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Through
School”*

Data Strategy Enterprise-Wide XML Framework Team

XML Registry and Repository Options Analysis Summary

October 31, 2003

Version 1.0

Agenda



- Objectives
- XML Registry and Repository Definition
- Registry and Repository Conceptual Architecture
- Evaluation Criteria
- Registry and Repository Software Options
- Key Findings
- Recommendation

Objectives



- Provide a definition of an XML Registry and Repository.
- Identify the evaluation criteria for selecting a Registry and Repository tool for FSA.
- Provide a summary of the tools options analysis.
- Recommend an XML Registry and Repository Approach/Tool to build FSA's Registry and Repository.

ebXML Registry and Repository Definition



Repository

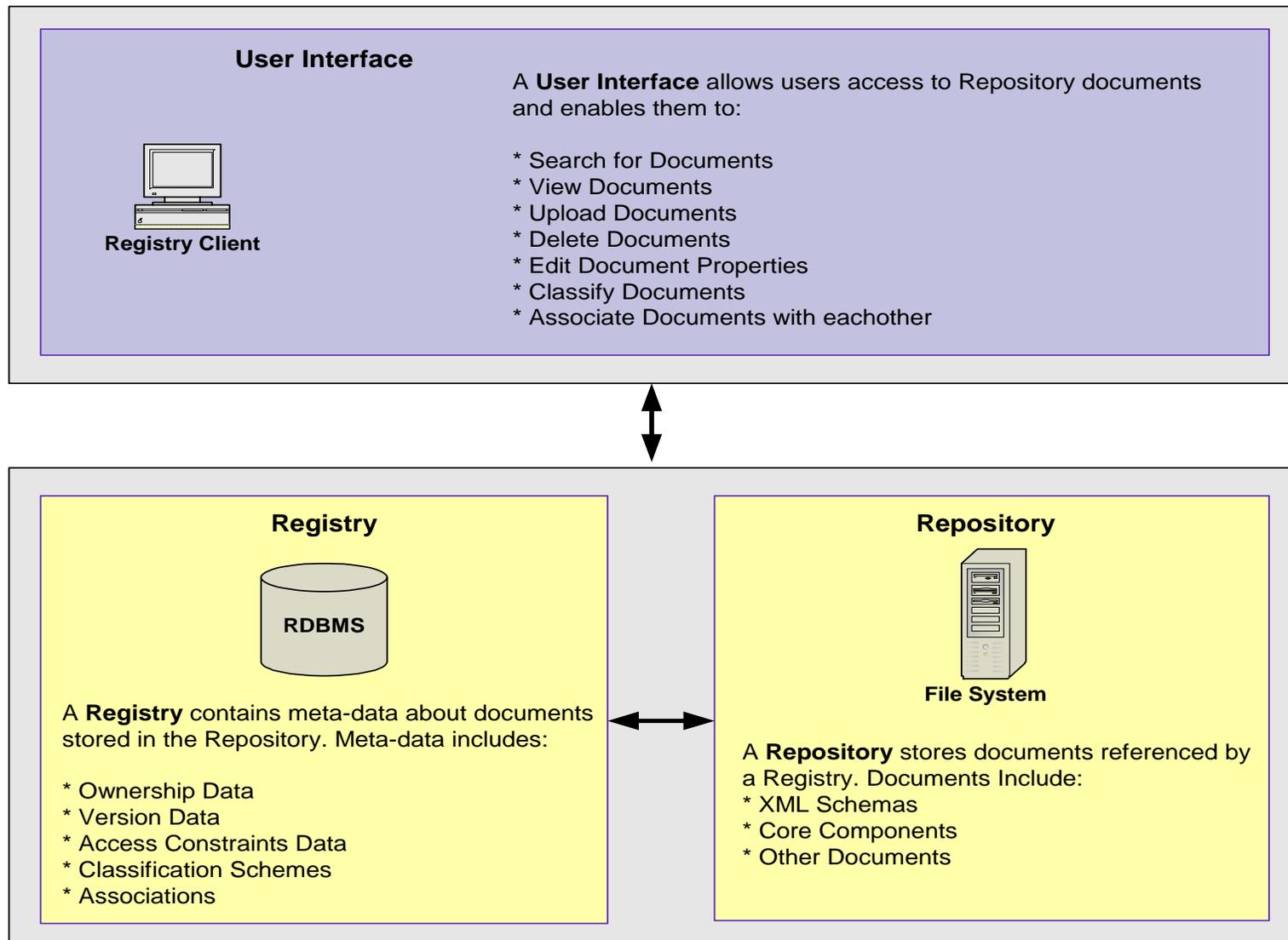
A repository is a persistent storage system where documents, templates, and software components reside.

Registry

A registry is a persistent storage system that stores metadata about the documents stored in the Repository. The metadata may include access policies, document classification schemes, associations between the documents, and document version information.

A Registry and Repository software system allows users on a network to store, categorize, search, and retrieve documents through a client interface.

Registry and Repository Conceptual Architecture



Evaluation Criteria



- User Interface Usability: Browsing, Searching, Uploading and Retrieving documents
- User Management and Security
- Extensibility
- Core Component Support
- Schema Support
- Operations Environment Support: Sun Solaris 2.8, WebSphere 5.0, Oracle 9i
- ebXML Registry Specifications Compliance
- Software Maturity
- Cost

Registry and Repository Software Options



- Blue Oxide XML Collaborator
- Custom-developed Solution
- ebXMLSoft Registry 2.1
- IBM AlphaWorks XML Registry and Repository 1.0
- InnoDigital Solme Registry and Repository
- SourceForge ebxmlrr-2.1-beta 3
- Tibco XML Canon/Developer 2.1
- XENI Reg/Rep 2.0
- XML Global GoXML Registry 4.0
- Yellow Dragon ebRegistry 1.0

Options Analysis Summary



	Usability	Security	Extensibility	CC Support	Schema Support	FSA Environment Support	ebXML Support	Maturity	Cost
Blue Oxide									
ebXMLSoft									
IBM									
InnoDigital									
ebxmlrr									
Tibco									
XENI									
XML Global									
Yellow Dragon									
Custom									

Not Available
 Minimal
 Average
 Above Average
 Superior
 Unknown

Key Findings



- The Commercial Off-the-Shelf (COTS) options presently available have limited or no support for Core Component and metadata information.
 - The COTS solutions lack an efficient way to store and query Core Components.
- The COTS software tools are inflexible with respect to customization.
- The COTS options presently are not mature enough. The options evaluated support v. 2.0 of the ebXML Registry specifications at the highest. Registry Information Model Specification (ebRIM) and Registry Services Specification (ebRS) v. 2.5 have already been approved as OASIS standards.

Recommendation



- Based on this tools analysis, we recommend developing a custom solution.
- The custom solution will provide FSA with the following key items:
 - Support of FSA production environment.
 - Extensibility for future enhancements.
 - Core Component support.
 - Schema support.
 - Improved usability.
- The custom-developed XML Registry and Repository will be a Web-based application that consists of Java Server Pages (JSPs) and Servlets that access an Oracle database. In order to provide support for the ebXML standard, the database structure will be based on OASIS's ebXML specifications for Registry and Repository v. 2.5.