LC's Bibliographic Framework Initiative: An Update

Kevin Ford
NDMSO, Library of Congress
Email: kefo@loc.gov / Twitter: @3windmills

28 November 2012
Semantic Web in Bibliotheken 2012
Cologne, Germany
Outline

What is LC's Bibliographic Framework Initiative?

Requirements/expectations

BFI and Linked Data

BIBFRAME Model Basics

Early Experimentations

Fin
What is BIBFRAME?

The Bibliographic Framework Initiative will re-imagine and implement a bibliographic environment for a post-MARC world.

Key dates:

May 2011 – Initiative announced.
October 2011 – LC publishes general plan
May 2012 – Zepheira LLC contracted to evaluate related initiatives and data modeling
November 2012 – LC publishes high-level model document
Increasing User Expectations

URIs, URIs, URIs

Decentralization of data

Ability to annotate or otherwise augment data

Flexibility – for future cataloging and uses

Leverage technology while leaving librarians to their areas of expertise

Web-ready/web-accessible – more openness
What is BIBFRAME?

Requirements/expectations:

Content model agnostic (RDA, DACS, CCO)

Description and management for all types of library holdings
  Traditional materials, such as books and serials,
  But also digital materials, such as born-digital video, ebooks.

Provision for data that supports bibliographic description
  Authority data, Holdings, Classification

Replace MARC
BIBFRAME

Bibliographic Framework Initiative and Linked Data

Linked Data
RDF Vocabulary/Data Model
Network-based technological protocols
For the web, on the web

Relationships
Links replace strings = Reduced maintenance
URIs = authority
Atomicity = flexibility

Relationship to MARC
MARC has provided means for data representation
MARC has been a suitable communication format
Core Classes

Work

BIBFRAME

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Core Classes

Work

Resource reflecting the conceptual essence of the cataloged item
BIBFRAME

Core Classes

Work

Instance

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Core Classes

Work

Instance

Resource reflecting a material embodiment of a BIBFRAME Work

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BIBFRAME

Core Classes

Work

Instance

Authority

Resource reflecting key authority concepts that have defined relationships to Works and Instances

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Core Classes (cont'd)

Annotation

Work

Annotation

Instance

Annotation

Subject

Creator

Review

Institution

HasInstance

Creator

Holds

Publisher

PublishedAt

Format
Core Classes (cont'd)

Annotation

Assertions about the other core class elements

Works – reviews, abstract, excerpts

Instances – holdings, book cover images

Name authority – author information

Administrative metadata

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Annotations (cont'd)

Annotations are additional assertions
Local, as in holdings
Local, selected reviews
External, publisher description

By contrast

Works and Instances could be controlled.

Authorship does not change.
Place of Publication doesn't change.

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BIBFRAME

BIBFRAME Instance

Gleick

The Information

BIBFRAME Annotation

Cover Art

Annotation Agent

Library of Congress

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BIBFRAME

Status

DRAFT, expected to change, and will
LC Preliminary tests are promising
Small group of early experimenters investigating the model
Adjustments as needed
Mappings
Conversion tools
Iterative development
Lots of questions – testing for answers
LC Experimentation

• Working primarily with MARC21 data

• Base BIBFRAME Works generated from Authorities
  • Name/Title Authorities
  • Title Authorities

• MARC21 → BIBFRAME/Raw transform (Splitting)
  • Essentially splitting MARC21 Bib to Work, Instance(s), Annotation(s)

• Consolidation (Folding)
  • Look for pre-existing BIBFRAME Work
    • Based on [Name.] Title[. Language] match
    • If not found, Create new BIBFRAME Work
BIBFRAME

MARC21 Authorities
Name/Titles Titles

BIBFRAME Works
1+ Million

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Many questions

- Split on what - 260, 300, ISBNs, etc.?
- RDA
  - Couple of Early Experimenters investigating
- Other content standards/models?
- Holdings – Annotation or Core?
- Authorities: lightweight? Full representation?
- Authorities: LCSH, pre-coordination
- Data format/serialization (next phase)
Join the discussion...

BIBFRAME

Website:  http://www.loc.gov/marc/transition/

Listserv: http://listserv.loc.gov/listarch/bibframe.html

Listserv Email: bibframe@listserv.loc.gov

Thank you.

Questions?

Kevin Ford

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