

ADL Registry Users Group

7/14/2009

Introductions



ADL Registry 1.7 Overview



ADL Registry Web Portal Changes

Eric Sakmar



ADL Registry Web Sites

- Informational Site
 - <http://www.adlnet.gov/Technologies/adlr/default.aspx>
 - News and Announcements
 - Frequently Asked Questions
 - Documentation
 - Events and Event Registration





ADL Registry Web Sites

- Functional Site
 - <http://adlregistry.adlnet.gov>
 - Search
 - Contribute
 - Register Repositories and Contributors
 - Practice Registry
 - Help and Contact



Questions or Comments?



ADL Registry Documentation

Scott Lewis

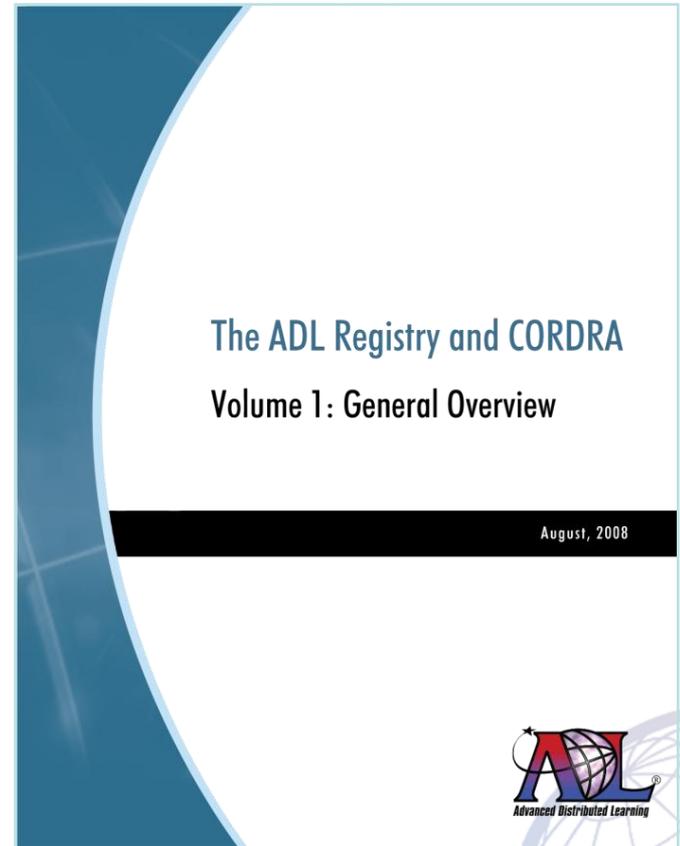
The ADL Registry and CORDRA

**Scott Lewis, Technical Editor
Institute for Defense Analyses**



Volumes

- 1: General Overview
- 2: Registry Overview and User's Guide
- 3: Technical Reference
- 4: CORDRA
- 5: Services and Tools (tentative)
- Sponsor: DoD/OSD/ Personnel & Readiness





Contributors

- Institute for Defense Analyses
 - Bill Blackmon, Dexter Fletcher, GA Redding, Eric Roberts
- Corporation for National Research Initiatives
 - Henry Jerez, Larry Lannom, Giridhar Manepalli
- Concurrent Technologies Corporation
 - Joanne Mekis, Eric Sakmar, Schawn Thropp
- Stanley Associates
 - Nina Deibler, Jacob Marks, Damon Regan
- Serco North America
 - Angelo Panar





1: Overview

- General introduction to the ADL Registry and CORDRA
- Background, history, high-level requirements, design assumptions, and rationale
- Provides context for remaining volumes
- Audience: Anyone seeking a basic introduction and orientation





Contents

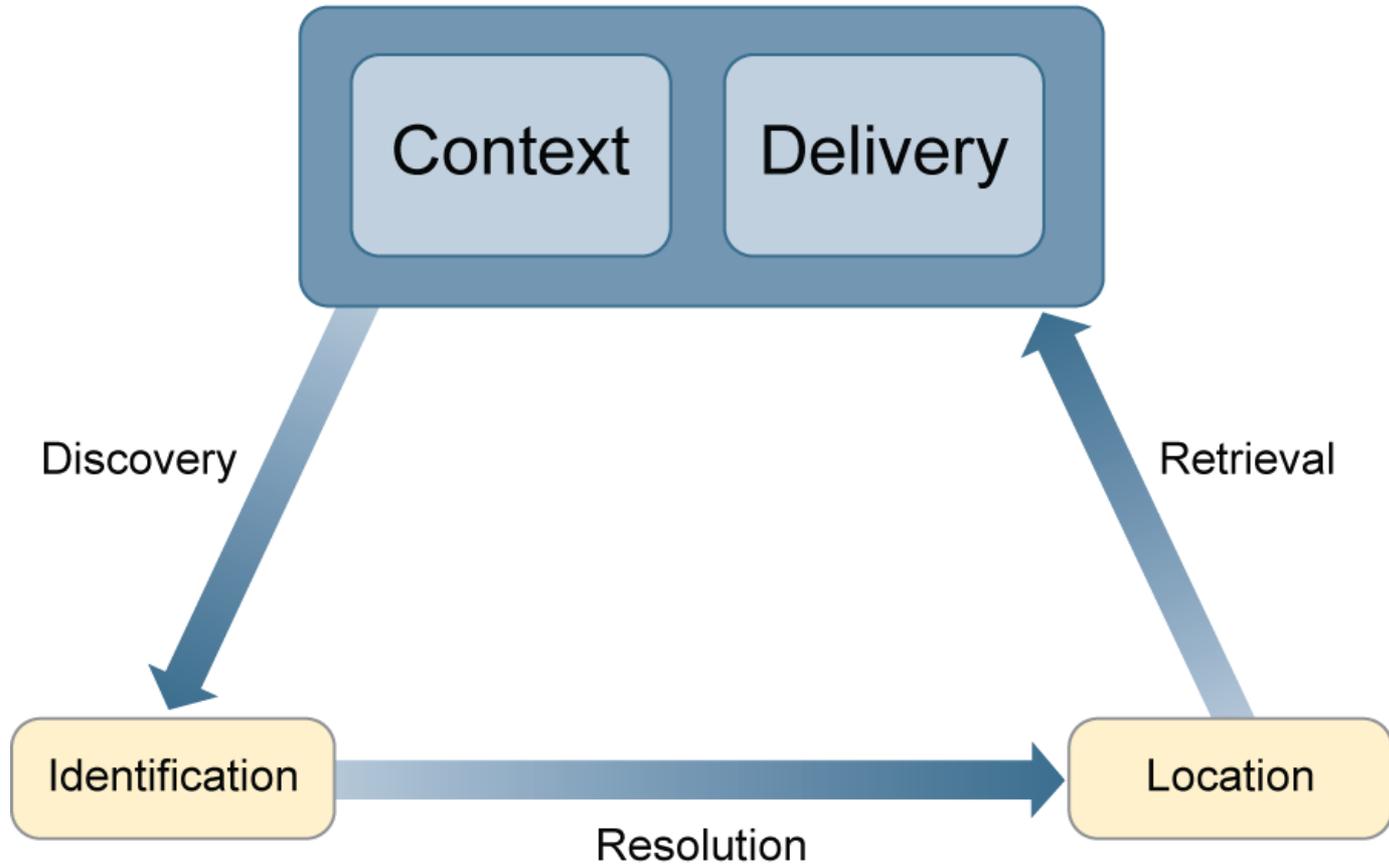
- 1 Introduction
 - 1.1 CNRI, ADL, and CORDRA
 - 1.2 Context, discovery, and resolution in CORDRA
- 2 The problem
 - 2.1 Why it is a difficult problem?
 - 2.2 Limitations of Web searches
 - 2.3 Federating object repositories
 - 2.4 More than a simple database problem
 - 2.5 Summary
- 3 CORDRA and the ADL Registry
 - 3.1 High-level assumptions and requirements
 - 3.2 Relating context, discovery, and resolution
 - 3.3 A unifying architecture





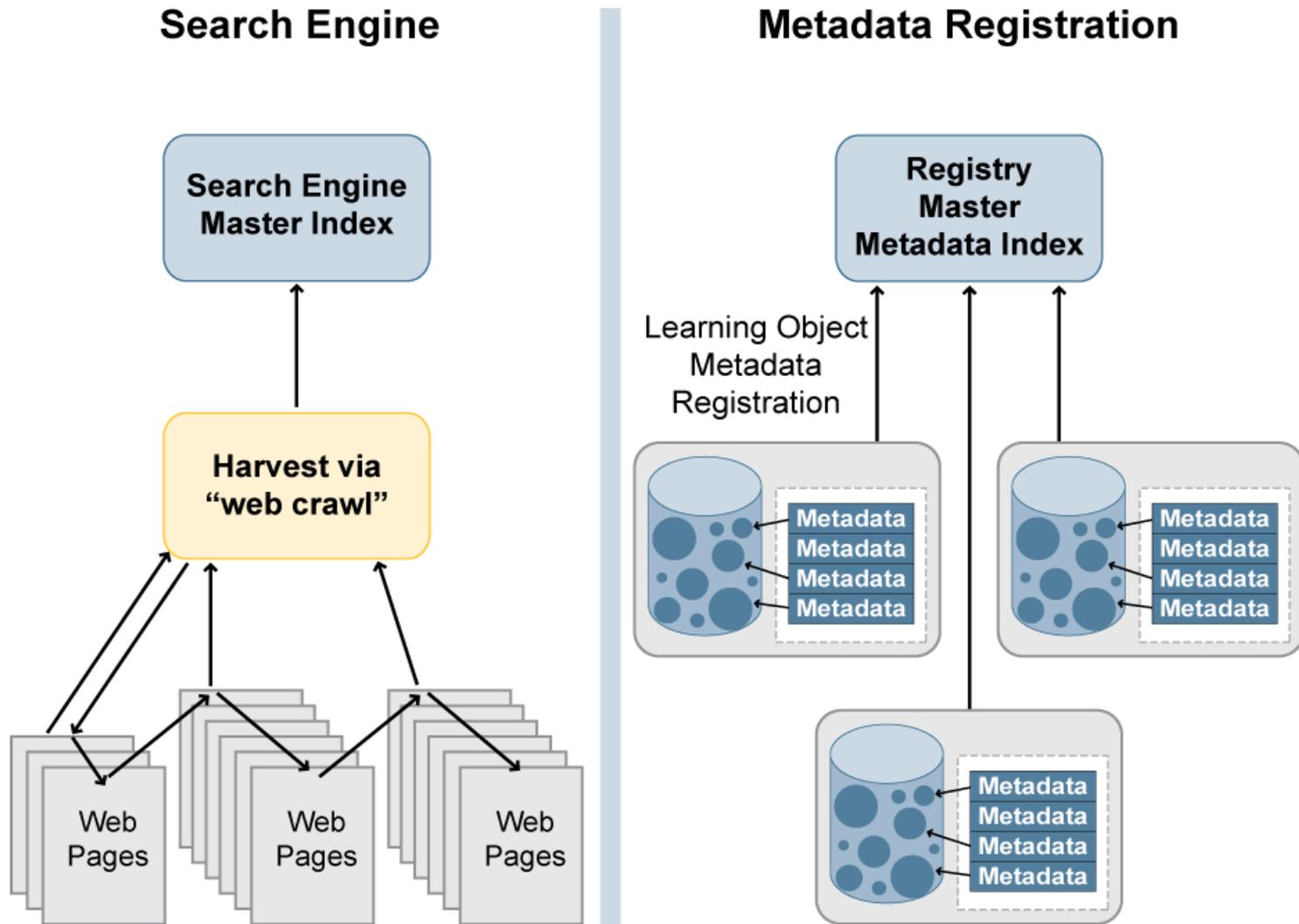
The CORDRA Triangle

USER





Search engines vs. Registry





Status

- Available at the ADL Web site
 - <http://adlnet.gov/>
 - What We Do → ADL Registry → ADL Registry Documentation
- Or, via the ADL Registry site
 - <http://adlregistry.adlnet.gov>
 - Help → About the ADL Registry → ADL Registry Documentation





2: Registry Overview and User's Guide

- More detailed description of the registry
- Detailed Web-site user's guide with screen shots. (42 and counting)
- Metadata creation for non-technical personnel
- All aspects of registering, contributing, and searching
- Audience: Repository managers, metadata creators, object contributors, searchers





2: Registry Overview and User's Guide

- Participant roles
- What to register
- How to register repositories and contributors, contribute metadata, and search for objects
- Contributor and manager rights
- Creating object metadata
- Transaction types and creating transaction metadata
- Common errors
- Advanced search appendix





Contents

- 1 Introduction
- 2 An overview of the ADL Registry
 - 2.1 High-level description
 - 2.2 Participant roles and descriptions
 - 2.3 ADL-compliant object repositories
 - 2.4 ADL Registry structure and functionality
 - 2.5 The practice registry
 - 2.6 The Handle System[®]
- 3 Using the ADL Registry Web site
 - 3.1 Searching the ADL Registry
 - 3.2 Registering a repository
 - 3.3 Registering a contributor
 - 3.4 Contributing metadata





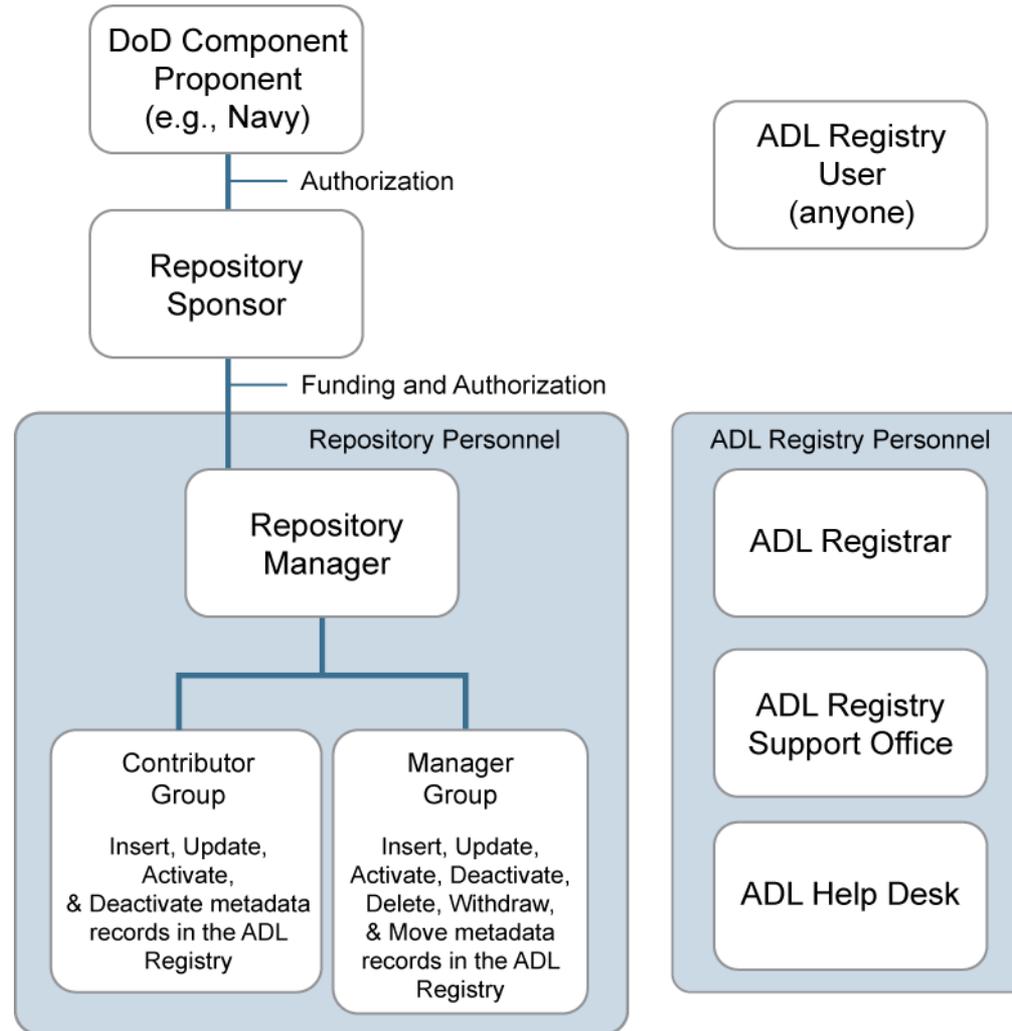
Contents (continued)

- 4 Digital object metadata
 - 4.1 Creating metadata for objects
 - 4.2 Mandatory metadata elements
 - 4.3 Optional metadata elements and extensions
- 5 Transactions and transaction metadata
 - 5.1 The insert transaction – digital object registration
 - 5.2 Transaction type overview
 - 5.3 Transaction metadata
- 6 Common errors
- Appendix: Advanced searches



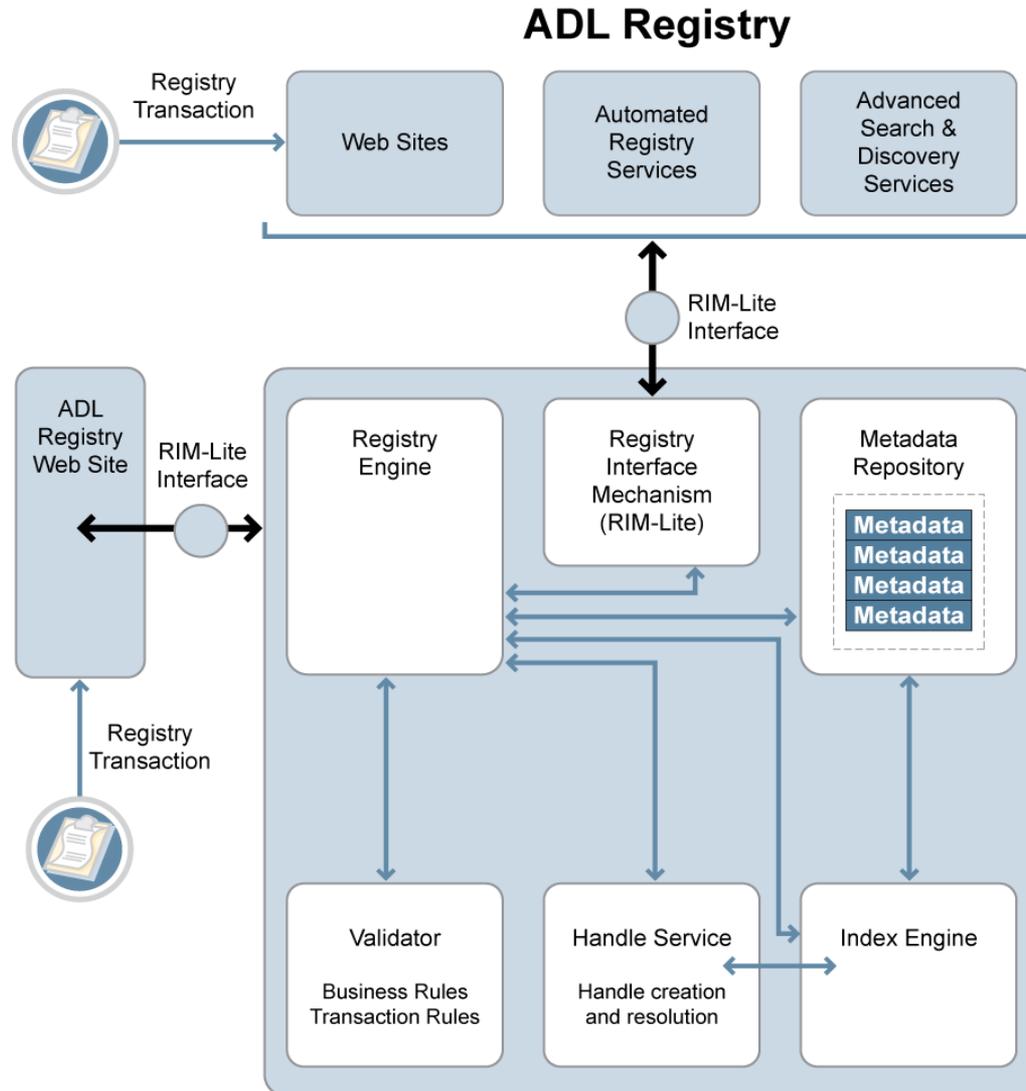


Participants





Registry modules





Contribution form

General Digital Object Information

This section includes basic descriptive information about your digital object. All fields in this section are required. You must provide at least one descriptive keyword for your digital object.

Title:



Sonar Fundamentals

Keywords:



underwater detection

Add

Remove

sonar
submarine warfare

Description:



Provides a basic background in sonar theory and use.





Object metadata

Element name	Description	Use	Example
Title (Use once only)	A descriptive title for the object.	If the object has an official title, such as a title that is or will be listed in a course catalog, use the official title.	HAZMAT Familiarization & Safety in Transportation (AMMO-67)
Copyright and Other Restrictions (Use once only)	Identifies whether there are copyright or other restrictions on use of or access to the object.	Choose one of the following: yes no	Yes NOTE – Choosing “yes” does not preclude others from sharing your object. It simply informs them that restrictions exist. Generally, a searcher would contact the author to discuss any restrictions.



Status

- Will be submitted for final review and IDA publication process this month
- Available Q3, 2009





3: Technical Reference

- Detailed technical information
 - RIM–Lite interface
 - Digital object and transaction metadata with XML examples
- Complete error appendix
- Complete LOM appendix
 - Required elements and vocabularies
 - Optional elements
- Audience: Tool and Web-site developers, other technical personnel





Contents

- 1 RIM–Lite interface technical reference
 - 1.1 Overview of interface methods
 - 1.2 Communicating with the ADL Registry
 - 1.3 Commands
 - 1.4 Flow of metadata submissions
 - 1.5 Transaction status report
 - 1.6 Updating submissions
 - 1.7 Deleting submissions
 - 1.8 Withdrawing submissions
 - 1.9 Activating and deactivating submissions
 - 1.10 Moving digital objects
 - 1.11 Searching





Contents (continued)

- 2 Digital object metadata technical reference
 - 2.1 Object metadata element table
 - 2.2 Object metadata XML binding
 - 2.3 Encoding vCard
 - 2.4 MIME types in ADL Registry
 - 2.5 Example metadata XML record
- 3 Transaction metadata technical reference
 - 3.1 Transaction metadata element table
 - 3.2 Transaction envelope metadata overview
 - 3.3 Transaction XML binding
 - 3.4 Example transaction metadata XML record
- Appendix A: Error reference
- Appendix B: IEEE LOM reference





V2 vs. V3: title element

Element name	Description	Use	Example
Title (Use once only)	A descriptive title for the digital object.	If the digital object has an official title, such as a title that is or will be listed in a course catalog, use the official title.	HAZMAT Familiarization & Safety in Transportation (AMMO-67)





V2 vs. V3: title element

2.2.3 *general.title element*

Reference	Element name	Element type	Multiplicity
1.1.1	<title>	Value - string	1 and only 1

The <title> element represents the name given to the digital object.

Data type: *LangString.*

Multiplicity requirements: *Shall appear 1 and only 1 time.*

Example:

<!-- The title of the digital object -->

<title>

<string language="en-US">SCORM 2004 3rd Edition Data Model elements

Content Example (DMCE)</string>

</title>





Status

- Review draft in process
- Should be available in Q4, 2009





4: CORDRA

- Provides more detail on CORDRA
- Audience: Those who are investigating solutions to object registration and discovery in general
- Status:
 - Preliminary draft
 - Should be available in first half of 2010





5: Services and Tools

- Describes value-added services and tools that are currently available or in development
- Explains how new services can be created to extended the capabilities of registry systems
- Audience: Those interested in using or creating tools and services
- Status:
 - Preliminary draft pending
 - May not happen





Summary

- ADL is in the process of providing complete, detailed documentation for the ADL Registry and Web site
- The documentation will serve both the user and developer communities
- Volume 1 available now
- Volumes 2 and 3 are in process and will be available relatively soon
- Volumes 4 and 5 at early stages of development



ADL Registry Changes

Eric Sakmar



ADL Registry Changes

- Identifiers
- Registry Transaction Envelope
- LOM Overview
- Search Results





Identifier Changes

- Updated to implement naming conventions
- Impacts all Repository, Group and Contributor identifiers





Repository Identifiers

- Consist of
 - Repository identifier prefix (100.51)
 - First nine letters of repository title or acronym (acronym preferred)
 - A letter to prevent duplicate identifiers
- Example
 - Microsoft Repository >> 100.51/msa



Group Identifiers

- Consist of
 - Group Identifier prefix (100.3.grp for operational registry; 4444.grp for practice registry)
 - Repository identifier suffix
 - A three-digit number, starting at 001
 - 001 indicates a Users Group (restricted permissions)
 - 002 indicates a Managers Group (full permissions)
- Example
 - Microsoft Repository, Operational Registry, Managers Group >> 100.3.grp/msa002



Contributor Identifiers

- Consist of
 - the first letter of the contributor's first name
 - the first nine letters of the contributor's last name
 - a three-digit number, starting at 001, that will be incremented as needed to prevent duplicate contributor identifiers
- Example
 - Bill Gates >> bgates001





What this means to you...

- All objects were re-registered with the new identifiers
- All Contributor passwords were set to a default password
 - Visit <http://adlregistry.adlnet.gov> to change your passwords
- Repository managers must provide ADL with the most current contributor lists and contact information



Registry Transaction Envelope

- Multiple, Typed URLs
- Types of URLs
 - object - Direct link **to the object itself**, no authentication required
 - advertisement - link to information about the object (preview, screenshot, etc.)
 - runtime - link to the object in a runtime environment
 - contact – link to information about a contact through which the object may be requested
 - extended metadata – link to additional metadata
 - repository – link to the object in a repository, authentication may be required





What this means to you...

- All objects were re-registered to comply with the new syntax
- All of the old URLs were assigned the type 'object'
- If this type is inaccurate for any of your URLs, update the locations with a 'move' transaction





LOM Changes Overview

- 'conformance' was replaced with 'compliance'
- 'content object' was replaced with 'object'
- Additional support for Educational Objectives and Competencies
 - Represented in <classification> elements
- Additional values for 'complies with' classification
- Additional values for 'object type' classification



What this means to you...

- All objects were re-registered to comply with the new vocabularies
- No need to update anything unless you want to use the new parts





Search Results



[Home](#) → [Search](#) → [Search Results](#)

▼ Search

- [Basic Search](#)
- [Advanced Search](#)
- [Search by ID](#)
- [Resolve Search Receipt](#)

► Contribute

► Practice Registry

► Help

Search Results

Showing 1 - 1 of 1

Results for: ""example submission"" 1

[Request Receipt for this Search](#)

Example Submission

This is an example submission that is used to demonstrate ADL Registry features.

[get object](#) [view metadata](#)

Object: <http://adlregistry.adlnet.gov/package.zip>
Advertisement: <http://adlregistry.adlnet.gov/ad.html>
Runtime: <http://adlregistry.adlnet.gov/lms/example.html>
Contact: <http://adlregistry.adlnet.gov/contact.html>
Extended Metadata: <http://adlregistry.adlnet.gov/extendedmetadata.xml>
Repository: <http://adlregistry.adlnet.gov/repository/exmample>

1

Sponsored by the Office of the Under Secretary of Defense for Personnel and Readiness (OUSD P&R)
This is an official web site of the U.S. Government. © 2009 Advanced Distributed Learning (ADL).



Questions or Comments?



Open Discussion

Experiences, Issues, and Needs

Jason Haag
Angelo Panar

ADL Registry 1.7 Metadata Changes

Eric Sakmar



Metadata Changes

- 'conformance' to 'compliance'
 - LOM Classifications
 - 'conforms to' >> 'complies with'
 - 'ADL/DOD Conformance Taxonomy' >> 'ADL/DOD Compliance Taxonomy'





Metadata Changes

- 'content object' to 'object'
 - XML Elements
 - contentObjectDescriptor >> objectDescriptor
 - cordraContentObject >> cordraObject
 - contentObjectIdentifier >> objectIdentifier
 - contentObjectLocation >> objectLocation
 - communityContentObject >> communityObject
 - LOM Classifications
 - 'content type' >> 'object type'
 - 'ADL/DOD Content Type Taxonomy' >> 'ADL/DOD Object Type Taxonomy'
 - 'ADL/DOD Content Category Taxonomy' >>
 - 'ADL/DOD Object Category Taxonomy'





Metadata Changes

- Additional support for Educational Objectives and Competencies
 - Create a lom:classification element
 - Set value to lom:classification/lom:purpose/lom:value 'educational objective' or 'competency'
 - Set values for
 - lom:classification/lom:taxonPath/source
 - lom:classification/lom:taxonPath/lom:taxon/lom:id
 - lom:classification/lom:taxonPath/lom:taxon/lom:entry



Metadata Changes

- Additional values for ‘complies with’ classification
 - SCORM 2004 3rd Edition
 - SCORM 2004 4th Edition
 - SCORM Version 1.2
 - S1000D V2.0
 - S1000D V2.1
 - S1000D V2.2
 - S1000D V2.3
 - S1000D V3.0
 - S1000D V4.0
 - IEEE 1484.20.1-2007 RCD
 - other





Metadata Changes

- Additional values for 'object type' classification
 - asset
 - sco
 - aggregation
 - other

Questions or Comments?

