Linked Data Update

Special Interest Working Group
Agenda

1. Linked Data Support in Alma
2. Linked Data Support in Primo
Linked Data Support in Alma
Agenda

• Linked Data Enrichment in Alma
• RDA/RDF
• Roadmap
Enrichment

- LD elements are usually not part of the bibliographic record itself – elements are generated automatically.
- Alma generates LD elements for known attributes upon:
  - Publishing bibliographic records to discovery systems
  - LD API retrieval of bibliographic/authority record
- LD elements of a bibliographic record are presented in Alma repository staff search and MD editor.
RDA/RDF API’s

• Alma supports the following API’s:
  • Retrieval of a manifestation in RDA/RDF format
  • Retrieval of a work in RDA/RDF format

• Manifestation level is parallel to the Alma bibliographic record level. The API returns:
  • Work fields with work URI
  • Links to all manifestations that are related to that work.
  • Expression fields
  • Manifestation fields
  • Item barcodes
RDA/RDF API’s

• Work - Alma groups multiple BIB records into a single Work record. Grouping logic is based on the same logic used for discovery:
  • Normalized uniform title
  • Permutations of author + title

• The API returns:
  • **Work** fields with work URI
  • Links to all manifestations that are related to that work
Short Term Roadmap

• Libraries will be able to use MD editor to catalog LD elements

• Planned support for representing MARC bibliographic records in BIBFRAME 2.0 format
  • Publish MARC bibliographic records in BIBFRAME format
  • View a MARC record as a BIBFRAME record
  • Expose MARC bibliographic records as BIBFRAME via API

• In addition libraries will be able to publish their catalog to linked data consumer applications in RDA/RDF format
Long Term Roadmap

• Support for native cataloging in BIBFRAME starting with a proof of concept version.

• Support a triple store service for linked data in Alma.

• It will be possible to import records into the Alma catalog using BIBFRAME
Linked Data Support in Primo
Linked Data in Discovery

Seamlessly enrich the user interface with linked open data from external sources related to the records discovered.

Expose library records in common schemas to be consumed by external LD sources and indexed by Internet search engines.
End User Function Enablement

- Discuss use-cases for patron functionality
- Load URIs to PNX
- Expose basic use-case of Linked Data functionality in New Primo UI
- Allow the community to explore and expose additional functionality using the Open Discovery Framework
Linked Data Flow: Alma and Primo

**Alma**
- Calculate URI’s to LD services
- Publish enriched metadata

**Primo**
- Load enriched URI metadata
- Retrieve relevant external data
- Embed external data in the user interface

**External Services**
- VIAF
- Library Of Congress
- GND
- Others
### Details

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<th>Pattern recognition and machine learning</th>
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Computational learning theory
Supervised learning (Machine learning)
Reinforcement learning
Learning classifier systems
Learning, Machine
Artificial intelligence
Explanation-based learning
Machine learning
Machine theory
Back propagation (Artificial intelligence)
• Expose library records in structured data markup on web pages, such as schema.org