Linked data and Ex Libris products

Summary

IGeLU 2011 September 12, 2011
Library system vendors

• Accommodate both sides:
  – Publishing LOD
  – Using LOD

• Example: ADLIB
  – Amsterdam Museum Collection Database
  – RKD Artists ([Dutch State Agency for Cultural Heritage](http://website.rkd.nl/Databases/RKDartists))
  – [http://website.rkd.nl/Databases/RKDartists](http://website.rkd.nl/Databases/RKDartists)
Recommendations
Infrastructure

• Open license for all library data in shared environments ('community zones', etc.)
• Encourage metadata providers to apply an open license to their metadata
• Build new shared cloud based metadata systems on linked open data architecture instead of creating new silos
• Apply a well-defined data model, such as FRBR, to internal metadata structure, providing the 'Work' as a unique identifier for linking
• Allow use of URIs as identifiers for Work, Author, Subjects, linking to external authority files (example: VIAF, LoC)
• Cataloguing=linking
• Use persistent, non-system-dependent, HTTP URIs for holdings and items
Recommendations
Publishing Linked Data

• Provide a streaming API to get library data in real time (for instance using XMPP)
• Provide access to administrative data (circulation, statistics, etc.) via streaming event-driven API
• Apply real open data/access
• Options to export all data in open formats
• Provide easy options for publishing library data as LOD in RDF or RDFa, using vocabularies
• Support use of content negotiation to provide multiple RDF serializations
• Provide SPARQL endpoint options
Recommendations Using Linked Data

• Provide new search type besides federated, local, harvested: linked data search (options for example: crawling/harvesting; dereferencing on the fly; query federation)
• Provide mechanisms for consuming external linked data sources for display, indexing and metadata management functions
• Options to define/identify/discover trustworthy LOD sources/SPARQL endpoints to use
• Options to identify LOD sources to use based on for instance ‘subject’ fields
• Automatic retrieval and processing of RDF vocabularies
Recommendations
the short version

Infrastructure
- Internal linking
- External linking
- Cataloguing

Using URIs

Publish
- Bibliographic data
- Holdings data
- Administrative data

Open
- Streaming
- RDF(a)
- ConNeg
- SPARQL

Use
- LOD search
- LOD sources
- SPARQL Endpoints
- RDF Vocabularies

Finding
- Processing
- Presenting