BIBFRAME and Cataloging: changing landscapes

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Outline

Motivators
- Why move away from MARC
- New library cataloging norms
- Active modeling projects
- Library collections and systems

Goals

What BIBFRAME looks like
- MARC model – BIBFRAME model
- Bringing current data forward
- Issues

Information about
Motivators

- Why move from MARC?
  - Positives of MARC
    - Fully permeates library processes, globally
    - Adapted to different cataloging conventions
    - Adapted to XML and UNICODE environments
  - Issues with MARC
    - Accumulation of data elements
    - Increasing problems with structural limitations
    - Not easy to adapt to Linked Data conventions and needs
Motivators

Cataloging practices

- New library cataloging norms – e.g., RDA
  - Emphasis on relationships
  - More flexibility with authoritative headings
  - Incorporate linked data points – using URIs where possible
  - Norms for non-book media

- Transcription pros and cons

- Non-traditional material
  - Cover images, excerpts, table of contents, reviews, abstracts, author biographies, crowd sourcing
Active modeling projects

- FRBR - Functional Requirements for Bibliographic Records
- FIAF – International Federation of Film Archives data model
- INDECs - <indecs> metadata framework
- OLAC – Online Audiovisual Catalogers model
- CIDOC CRM – CIDOC Conceptual Reference Model
- DACS – Describing Archives Content Standard
Motivators

Model variations, for example

- Work
- Expression
- Manifestation
- Item

Other model components? instantiation, abstraction, performance, media object, variant, container
Motivators

Library Collections

- Printed resource production – not yet diminishing
- E-resources
  - Increasing from the publisher
  - Increasing in the collections
- Media resources
  - More central role – moving image, recorded sound, still image, web archiving, …
Motivators
Library Systems

- Increasing need for eResource access management
  - Licensing management
  - Rights management
- And for eResource object management
  - Preservation
- Integration with web resources via data linking
BIBFRAME goals
Goals for BIBFRAME

- Broad accommodation of content norms and data models

- New views of different types of metadata
  - descriptive, authority, holdings
  - coded data, classification data, subject data
  - preservation, rights, technical, archival

- Reconsideration of the data-related activities
  - exchange, internal storage, input interfaces and techniques
Goals for BIBFRAME

- Accommodate linking
  - traditional = textual, identifiers
  - semantic technology = URIs

- Accommodate needs for different types of libraries
  - large, small, research, public, specialized, ...

- MARC transition
  - maintenance of MARC 21 continued
  - enable reuse of data from MARC
  - provision of transformations to new models
What BIBFRAME looks like
Current high level format model – MARC family

- MARC Bibliographic records
  - Descriptions of resources
  - “conceptual view + physical embodiment”

- MARC Authority records
  - Authorized forms of names and subjects -- and uniform titles

- MARC Holdings records
  - Monograph and serial items held
MARC high level model – with RDA

- Subjects
- Names
- Uniform titles

Bibliographic
Including subjects, names, and uniform titles

Holding

Work
Expression
Manifestation
Item
Current BIBFRAME (bf) high level model

- **bf:Work** - A conceptual view of a resource

- **bf:Instance** – An embodiment of a bf:Work

- **bf:Authority** – Key concepts with defined relationships to bf:Works and bf:Instances

- **bf:Annotation** – A flexible add-on to bf:Works and bf:Instances
  - For example: holding, cover art, summary, etc.
BIBFRAME high level model

**bf:Authority** – Subjects (topics, etc.), Places, Person/Corporate Names, etc. (creators, contributors, editors, publishers, etc.)

**bf:Work**

**bf:Instance**

**bf:Annotation** - Summary

**bf:Annotation** - Cover art

**bf:Annotation** – Holding Information

- RDA Work
- RDA Express -ion
- RDA Manifes-tation
- RDA Item
Dealing with current data
How do we bring our current data forward?

- Current **Authority** data
  - Subjects and Names become bf:Authorities
  - Titles and Name/titles become bf:Works
    - See references from Uniform Title Authorities become variant titles for bf:Work
    - See also references from UniformTitle Authorities are separate Works and are linked via relationship properties and URIs
Result

- All Title and Name/title authority records converted to bf:Work descriptions
- Flexible model for relationships
  - RDA work to RDA expression relationships
    - expressed as bf:Work to bf:Work relationships
    - e.g., hasExpression and expressionOf
  - Other models: work to event relationships
    - expressed as bf:Work to bf:Work relationships
    - e.g., hasPerformance and performanceOf
Current Bibliographic data

- Create bf:Work descriptions for all titles not represented by a Uniform title
  - Use the “title proper” as the “uniform title” for the bf:Work title

- Combine the subject terms, subject classifications, and other work/expression data from the current bibliographic records with the bf:Work descriptions
Current Bibliographic Data

- Create bf:Instance descriptions including the transcribed title, publisher, extent, dimensions, ISBN, etc.
  - Do NOT include any of the elements that were included with the bf:Work description

And finally

- Convert or add URI links to elements wherever possible or logical
Result

- bf:Authorities for names and subjects

- bf:Work descriptions for all bibliographic entities
  - Conceptual entities

- bf:Work descriptions include subject data

- bf:Instance descriptions for all manifestations of works and expressions
  - Physical embodiments
**BIBFRAME high level model (again)**

**bf:Authority** – Subjects (topics, etc.), Places, Person/Corporate Names, etc. (creators, contributors, editors, publishers, etc.)

**bf:Work**

**bf:Instance**

**bf:Annotation** - Summary

**bf:Annotation** - Cover art

**bf:Annotation** – Holding/item Information

RDA Work

RDA Express-ion

RDA Manifestation

RDA Item
Issues that will need consideration as a community

- Linking out rather than bringing in data
  - Both?
  - How keep up-to-date?
  - Trusted links?

- Use of multiple authority files enabled
  - Which ones, how many?

- Specifying roles of agents more than in the past
  - Role lists? Languages? Consistency? Hierarchies?
Community issues (continued)

- Specifying relationships between works and instances more explicitly than in the past
  - How much detail? What lists to use?
- Should all instances be split by carrier or just by different media?
  - Paperback, hardback, library binding for books?
  - Print version, electronic version, audio version?
  - Vinyl 78, wire, vinyl 45, vinyl 33⅓, tape, CD, stream?
  - VCR, DVD, Blu-ray, cassette, reel?
- Can we develop authorities for more entities?
  - Publisher names? Publication places? Maintenance?
And can we have more:

- For catalogers:
  - Systems with input lookups?
  - Autofills?
  - Automatic finding of URIs?
  - Other cataloger helpers?

- For end users
  - Rich interlinking of resources
Information about BIBFRAME
Bibliographic Framework Initiative

Initiated by the Library of Congress, BIBFRAME provides a foundation for the future of bibliographic description, both on the web, and in the broader networked world. This site presents general information about the project, including presentations, FAQs, and links to working documents. In addition to being a replacement for MARC, BIBFRAME serves as a general model for expressing and connecting bibliographic data. A major focus of the initiative will be to determine a transition path for the MARC 21 formats while preserving a robust data exchange that has supported resource sharing and cataloging cost savings in recent decades.

General Information
- Frequently asked questions
- Webcasts and presentations
- Contact us
- Document archive

Model & Vocabulary
- BIBFRAME model
- BIBFRAME vocabulary
  - Vocabulary description (updated)
  - Terminology & conventions
- BIBFRAME draft specifications
  - BIBFRAME Profiles (new)
  - BIBFRAME Authorities (updated)
  - BIBFRAME Relationships (new)
- Analyses
  - AV Modeling Study (new)
- Use cases
- MARC mapping (coming soon)

What's New
- Latest webinar
  BIBFRAME Update Forum at ALA Annual Conference in Las Vegas, Nevada is now available (29 June 2014).
  View webinar
- New Model Analysis Available
  BIBFRAME AV Modeling Study: Defining a Flexible Model for Description of Audiovisual Resources
- BIBFRAME Editor Now Available
  Learn more >
Join the discussion
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Thank you!