

4.5.24

OCAC

Linked data

The next evolution of library metadata

Agenda

- What is linked data and why is it important for libraries?
- OCLC's linked data strategy
- Linked data in products and services

What is linked data?



Library linked data

100	1		Shakes peare, William, \$d 1664-1616.
245	1	0	Hamlet / \$c William Shakes peare.
250			1st ed.
264		1	London : \$b Penguin Books , \$c 1994.
300			190 pages : \$b illustrations ; \$c 19 cm.
338			text \$b txt \$2 rdacontent
337			unmediated \$b n \$2 rdamedia
338			volume \$b nc \$2 rdacarrier
490	0		Penguin popular clas sics
650		0	Tragedy
650		0	Princes, \$z Denmark \$v Drama.
650		7	Princes. \$2 fas t \$0 (OCoLC)fs t01076481
650		7	Tragedy. \$2 fas t \$0 (OCoLC)fs t01154355
651		7	Denmark. \$2 fas t \$0 (OCoLC)fs t01204558
655		7	Drama. \$2 fas t \$0 (OCoLC)fs t01423879
655		7	Tragedies. \$2 gsaft

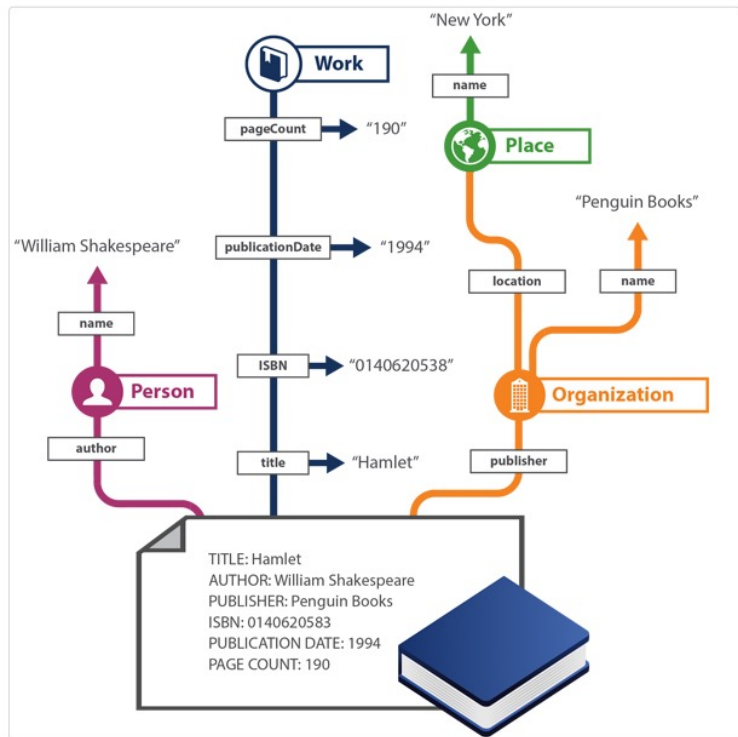


Figure 1.1: A bibliographic description as a record and a graph.

MARC record screenshot extracted from OCLC WorldCat

Figure from: Carol Jean Godby, Shenghui Wang, and Jeffrey K Mixer, *Library Linked Data in the Cloud: OCLC's Experiments with New Models of Resource Description* (San Rafael: Morgan & Claypool, 2015)

Expand influence and reach with linked data

Connect and scale library knowledge

Fuel serendipitous discovery

Focus on high-value knowledge work

Contribute to the global information
ecosystem



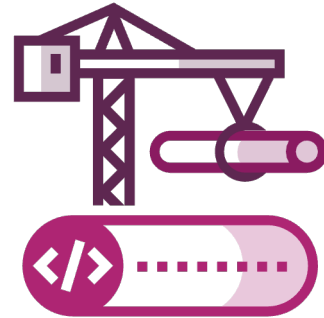
Delivering on our linked data strategy



Expertise



Data



Infrastructure



Tools

Linked Data in products and services

Evolution of data sets

 WorldCat[®] **Entities**



Works



Events



Persons



Places



Organizations



FAST Linked Data

FAST Authority File

Dewey[®] Services



Concepts

WorldCat Entities

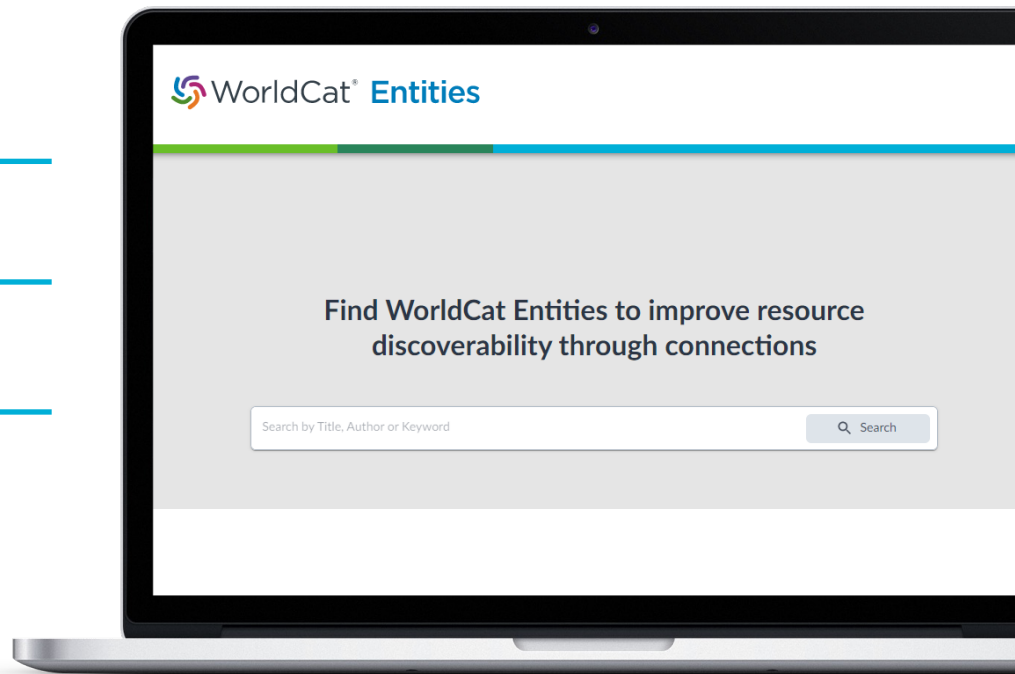
More than 150M entities

Explore relationships

Find connections

Empower discovery

entities.oclc.org



WorldCat Entities URI enrichment



WorldCat Entities in MARC records

↑ ↓	650	<input type="checkbox"/>	0	Institutional repositories \$z United States \$v Case studies .
↑ ↓	650	<input type="checkbox"/>	7	Institutional repositories . \$2 fast \$0 (OCoLC) fst01740486
↑ ↓	700	1	<input type="checkbox"/>	Mixer, Jeff \$1 https://id.oclc.org/worldcat/entity/E39PBjtRJykHh8gwxXj3JQ4cyd
↑ ↓	700	1	<input type="checkbox"/>	McMillian, Ciara .

WorldShare Record Manager

Insert linked identifiers within existing cataloging workflows

WorldCat Entities URIs can be added to fields:

- Person entity – 100, 600, or 700
 - Event entity – 647
 - Place entity – 651
 - Work entity – 758
-

Entities appear in the \$1 of the field

Insert WorldCat Entity

Entity Type: Person Term(s): Mixer, Jeff

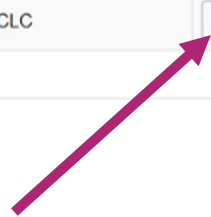
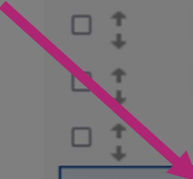
Search Reset

Results 1 - 1 of 1 Rows 10

Entity Label	Description	
Jeff Mixer	product manager at OCLC	Select Entity

Results 1 - 1 of 1 Rows 10

Cancel



WorldCat Entities in MARC records

Included in MARC records through:

- Export in WorldShare Record Manager
- Export in Connexion
- WorldCat Metadata API
- Z39.50 Cataloging
- Bulk output in WorldShare Collection Manager

OCLC Meridian

OCLC Meridian

Create and curate
linked data in
WorldCat Entities



OCLC Meridian

Create a new Organization entity

Create Entity ✕

Language of Content
English (en) ▾

Entity Label
The Ohio State University

Entity Type
Organization ▾

Description
Include information about the organization
A public land-grant research university in Columbus, Ohio.
58/500

Aliases
Add any alternative names that you want to be searchable.
OSU + -

Create Cancel

OCLC Meridian

Immediately access
a linked data URI

Create Entity

Language of Content
English (en)

Entity Label
The Ohio State University

View Edit

Actions ▾

The Ohio State University

[Copy URI](#)

Entity ID: E39QjHt4mqDQXwXHPc6vjBPHJ7
Entity Type: Organization
Description: A public land-grant research university in Columbus, Ohio.

Key Information [Add](#)

Language of Content	Entity Label	Description	Aliases
English	The Ohio State University	A public land-grant research university in Columbus, Ohio.	1 ✎ ⊖

[Create](#) [Cancel](#)

OCLC Meridian

Connect the new entity to other entities in the WorldCat graph

The screenshot displays the OCLC Meridian interface. On the left, a card for 'The Ohio State University' is visible, showing its Entity ID (E39QjHt), Entity Type (Organization), and Description (A public...). Below this, the 'Key Information' section shows the 'Language of Content' as 'English'. Overlaid on the right is a 'Create Entity' dialog box. The 'Language of Content' dropdown is set to 'English (en)'. Below it, the 'Entity Label' field is empty. A blue header bar at the top of the dialog reads 'Add Related Place' with a back arrow. Under the 'Relationship' section, a dropdown menu is set to 'Headquarters'. The 'Entity Label' section displays the selected entity: 'Columbus' (with a blue link), followed by its Entity ID 'E39PBJghmBfH76JbHTqycKXfMP' and a descriptive text: 'seat of a first-order administrative division in Franklin County, Ohio, United States, North America'. A 'Change Selection' link is located at the bottom right of the dialog.


OCLC Meridian

Find other
connection points in
the WorldCat graph



View **Edit**





Actions ▾

Jeff Mixer

 Copy URI

Entity ID: E39PBJtRjYkHh8gwxXj3JQ4cyd
Entity Type: Person
Description: product manager at OCLC

Key Information **Add** 1-5 of 28  

Language of Content	Entity Label	Description	Aliases	
English	Jeff Mixer	product manager at OCLC	2	 
German	Jeff Mixer		0	 

OCLC Meridian

Connect them back
to the new entity

The screenshot shows a modal dialog box titled "Add Related Person or Organization" with a blue header and a back arrow. The dialog is overlaid on a sidebar containing a "View" section with "Actions" and "Jeff Mix", and a "Key Inform" section with language options: "English" and "German".

Relationship

Educated At

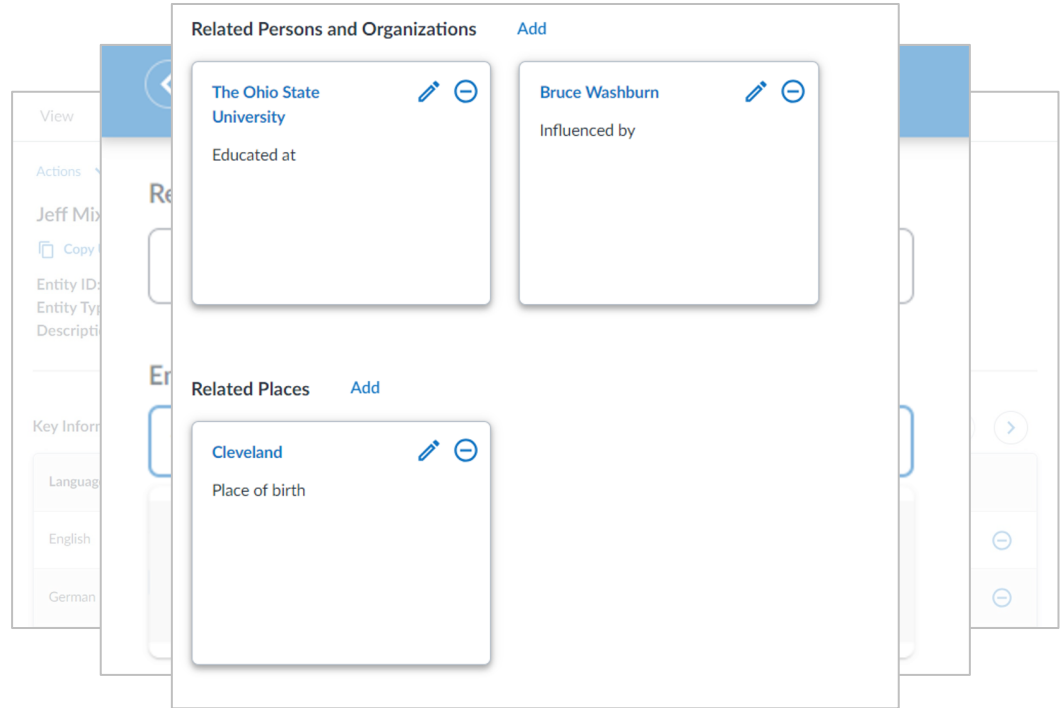
Entity Label

the ohio state

The Ohio State University
E39QjHt4mqDQXwXHPc6vjBPHJ7
A public land-grant research university in Columbus, Ohio.

OCLC Meridian

Rich and
meaningfully
connected graph of
data to serve library
workflows



BIBFRAME support

BIBFRAME ingest/export

MARC



BIBFRAME editor

Will meet the needs of librarians as they transition to non-MARC formats

Supports new data needs and workflows

Will work seamlessly back-and-forth with BIBFRAME and MARC data

Libraries can choose what works for them

**Because
what is
known must
be shared.[®]**

Let's continue the conversation: oclc.org/linkedata

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