Collaborating communities: the RDA experience and its implications for common information environments

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RDA

Resource Description and Access

A new standard designed for the digital world, built on foundations established by the Anglo-American Cataloguing Rules (AACR)

For use primarily in libraries

Consultations are being undertaken with other communities (archives, museums, publishers, etc.) in an effort to attain an effective level of alignment between RDA and the metadata standards used in those communities

(RDA Prospectus)
More about RDA

- A key element is alignment with the conceptual models for bibliographic and authority data developed by the International Federation of Library Associations and Institutions (IFLA).
  - Functional requirements for bibliographic records (FRBR) and Functional requirements for authority data (FRAD)
- RDA will provide references to other standards for resource description and access such as those developed by the archival and museum communities
- Scheduled for publication in 2009
- Primary publication as an online product
  - Hypertext, context-sensitive, customisable
ONIX

- Publishing community project
- ONIX for Books Product Information Message is the international standard for representing and communicating book industry product information in electronic form
- ONIX mappings to UniMARC and MARC21
RDA and ONIX

  - An expert group met to discuss the adoption of a common high-level ontology of information carrier and content formats by RDA and ONIX. “Work is continuing.”

- Apr-Jul 2006
  - Work continues via email.

- 3 Aug 2006
  - Version 1.0 of the RDA/ONIX Framework for Resource Categorization is published.
  - “The RDA Editor will use both the Framework, and the recommendations of the GMD/SMD Working Group, in preparing draft text for RDA sections 3.2 (Media category), 3.3 (Type of carrier) and 4.2 (Content category).”
  - GMD/SMD = General/Specific material designation (AACR)
RDA and the framework

- 21 Mar-16 Jul 2007
  - A revised draft of RDA Part A, chapter 3 is made available for comment.
  - “The JSC is also seeking to develop an appropriate mechanism for future refinement and extension of the RDA/ONIX framework.”
- Article on the framework published in D-Lib magazine, Jan 2007
  - http://www.dlib.org/dlib/january07/dunsire/01dunsire.html
Other communities and the framework

- CIDOC Conceptual Reference Model (CRM)
  - E36 Visual Item = <SensoryMode="sight">
  - E37 Mark = <Character="language" + SensoryMode="sight">
  - E38 Image = <Character="image" + SensoryMode="sight">
- Multipurpose Internet Mail Extensions (MIME) media types
  - image = <Character="image">
  - video = <Character="image" + ImageMovement="moving">
RDA and Dublin Core

- 30 Apr-1 May 2007
- “An invitational meeting was held in London to examine the fit between RDA and models used in other metadata communities. Outcomes of this Data model meeting are available.”
- Meeting had representation from the communities
  - RDA (including the Editor)
  - Dublin Core Metadata Initiative (DCMI)
  - Simple Knowledge Organisation System (SKOS)
  - WWW standard
  - Institute of Electrical and Electronics Engineers-Learning Object Metadata (IEEE-LOM)
Data model meeting

“The meeting participants agreed that RDA and DCMI should work together to build on the existing work of both communities.

… the following activities be undertaken:

- development of an RDA Element Vocabulary
- development of an RDA DC Application Profile based on FRBR and FRAD
- disclosure of RDA Value Vocabularies using RDF/RDFS/SKOS”

- RDF = Resource Description Framework (a syntax)
RDA/DC Progress

- DC RDA Task Group implemented
  - Email list and wiki
- Application for funding submitted to National Science Foundation
  - No news yet
- Special session on RDA at DC2007, Singapore
  - 30 Aug 2007
- National Science Digital Library Metadata Registry Sandbox being used to test vocabulary disclosure in RDF/SKOS
  - Registry tools freely available on the web
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52 results
RDA and FRBR

- “Functional requirements for bibliographic records” was a significant influence on the development of AACR3 and subsequently RDA
- RDA attributes are linked to FRBR user tasks, entities, and relationships
  - Attributes presented in FRBR “order”
- RDA Joint Steering Committee meeting of October 2007 reaffirms and reinforces these links
FRBR vocabularies

- Entities and relationships
  - E.g. “work”, “is-created-by”
- Aug 2007
  - FRBR Review Group at IFLA decides to disclose vocabularies in RDF/SKOS
    - Register terms and definitions on the web
  - Small working group implemented
    - Intended completion: “Early 2008”
- Fits well with RDA/DC work
- NSDL Sandbox also used for testing
**<rdf:RDF>**

<!-- Scheme: FRBR Entities -->

- <skos:ConceptScheme rdf:about="http://ifla(namespaces/frbrEntities">
  <dc:title>FRBR Entities </dc:title>
</skos:ConceptScheme>

<!-- Concept: Concept -->

- <skos:Concept rdf:about="http://ifla(namespaces/frbrEntities/1007"> 
  <skos:inScheme rdf:resource="http://ifla(namespaces/frbrEntities"/>
  <skos:prefLabel>Concept</skos:prefLabel>
  <skos:definition>An abstract notion or idea</skos:definition>
  <skos:scopeNote>
    The entity defined as concept encompasses a comprehensive range of abstractions that may be the subject of a work: fields of knowledge, disciplines, schools of thought (philosophies, religions, political ideologies, etc.), theories, processes, techniques, practices, etc. A concept may be broad in nature or narrowly defined and precise. For the purposes of this study concepts are treated as entities only to the extent that they are the subject of a work (e.g., as the subject of a philosophical treatise, of a critique of a school of thought, etc.). [Functional Requirements for Bibliographic Records: Final Report, p.25]
  </skos:scopeNote>
</skos:Concept>

<!-- Concept: Corporate Body -->

- <skos:Concept rdf:about="http://ifla(namespaces/frbrEntities/1006"> 
  <skos:inScheme rdf:resource="http://ifla(namespaces/frbrEntities"/>
  <skos:prefLabel>Corporate Body</skos:prefLabel>
  <skos:definition>
    An organization or group of individuals and/or organizations acting as a unit
  </skos:definition>
  <skos:scopeNote>
    The entity defined as corporate body encompasses organizations and groups of individuals and/or organizations that are identified by a particular name, including occasional groups and groups that are constituted as meetings, conferences, congresses, expeditions, exhibitions, festivals, fairs, etc. The entity also encompasses organizations that act as territorial authorities, exercising or claiming to exercise government functions over a certain territory, such as a federation, a state, a region, a local municipality, etc. The entity encompasses organizations and groups that are defunct as well as those that continue to operate. For the purposes of this study corporate bodies are treated as entities only to the extent that they are involved in the creation or realization of a work (e.g., as the sponsors or endorsers of a work, etc.), or are the subject of a work (e.g., as the subject of a history, etc.). [Functional Requirements for Bibliographic Records: Final Report, pp.24-25]
  </skos:scopeNote>
</skos:Concept>
Common information environments

“A common information environment offers easy, convenient access to the widest range of information resources catering for the widest range of needs of the widest range of users. It requires the collaboration of archives, libraries, museums and governments.”

See proceedings of AKM9
Semantic Web

- “Web 3.0”
- Provides essential support for common information environments
  - Machine assistance for information retrieval across multiple collections described by varying metadata structures with varying syntax, labels and content
- RDF, SKOS, and “namespace” declarations are core components of the semantic web
  - Metadata element and value vocabularies
RDA+ and Semantic Web

- Can I restrict my search to non-visual resources?
  - Across archives, libraries and museums
- Do you define audio content the same way as I do?
- Is your concept of “title” the same as mine?
  - Archive.title = Library.title = Museum.title = Bibliotheque.titre = MARC.245
- If we don’t know, how can we instruct a machine?
  - To index the web in a structured way
- Semantic web infrastructure allows archive, library, museum and related communities to give a definite answer.
Definite answer

✧ Let’s make it …
✧ Yes!
✧ Thank you