Metadaten als Grundlage der Bibliotheksautomatisierung

Dr. Axel Kaschte
Product Strategy Director, OCLC EMEA
Information at your fingertips
Information at your fingertips
Discover the right Information
Information at your fingertips
Discover the right Information
Use the right Metadata about the Information
Information at your fingertips
Discover the right Information
Use the right Metadata about the Information

Global Metadata for Global Information
Metadata Globalization

Global Library Network ↔ Global Information Network
State-of-the-Art universal metadata management

Industry fact:
• Electronic & Print publishing side by side
• Open Access digital publishing growing

Industry trend:
• regional metadata management goes global
WorldCat Globalization

To extend the reach of WorldCat as the core metadata management tool
WorldCat Globalization

- Bibliographic (E & P & D)
  - Linking
  - RDA
  - extended UNICODE support
  - UNIMARC
- Local Bib Records
- Local Holdings (E & P & D)
- Authorities for each country
  e.g. Dutch Name Authorities, German GND, ...

- Additional sources for each country
Examples:

- The Netherlands
  - UKB Project: Transition to WorldCat as the future national infrastructure: 2015
- Germany
  - CIB Project: new national cloud infrastructure, based on WorldCat: 2017
WorldShare Platform

Every part of global data is accessible through WebServices API.

- Create new applications
- Use library data in many other places
WorldShare Applications

Catalog (E & P & D)

E-Articles (Central Index)

E-Collections (knowledge base)

E-Licenses

Vendors
The Global Data Network I

Game changer I: more data comes from providers than from libraries

Content partner
The Global Data Network II

Game changer II: more end users search in the Web than in libraries
Metadata Globalization

Global Library Network  ↔  Global Information Network
Global Information Network
Landscape: Vision for the Ecosystem
The Library Data Revolution

THE LIBRARY KNOWLEDGE GRAPH
Umberto Eco

Essayist

Umberto Eco, OMRI is an Italian semiotician, essayist, philosopher, literary critic, and novelist. He is best known for his groundbreaking 1980 historical mystery novel Il nome della rosa, an intellectual ... Wikipedia

Born: January 5, 1932 (age 82), Alessandria, Italy
Spouse: Renate Range (m. 1962)
Movies: The Name of the Rosa
Parents: Giulio Eco, Giovanna Eco
Awards: Strega Prize, Prix Médicis étranger

Get updates about Umberto Eco

Keep me updated

Books

View 25+ more

The Name of the Rose
1980
Foucault's Pendulum
1988
The Prague Cemetery
2010
The Island of the Day Before
1894
Baudolino
2000

Subjects

Semiotics | Religions | Thought and Thinking
Art—Philosophy | Foucault’s Pendulum | Vodou

Quotes

“The real hero is always a hero by mistake; he dreams of being an honest coward like everybody else.”

Find Umberto Eco works at:

Libraries near me | Online Retailers
Library data stored as entities
Peter and the Starcatchers (Peter Pan) [Paperback]

Dave Barry (Author), Ridley Pearson (Author)

⭐⭐⭐⭐⭐ (7 customer reviews)

RRP: £7.99
Price: £5.59 & eligible for FREE Delivery on orders over £10. Details
You Save: £2.40 (30%)

Only 15 left in stock (more on the way).
 Dispatched from and sold by Amazon. Gift-wrap available.

Want it tomorrow, 25 Feb.? Order it within 10 hrs 16 mins and choose One-Day Delivery at checkout. Details

27 new from £3.53 3 used from £3.49

The library knowledge graph
Works
The library knowledge graph
Putting entities in library workflows
The Library Data Revolution

ENTITIES AND WORLDCAT
The Work Entity

- 197+ million Work descriptions and URIs
- Using Schema.org + BiblioGraph.net vocabulary
- Links to WorldCat manifestations
- Links to Dewey, LCSH, LCNAF, VIAF, FAST
- Open Data license via Linked Data Explorer
- April 2014: Metadata API released
- Summer 2015: used in WorldCat Discovery
The Person Entity

- 98+ million Person descriptions and URIs
  - Person entities with authority: 20.2 million
  - Person entities without authority: 78.3 million
- Using Schema.org + BiblioGraph.net vocabulary
- Harvested from WorldCat data and enriched from other hubs
- Links to WorldCat Works. Added links from WC Works.
- Open Data license via Linked Data Explorer
- Summer 2015: used in WorldCat Discovery
Library data stored as entities

- person
- place
- object
- concept
- organization
- work

- Work by person
- Work about person
<table>
<thead>
<tr>
<th>Year</th>
<th>Milestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>✓ VIAF, ISNI, FAST Publish Linked Data</td>
</tr>
<tr>
<td>2012</td>
<td>✓ WorldCat.org Linked Data Release – using Schema.org</td>
</tr>
<tr>
<td>2013</td>
<td>✓ Internal agreement on data strategy</td>
</tr>
<tr>
<td>2013</td>
<td>✓ Evangelism</td>
</tr>
<tr>
<td>2013</td>
<td>✓ Research &amp; Design with Data Architecture Group</td>
</tr>
<tr>
<td>2013</td>
<td>✓ Data mining of WorldCat resources</td>
</tr>
<tr>
<td>2014</td>
<td>✓ WorldCat Works Released</td>
</tr>
<tr>
<td>2015</td>
<td>• Application Integration</td>
</tr>
<tr>
<td>2015</td>
<td>• WorldCat Discovery</td>
</tr>
<tr>
<td>2015</td>
<td>• Cataloging</td>
</tr>
<tr>
<td>2015</td>
<td>• Analytics</td>
</tr>
<tr>
<td>2015</td>
<td>• More Entities Released</td>
</tr>
<tr>
<td>2015</td>
<td>• Person</td>
</tr>
<tr>
<td>2015</td>
<td>• Organization</td>
</tr>
<tr>
<td>2015</td>
<td>• Concept</td>
</tr>
<tr>
<td>2015</td>
<td>• New Products</td>
</tr>
<tr>
<td>2015</td>
<td>• Continuing Evangelism</td>
</tr>
<tr>
<td>2015</td>
<td>• New Services</td>
</tr>
<tr>
<td>2015</td>
<td>• Continuing Innovation</td>
</tr>
</tbody>
</table>
The Library Data Revolution

ENTITIES AND LIBRARY WORKFLOWS
The year is 1327. Franciscans in a wealthy Italian abbey are suspected of heresy, and Brother William of Baskerville arrives to investigate. His delicate mission is suddenly overshadowed by seven bizarre deaths that take place in seven days and nights of apocalyptic terror.
Entities and library workflows
Cataloging

Improve data quality
  • Link to authoritative sources

A new approach to cataloging
  • Point and click cataloging
  • Managing entities instead of managing records

Consistent with RDA
Entities and library workflows

Web exposure

Be found on the web

Connect your users back to the library

What the web requires for web exposure

• Big aggregation
• Familiar structures
• A Network of Links
• Entity Identifiers
Metadata Globalization

Global Library Network  ↔  Global Information Network
How does this help libraries?
Libraries shift their focus from a collection centric view to a services centric view.

# 2: Search for Distinctiveness

As licensed content is available in commodity collections, academic libraries strive to declare their distinctiveness – in conjunction with their mother organization.

# 3: Be Found on the Web

As users browse the web, libraries want their services and distinctive collections to be found on the web.
Lifecycle of scholarly communication

Publish

Write

Read

Study / Research

WEB of data

Libraries

Students

Researchers

Librarians

Managers
As a **librarian** I would like to _____ so that ___.

As a **researcher** I would like to _____ so that ___.

As a **director** I would like to _____ so that ___.

Librarians

Researchers

Managers
Examples: Identifying the Problems to Solve

# 1: Shift from collections to services
As librarian, I want high quality data from around the world so that I can support my university’s international business school.

# 2: Search for Distinctiveness
As a researcher, I want to identify original sources so that I can produce original findings in my grant funded research project.

# 3: Be Found on the Web
As a library director, I want to show that my library has global relevance and a durable future so that I can prove value to my skeptical chancellor.
Information at your fingertips
Dr. Axel Kaschte
Product Strategy Director OCLC EMEA

Axel.Kaschte@oclc.org