

# **BIBFRAME in Practice: Powering a Collaborative Share Family Community with JCricket**

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**Share Family Council & Working Groups:**  
joint efforts contribute to development

**Casalini Libri:** provider of bibliographic and authority data, member of PCC

**@Cult:** ILS, Discovery tools and Semantic web solutions for the cultural heritage sector

vision of **Linked Data for Production** initiative  
with special endorsement of **Stanford University**

input and active participation from an  
**international group of research libraries**



# Shared goals

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Build a **linked data ecosystem** where **BIBFRAME entities** fully benefit from the rich data heritage of MARC catalogues.

Serve as a **trusted linked data hub**, providing authoritative, high-quality metadata for the global community.

Unify and enrich records from different libraries into a **shared entity-based catalogue**, integrating data from LC, VIAF, ISNI, Wikidata, and other trusted sources.

Offer a **user experience** that's both rich and intuitive, enabling seamless discovery and exploration.

**Open the data** on multiple levels — through APIs, triple stores, and the discovery portal — to support diverse uses, from research to innovation.



# New scenarios for cataloguing cooperation

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# Continuing developments...

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## 2015-2016

- **ALIADA**
- **BIBFRAME update Forum** at ALA Midwinter in Boston
- **Share catalogue** online (universities from southern Italy)
- **Share-VDE** prototype

## 2017-2019

- **Share-VDE** and **LD4P** members' data converted from MARC21 to BIBFRAME

## 2019-2021

- **Share-VDE** – virtual discovery environment for library linked open data
- **Share Family** embraces all LOD Platform initiatives

## 2021-2023

- Ongoing **PCC** data pool
- **Share-VDE 2.0**
- Ongoing **NatBib** working group and shared discovery environment
- **Share Family** towards production

## 2023-2025

- **British National Bibliography** in linked open data (beta version)
- **Parsifal** and **LILLIT** shared discovery environments launch
- **JCricket** collaborative cataloguing editor
- **LOD Platform** version 3

**Step 1:**  
Search on the Main Portal

**Step 2:**  
Enter the entity details page

**Step 3:**  
Click on the edit action and enter the JCricket UI

Lewis carroll

All results (6) People and organizations (1) Original work

6 results found

Person Lewis Carroll English writer, logician, Anglican deacon and photographer (1832-1898)

Original work Alice's adventures in Wonderland Novel written by Lewis Carroll in 1865.

Original work Music in art Journal published by Lewis Carroll, Alfred Ludlow Carroll, and

Lewis Carroll

Basic info

Agent type

Undefined

Person (http://uat3-base-svde.atcult.it/agentTypes/Person)

Name

Carroll, Lewis

English

Birth year

Editor options

Edit

Add to my merge list

Copy URI for this page

https://svde.org/agents/201

Copy

Information related to this person on other websites

Wikidata record

isni record

viaf record

Shared tools for collaborative data management





# Derived/copy cataloguing

## Derived records

A “copy” of the original record. They remain unchanged unless voluntarily updated (“Replace”)

## Original vs. Derived

Generally independent

Alignment mechanisms exist (e.g. SBN Index alignment)

## Technological evolution

APIs, protocols and open data → greater flexibility  
Derived cataloging becomes less rigid

## New possibilities

Richer search mechanisms

More data formats

Growing number of open data sources



JCricket

**Overview**

- "Poirot a Styles Court"

**Basic info**

- URI
- Publication type

**Title statements**

- Title
- Responsibility statement

**Contributors**

- Contributor

**Publication attributes**

- Publication provision activity

**Edition attributes**

- Edition statement

**Physical attributes**

- Extent
- Dimension

**Notes**

- Note

**IDs**

- Identifier

**Add property**

Editor layout ▾ UND, ENG, + ▾

Contributors

Contributor	...	+
 		

Publication attributes

Publication provision activity

 		+

Edition attributes

Edition statement

 	First edition	+
	 English (ENG)	+

Physical attributes

Extent

 		+

Dimension

 	256 pages	+
	 English (ENG)	+

External integrations

Poirot a Styles Court

Admin Metadata

Hrid: sf1770284269401  
Source: SF-LD  
Status Updated Date: 06/02/2026, 13:03:10

Titles

Title:  
Poirot a Styles Court   
Index Title:  
Poirot a Styles Court   
Alternative Title (Uniform title):  
Poirot a Styles Court 

Descriptive data

Editions:  
First edition   
Physical Descriptions:

← Go back

Download

Import

Copy cataloguing - pull data from FOLIO

Data pulled from FOLIO

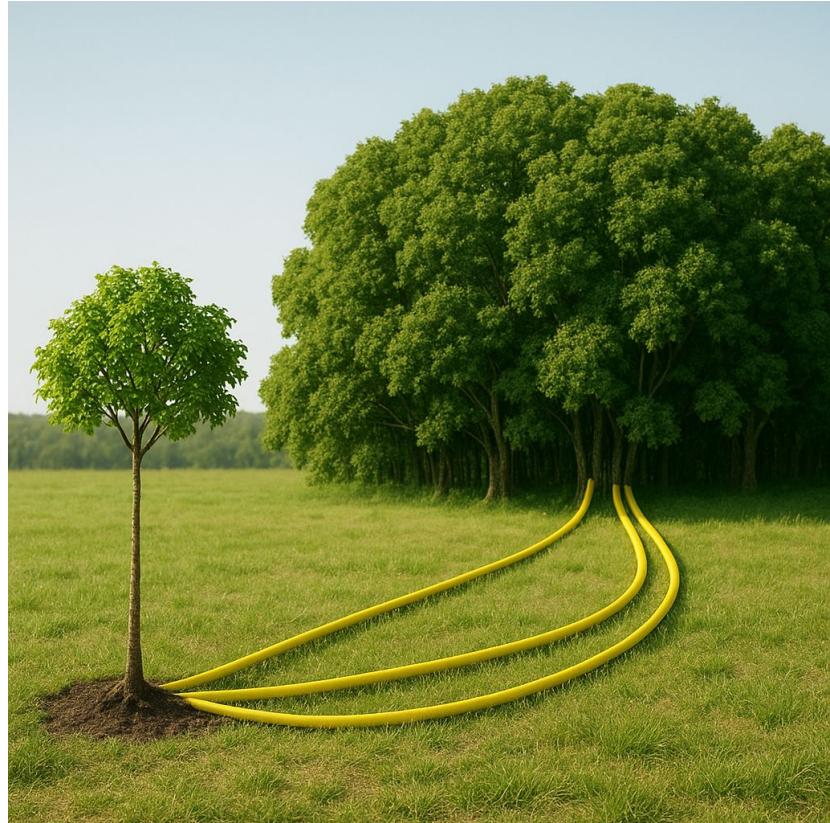
COPY FUNCTION



# Co-operative cataloging

A cooperative/integrated workflow where local and central systems are fully interoperable: data entered locally is reflected centrally, and conversely, central data is discoverable and reusable locally.

→ Focus: **bidirectional synchronization**; cataloging gains added value by keeping local and central environments **aligned**.



Dashboard

Explore Publication with unknown title

Simple search Il fu mattia pascal

Advanced search Title contains the words Emina a novel

Editor "Il fu Mattia Pascal" Options

Editor layout UND, ENG, +

Overview

Il fu Mattia Pascal

URI https://svde.org/instances/1746181769175

Publication type

Title and responsibility statement

Title Il fu Mattia Pascal

Responsibility statement di Luigi Pirandello

Contributors Luigi Pirandello

Media carrier attributes Media type Carrier type

Physical attributes Extent Dimension

Notes Note Other physical details

IDs Record control number

Add property

All Titles in Institution (1 - 1 of 1) | Search Query: Keywords Contains Keywords 'mattia pascal'

Sort by: Rank | Secondary sort by: Rank | Expand: Select a value | Push to MDR | Manage Labels |

1 Il fu Mattia Pascal Book (Book - Physical) Modification Date 2025/09/30 09:24:41 EDT Edition Seconda edizione

Sources

Il fu Mattia Pascal MMS ID 99262075300562 Additional Information Add Labels

General Information

Bibliographic Record

```

<rdf:RDF xmlns:RDF="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:bf="http://id.loc.gov/ontologies/bibframe/" xmlns:bf1c="http://id.loc.gov/ontologies/bibframe1c/" xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <bf:Instance rdf:about="https://demo.svde.org/instances/175337752725">
    <bf:instanceOf rdf:resource="https://demo.svde.org/works/1746181769175"/>
    <bf:title>
      <bf:mainTitle>Il fu Mattia Pascal</bf:mainTitle>
      <bf:subtitle></bf:subtitle>
      <bf:alternativeTitle></bf:alternativeTitle>
      <bf:identifiedBy>
        <bf:isbn>
          <bf:isbnValue>9788811264070</bf:isbnValue>
        </bf:isbn>
      </bf:identifiedBy>
    </bf:title>
  </bf:Instance>

```

JCricket

Inventory

Search & Filter

Search Keyword title, contributor, identifier, MDR, U

Search

Reset all Advanced search

Effective locations (Item)

Language

Resource Type

Format

Mode of issuance

Nature of content

Staff suppress O

Suppress from discovery

Statistical code

Date created

Date updated

Instance status

Source ID

Tags

Instance Record (text)

Il fu Mattia Pascal, di Luigi Pirandello

Administrative data

Record last updated: 9/15/2025 9:10 AM

Instance ID 1746181769175 | Source SF-LD | Cataloged date 2025-05-13 07:43:28

Instance status term Instance status code Instance status source

status updated 9/15/2025, 9:10 AM

Mode of issuance

Statistical code type Statistical code

Administrative note

Title data

Resource title Il fu Mattia Pascal, di Luigi Pirandello

Alternative title Type Uniform title Il fu Mattia Pascal

Index title Il fu Mattia Pascal, di Luigi Pirandello

# Co-operative cataloguing

## Data flow from JCricket to FOLIO

## Data flow from JCricket to Alma





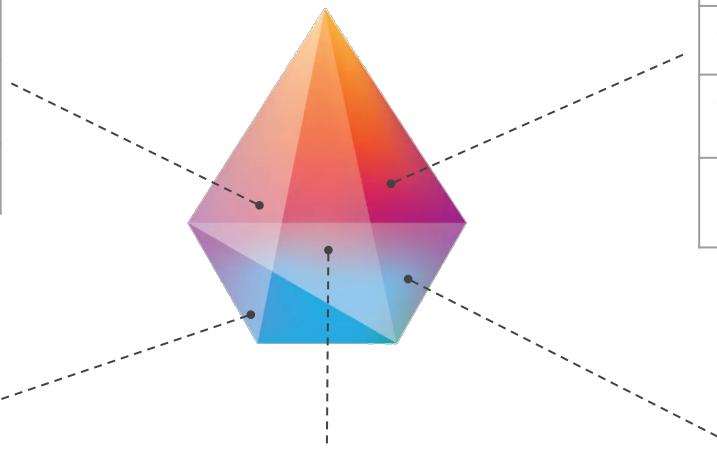
## Shared cataloguing

**Shared cataloguing** promotes an integrated and cooperative model in which several contributors work together to create and enhance bibliographic entities.



# Provenance and Prism

P1		VIAF Virtual International Authority File
title	Alice in wonderland	
titleAlternative	Alice's adventures under ground	
author	<a href="https://svde.org/people/201">https://svde.org/people/201</a>	



P2		WIKIDATA
title	Alice in wonderland	
titleAlternative	Alice's adventures under ground	
author	<a href="https://svde.org/people/201">https://svde.org/people/201</a>	

P4		(BnF Data
title	Alice in wonderland	

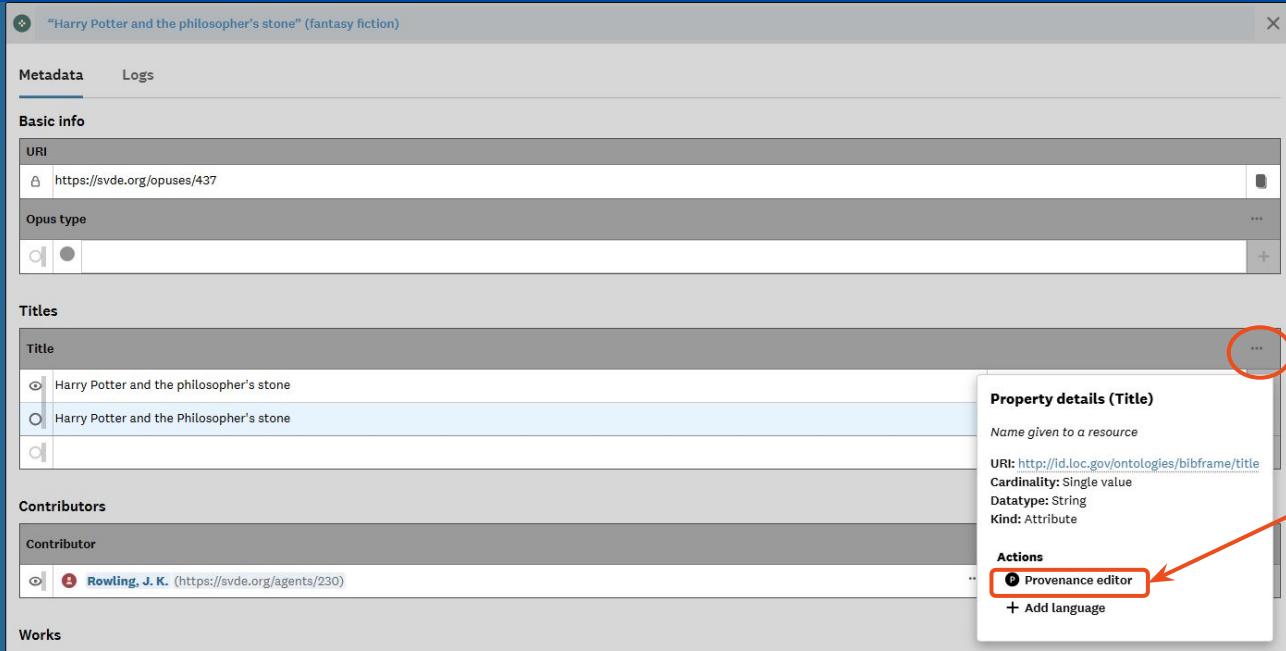
P3 Share VDE		
sameAs	<a href="http://dbpedia.org/resource/Alice's_Adventures_in_Wonderland">http://dbpedia.org/resource/Alice's_Adventures_in_Wonderland</a>	Dbpedia
sameAs	<a href="https://www.wikidata.org/wiki/Q189875">https://www.wikidata.org/wiki/Q189875</a>	Wikidata
sameAs	<a href="https://data.bnf.fr/ark:/12148/cb358500385#about">https://data.bnf.fr/ark:/12148/cb358500385#about</a>	bnf

P5 WorldCat® Entities	
title	Alice's adventures under ground
titleAlternative	Journeys in Wonderland
author	<a href="https://svde.org/people/201">https://svde.org/people/201</a>



# Shared cataloguing

Provenance management:  
explore an Agent prism



Metadata Logs

Basic info

URI

Opus type

Titles

Contributors

Works

Property details (Title)

Name given to a resource

URI: <http://id.loc.gov/ontologies/bibframe/title>

Cardinality: Single value

Datatype: String

Kind: Attribute

Actions

**Provenance editor**

+ Add language

Options box  
including  
Provenance  
editor



# Shared cataloguing

Provenance management:  
explore an Agent prism

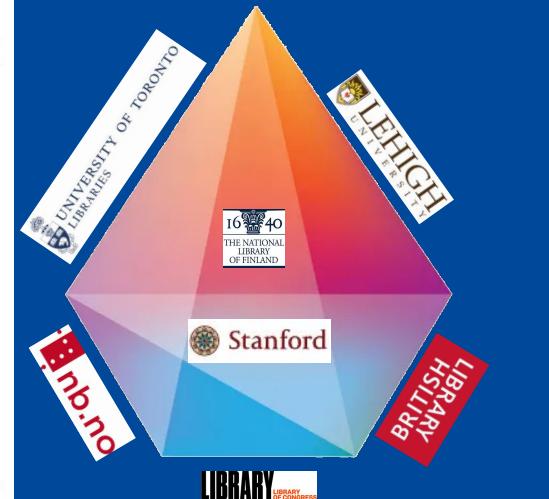
“Harry Potter and the Philosopher’s Stone” (fantasy fiction)

## Provenance data

Title			NLF	
	○ Harry Potter and the philosopher's stone	●	BL	
	○ Harry Potter and the philosopher's stone	●	UTORONTO	
	○ Harry Potter and the philosopher's stone	●	STANFORD	
	○ Harry Potter and the Philosopher's Stone	●	LEHIGH	
	○ Harry Potter and the Philosopher's Stone	●	LOC	
	○ Harry Potter e la pietra filosofale	● Italian (ITA)	LEHIGH	
	○ Harry Potter og de vises stein	● Norwegian Bokmål (NOB)	NLN	

End of 'title' provenance statements

Close



# Shared cataloguing

Andreas Philopater

• Publications (27)     • People and organizations (27)

Start year     End year     Location     Sort by: Relevance▼

27 results

Person

Parsons, Robert  
Born in 1546 in Nether Stowey (England). Died in 1610 in Rome (Italy).  
Also known as: *Philopater, Andreas*

Variant forms  
are  
clustered,  
indexed and  
recognised

Variant forms  
impact of a rich prism on indexing and search results



Parsons, Robert

Metadata Logs

### Basic info

**URI**

https://uat.natbib-lod.org/agents/191754488821071

**Agent type** [Person](#)

[Person](#) (https://uat.natbib-lod.org/agentTypes/Person)

### Name information

**Name** [Parsons, Robert](#)

**Variant name** [Parsons, Robert](#), [Philopater, Andreas](#), [Doleman, R.](#)

Variant forms and external IDs in JC Cricket

Variant name		+
<a href="#">P</a>	Persons, Robert	
<a href="#">P</a>	Philopater, Andreas	
<a href="#">P</a>	Doleman, R.	
<a href="#">P</a>	Dolman, R.	
<a href="#">P</a>	Doleman, Nicholas	
<a href="#">P</a>	D., N.	
<a href="#">P</a>	N. D.	
<a href="#">P</a>	Philopatrus, Andrea	
<a href="#">P</a>	Catholicke deuyne	
<a href="#">P</a>	Catholicke devyne	
<a href="#">P</a>	Parsons, Robert	

External IDs

Same as

- http://data.bnf.fr/12064779
- http://isni.org/isni/0000000453023847
- http://id.loc.gov/authorities/names/n50078836
- http://www.wikidata.org/entity/Q343791
- http://viaf.org/viaf/76338717

impact of a rich prism on indexing and search results

# Shared cataloguing

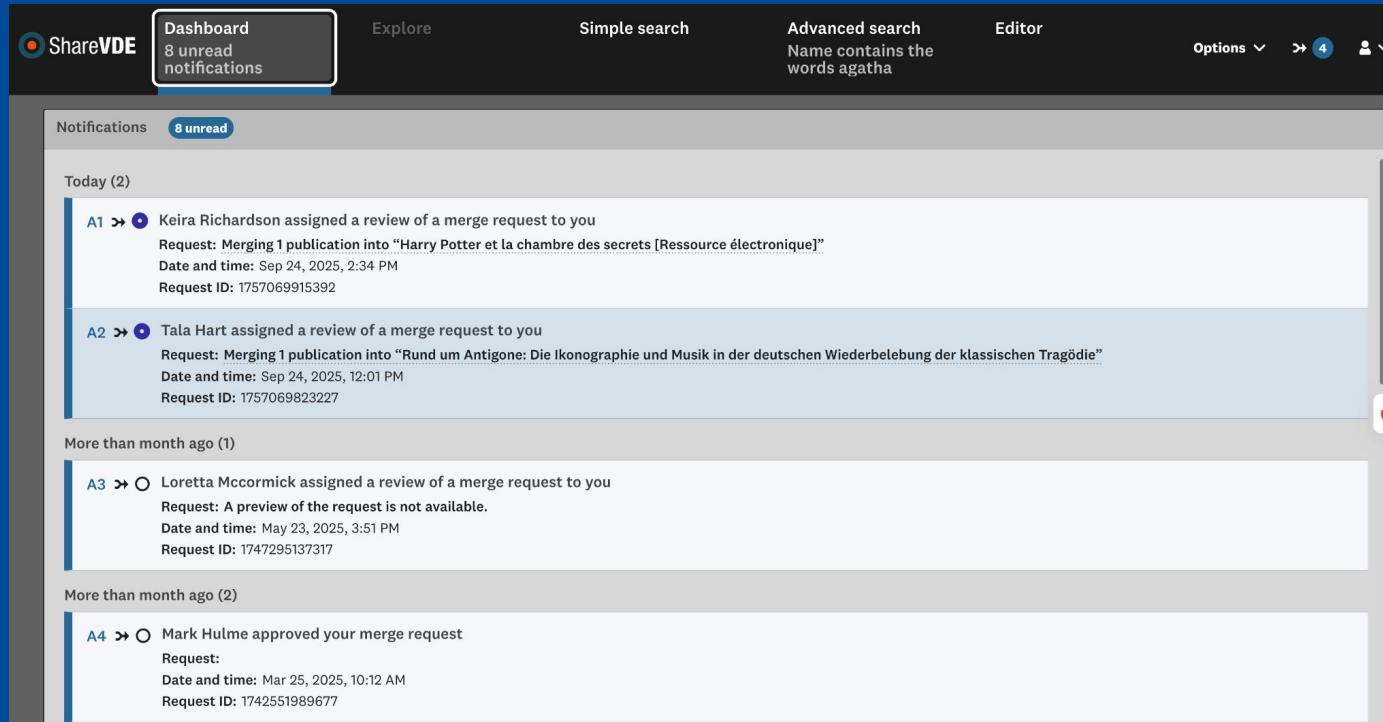
The screenshot shows the ShareVDE interface with the following elements:

- Header:** ShareVDE logo, Dashboard (8 unread notifications), Explore (Miller, Agatha Mary Clarissa), Simple search, Advanced search (Name contains the words agatha), Editor, Options, and a notification badge (4).
- Search Bar:** Contains the search term "agatha".
- Search Results:** Person results, 2 results. The first result is "Miller, Agatha Mary Clarissa (1890-1976)" with details: Birth place: Winterbrook, Death place: Winterbrook, Notes: , Identifier: a1757069826836. The second result is "Agatha Christie (Writer, 1890-1976)" with details: Birth place: Torquay, Death place: , Notes: , Identifier: a1757069823279.
- Merge List Dialog:** A modal window titled "My merge list" showing 3 merge lists. It lists "No destination selected" and "Merging 2 agents including Miller, Agatha Mary Clarissa". It also shows two entities: "Agatha Christie (Person, 1890-1976)" and "Miller, Agatha Mary Clarissa (Person, 1890-1976)". Buttons for "View instructions" and "Choose destination" are present.
- Bottom Bar:** Buttons for "Add to a new merge list" and "Add to: Merging 3 agents into Johannes Scylitz".

Merge entities in JCricket



# Shared cataloguing



The screenshot shows the ShareVDE dashboard with a dark blue header. The header includes the ShareVDE logo, a notification box indicating 8 unread notifications, and links for Dashboard, Explore, Simple search, Advanced search (with a search term 'Name contains the words agatha'), Editor, Options, and a user profile icon.

The main content area is titled 'Notifications' with '8 unread' notifications. It is organized into sections by time: 'Today (2)', 'More than month ago (1)', and 'More than month ago (2)'. Each section lists a merge request assigned to the user, including the assignee's name, the request ID, the publication being merged into, the date and time, and the request ID.

- Today (2)**
  - A1** ➡ Keira Richardson assigned a review of a merge request to you  
Request: Merging 1 publication into "Harry Potter et la chambre des secrets [Ressource électronique]"  
Date and time: Sep 24, 2025, 2:34 PM  
Request ID: 1757069915392
  - A2** ➡ Tala Hart assigned a review of a merge request to you  
Request: Merging 1 publication into "Rund um Antigone: Die Ikonographie und Musik in der deutschen Wiederbelebung der klassischen Tragödie"  
Date and time: Sep 24, 2025, 12:01 PM  
Request ID: 1757069823227
- More than month ago (1)**
  - A3** ➡ Loretta McCormick assigned a review of a merge request to you  
Request: A preview of the request is not available.  
Date and time: May 23, 2025, 3:51 PM  
Request ID: 1747295137317
- More than month ago (2)**
  - A4** ➡ Mark Hulme approved your merge request  
Request:  
Date and time: Mar 25, 2025, 10:12 AM  
Request ID: 1742551989677

JCricket Dashboard for Task Assignment



# Shared cataloguing

“Northcourt”

Thomas, M. J. Author (<https://uat.natbib-lod.org/roles/aut>)

Works

Has Expression

Northcourt. English. (Text) (<https://uat.natbib-lod.org/works/17831762455817459>)

Romance fiction, Indic (English) (<https://uat.natbib-lod.org/genres/17831762455819222>)

Romance flms (<https://uat.natbib-lod.org/genres/61754490278435>)

Year

Romance (<https://uat.natbib-lod.org/genres/311754491091292>)

Romance films. (<https://uat.natbib-lod.org/genres/291754490514477>)

Romance television programs (<https://uat.natbib-lod.org/genres/11754486486446>)

Genre

romance

Add property

Northcourt. English. (Text)

Instances

Has Instance

Northcourt : The Story of a Hamlet (<https://uat.natbib-lod.org/instances/17831762455817426>)

Core attributes

Language

English (<https://uat.natbib-lod.org/languages/eng>)

Content type

Text (<https://uat.natbib-lod.org/forms/11754486479954>)

still

Year

still

Create a new Content type called “still”

Still image (<https://uat.natbib-lod.org/forms/11754486479870>)

Contributors

Contributor

Thomas, M. J. Author (<https://uat.natbib-lod.org/roles/aut>)

Controlled vocabularies



# Best practices for the use of JCricket in a shared environment

## Scope:

- establish practices to work on a multi-institution, shared, entity-based catalogue
- consolidate cataloguing workflows in JCricket
- ensure streamlined, consistent data integration with external systems

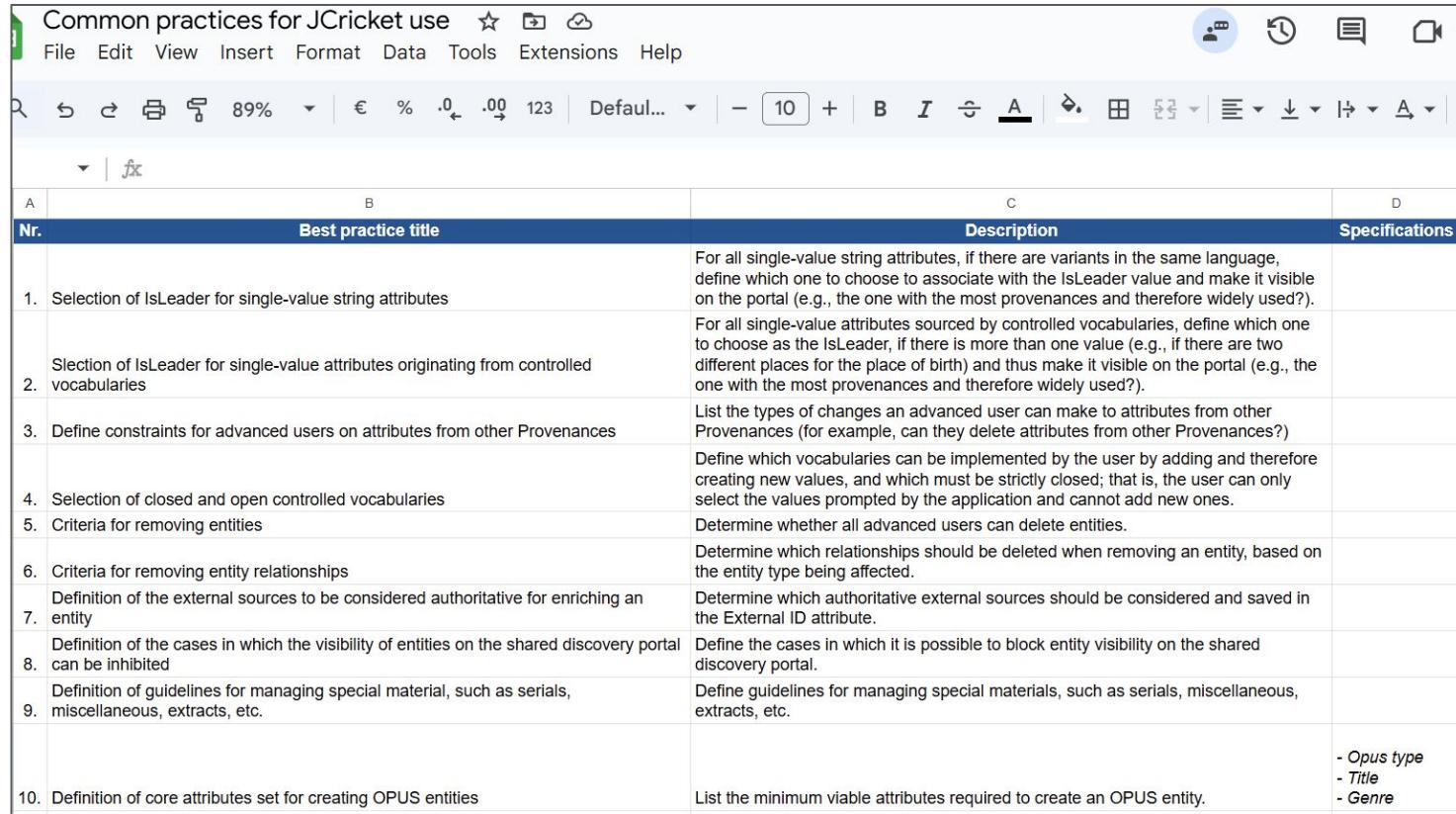
## JCricket practices examples:

- core set of properties for entities description
- selection of preferred forms (eg. for mono-valued properties, or different input values for controlled vocabularies)
- constraints on editing data coming from other Provenances
- criteria for entity cancellation
- criteria for selection of authoritative external sources
- ...



# Examples of best practices for the use of JCricket in a shared environment

Common practices for JCricket use



Nr.	Best practice title	Description	Specifications
1.	Selection of IsLeader for single-value string attributes	For all single-value string attributes, if there are variants in the same language, define which one to choose to associate with the IsLeader value and make it visible on the portal (e.g., the one with the most provenances and therefore widely used?).	
2.	Selection of IsLeader for single-value attributes originating from controlled vocabularies	For all single-value attributes sourced by controlled vocabularies, define which one to choose as the IsLeader, if there is more than one value (e.g., if there are two different places for the place of birth) and thus make it visible on the portal (e.g., the one with the most provenances and therefore widely used?).	
3.	Define constraints for advanced users on attributes from other Provenances	List the types of changes an advanced user can make to attributes from other Provenances (for example, can they delete attributes from other Provenances?)	
4.	Selection of closed and open controlled vocabularies	Define which vocabularies can be implemented by the user by adding and therefore creating new values, and which must be strictly closed; that is, the user can only select the values prompted by the application and cannot add new ones.	
5.	Criteria for removing entities	Determine whether all advanced users can delete entities.	
6.	Criteria for removing entity relationships	Determine which relationships should be deleted when removing an entity, based on the entity type being affected.	
7.	Definition of the external sources to be considered authoritative for enriching an entity	Determine which authoritative external sources should be considered and saved in the External ID attribute.	
8.	Definition of the cases in which the visibility of entities on the shared discovery portal can be inhibited	Define the cases in which it is possible to block entity visibility on the shared discovery portal.	
9.	Definition of guidelines for managing special material, such as serials, miscellaneous, extracts, etc.	Define guidelines for managing special materials, such as serials, miscellaneous, extracts, etc.	
10.	Definition of core attributes set for creating OPUS entities	List the minimum viable attributes required to create an OPUS entity.	<ul style="list-style-type: none"><li>- Opus type</li><li>- Title</li><li>- Genre</li></ul>



# Open Metadata Policy



## Share Family Open Metadata Policy

Approved by the Share Family Advisory Council  
on March 15<sup>th</sup> 2023; amended on April 9<sup>th</sup> 2025

The Share Family strives to support and invest in open data to freely share information. The community is committed, wherever possible, to share data transformed by its series of Linked Open Data (LOD) processes. The Share Family community has invested great effort to ensure its structured data adhere to the accepted community standards and practices for the library and the open data community.



Share Family data may be used under a CC0 license unless expressly stated otherwise.

The Share Family data pool consists of newly created metadata objects derived from existing data provided by member institutions, enriched and published as RDF, as well as entirely new objects manually created within the system. These data are open and interoperable by humans and machines alike. The Share Family highly encourages their use to promote global dissemination, accessibility, reusability, and discoverability of information resources.

JCricket and the [LOD Platform](#) rely on open metadata:

- the network of participating institutions co-create open metadata descriptions for new-born object
- individual descriptions and aggregated datasets
- entity URIs can be freely reused and shared
- external sources of open data are also key to enrich the datasets

**Commitment to open metadata:**

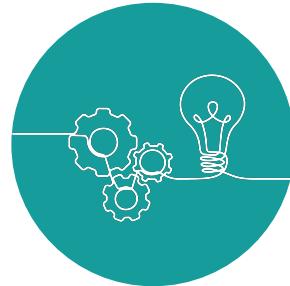
- [Share Family Open Metadata Policy](#)
- [Open Metadata in the Share Family](#), at DCMI Open Metadata Clinic (DCMI 2025 Conference)
- Discussion with [Barcelona Declaration on Open Research Information](#)



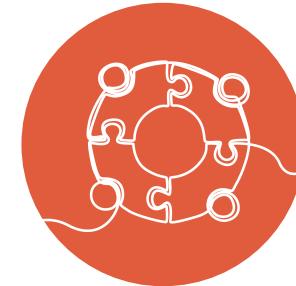
# Developed and driven by libraries, for libraries



Governed and steered by the **Share Family Advisory Council**, made up of representatives from member institutions.



Members and **working groups** actively participate in policy-making and tool development, as well as defining goals.



Expertise, responsibilities and costs are shared across the **community** for the benefit of all.





## Co-operative

Shared tools for collaborative data management

## Sustainable

Optimisation of efforts for the benefit of all members

## Open

Interoperability for increased discovery of collections

## Inclusive

Diversity for enhancement and equality of access to knowledge

## Dynamic

Flexibility and interaction are central

**Find out more**

<http://bit.ly/44rnqpA>



# Live examples of JCricket features

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[Data flow from JCricket to FOLIO](#)

[Data flow from JCricket to Alma](#)

[Copy cataloguing - pull data from FOLIO](#)

Management of Provenance and Prism

[Management of Provenance and Prism - Agent](#)

[Impact of a rich prism on indexing and search results](#)

[Merge entities in JCricket and JCricket Dashboard for Task Assignment](#)

[Controlled vocabularies](#)





# Thank you!



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Share Family information  
is available here:

