Library of Congress
BIBFRAME Pilot: Phase Two

ALCTS series: From MARC to BIBFRAME

Wednesday, March 7, 2018
2:00 PM-3:00 PM (Eastern)
Presenters

Sally McCallum
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Metadata Standards Specialist

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Cooperative Cataloging Programs Specialist

Hosted by ALCTS, Association for Library Collections and Technical Services
Topics To Cover

• BIBFRAME 2.0 Pilot Status (McCallum)
• BIBFRAME Pilot: Phase Two Goals (Cannan)
• BIBFRAME Editor (Williamschen)
• BIBFRAME 2.0 Database (Frank)
Where we are with BIBFRAME 2.0 Pilot Implementation

- BIBFRAME model revision
- 2.0 Model →
- Innovative and Simple
  - **Works** (FRBR/RDA Work and Expressions)
  - **Instances** (FRBR/RDA Manifestations)
  - **Items** (FRBR/RDA Items)
BIBFRAME 2.0 Pilot

- BIBFRAME 2.0 vocabulary
  - Heavier influence of RDA
- Specifications for conversion of MARC to BIBFRAME 2.0
  - Patterns in MARC
  - Duplication, forms of expression, “abundance” of data
  - Leaving some behind?
BIBFRAME 2.0 Pilot

• Conversion programs for MARC to BIBFRAME 2.0
• Merge and reconcile data
  • MARC name/title Authorities became BIBFRAME Work descriptions
  • MARC Bibliographic records were split into BIBFRAME Work and Instance descriptions
  • Merging and shifting of data
BIBFRAME 2.0 Pilot

• Goal: Realistic cataloging environment
  • Creating description of resource in BIBFRAME first
  • Converted whole MARC catalog to BIBFRAME to catalog against
    • 17 million MARC bibliographic records converted to BIBFRAME Works, Instances, and Items
    • 1.2 million uniform title authority records converted to BIBFRAME Works
    • Merged and matched BIBFRAME Works
    • Continuing to refine ...
BIBFRAME 2.0 Pilot

- Revamping the BIBFRAME Editor
  - Lessons from the first Pilot
  - Updating all the profiles
  - Enable input of new name authorities in BIBFRAME system
- Expanding ID.loc.gov (LC’s Linked Data Service)
  - More term lists for the Editor
- Special task – Complete restructuring of infrastructure
- Documentation and training
BIBFRAME 2.0 Pilot

• So where are we:
  • 60 catalogers in pilot
  • All forms of material
  • Continuous discover and fix conversions and merges
  • Continuous adjustment of editor

• LC sees pilots as essential for understanding the future:
  • Migration of MARC to a new platform
  • Libraries as part of the Linked Data environment

• Key web site www.loc.gov/bibframe
BIBFRAME Pilot: Phase Two

Goals

Goals are coming from three sources:

1. ABA Director
2. Network Development and MARC Standards Office (NDMSO)
3. Cooperative and Instructional Programs Division (COIN)
4. NDMSO/COIN) combined
BIBFRAME Pilot: Phase Two

Goals

ABA Director’s goals:

1. Determine if BIBFRAME is “scalable” – can BIBFRAME be applied to a large and complex body of data?
2. Determine if the Library of Congress will pursue BIBFRAME as its Linked Data pathway and ultimate replacement for MARC
3. Announce decisions
BIBFRAME Pilot: Phase Two

Goals

NDMSO goals:

1. Provide a realistic cataloging environment for BIBFRAME Pilot participants
2. Expand and advance database conversion
3. Increase use of linked data resources from Linked Data Services (id.loc.gov)
4. Explore and enhance cross-system flows
5. Refine synchronization between the BIBFRAME 2.0 Database and the MARC-based Voyager ILS database
BIBFRAME Pilot: Phase Two

Goals

COIN goals:

In addition to training participants to work in Phase Two, COIN assists NDMSO staff to:

1. Improve the BIBFRAME Save, Retrieve, and Edit functions
2. Allow the importing of external bibliographic records
3. Permit native BIBFRAME descriptions to be added to the BIBFRAME database
4. Limit the romanization of bibliographic data
BIBFRAME Pilot: Phase Two

Goals

Combined COIN/NDMSO goals:

1. Enable description of Agents in BIBFRAME
2. Continue to improve the BIBFRAME Editor
BIBFRAME Editor Profiles

• LC BIBFRAME Editor features
  • Data entry
    • Customized, pre-populated data, popups
  • Type-ahead options for longer lists
    • Names, subjects, form/genre, language, work titles
  • Dropdowns menus for shorter lists
    • Media, color content, polarity, audio/video characteristics
  • RDA rules are hot-linked to element labels
  • We continue to work with the pilot participants to refine them
BIBFRAME Editor Profiles

**Create Resource**

- Monograph
- Notated Music
- Serial
- Cartographic
- Sound Recording: Audio CD
- Sound Recording: Audio CD-R
- Sound Recording: Analog
- Moving Image: BluRay DVD
- Moving Image: 35mm Feature Film
- Prints and Photographs
- Rare Materials
BIBFRAME Editor (snippets)

- Title Information
- Statement of Responsibility Relating to Title Proper (RDA 2.4.2)
- Edition Statement (RDA 2.5)
- Publication, Distribution, Manufacture Statements
- Mode of Issuance (RDA 2.13)
- Identifier for the Manifestation
- Notes about the Instance
- Media type (RDA 3.2)
BIBFRAME Editor (snippets)
BIBFRAME Editor (snippets)

<table>
<thead>
<tr>
<th>Sound Characteristics</th>
<th>Sound Characteristics</th>
<th>Playback Channels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special Playback Characteristic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>digital</td>
<td>soundCharacteristic</td>
<td>Dolby</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Video Characteristics</th>
<th>Video Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadcast Standard</td>
<td></td>
</tr>
<tr>
<td>NTSC</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digital File Characteristics</th>
<th>Digital File Characteristics</th>
<th>File type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regional Encoding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DVD video</td>
<td>video file</td>
<td>region 1</td>
</tr>
</tbody>
</table>

| Persons, Families, Corporate Bodies Associated with the Manifestation (RDA 21.1.2) | Contribution |
|------------------------------------------------------------------------------------------------|
| Buena Vista Home Entertainment (Firm), Film distributor |

<table>
<thead>
<tr>
<th>Source Consulted (RDA 5.8.1.3)</th>
<th>Source Consulted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Videodisc container, Internet movie database WWW site, view...</td>
<td></td>
</tr>
</tbody>
</table>
BIBFRAME Editor (snippets)
BIBFRAME Editor (snippets)

BIBFRAME Item

- Held by
- Location
- Agents associated with Item
- Custodial History (RDA 2.18)
- Immediate Source of Acquisition
- Notes about the Item
- Form of Item
- Barcode
- Shelfmarks
- Usage and access policy
- Collection
BIBFRAME Editor
BIBFRAME Editor

Form/Genre

Search LCGFT (RDA 6.3)

biographical comics

LCGFT

Biographical comics
Biographical drama
Biographical fiction
Biographical films
Biographical poetry
Biographical radio programs
Biographical television programs
Biographies
Data Output from the Editor

```xml
<bf:language>
  <bf:Language rdf:about="http://id.loc.gov/vocabulary/languages/zxx">
    <rdfs:label xml:lang="en">No linguistic content</rdfs:label>
  </bf:Language>
</bf:language>

<bf:soundContent>
  <bf:SoundContent rdf:about="http://id.loc.gov/vocabulary/msoundcontent/sound">
    <rdfs:label xml:lang="en">sound</rdfs:label>
  </bf:SoundContent>
</bf:soundContent>

<bf:title>
  <bf:Title rdf:nodeID="bnodebcDaPpatCVnyAcVJZN7VpC">
    <bf:mainTitle>Scrubs</bf:mainTitle>
  </bf:Title>
</bf:title>
```
BIBFRAME 2.0 Database

• Conversion processes
• Ingest streams
• Provenance

Much more to be determined in the Library of Congress BIBFRAME Pilot, Phase Two
BIBFRAME 2.0 Database

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>050</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>TK5105.88815 .S469 2015</td>
</tr>
<tr>
<td>100</td>
<td>1</td>
</tr>
<tr>
<td>0</td>
<td>Sikos, Leslie F., ed.</td>
</tr>
<tr>
<td>245</td>
<td>1</td>
</tr>
<tr>
<td>0</td>
<td>Mastering structured data on the semantic web: from HTML5 microdata to linked open data / Leslie F. Sikos, Ph.D.</td>
</tr>
<tr>
<td>264</td>
<td>1</td>
</tr>
<tr>
<td>300</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>xviii, 233 pages : illustrations : 25 cm</td>
</tr>
<tr>
<td>336</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>text : illustrations ; 25 cm</td>
</tr>
<tr>
<td>337</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>unmediated : linked open data</td>
</tr>
<tr>
<td>338</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>volume : nc : rdacontent</td>
</tr>
<tr>
<td>490</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>The expert's voice in Web development</td>
</tr>
<tr>
<td>504</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>Includes bibliographical references and index.</td>
</tr>
<tr>
<td>650</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>Semantic Web.</td>
</tr>
<tr>
<td>650</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>Linked data.</td>
</tr>
<tr>
<td>650</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>Electronic data processing : Structured techniques.</td>
</tr>
</tbody>
</table>
BIBFRAME 2.0 Database

1. Sikos, Leslie F., *Mastering structured data on the semantic web: from HTML5 microdata to linked open data*
BIBFRAME 2.0 Database

Sikos, Leslie F., Mastering structured data on the semantic web: from HTML5 microdata to linked open data

Has Instance(s)
- Mastering structured data on the semantic web: from HTML5 microdata to linked open data

Other Views for This Description
- BIBFRAME RDF
- BIBFRAME Turtle
- BIBFRAME JSON
- BIBFRAME JSON-LD
- METS

Bookmark This Description
- http://id.loc.gov/resources/works/c019404819

Editor Link
- http://mlv/g04.loc.gov:8230/resources/works/c019404819
BIBFRAME 2.0 Database

Martinů, Bohuslav, 1890-1959. Písně posvátné
Martinů, Bohuslav, 1890-1959.

Bohuslav Martinů's time and space
(Work Stub from Bib)

Julietta. German
(Work from Editor)
BIBFRAME 2.0 Database

<table>
<thead>
<tr>
<th>BIBFRAME Work</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Creator of Work (RDA 19.2)</strong></td>
</tr>
<tr>
<td>Primary Contribution</td>
</tr>
<tr>
<td>Martinů, Bohuslav, 1890-1959, Composer</td>
</tr>
<tr>
<td>Work Title</td>
</tr>
<tr>
<td>Julietta. German</td>
</tr>
<tr>
<td>Work Title Variation</td>
</tr>
<tr>
<td>Operas</td>
</tr>
<tr>
<td>Transliterated Title</td>
</tr>
<tr>
<td>Date of Work (RDA 6.4)</td>
</tr>
<tr>
<td>Date of Work (RDA 6.4)</td>
</tr>
<tr>
<td>1937</td>
</tr>
</tbody>
</table>
BIBFRAME 2.0 Database

Bibframe Editor Workspace

Create Resource

Monograph

Notated Music

Serial

Cartographic

Preview

@prefix bf: <http://id.loc.gov/ontologies/bibframe/>.
@prefix bflc: <http://id.loc.gov/ontologies/bflc/>.
@prefix madsrdf: <http://www.loc.gov/mads/rdf/v1#>.
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>.
@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>.
@prefix xsd: <http://www.w3.org/2001/XMLSchema#>.
# BIBFRAME 2.0 Database

**Bibframe Editor Workspace**

<table>
<thead>
<tr>
<th>Show 10 entries</th>
<th>Search: julietta</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>name</td>
</tr>
<tr>
<td>2290</td>
<td>e58167457265357981474861321090111970404</td>
</tr>
</tbody>
</table>

Showing 1 to 1 of 1 entries (filtered from 401 total entries)
BIBFRAME 2.0 Database
BIBFRAME 2.0 Database

[Image of BIBFRAME Database interface]

Hosted by ALCTS, Association for Library Collections and Technical Services
Explore

• See how a MARC record looks in BIBFRAME RDF
• http://id.loc.gov/tools/bibframe/compare

BIBFRAME Comparison Tool

Identifier  Bib ID  LCCN
Serialization  Turtle  RDF XML

2017618270

Lookup Name URIs  No  Yes

Search  Clear
Explore

- BIBFRAME vocabulary
  - www.loc.gov/bibframe/docs/index.html
- MARC to BIBFRAME conversion specs (Bib and Authority-title)
  - www.loc.gov/bibframe/mtbf
- MARC to BIBFRAME conversion programs (Bib and Authority-title)
  - https://github.com/lcnetdev/marc2bibframe2
- MARC to BIBFRAME comparison viewer (Bib and Authority-title)
  - http://id.loc.gov/tools/bibframe/compare
Questions?

Thank you!