

Agenda

- Linked Data Enrichment
- RDA/RDF
- Roadmap



Enrichment

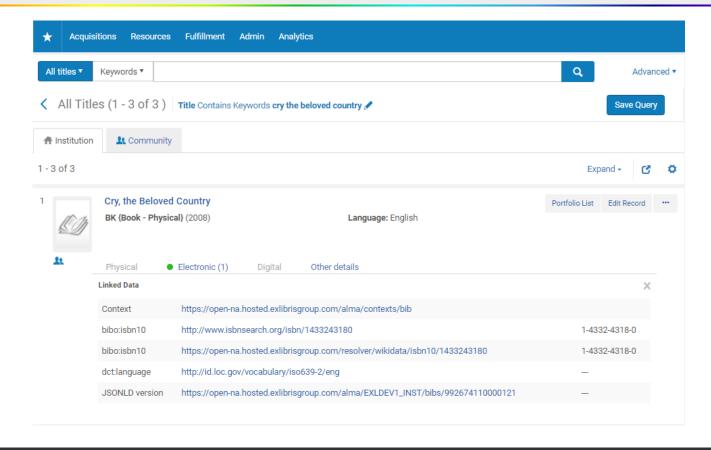
- LD elements are usually not part of the bibliographic record itself –elements are generated automatically
- Alma generates LD elements for known attributes upon:
 - Publishing bibliographic records to discovery systems
 - LD API retrieval of bibliographic/authority record
- LD elements of a bibliographic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

Enrichment

- Alma can enrich bibliographic records with links to well known URIs, including:
 - Language
 - Identifiers
 - Links to Wikidata
 - Authors and subjects according to the relevant authorities:
 - Library of Congress
 - GND (from the German Gemeinsame Normdatei)
 - MESH
 - Virtual International Authority File (VIAF®)
 - Links to local Authorities

https://developers.exlibrisgroup.com/alma/integrations/linked_data

Repository Staff Search



JSON LD APIs

Alma provides LD APIs for enriched bibliographic and authority records

https://developers.exlibrisgroup.com/alma/integrations/linked_data/jsonld

```
"@context": "https://open-na.hosted.exlibrisgroup.com/alma/contexts/bib",
"@id": "https://open-na.hosted.exlibrisgroup.com/alma/01ABC_INST/bibs/1234.jsonId",
"@type": "book",
"title": "Harry Potter and the Sorcerer's Stone",
"date": "1998",
"place_of_publication": "England",
"publisher": "Turtleback Books",
"language": "http://id.loc.gov/vocabulary/iso639-2/eng",
"creator": [
      "@id": "http://id.loc.gov/authorities/names/n97108433",
                                                                                  List of creators, with link to
                                                                                  relevant authorities (in this
       "label": "Rowling, J. K.",
                                                                                     example to Library of
                                                                                      Congress and VIAF)
       "sameAs": "http://viaf.org/viaf/sourceID/LC%7Cn97108433"},
      "@id": "http://id.loc.gov/authorities/names/n83318879",
```

Publishing

- Publish bibliographic records to Primo with LD elements
- Published xml includes URIs in the following fields:
 - ISSN
 - ISBN
 - OCLC number
 - Creator
 - Subject
- URI are added in subfield 0 with no (URI) prefix per LC update
- Examples:

RDA/RDF Background

- RDA/RDF defines a hierarchy of library data resources:
 Work Expression Manifestation Item. This hierarchy is usually referred to as "WEMI".
 - Work a distinct intellectual or artistic creation
 - **Expression** the intellectual or artistic realization of a work
 - Manifestation the physical embodiment of an expression of a work
 - **Item** a single exemplar of a manifestation, reflect physical form

RDA/RDF Background

Example:

- Work= Romeo and Juliet by William Shakespeare.
- Expression = Illustrated edition of Romeo and Juliet written by Shakespeare
- Manifestation = 1989 Penguin edition.
- Item = actual book, sitting on the shelf, with a call number and barcode.

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
 - In MD editor, type field content and click alt+F3 to display a list of vocabulary resources that are supported for this field.
 - Choose a vocabulary resource e.g. geonames

Short Term Roadmap

- 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



