NISO ERM Data Standards and Best Practices Review Update

LITA/ALCTS ERM Interest Group
June 24, 2011
Tim Jewell (tjewell@uw.edu)
Gateway to Improving ERM System Deliverables:
NISO ERM Data Standards and Best Practices Review
Welcome!

Deberah England
Electronic Resources Librarian
Wright State University

Bob McQuillan
Senior Product Manager
Innovative Interfaces

NASIG GATEWAY TO COLLABORATION 2011
ERM Data Standards and Best Practices Review

- Ivy Anderson (co-chair, California Digital Library)
- Tim Jewell (co-chair, University of Washington)
- Jeff Aipperspach (formerly Serials Solutions)
- Deberah England (Wright State University)
- Rafal Kasprowski (Rice University)
- Tim McGeary (Lehigh University)
- Bob McQuillan (Innovative Interfaces)
- Angela Riggio (UCLA)
Electronic Resource Management Initiative (ERMI), Phase I

- Workshop co-sponsored by NISO and the Digital Library Federation (DLF) in 2002

- ERMI evolved under the guidance of DLF to:
  
  “Develop common specifications and tools for managing the license agreements, related administrative information, and internal processes associated with collections of licensed electronic resources”
Functional Requirements

- Support the “Life Cycle” of electronic resources:
  - Selection and acquisition
  - Access provision
  - Resource administration
  - User support and troubleshooting (staff and end-users)
  - Renewal and retention decisions

- E-Resource Acquisitions Workflow
Relationships
(Data Model)
- Packages and their constituent parts
- Knowing which resources share the same interface, license terms, business terms, etc.
Information (Data Dictionary)
- License permissions and constraints
- User ID, passwords, administrative info, etc.
- Contacts for support and troubleshooting
- Cancellation restrictions, price caps, etc.
DLF ERMI 2004 Report

- **Workflows**
  - (Functional Requirements)
  - Mounting Trials
  - Routing Licenses
  - Placing Orders
  - Implementing access
  - Notifying relevant staff
Electronic Resource Management Initiative (ERMI), Phase 2

- SUSHI
- CORE
- License Mapping
- Data dictionary review
ERMI 1 & 2 participants addressed future of ERMI data dictionary and related issues:
  - Libraries need help with workflows & best practices
  - Existing ERM Systems
    - Under-developed
    - Need more functionality
      - Import / export data
      - Support everyday business activities / functions
  - Data exchange is critical
  - ERMI data model still important
  - Data dictionary key to functionality & interoperability
  - License elements / values need simplification
The “Plan”

- “Gap analysis” regarding ERM–related data, standards and best practices
- Review ERMI Data Dictionary
  - Map elements to other relevant standards projects
- Consult with vendors, libraries using ERM systems and other stakeholders for additional feedback
  - Data requirements
  - Implementation
  - Standards
Project Deliverables

- Recommend future of ERMI Data Dictionary
- Describe challenges libraries face with current ERM systems and services
- Identify gaps in interoperability and best practices
- Report to be delivered to the NISO Business Information Topic Committee and made publicly available
Progress and Pain Points
- Results of Recent ERM Surveys

- General, including Satisfaction and Dissatisfaction
- Problems areas:
  - System implementation
  - Workflows, internal communication
  - Licensing
  - Consortial services
  - Cost per use / evaluation
  - Ebooks
- Potential bearing on Standards
Why Standards?

- Reduce re-keying
- Reduce maintenance cost & disruption
- Durability of data
- Avoid supplier lock-in
- Easier development path
- Platform for collaboration
- Whole system economies

Source: “The Business Case for Standards” (JISC)
Standards vs. Best Practices?

- NISO Standards
  - Balloted – e.g., MARC, ONIX–SOH, Z39.50
- Formally designated Best or Recommended Practices
  - E.g., CORE, KBART, SERU
- “Local” Best Practices
- Vendor and product identity management is a major problem:
  - Represent vendor–resource–holdings relationships
  - Manage resource and holdings in standardized, shareable way
Standards & Best Practice Categories

1. Link resolvers & knowledge bases
2. The Work, manifestations & access points
3. Integration of usage & cost–related data
4. Coding license terms & defining consensus
5. Data exchange using institutional identifiers

1. Link resolvers & knowledge bases

- OpenURL (OCLC)

- KBART (NISO)
  - Knowledge Base And Related Tools

- IOTA (NISO)
  - Improving OpenURLs Through Analytics
2. The Work, manifestations & access points

- DOI (International DOI Foundation)
  - Digital Object Identifier
- MARC 21 (The Library of Congress)
- ONIX for Serials (EDItEUR)
  - SOH (Serials Online Holdings)
  - SPS (Serials Products and Subscriptions)
  - SRN (Serials Release Notification)
- ONIX for Books
- PIE–J (NISO)
  - Presentation and Identification of E–Journals
- Transfer Code of Practice (UKSG)
3. Integration of usage & cost-related data

- **CORE (NISO)**
  - Cost Of Resource Exchange

- **COUNTER (UKSG)**
  - Counting Online Usage of NeTworked Electronic Resources

- **SUSHI (NISO)**
  - Standardized Usage Statistics Harvesting Initiative
4. Coding license terms & defining consensus

- **ONIX–PL (EDItEUR)**
  - ONIX for Publications Licenses

- **SERU (NISO)**
  - Shared Electronic Resource Understanding
5. Data exchange using institutional identifiers

- \( I^2 \) (NISO)
  - Institutional Identifiers

- Shibboleth (Internet2 Middleware Initiative)

- vCard (Internet Mail Consortium)
Takeaways so far . . .

- Much to applaud, build on from wide variety of standards and best practices work
- Future of ERMI data dictionary still unclear
- Major problem areas remain, including
  - License complexity, expression/encoding
  - Workflow support
Project loose ends . . .

- **Immediate (by end of June)**
  - Provide access to full, original version of Collins/Grogg ERM survey article

- **Near-term (July/August)**
  - Complete, release “discussion paper”
  - Provide access to documents
    - Standards “mapping” spreadsheets
    - Workflow documents
      - Bibliography
      - Internal documents from selected libraries
  - Complete summary/highlights version for NASIG Proceedings
More Information

ERM Data Standards and Best Practices Review Working Group

http://www.niso.org/workrooms/ermreview