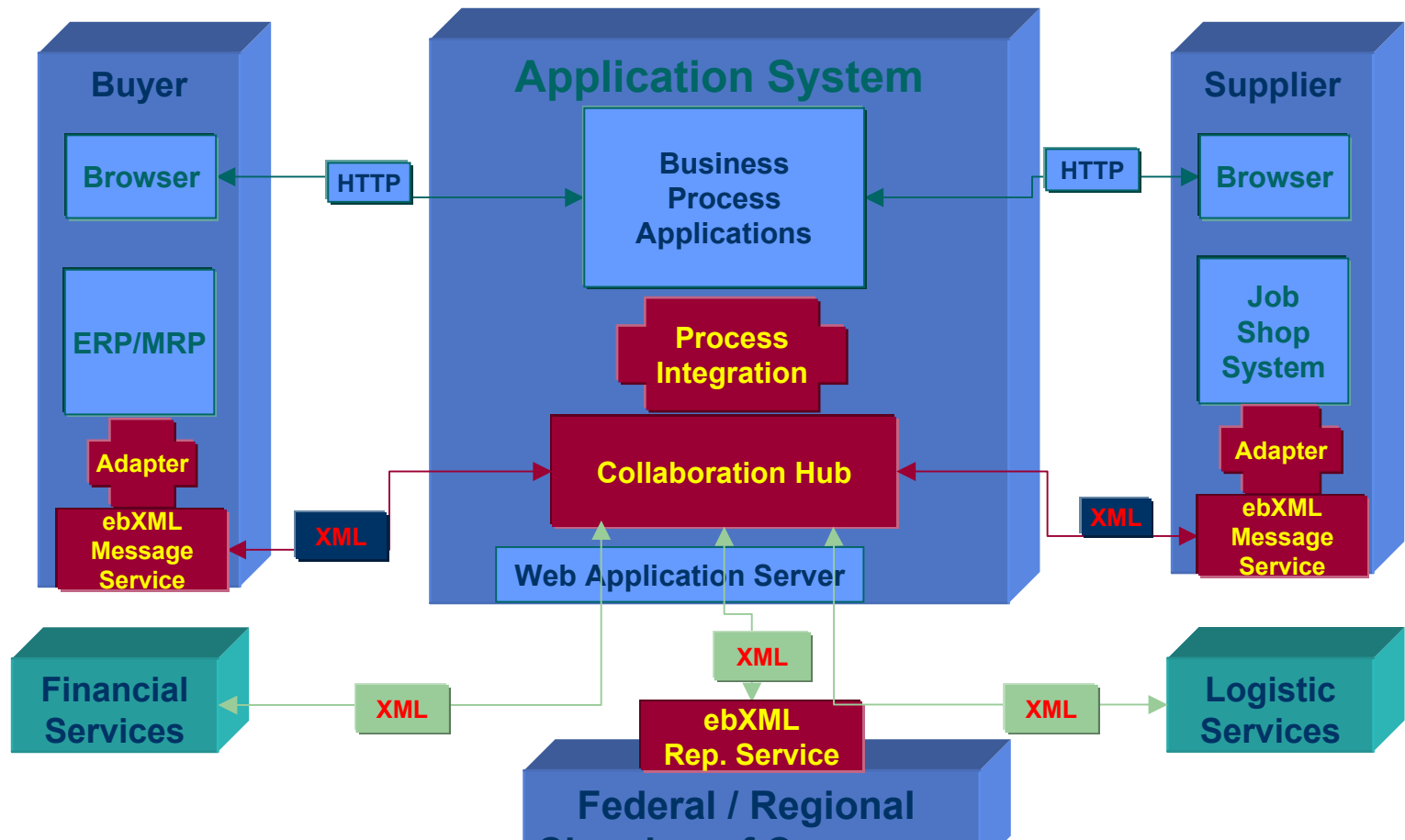
## Transact



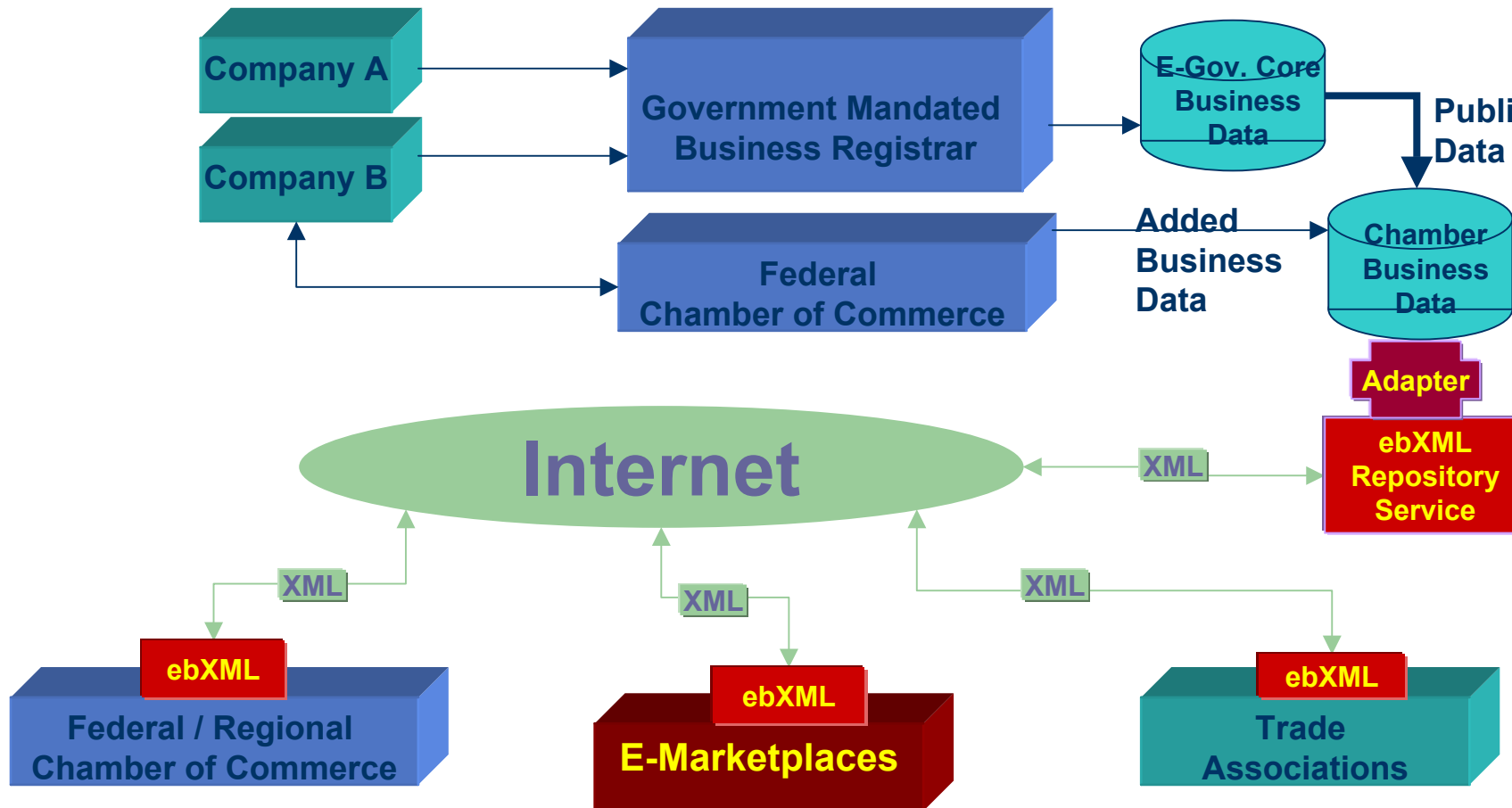
# Implementing ebXML



# Creating ebXML marketplace



# Creating ebXML marketplace



# Backed by Vendors



XyEnterprise



EXTRICITY™



## Conclusion: ebXML...

- is a set of layered specifications that together enable modular electronic business framework
- interoperates well with OAGI business messages and integration scenarios
- facilitates global trade by expanding electronic business to new and existing trading partners
- is supported by major software vendors

[www.ebxml.org](http://www.ebxml.org)