Interactive Dialog among Governments, Business Sector & Civil Society

WSIS Pan-European Regional Conference

Bucharest, Romania

November 7, 2002

Patrick Gannon
President & CEO, OASIS
Patrick J. Gannon

- 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.
- CommerceNet – VP Strategic Programs
  - XML eCommerce Evangelist (1997-99)
Agenda

• Multi-Stakeholder Commitments
• Define e-Strategies
• Government’s Role
• Example Initiatives
Information Technology Trends

Technology & Business Trends
The eBusiness Tidal Wave

Cultural Shift

Business-to-Business Processes

Sales and Distribution

Consumer Services

Internet Based Delivery
The eBusiness Technologies

XML

- Sales and Distribution
- B2B iMarketPlaces / Hubs
- ASP’s (App’ Srvc Provider)
- B2C Integration
- Information Mining
- Web Services
- Directory Services
The Challenge is: how to take an architecture that has withstood the test of time ...
Keep it from being marginalized...
Keep it from being washed away in the technology tidal wave ...
And turn it into the centerpiece of a thriving global marketplace ...
Suggested e-Strategies
E-Strategies for WSIS

• Governments, business and civil society should collaborate in defining requirements and conducting implementations of open global standards for information exchange

• Governments adopt open, global standards for information exchange
  – Example: UK e-Envoy e-Govt. Interop. Framework (e-GIF)
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
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
Role of Standards
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
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
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
What is a Web Service?

Types of Web Services
Profile Specifications
Some Days It's Hard to Know Which Way is Up or Down
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.
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
ebXML

The Global Standard for Electronic Business, and eBusiness Web Services
• 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
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
ebXML Implementation Projects cont’d

• ebXML Registry Implementations
  – 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) & NIEPA – 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
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)
  - +++
ebXML Software Products

- **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)
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/
How do ebXML & web services fit into your corporate strategy?
A Standards-Based Framework for a Single European Electronic Market (SEEM)
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
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
OASIS Activities for SEEM

- EAN/UCC ebXML Messaging Interop Testing
- CEN ISSS eBES Vendor Forum
  - ebXML Interoperability Project
- OASIS – LISA Multi-lingual eBusiness Survey
- OASIS – ONCE (Open Network Commerce Exchange, formerly Global Trading Web Assoc.)
  - ebXML Messaging for eMarketplace Interoperability
Example of Public-Private Sector Partnering
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
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
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)