



Linked Data vision

MELI Convention – July 17th, 2019

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- Principals
- Advantages
- Where we are?
- Linked Data Roadmap
- Infrastructure
- Ex Libris Linked Data Ecosystem
- Questions and challenges

Linked Data principals



Prime

Cataloging of new record by using linked data formats



Side by side

Existing records in various formats will continue to be managed side by side with Linked Data records



Eco system

Provide ability to managed URI for all records across institutions in Ex Libris platform as part of global eco system



Navigation

Leveraging the relationship between linked records. For example: Display, navigation, and data processing

Linked Data advantages examples



Authority control

authority control will be online by using variety of international sources



Enhanced searches

displaying results that users were not aware of previously



Awareness

complementary additional enriched data during the cataloging process



Library collections exposure

allowing applications that to use and create links to library info



Metadata

by catalogers, suppliers and publishers will be an integral part of library workflows



Two-way interchange

between library systems and non-library systems on an as-needed and real-time basis.

Linked Data – Where we are?

Display in search
in result and record view
(also as BIBFRAME)

API endpoints
in: BIBFRAME, RDA/RDF
and JSON-LD



Records enrichment
automatically with URIs for
language, identifiers, names,
and subjects

Publish
entire catalog:
BIBFRAME, RDA/RDF

Discovery
of the underlying metadata
and access to it via URIs

[Ex Libris: Journey to Linked Open Data Support – An Update](#)

Linked Data Roadmap - Cataloging

- Supporting prime cataloging of new resources as Linked Data
- Support for the BIBFRAME / RDA-RDF, JSON-LD, ontology and formats as they mature.
- URI support - Identifying “things” based on URIs instead of simple identifiers.
- Loading of prime Linked Data (Graph structure) bibliographic records from other systems, providers and vendors
- Access to Linked Data to enrich data displayed to staff in routine workflows
- Local Authorities management as URI/IRI

Linked Data Roadmap - Technical services

- URI/IRI Management – Alma as a source
 - Create new record with their URI/IRI
 - Reconciliation – provide the ability to merge two records that are the same
 - Manage local authorities and expose them as linked data
- Ability to control how URI/IRI are being searched across different sources
- Examples of services that need to be provided on top:
 - OpenURL Resolving
 - Resource Sharing / ILL

Linked Data Roadmap – Discovery and Delivery

- Discovery of the underlying metadata and access to it via URIs/IRIs
- The use of linked data by non-library applications
- The discovery system as the key interface to make data accessible to people and computers
- The use of RESTful APIs to provide support for applications based on linked data
- Improving discoverability by general search platforms (i.e. Google) by embedding schema.org in discovery pages

Linked Data - infrastructural foundations



Search
indexes

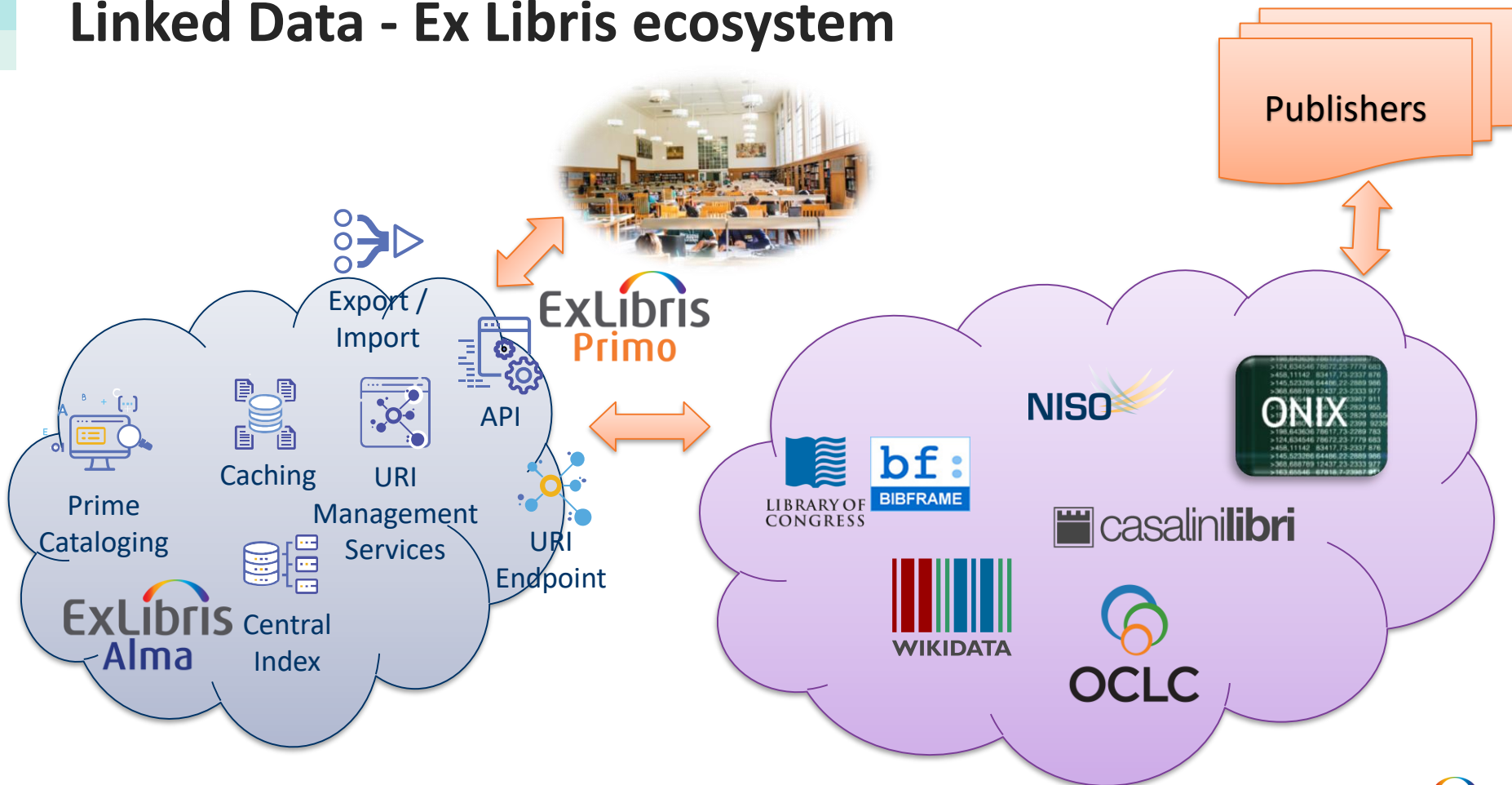
More ...

Enrich Display
with entity data using the
URI and external
resources. e.g. showing
all author info when

Caching

of descriptions for URI/IRI

Linked Data - Ex Libris ecosystem



Questions and challenges

- Which format will use primarily? BIBFRAME? simplified? other?
- Will current formats and Linked Data records can be linked with each other?
- How to keep name spacing for RDF? (External, Ex Libris Cloud Platform)
- Multi lingual support
- Linked Data at scale
- Reconciliation beyond the Ex Libris Cloud platform

