Resource Description and Access

Overview: History, Principles, Conceptual Models

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Chief, Cataloging Policy & Support Office
Library of Congress
IFLA Satellite Meeting, Québec City, August 8, 2008
Overview

- Changes in technology
  - Impact on descriptive/access data
    - book catalogs
    - card catalogs
    - OPACs
    - next generation

- Move from individual library to international audience

- Move from classes of materials to elements and values (more controlled vocabularies)
Bibliographic Universe
Influences

- Anglo-American cataloging tradition
- Paris Principles
- ISBD
- FRBR/FRAD
- Internet
- Toronto Conference 1997
- IME ICC
- Web environment collaborations
Anglo-American Tradition

C A T A L O G U E
OF
PRINTED BOOKS
IN THE
BRITISH MUSEUM
VOLUME I.

LONDON
PRINTED BY ORDER OF THE TRUSTEES
1841
British Museum 1841
(“full and accurate” book catalog)

ACOSTA (CHRISTOVAL).

Tractado de las drogas, y medicinas de las Indias Orientales, con sus plantas. Burgos, 1578. 4º
Another copy.
The same. Ital. Venetia, 1585. 4º
Another copy.
Tractado en loor de las mugeres. Venetia, 1592. 4º

ACOSTA (DUARTE NUÑEZ DE). See Nuñez.
Anglo-American Tradition
IFLA’s Influence on Cataloguing Codes

1961 – “Paris Principles”
Anglo-American Tradition
More of IFLA’s Influence

1969 – ISBDs
  • International Standard Bibliographic Description
  • 2007 Consolidated edition
AACR2
1978
1988
1998
2002
IFLA’s Functional Requirements for Bibliographic Records (FRBR)

- User tasks
  - Find
  - Identify
  - Select
  - Obtain

- Entities, Relationships, Attributes

- Mandatory elements for a national level bibliographic record
FRBR’s Entity-Relationship Model

- Entities
- Relationships
- Attributes (data elements)

One Entity \(\xrightarrow{\text{relationship}}\) Another Entity
FRBR Entities

**Group 1**: Products of intellectual & artistic endeavor

- Work
- Expression
- Manifestation
- Item
Work is realized through Expression, which is embodied in Manifestation. Manifestation is exemplified by Item. Work can be recursive, with one or many Item manifestations.
Vocabulary

- “Book”
  - Door prop (item)
  - “publication” at bookstore any copy (manifestation)
Vocabulary

- “Book”
  - Who translated? (expression)
  - Who wrote? (work)
Group 1 Entities’ Attributes

FRBR

- **Work**
  - ID
  - Title
  - Date
  - etc.

- **Expression**
  - ID
  - Title
  - Form
  - Date
  - Language
  - etc.

- **Manifestation**
  - ID
  - Title
  - Statement of responsibility
  - Edition
  - Imprint (place, publisher, date)
  - Form/extent of carrier
  - Terms of availability
  - Mode of access
  - etc.

- **Item**
  - ID
  - Provenance
  - Location
  - etc.
FRBR Entities

**Group 2**: Those responsible for the intellectual & artistic content

- Person
- Corporate body
- Family
Group 2

Work

Expression

Manifestation

Item

is owned by

is produced by

is realized by

is created by

Person

Family

Corporate Body

many
Relationship vs. Attribute

Work \[\text{Created by} \] Person

Created by

Creates
FRBR Entities

Group 3: Subjects of works

- Groups 1 & 2 plus
- Concept
- Object
- Event
- Place
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Work 1

Tractado en loor de las mugeres.

Work 2
British Museum 1841
(“full and accurate” book catalog)

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Venetia, 1585. 4º

Manifestation 1

Manifestation 2
British Museum 1841
(“full and accurate” book catalog)

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Item 2

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LCCN Permalink : http://lccn.loc.gov/47023612
Type of Material : Book (Print, Microform, Electronic, etc.)
Personal Name : Shakespeare, William, 1564-1616.
Main Title : ... Hamlet, traduit par André Gide.
Published/Created : [Paris] Gallimard [1946]

CALL NUMBER : PR2779.H3 G5 Copy 1
-- Request in : Jefferson or Adams Bldg General or Area Studies Reading Rms

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Functional Requirements for Authority Data (FRAD)

- Bibliographic Entities
  - known by
  - Names and/or Identifiers
    - basis for
    - Controlled Access Points
FRAD

- Name
- Identifier

Controlled Access Point

- governed by Rules
- created / modified by Agency

- basis for
- applied by
Internet

- Catalogs are no longer the end points in isolation
  - Global access to data
- Integrate bibliographic data with wider Internet environment
  - Share data beyond institutions
Current Cataloging Environment

- Web-based

- Wide range of information carriers
  - complexity of content

- Metadata (bibliographic information)
  - Created by a wider range of personnel in and outside libraries
  - Element-based metadata schemas
    - Dublin Core, ONIX, etc.
1997 International Conference on the Principles and Future Development of AACR

- Toronto, Canada
- JSC invited worldwide experts
- Issues leading to RDA
- Principles
- Content vs. carrier
- Logical structure of AACR
- Seriality
- Internationalization
Strategic Plan for RDA
2002+

http://www.collectionscanada.gc.ca/jsc/stratplan.html
GOALS: RDA will be …

- A new standard for resource description and access
- Designed for the digital world
  - Optimized for use as an online product
  - Description and access of all resources
    - All types of content and media
  - Resulting records usable in the digital environment (Internet, Web OPACs, etc.)
RDA will be …

- A consistent, flexible, and extensible framework
- Compatible with internationally established principles, models, and standards
- Primarily for use in libraries, but also adaptable across many information communities worldwide
Foundations

- Support FRBR user tasks
  - Find, identify, select, obtain
- FRAD user tasks
  - Find, identify, contextualize, justify
- IME ICC statements
General Principles (IME ICC)

- Convenience of user
- Representation
- Common usage
- Accuracy
- Sufficiency and necessity
- Significance
- Economy

- Consistency and Standardization
- Integration
- Defensible, not arbitrary

- If contradict, take a defensible, practical solution.
IME ICC★ Regional Meetings

http://www.d-nb.de/standardisierung/afs/imeicc_index.htm

http://www.loc.gov/imeicc2

IME ICC3 – Middle East (2005)
http://www.loc.gov/loc/ifla/imeicc/

IME ICC4 – Asia (2006)

IME ICC5 – Sub-Saharan Africa (2007)
http://www.imeicc5.com

★ IFLA Meeting of Experts on an International Cataloguing Code
Transcription – Principle of Representation in RDA

- “Take what you see”
  - Correction of inaccuracies elsewhere
  - No more abbreviating

- Accept what you get
  - Facilitating automated data capture
Collaborations with other Metadata Communities

- ONIX (Publishers)
- RDA, Dublin Core, IEEE/LOM, Semantic Web
  - “Data Modeling Meeting” - London 2007
- RDA/MARC Working Group (MARBI)
Cataloging Scenarios

- Scenario 1
  - Linked records for entities
    - works, expressions, manifestations, items, persons, corporate bodies, families, concepts, etc.
Cataloging Scenarios

Scenario 1

- Display
  - All the works associated with a person, etc.
  - All the expressions of the same work
  - All the manifestations of the same expression
  - Related works/expressions

- Shakespeare
  - Hamlet
    - English
    - French
    - German
    - Spanish
  - Madrid 2008
    - Library of Congress
      - Copy 1
        - Green leather binding
  - Romeo and Juliet
Cataloging Scenarios

 Scenario 2

- MARC structure
  - Self-contained records
  - May or may not be any real connection between bibliographic and authority records
RDA Online Demonstrations

August 8, 2008: IFLA Satellite Workshop
demonstration of RDA Online (prototype)

Approximately October 2008-January 2009:
Review of full draft
Summary

- User-oriented models (FRBR/FRAD)
  - Collocate works/expressions
- Internationalization
  - Cost reduction
  - Across information communities
Summary

- Principle-based rules (IME ICC)
  - Cataloger’s judgment
- Facilitate harvesting and sharing of descriptive metadata
  - Less rigid, more flexible
- Add controlled vocabularies for precision of searching
JSC Public Web Site/FAQ

Thank you!
Acronyms and Links

- CoP – Committee of Principals
- DC – Dublin Core
  - DCMI – Dublin Core Metadata Initiative
    http://dublincore.org/
- DCAM – Dublin Core Abstract Model
  http://dublincore.org/documents/2007/04/02/abstract-model/
- FRAD – Functional Requirements for Authority Data
- FRBR – Functional Requirements for Bibliographic Records (this site includes a Webliography)
  http://www.ifla.org/VII/s13/frbr/frbr.htm
Acronyms and Links

- IEEE/LOM – Institute of Electrical and Electronic Engineers/Learning Object Metadata
  http://ltsc.ieee.org/wg12/

- IFLA – International Federation of Library Associations and Institutions
  http://www.inflanet.org

- JSC – Joint Steering Committee for Development of RDA

- RDA – Resource Description and Access
  http://www.collectionscanada.ca/jsc/rda.html
Terms

Attributes – Elements/data to identify an entity (e.g., title; place of publication; date of publication; etc.)

Carrier types – categories of the kinds of packages to convey information (e.g., volume, microfiche, videocassette, globe)

Content types (e.g., text, image, sound, cartographic content, notated movement)

Media types (e.g., audio, video, unmediated)