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Interactive Dialog among Governments, Business Sector & Civil Society

WSIS Pan-European Regional Conference

Bucharest, Romania

November 7, 2002

Patrick Gannon

President & CEO, OASIS

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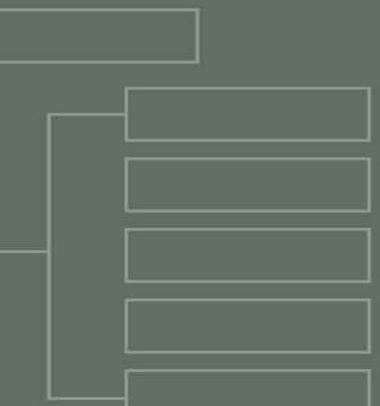
- OASIS – C.E.O., President, Board Director
- UNECE – Chair, Team of Specialists for Internet Enterprise Development (2000-2002)
- BEA Systems – Sr. VP Strategic Marketing
- Netfish Technologies – VP Industry Standards
- Open Buying on the Internet (OBI) – Exec. Dir.
- RosettaNet – Sr. Project Leader (1998)
- CommerceNet – VP Strategic Programs
  - XML eCommerce Evangelist (1997-99)
  - Interoperable Catalog WG (1995-1998)
- PIDX, CIAG, PVF Roundtable, CIMIS (1988-1995)



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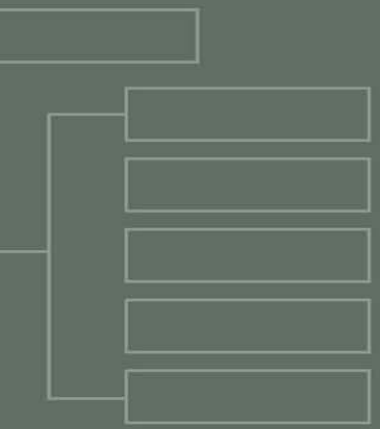
Agenda

- Multi-Stakeholder Commitments
- Define e-Strategies
- Government's Role
- Example Initiatives



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Information Technology Trends

Technology & Business Trends

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The eBusiness Tidal Wave

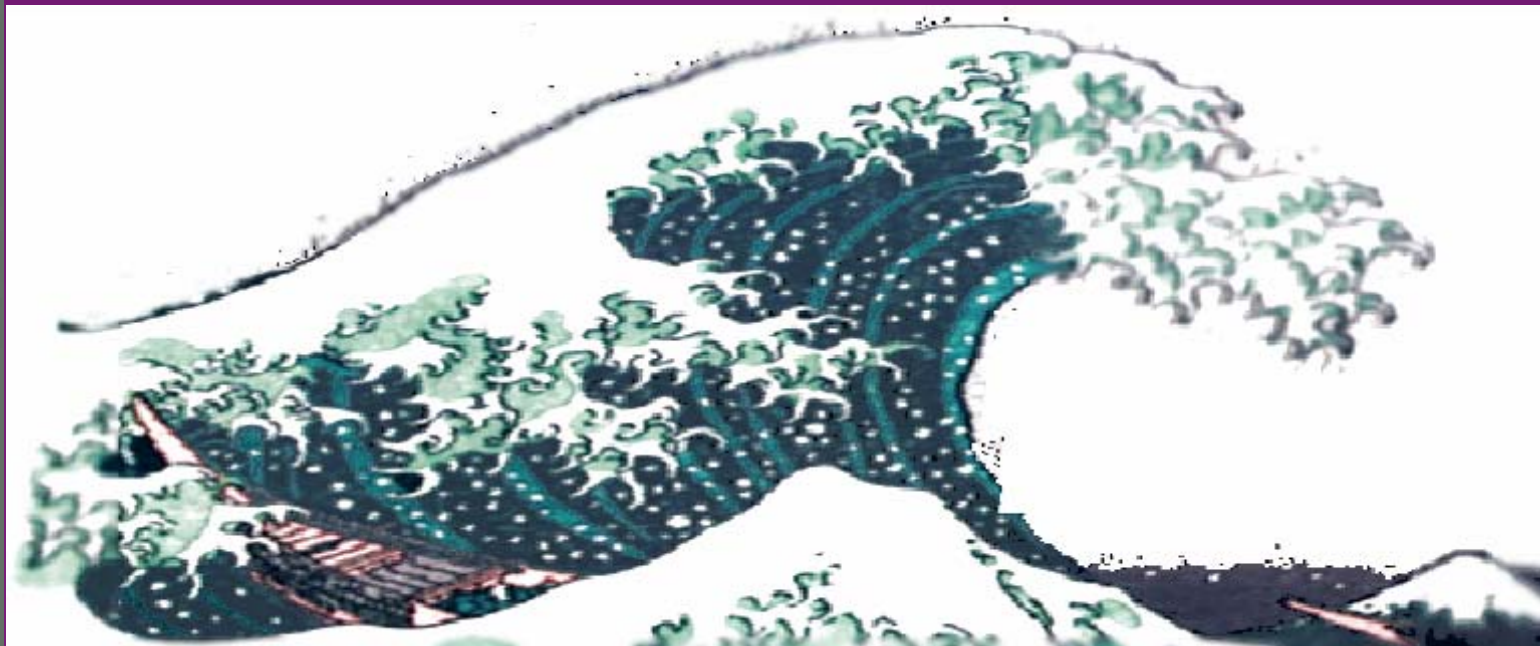
Cultural Shift

Business-to-Business Processes

Sales and Distribution

Consumer Services

Internet Based Delivery



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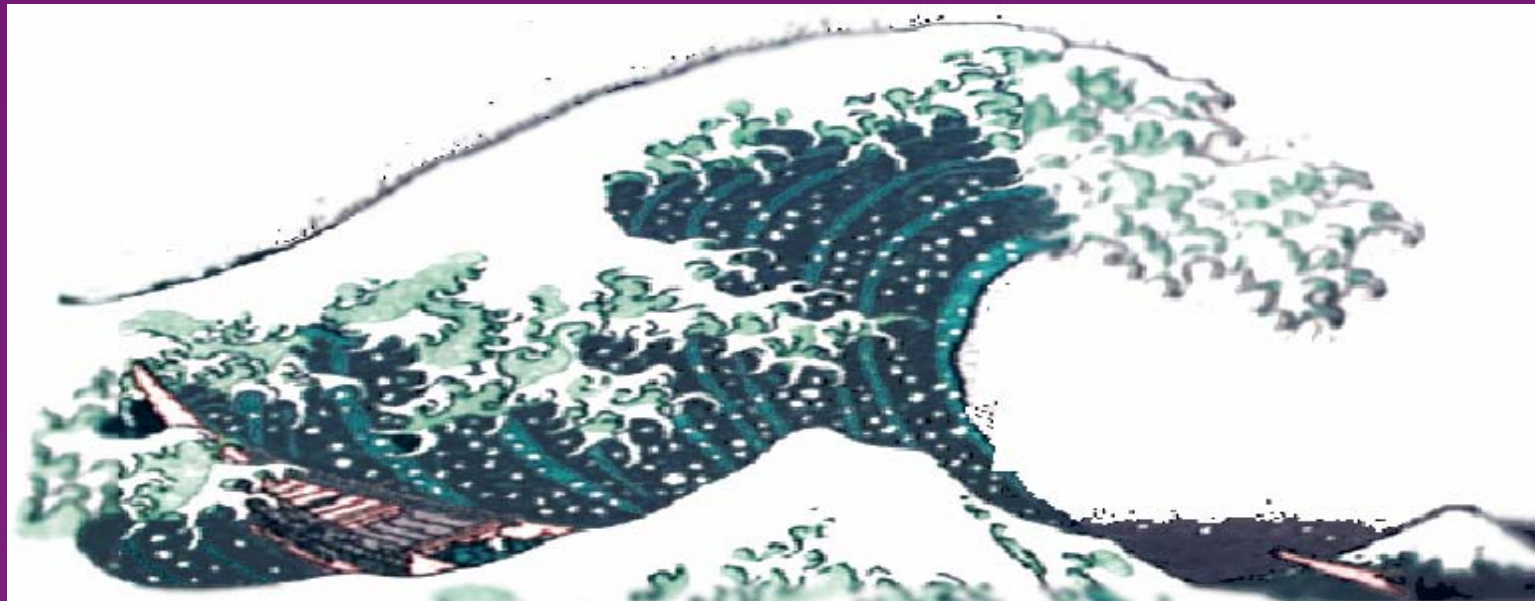
The eBusiness Technologies



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The Challenge is: how to take an architecture that has withstood the test of time …

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Keep it from being marginalized…

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Keep it from being washed away in the technology tidal wave …

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And turn it into the centerpiece of a thriving global marketplace …

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Suggested e-Strategies

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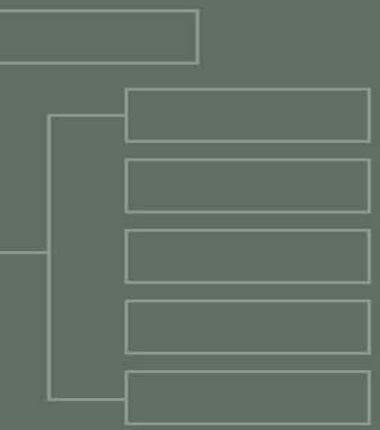
E-Strategies for WSIS

- Governments, business and civil society should collaborate in defining requirements and conducting implementations of open global standards for information exchange
  - Examples: OASIS e-Govt., LegalXML, Tax XML, Rights Language, Auto Repair, Universal Business Language, Multi-lingual Transactions
- Governments adopt open, global standards for information exchange
  - Example: UK e-Envoy e-Govt. Interop. Framework (e-GIF)



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OASIS Technical Committees – Public Sector - Industry

- Election & Voter Services
- Controlled Trade Markup Language
- Automotive Repair Information
- LegalXML Member Section
- E-Government (Requirements & Implementation)
- Tax XML

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LegalXML Member Section

- Current Technical Committee
  - Electronic Court Filings
  - Electronic Contracts
  - Legal Transcripts
  - Integrated Justice
  - Electronic Notarization
  - Legislative Information
  - Online Dispute Resolution (ORDxml)
- New Discussion Lists Started & in Planning
  - Court Documents
  - Legal Citations
  - Criminal Justice
  - Intelligence Systems
- http://www.legalxml.org

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Role of Standards

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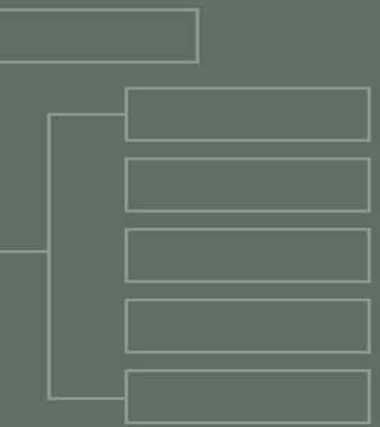
Why do you need global standards for information exchange

- Quicker and easier access to more information
- Flexibility in responding to changing needs
- Information exchange standards lead to standardized interfaces (HW & SW)
- Standardized interfaces lead to a wider range of solutions (functionality & price)
- More solutions leads to more competitive options and eventually to low cost or free software licenses for SMEs



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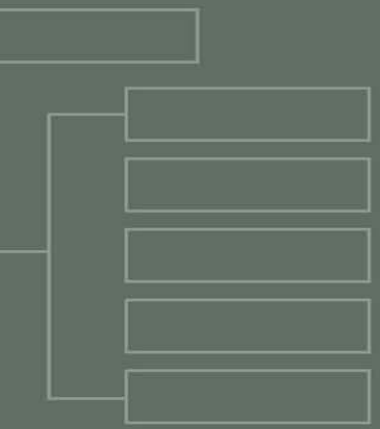
Government's Role in Standards

- **Major user**
  Purchasing Power
- **Major developer**
  Expertise & Business Requirements
- **Major driver**
  Authority to strongly influence standards development by requiring open, global processes



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To Drive Standards Effectively, Government Needs to...

1. Interface with private industry
2. Interface with Voluntary Standards Development Organizations (VSDO)
3. Endorse standards developed through open process with market adoption

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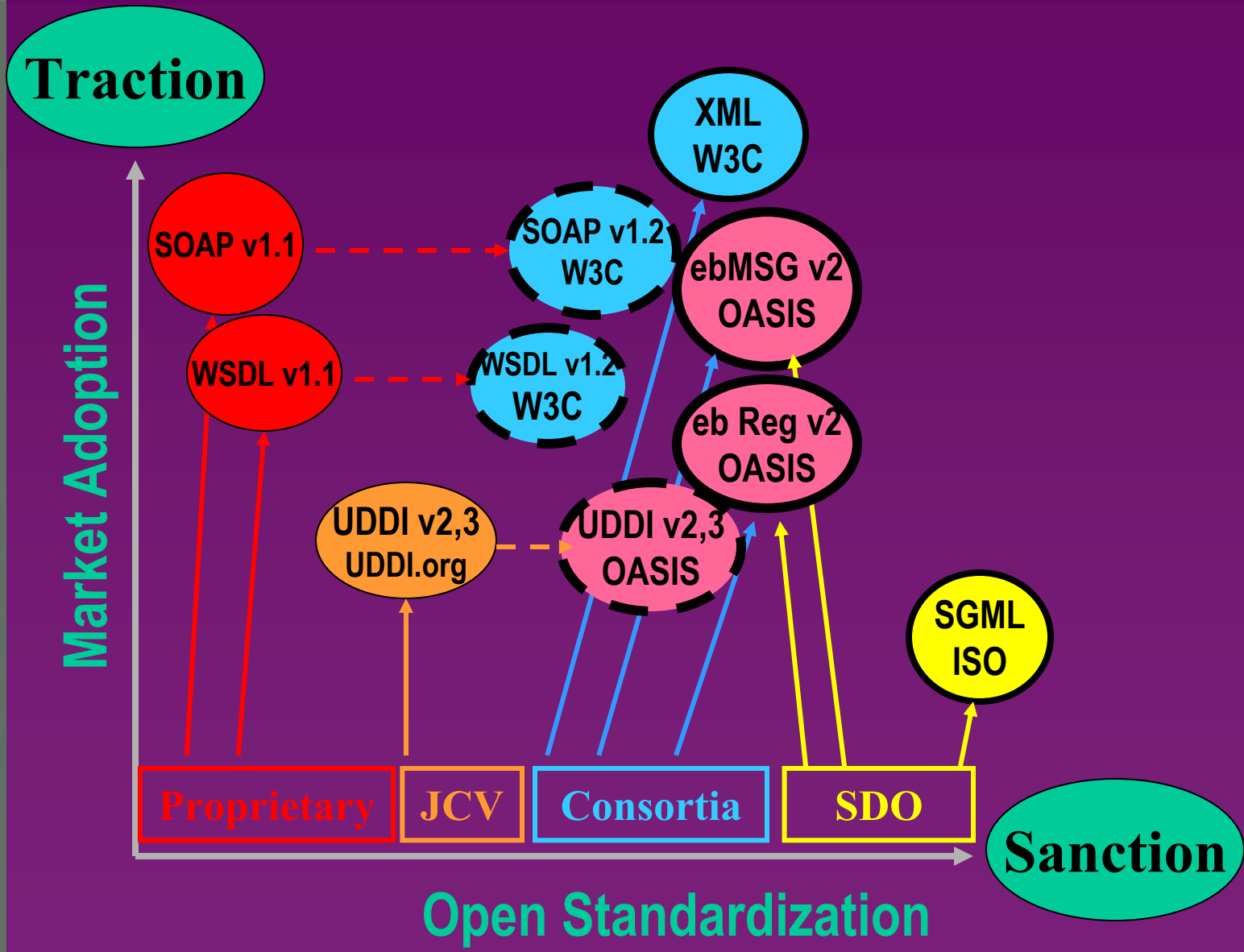
OASIS Standards: Open and Adopted



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What is a Web Service?

Types of Web Services

Profile Specifications

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Some Days Its Hard to Know Which Way is Up or Down

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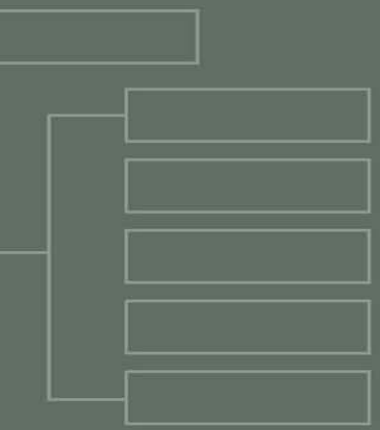
W3C Web Service Architecture Group - Definition of Web Service

A Web service is a software application identified by a URI, whose interfaces and bindings are capable of being defined, described and discovered as XML artifacts. A Web service supports direct interactions with other software agents using XML based messages via internet-based protocols.



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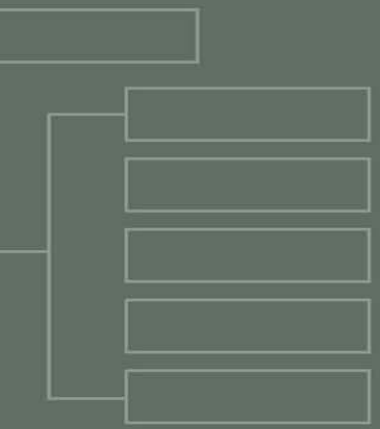
Web Services

- Step 1: Description
  - WSDL
  - ebXML CPP & ebXML Business Process Schema
- Step 2: Publication and Discovery
  - UDDI
  - ebXML Registry
- Step 3: Invocation
  - SOAP over HTTP
  - ebXML Messaging Spec integrating SOAP, HTTP



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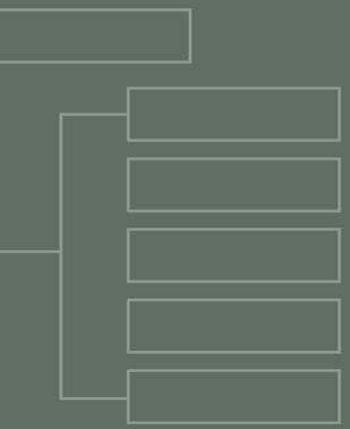
ebXML

The Global Standard for Electronic Business, and eBusiness Web Services



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UN/CEFACT

- 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 500 member companies and individuals

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ebXML Implementation Projects

- ebXML Message Service
  - Aerospace Industries Assoc. – Boeing - (ebMS, CPPA, RIM/RS, BPSS)
  - CEN ISSS eBES Vendor Forum – Interoperability Testing
  - EAN - UCC - Global Commerce Initiative (GCI) – Implementation Guide
  - Electric Reliability Council of Texas (ERCOT) – FTP Replacement
  - European Steel 24x7 Marketplace
  - Japanese Electronics and Information Technology Industries Association (JEITA-Collaborative EDI) and Electronic Commerce Promotion Council of Japan (ECOM) - Japanese Kasumi Project
  - Netherlands OpenXchange – (ebMS, CPPA, BPSS)
  - OAGI & AIAG & Covisint - (ebXML MS and OAG BODs)
  - OASIS–OAGI–STAR (Standards for Technology in Auto. Retail)
  - US Center for Disease Control (CDC) – Public health data exchange

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ebXML Implementation Projects cont'd

- ebXML Registry Implementations
  - Australian National Office of the Information Economy – SME Interop.
  - DISA Registry – DRIve (ebXML RIM/RS, CPPA)
  - Hong Kong Univ. & Government - Center for E-commerce Infrastructure Development (CECID)
  - Korea Institute for Electronic Commerce (KIEC) - Korea Central RegRep
  - Taiwan Ministry of Economic Affairs (MEA-DIT) & NIIEPA – XR2 Portal
  - US Dept. of Defense – Repository of Schemas
  - US NIST - XML.gov
- ebXML CPP/CPA Implementations
  - Work Group for EDI (WEDI) – Strategic National Implementation Process (SNIP) – HIPAA Compliance

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ebXML Implementation Projects cont'd

- ebXML Services
  - Dealersphere (Auto industry hub) - (ebXML MS, SOAP, WSDL)
  - Korea Trade Network (NTnet) – GXML Hub (ebXML MS, CPPA, RIM, RS)
  - Middle East Technical University (METU), Ankara, Turkey – SRDC (ebXML MS, CPPA, BPSS & RN PIPs)
- Industry Association Endorsements
  - ACORD (Insurance)
  - AIAG (Automotive)
  - HL7 (Healthcare)
  - HR-XML (Human Resources)
  - ODA (Insurance)
  - OTA (Travel)
  - RosettaNet (Computer, Electronic Components, Semiconductor)
  - SWIFT (Financial)
  - + + +

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ebXML Software Products

- **Bind Systems** - BindPartner Bus. Collab. Platform (BPSS, WSDL, SOAP)
- **BitDaemons Ltd.** - Octimal (ebXML MS)
- **Briyante** - ebMS (ebXML MS, CPPA, RIM, BPSS)
- **bTrade** – (ebXML MS)
- **Cyclone Commerce** - (ebXML MS)
- **Dasan Technology** (Korea) - TagFree (ebXML MS, SOAP, UDDI)
- **ebXMLsoft** - ebXMLsoft RIM (ebXML RIM v2)
- **eXcelon** - Excelon BPM (ebXML MS, CPPA, BPSS)
- **Fujitsu** - Interstage (ebXML MS, SOAP, WSDL, UDDI, RNIF)
- **Global Exchange Services** (GXS) - (ebXML MS)
- **HanMaek Information Technology** (Korea) - ebXML Messaging Server
- **IPNet Solutions** - (ebXML MS)
- **IONA Technologies** - Orbix E2A Collaborate (ebXML MS, RIM, BPSS, RNIF)

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ebXML Software Products – cont'd

- **Kildara Corporation** – Vitiris (ebXML MS, RIM, RS)
- **Kinzan** - Adaptive Web Services Suite (ebXML, SOAP, WSDL, UDDI)
- **Korea Trade Network** (KTNET) – XENI & GXML Hub (ebXML MS, CPPA, RIM, RS)
- **Oracle** – Oracle 9i Application Server (ebXML, RosettaNet)
- **Sterling Commerce** - Sterling Integrator (ebXML MS, SOAP, WSDL, BPML)
- **Sun Microsystems** – JAXM (SOAP, ebXML MS)
- **Sybase** – Business Process Integration Suite (SOAP, WSDL, ebXML, RNIF)
- **TIBCO Software** – ActiveExchange (ebXML MS, RNIF, EDIFACT, X12, cXML, xCBL, BizTalk)
- **Vitria** – BusinessWare Integration Platform (ebXML MS, BPSS, CC, VCML, UBL)
- **webMethods** – Integration Platform (ebXML MS, RNIF, SOAP, WSDL)
- **XML Global** – GoXML (ebXML MS, RIM, RS, SOAP, WSDL, UDDI)
- **Zenaptix** – Xeco (ebXML MS, CPPA, BPSS)

Open Source Efforts

- **freebXML** - (Open Source ebXML MS, RIM & RS) - www.freebxml.org
- **Open ebXML** - (Open Source ebXML MS, RIM & RS) - www.openebxmllab.org
- **Open Source ebXML Registry** - ebxmlrr.sourceforge.net/

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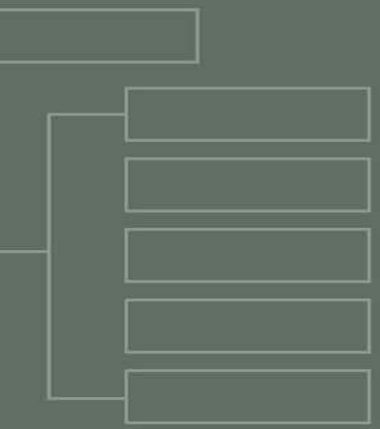
How do ebXML & web services fit into your corporate strategy?



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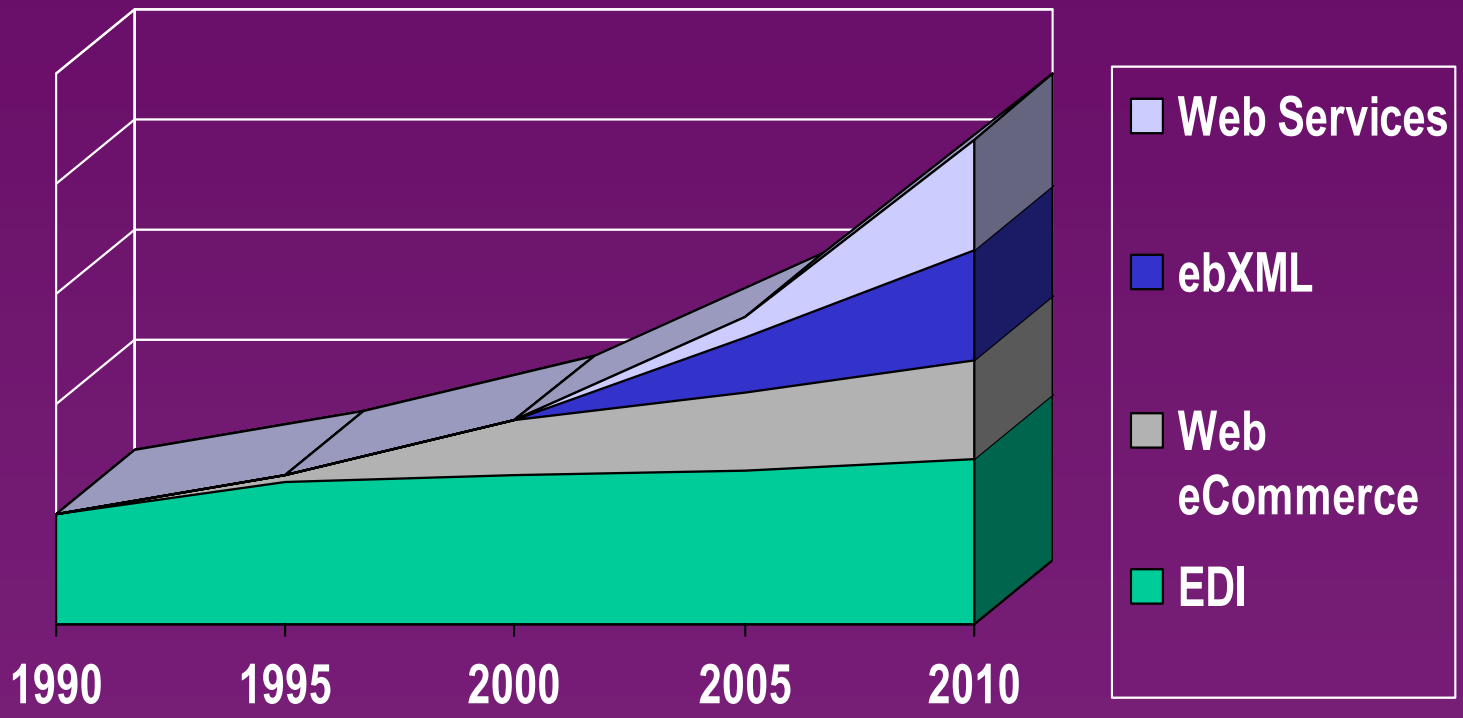
Electronic Business Technologies



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A Standards-Based Framework for a Single European Electronic Market (SEEM)

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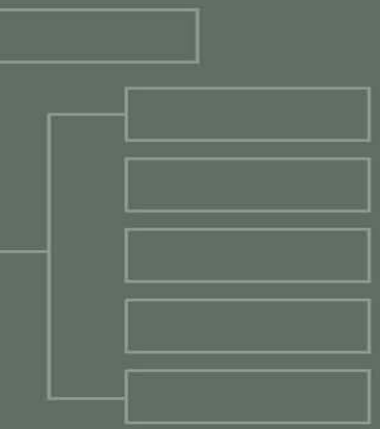
Standards Framework for SEEM

- Open, global standards, protocols & interfaces
- Interoperable applications & platforms
- Trusted and sustainable infrastructure
- Compatibility between business practices
  - Catalog information exchange
  - Payment methods
  - Security



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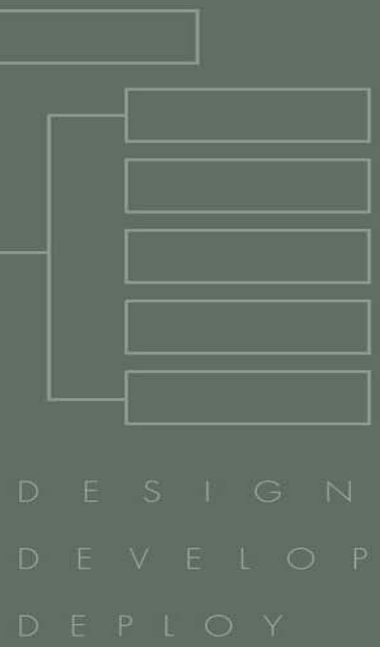
OASIS Standards for SEEM & WSIS

- **ebXML Messaging TC**
- ebXML CPPA TC
- **ebXML Registry TC**
- ebXML Implementation (IIC) TC
- **Directory Services (DSML) TC**
- UDDI Specification TC
- Web Services for Remote Portals TC
- Web Services Security TC
- **Security Assertion Markup Language (SAML)**
- *LegalXML – ODRxml TC*
- *E-Government Requirements TC*
- *Tax XML*
- *PKI Member Section*



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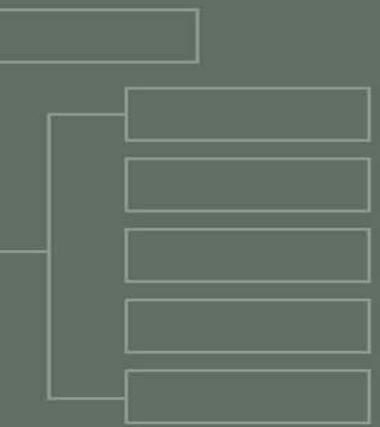
OASIS Activities for SEEM

- EAN/UCC ebXML Messaging Interop Testing
- CEN ISSS eBES Vendor Forum
  - ebXML Interoperability Project
- OASIS – LISA Multi-lingual eBusiness Survey
  - www.lisa.org/interact/2002/ebizsurvey.html
- OASIS – ONCE (Open Network Commerce Exchange, formerly Global Trading Web Assoc.)
  - ebXML Messaging for eMarketplace Interoperability



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Example of Public-Private Sector Partnering

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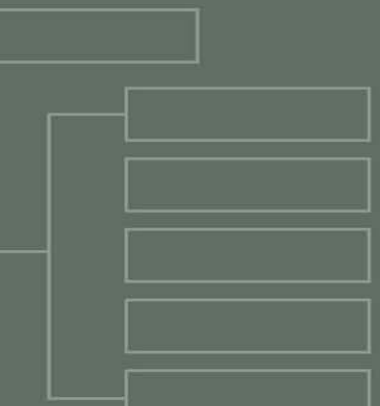
E-Government Business Repository

Exchanges, e-markets, supply chains need combinations of multiple Web Services

- Auction, pricing, tax computation, customs, RFQ, order management, content management
- No two exchanges, e-markets, supply chains will use the same:
  - Service combination
  - Particular service packages.
- The complexity of this requires a common foundation of business data & open interfaces
  - Standard interface for globally distributed repositories
  - Minimal engineering effort to connect different sites



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E-Government Business Repository - Implementation Benefits

- **E-Gov Business Repository provides single, trusted, sustainable resource for basic information on every registered business within a governmental region**
- **Through ebXML or UDDI interfaces, company info can be shared inter-operably with other organizations:**
  - **Other governmental repositories**
  - **Chambers of Commerce**
  - **Certificate Authorities (PKI Digital Certificates)**
  - **Trade Associations**
  - **E-Marketplaces**
- **Business repositories provide a foundation for rapid adoption of electronic business**

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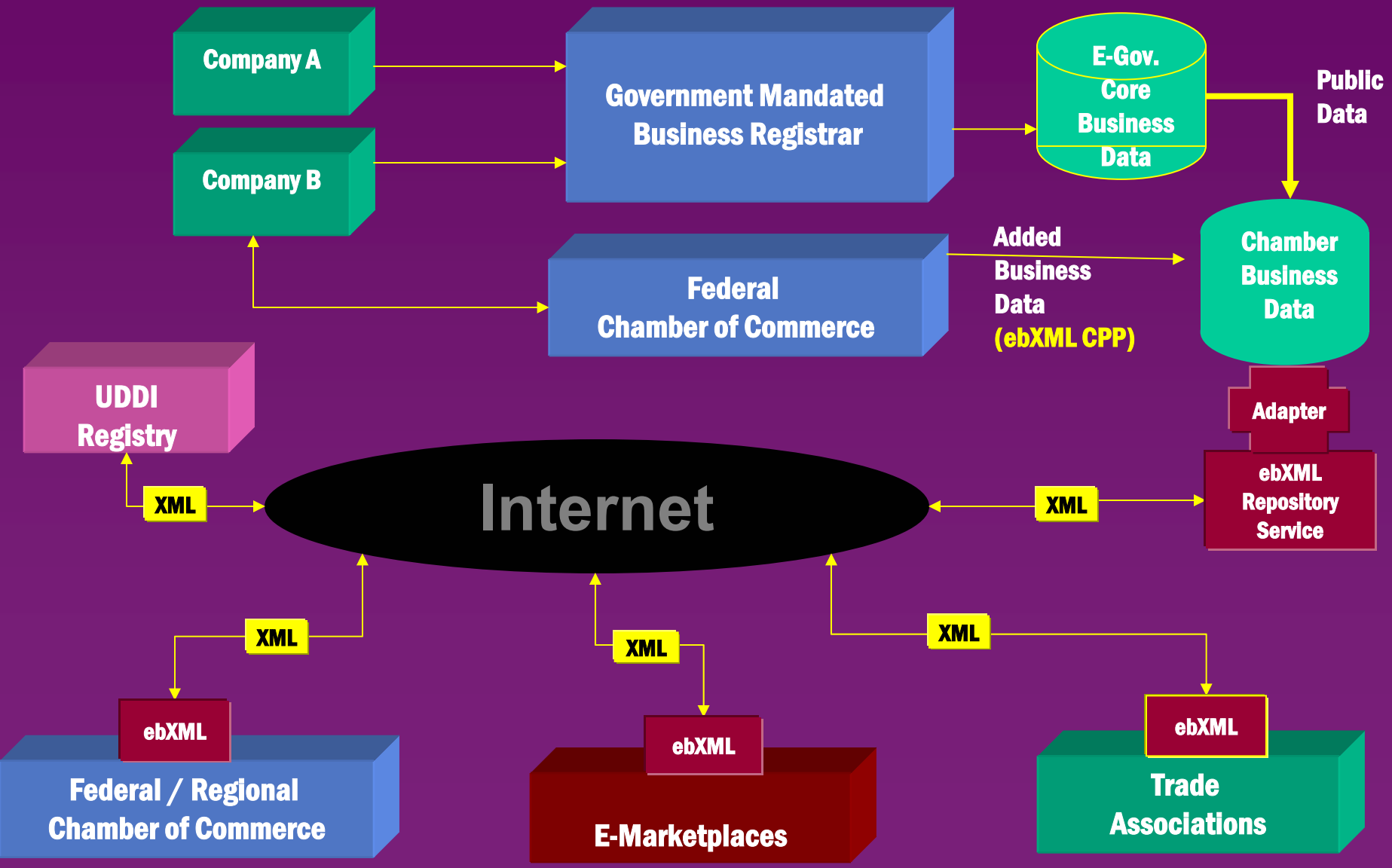
E-Government Business Repository



For more information...

- www.oasis-open.org
- xml.coverpages.org/
- www.xml.org

Patrick Gannon

President & CEO

patrick.gannon@oasis-open.org

+1.978.667.5115 x201 (office)

+1.408.242.1018 (mobile)

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