

# ebXML Registry Update

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# Agenda

- What is ebXML?
- What is ebXML Registry?
- Primary Use Cases
- Key Features
- Key Benefits
- Adoption & Case Study
- Future Directions
- Summary

# What is ebXML?

ebXML enables enterprises of any size, in any location to meet and conduct business through the exchange of XML-based messages.

- A modular suite of technical specifications.
- Developed by OASIS and UN/CEFACT.
- Enables enterprises to communicate with each other using open standards.
- Approved by ISO as ISO/TS 15000

# What is ebXML Registry?

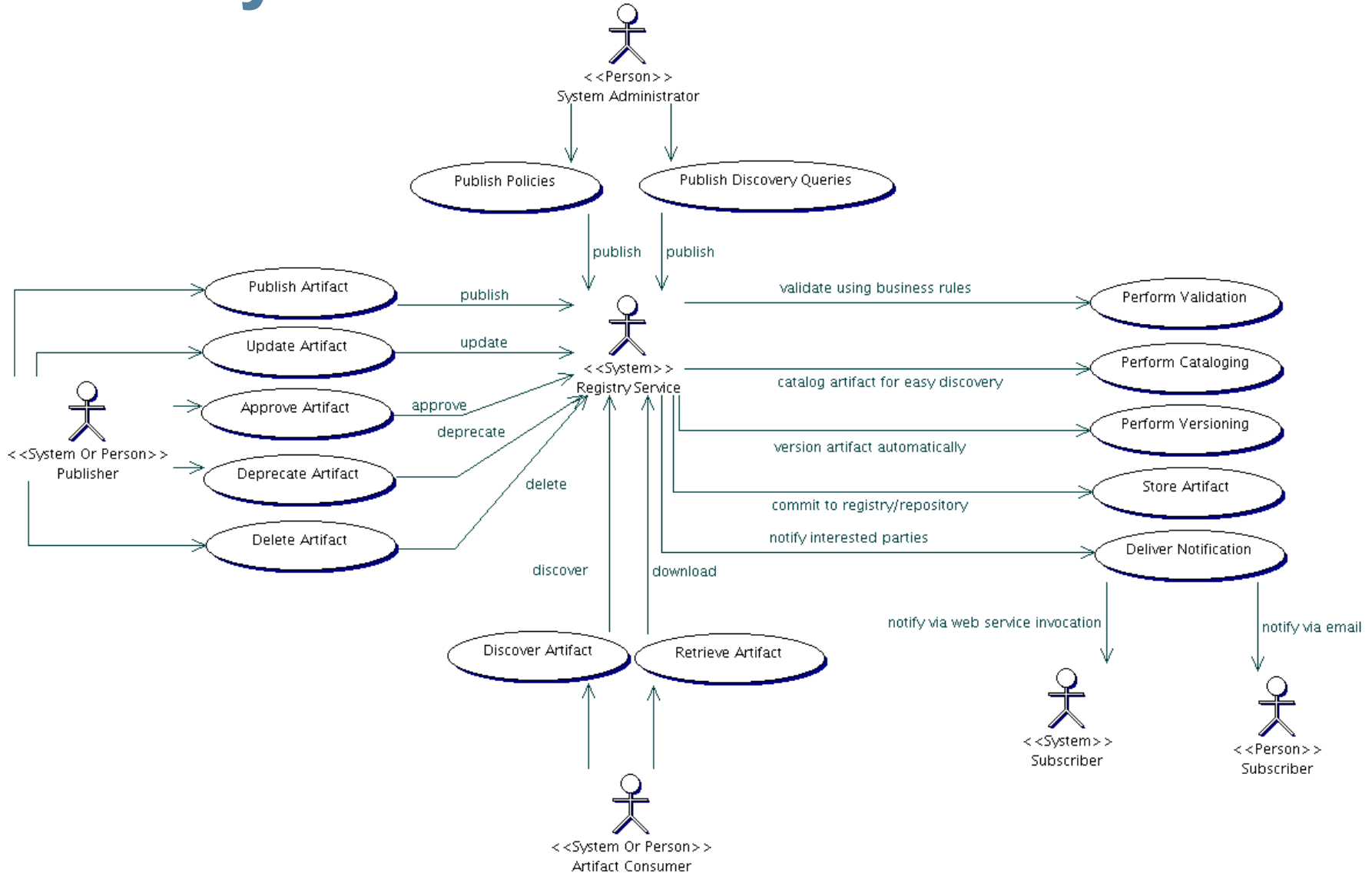


- A Service Oriented Architecture registry as well as repository.
  - > A content management system for secure, federated information.
- Two standards developed by the OASIS ebXML TC
  - > ebXML Registry Information Model (RIM)
  - > ebXML Registry Services and Protocols (RS)
- Version 2.0 approved as OASIS standard May 2002
  - > Approved as ISO 15000 parts 3 & 4 March 2004
- Version 3.0 approved as OASIS standard May 2005

# Primary Use Cases

- SOA registry and repository
- Web content management
- Controlled vocabulary
- Business process catalog
- Electronic forms
- ebXML core components catalog
- Domain-specific use cases
  - > Electronic medical records (IHE-XDS)
  - > Geological Information Systems (Open GIS)
  - > Metadata store for grid computing

# Primary Use Cases



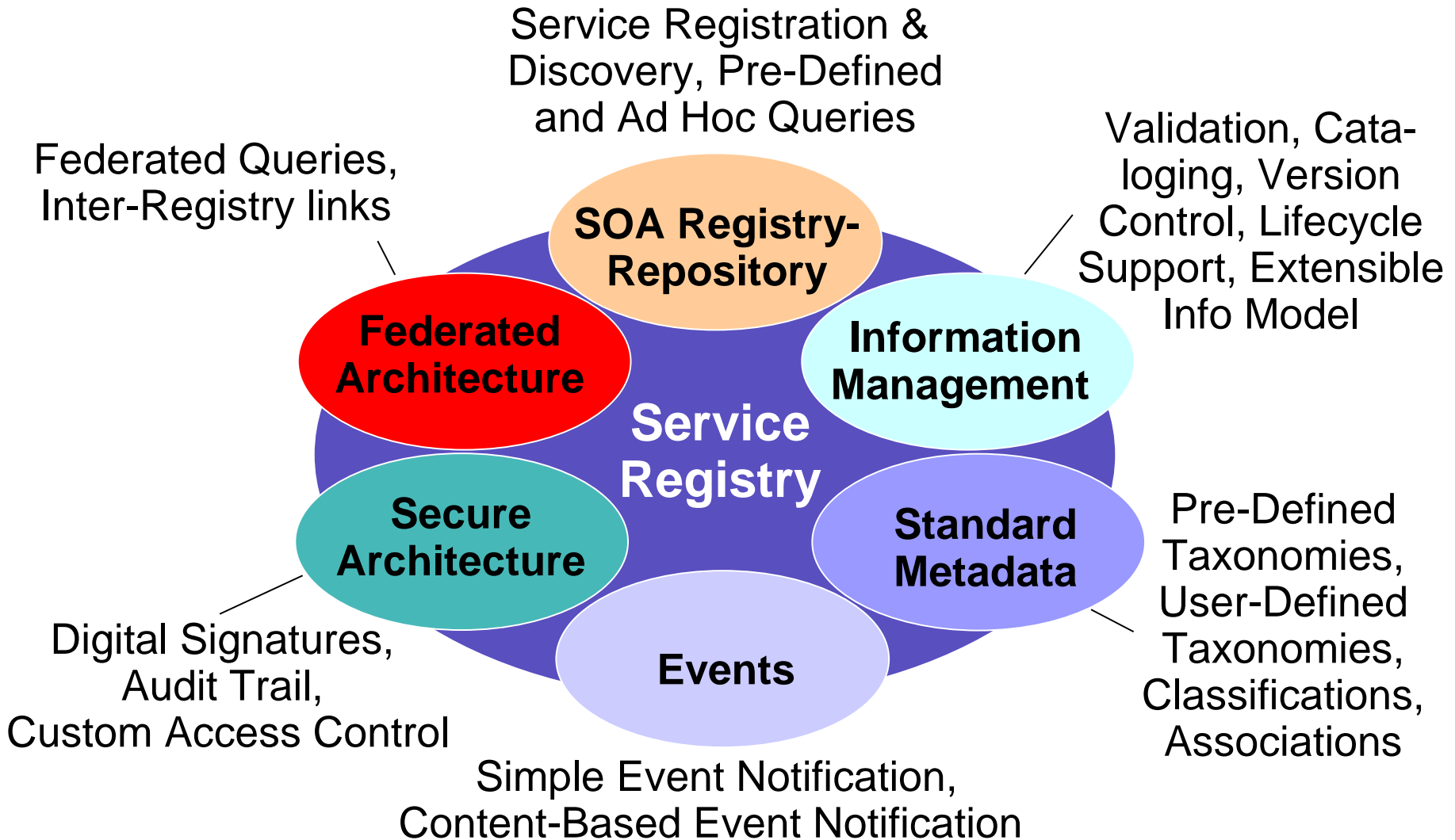
# Why a SOA Registry/Repository (1 of 2)

- Rising complexity of SOA deployments
  - > Many types of artifacts (WSDL, XML Schema, BPEL, Policies, XSLT, WSRP)
  - > Many dependencies and relationships
- Need for governance of SOA artifacts
  - > Single point of contact to enforce organizational policies
- A registry-repository is that central service that enables SOA governance

## Why a SOA Registry/Repository (2 of 2)

- Governance is enforced where SOA artifacts are stored
  - > You can't govern what you don't control
- Registry is not enough
  - > Registry stores metadata about artifacts
  - > Repository stores the actual artifacts
- Registry with integrated repository brings SOA artifacts under your control
  - > Governed by your organizational policies

# Service Registry: Key Features



# Service Registry: Key Benefits(1 of 2)

- Provides a 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.

# Service Registry: Key Benefits(2 of 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.

# 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-Enterprise Document Sharing (IHE-XDS)
  - > ebXML Core Components profile

# Adoption with Governments

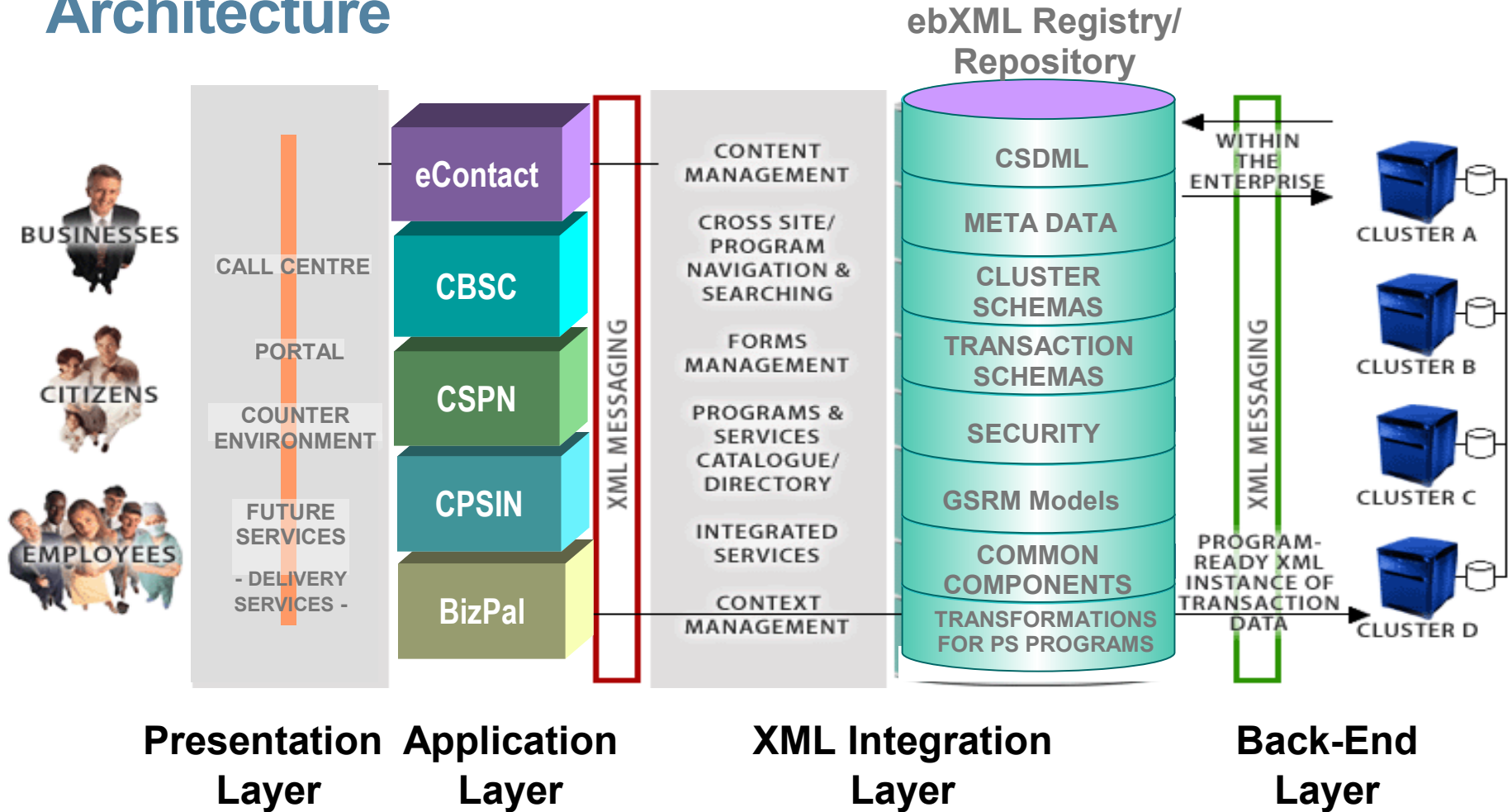
- Governmental bodies are prominent among ebXML Registry adopters for electronic information management and dissemination
  - > Finland : XML Schemas and eForms
  - > UN/CEFACT, EDI France : eBiz reference data
  - > US NIST: Clinical documents
  - > Taiwan : eGovernment platform
  - > Korea : Central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

# Case Study:

## Government of Canada / Ontario

- Vision: Improve service quality to Canadian people and businesses through cost-effective eServices at all levels of government
- Target: Leverage the power of XML to deliver those services via collaboration, across jurisdictions
- Strategy: Enable service delivery infrastructure by utilizing a federated Registry and Repository

# Government of Canada (2): Registry/Repository enables e-Government Architecture



# Sun Service Registry

- Designed for complex SOA deployments
- Supports major SOA use cases
- Extensible to support diverse use cases
- Based upon open standards:
  - > ebXML Registry, UDDI, SAML, XACML...
- Based upon open source freebXML Registry project
- Integrated with Java Enterprise System

# Future Directions

- Interoperability testing
- Conformance specification
- Semantic content management
- More profiles (e.g. Dublin Core)
- More protocol binding (SMTP, RM, ebMS, etc.)

# 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
- ebXML is being deployed in diverse applications by organizations worldwide
- Sun is an industry leader in SOA registry-repository and federated information management

# Related Links

- OASIS ebXML Registry Technical Committee
  - > <http://www.oasis-open.org/committees/regrep/>
- Articles on ebXML Registry 3.0 standard:
  - > <http://xml.coverpages.org/ni2005-02-14-a.html>
  - > [http://searchwebservices.techtarget.com/originalContent/0,289142,sid26\\_gci1122135,00.html?track=NL-130&ad=527537](http://searchwebservices.techtarget.com/originalContent/0,289142,sid26_gci1122135,00.html?track=NL-130&ad=527537)
- ebXML Registry Meta Link page:
  - > <http://ebxmlrr.sourceforge.net/tmp/ebXMLRegistryLinks.html>
- Sun Service Registry
  - > [www.sun.com/products/soa/registry](http://www.sun.com/products/soa/registry)

# Thank You

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