ebXML Registry 3.0: An Overview





Agenda

- What is ebXML Registry?
- Major Use Cases
- Key Benefits
- Key Features
- ebXML Registry in Action
- Future Directions
- Summary



What is ebXML Registry ?

- A Service Oriented Architecture registry as well as a repository
 - Classification of any type of object
 - Taxonomy hosting, browsing and validation
 - File / folder like organization of content
- A content managment system for secure, federated information
 - Provides services for sharing content and metadata between entities in a federated environment
 - Lifecycle Management (LCM) actions logged in an audit trail
 - Supports automatic versioning of objects



ebXML Registry has breadth and depth ..

- A registry for XML objects
- A repository for ebusiness artifacts
- A catalog of web services
- A store for design specifications
- A complement to other OASIS specifications
 - SAML, XACML, WSRP, BCM, ...



The Specifications

- ebXML Registry Information Model
 - Defines what metadata and content can be stored in the registry
- ebXML Registry Services and Protocols
 - Defines the services and service interfaces provided by the registry
 - Defines the API for accessing the registry
- ISO 15000 Standard, Part 3 and 4



Use Cases

- Web services
- Web content management
- Controlled vocabulary
- Business process
- eForms
- Core Components
- Standards e.g. HL7
- Domain-specific use cases such as
 - Electronic Medical Records
 - Geological Information Systems



Profiles implement Business Context

- Enable interoperability within and across domains
- Define restriction/extension requirements of usage
- Current examples of profiles include
 - Web Services Profile
 - WSRP (Remote Portlets) Profile
 - Open GIS Profile
 - HL7 Profile
 - IHE Cross Document Sharing (XDS)
 - Core Components



Web Services Registry Use

High-level business function

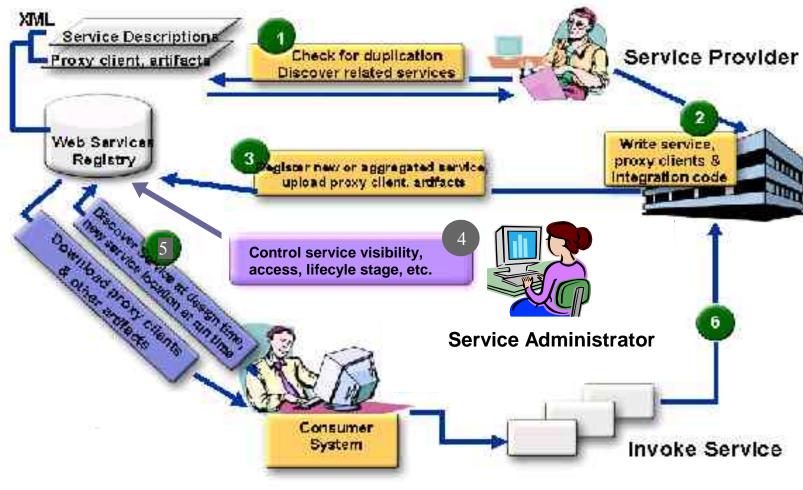
Centralized manageability and accessibility of enterprise web services metadata and artifacts for developers, deployers, administrators, and users

Primary use cases

- Deploy/publish and federated discovery of web services metadata and artifacts
 - Service metadata and artifacts = WSDL's, schemas, BPEL and WSRP descriptions, XSLT transforms, etc.
- Web services governance and lifecycle management
 - Approval, visibility, use, deprecation, and deletion based on maturity level, user roles, organizational policies, etc.



Web Services Use Case with Governance



Service Consumer

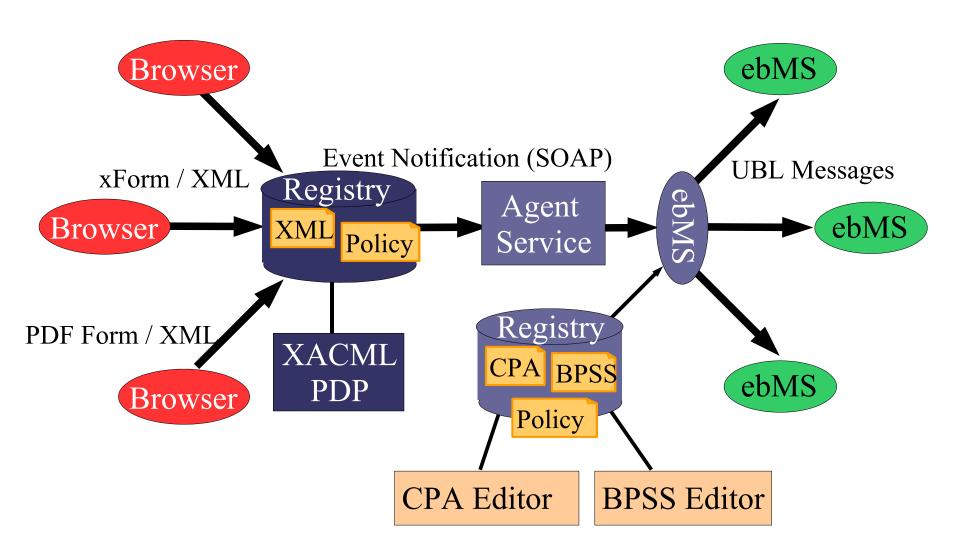


Government Information Management Use

- Governmental bodies are prominent among ebXML Registry adopters for electronic information management and dissemination
 - Finland: XML Schemas and eForms
 - UN/CEFACT, EDIFrance: eBiz reference data
 - US NIST: Clinical documents
 - Taiwan: eGovernment Platform
 - Korea: Central Registry and Repository (REMCO)
 - Canada: Federated SOA Registry



Disease Management Example: Technology





Key Benefits of ebXML Registry

- Provides standard way to manage information assets
- Manages user-defined organization of and relationships among content and metadata
- Enforces user-defined standards for content
- Includes capabilities for managing and governance of information asset lifecycles

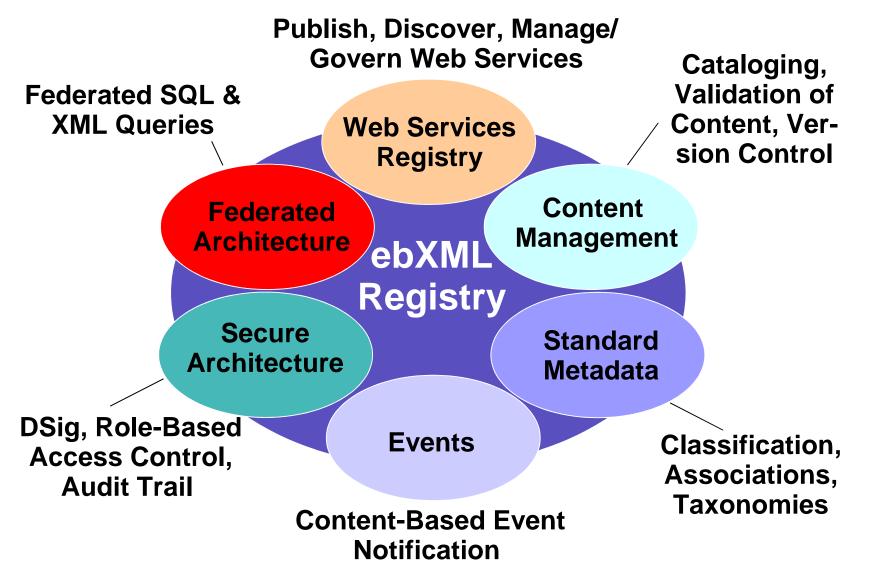


Key Benefits (2)

- Provides flexible mechanisms for content discovery
- Manages secure access to information assets
- Facilitates event-based delivery of information to appropriate personnel or systems
- Enables integration of information assets across organizational boundaries



Key ebXML Registry Features at a Glance





New Features in ebXML Registry 3.0

Feature	Description
HTTP Protocol Binding	 Web Browser client to access to registry using HTTP 1.1 protocol
	➤ Simple content retrieval
Registry Managed Version Control	▶ Robust version control mechanisms based on the DeltaV/WebDAV protocol
Query Enhancements	▶ Iterative query support
	▶ Parameterized stored queries
	▶ Improved Filter Query syntax
Content Management Services	▶ Content validation
	➤ Content cataloging
	► Content-based discovery
Cooperating Registries Support	▶ Distributed content/metadata
	▶ Federated queries
	▶ Replicated content/metadata
	▶ Object relocation
Event Notification	▶ Publish/subscribe capabilities



New Features in ebXML Registry 3.0 (2)

Feature	Description
Security Enhancements	➤ XACML-Based Access Control Model➤ SAML-Based Federated Identity Management
Improved Extensibility	▶ Easier to define new types of requests and responses
Improved Identifiers	▶ Human-Friendly URN-based Identifiers



Summary: Key Features and Services

- Standards: Provides standards-based way to manage information assets
- Classification and affiliation: Manages userdefined organization of and relationships among content and metadata
- Validation: Enforces conformance of content to user-defined standards
- Lifecycles: Governance capabilities for managing information asset lifecycles



Summary: Key Features and Services (2)

- Query: Provides flexible mechanisms for content discovery
- Security: Manages secure access to information assets
- Event notificaton: Facilitates event-based delivery of information to appropriate personnel or systems
- Federation: Enables integration of information assets across organizational boundaries



Future Directions

- Interop testing
- Conformance specification
- Semantic content management
- More profiles- e.g. Dublin Core
- More protocol bindings SMTP, RM, ebMS
- *****



Summary

- ebXML Registry is a standard for secure, federated information management
- One registry supporting both SOA and eBusiness use cases
- Extensibility enables domain-specific profiling of Registry capabilities
- It is being deployed in diverse applications by organizations worldwide



Related Links

- Cover Pages Article: http://xml.coverpages.org/ni2005-02-14-a.html
- ebXML Registry Meta Links page: http://ebxmlrr.sourceforge.net/tmp/ebXMLRegistryLinks.html

ebXML Registry 3.0: An Overview Finish

