

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

**Tiziana Possemato**

Director at @Cult (Casalini Group)  
Coordinator of the Share Family

**Anna Lionetti**

R&D Assistant at Casalini Libri  
R&D Assistant and liaison of the Share Family





**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

---

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.

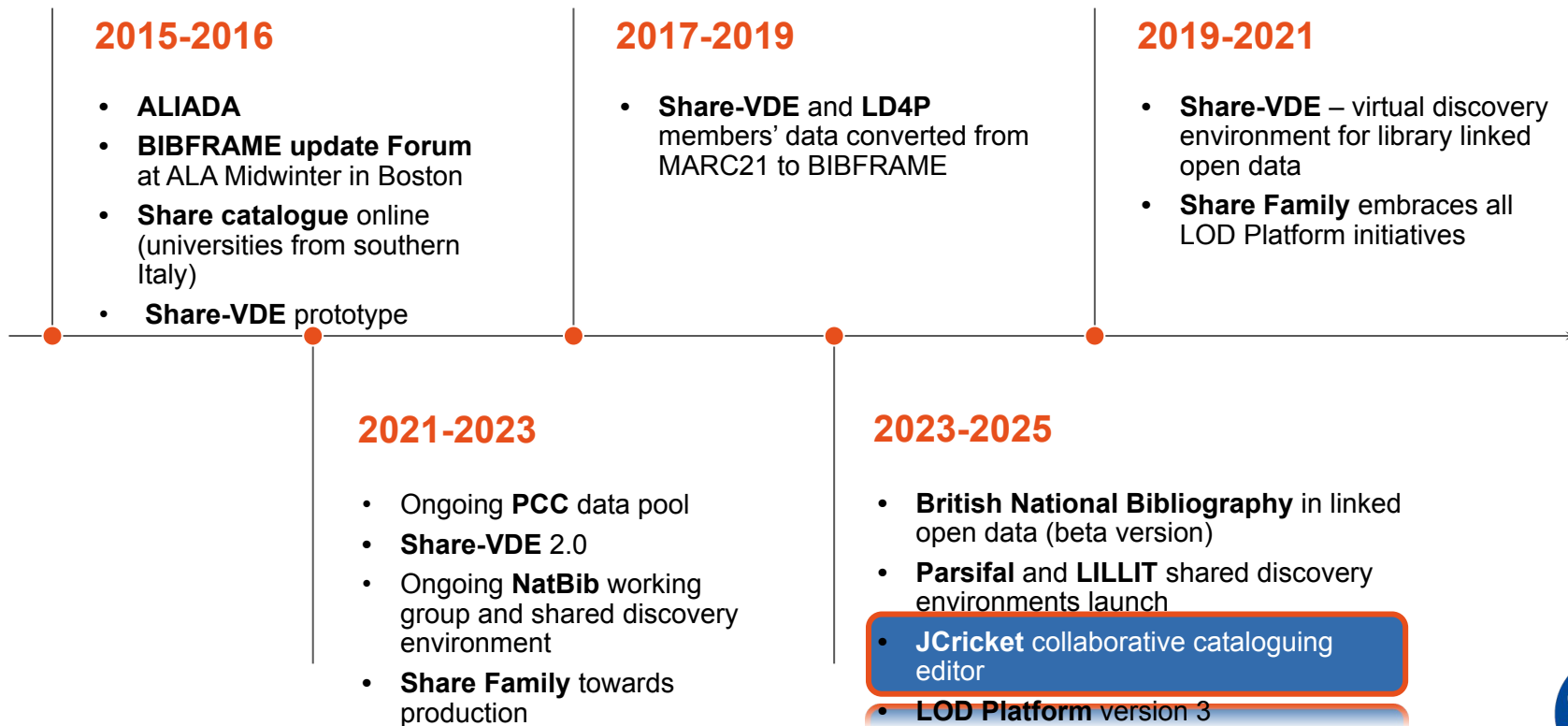


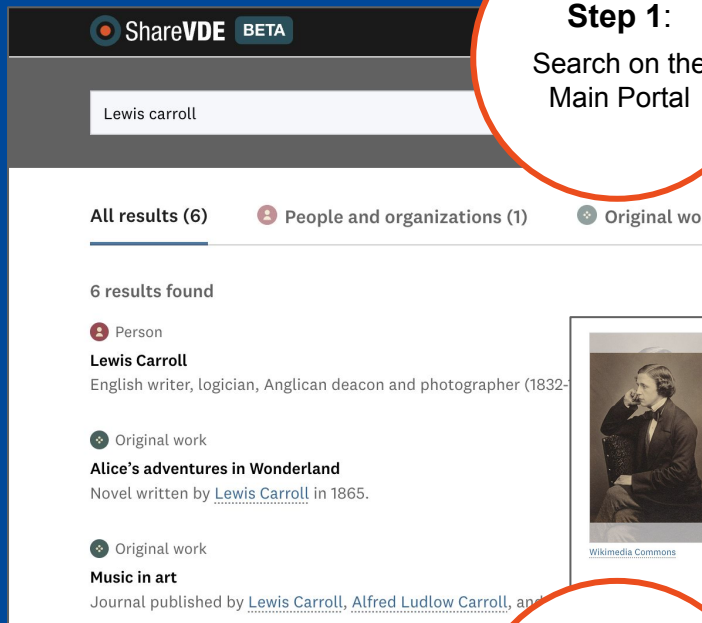
# New scenarios for cataloguing cooperation

---

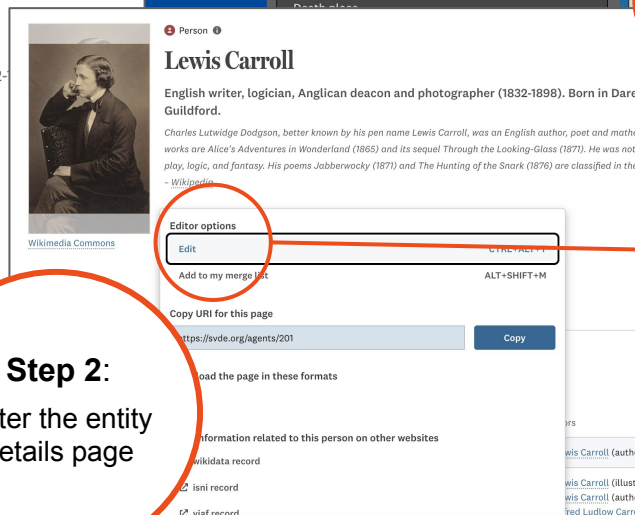


# Continuing developments...

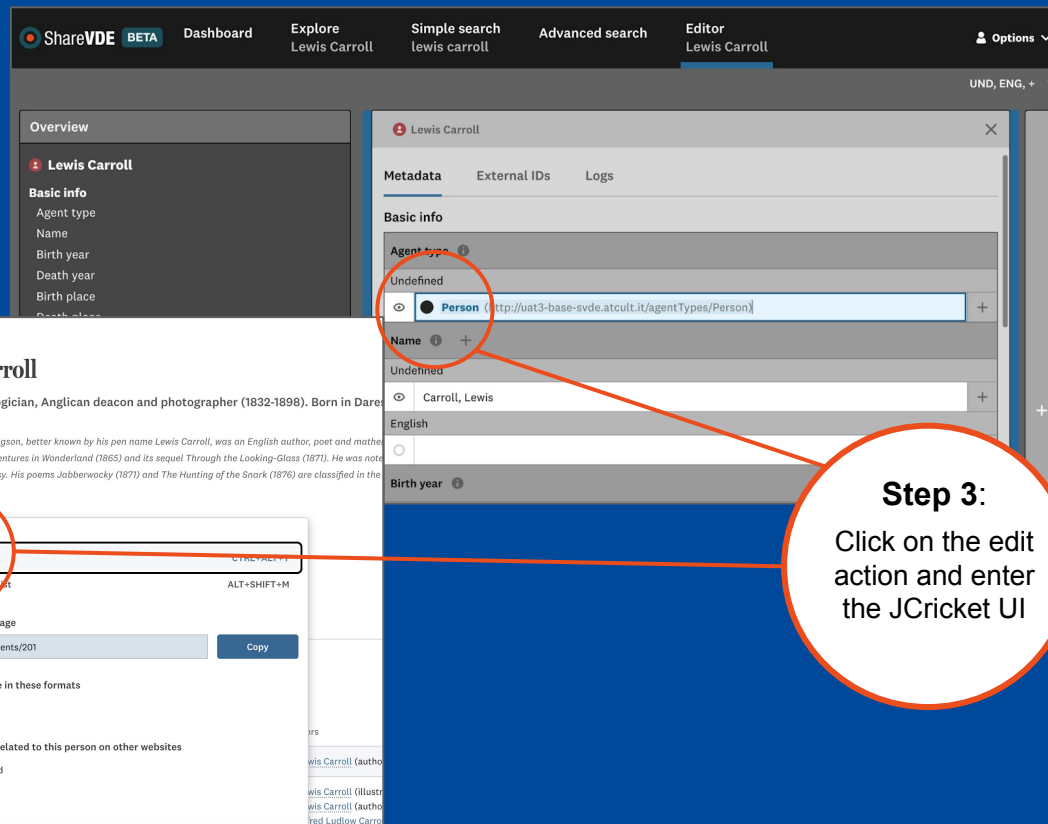




**Step 1:**  
Search on the  
Main Portal



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



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

# 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



ShareVDE

Dashboard

Explore

Poirot a Styles Court

Simple search

Advanced search

Editor

"Poirot a Styles Court"

Options

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

"Poirot a Styles Court"

Contributors

Contributor

Publication attributes

Publication provision activity

Edition attributes

Edition statement

First edition

English (ENG)

Physical attributes

Extent

256 pages

English (ENG)

Dimension

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:

COPY FUNCTION

Go back

Download

Import

Copy cataloguing - pull data from FOLIO

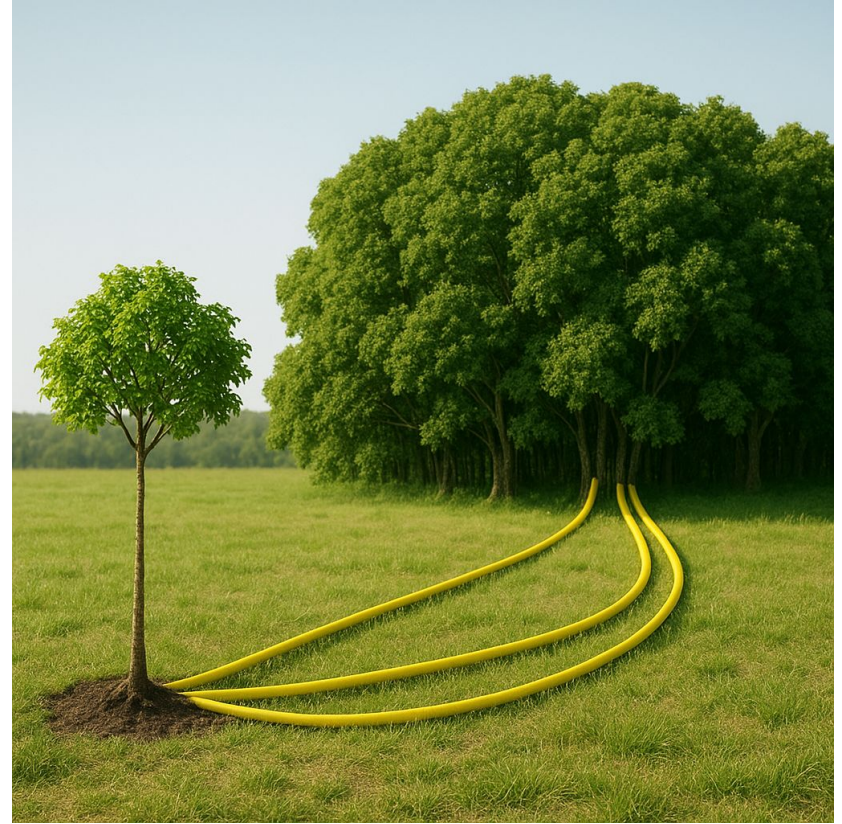
The logo for ShareVDE FAMILY, featuring the text "ShareVDE" in a large, stylized font with "FAMILY" in a smaller font below it, and a network diagram of orange dots connected by lines to the right.

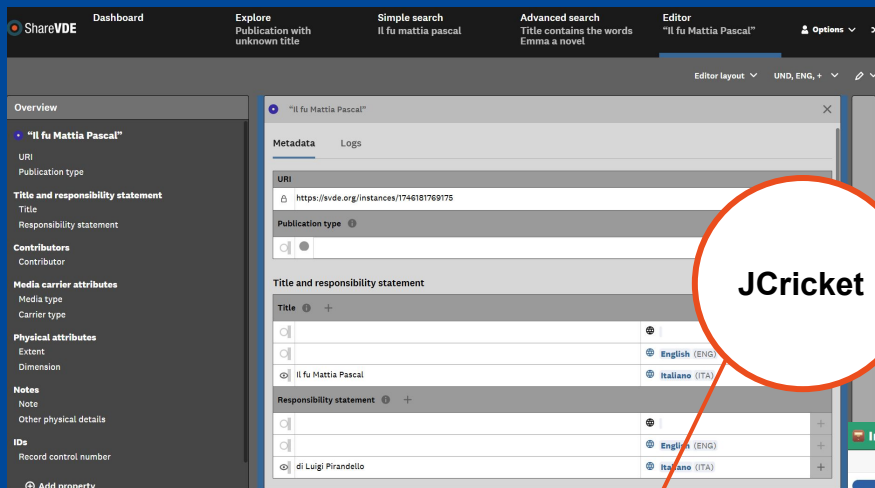


# Co-operative cataloging

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**.



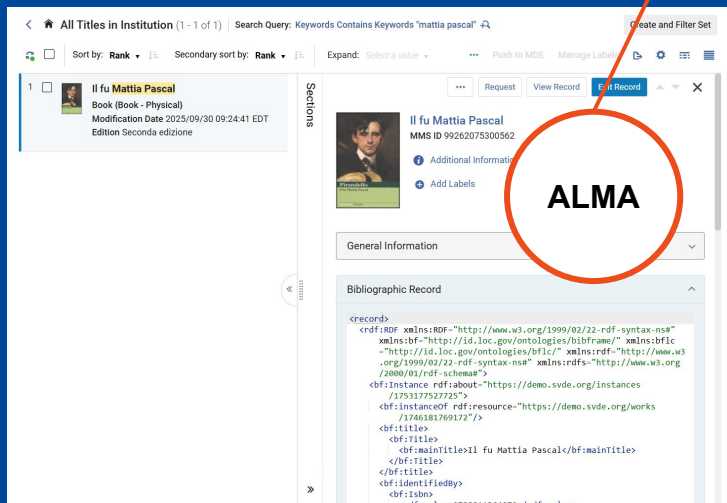


JCricket

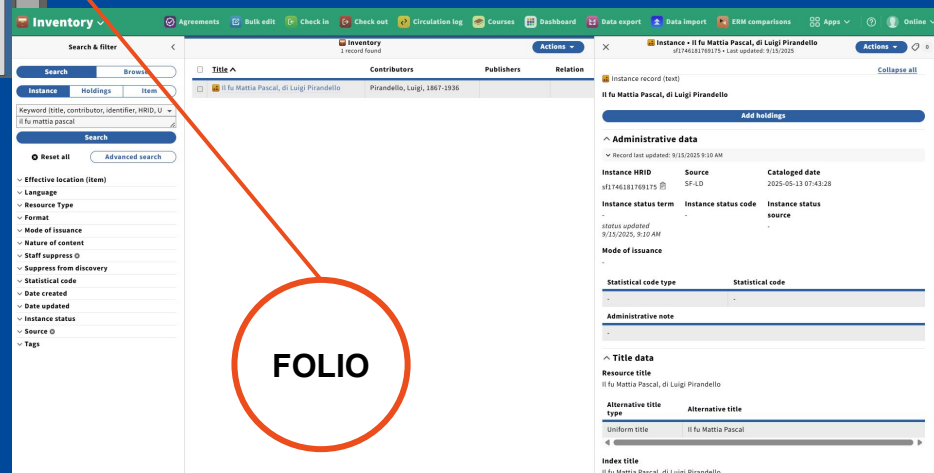
# Co-operative cataloguing

## Data flow from JCricket to FOLIO

## Data flow from JCricket to Alma



ALMA



FOLIO





## 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

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

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

<div>P3</div> <div></div>		
<b>sameAs</b>	<a href="http://dbpedia.org/resource/Alice%39;s_Adventures_in_Wonderland">http://dbpedia.org/resource/Alice%39;s_Adventures_in_Wonderland</a>	Dbpedia
<b>sameAs</b>	<a href="https://www.wikidata.org/wiki/Q189875">https://www.wikidata.org/wiki/Q189875</a>	Wikidata
<b>sameAs</b>	<a href="https://data.bnf.fr/ark:/12148/cb358500385#about">https://data.bnf.fr/ark:/12148/cb358500385#about</a>	bnf

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

# Shared cataloguing

Provenance management:  
explore an Agent prism

"Harry Potter and the philosopher's stone" (fantasy fiction)

Metadata Logs

**Basic info**

URI  
https://svde.org/opuses/437

Opus type

**Titles**

Title

- Harry Potter and the philosopher's stone
- Harry Potter and the Philosopher's stone

**Contributors**

Contributor

- Rowling, J. K. (https://svde.org/agents/230)

**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

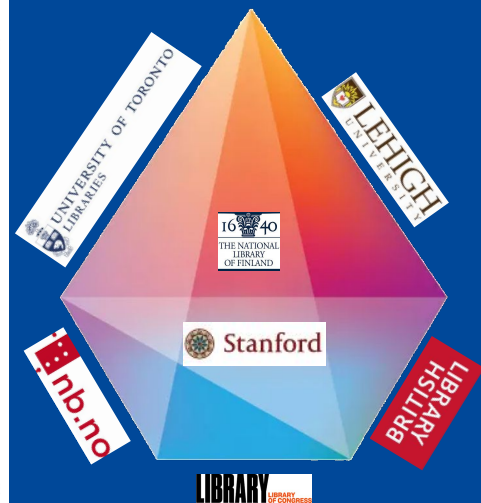
✦ "Harry Potter and the Philosopher's Stone" (fantasy fiction)

## Provenance data

Title	<input type="radio"/>	Harry Potter and the philosopher's stone		NLF		+
	<input type="radio"/>	Harry Potter and the philosopher's stone		BL		+
	<input type="radio"/>	Harry Potter and the philosopher's stone		UTORONTO		+
	<input type="radio"/>	Harry Potter and the Philosopher's stone		STANFORD		+
	<input type="radio"/>	Harry Potter and the Philosopher's stone		LEHIGH		+
	<input checked="" type="radio"/>	Harry Potter and the Philosopher's Stone		LOC		+
	<input checked="" type="radio"/>	Harry Potter e la pietra filosofale	Italian (ITA)	LEHIGH		+
	<input checked="" type="radio"/>	Harry Potter og de vises stein 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*

The screenshot shows a search interface with a search bar containing 'Andreas Philopater'. Below the search bar, there are two tabs: 'Publications (27)' and 'People and organizations (27)'. The 'People and organizations' tab is selected. Below the tabs, there are filters for 'Start year', 'End year', and 'Location', and a 'Sort by: Relevance' dropdown. The search results section shows '27 results'. The first result is a 'Person' entry for 'Parsons, Robert'. This entry is circled in red. The text for this entry includes 'Born in 1546 in Nether Stowey (England). Died in 1610 in Rome (Italy). Also known as: *Philopater, Andreas*'. A red line points from the circled text to a callout box on the right.

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 P

👁 ● **Person** (<https://uat.natbib-lod.org/agentTypes/Person>)

Name information

Name P +

👁 Parsons, Robert

🔍

Variant name +

👁 P Parsons, Robert

👁 P Philopater, Andreas

👁 P Doleman, R.

Variant name <span>+</span>		
<span>👁</span>	<span>P</span>	Persons, Robert
<span>👁</span>	<span>P</span>	Philopater, Andreas
<span>👁</span>	<span>P</span>	Doleman, R.
<span>👁</span>	<span>P</span>	Dolman, R.
<span>👁</span>	<span>P</span>	Doleman, Nicholas
<span>👁</span>	<span>P</span>	D., N.
<span>👁</span>	<span>P</span>	N. D.
<span>👁</span>	<span>P</span>	Philopatrus, Andrea
<span>👁</span>	<span>P</span>	Catholicke deuyne
<span>👁</span>	<span>P</span>	Catholicke devyne
<span>👁</span>	<span>P</span>	Parsons, Robert

Variant forms  
and external  
IDs in  
JCricket

#### External IDs

##### Same as

<span>🔍</span>	<a href="http://data.bnf.fr/12064779">http://data.bnf.fr/12064779</a>
<span>🔍</span>	<a href="http://isni.org/isni/0000000453023847">http://isni.org/isni/0000000453023847</a>
<span>🔍</span>	<a href="http://id.loc.gov/authorities/names/n50078836">http://id.loc.gov/authorities/names/n50078836</a>
<span>🔍</span>	<a href="http://www.wikidata.org/entity/Q343791">http://www.wikidata.org/entity/Q343791</a>
<span>🔍</span>	<a href="http://viaf.org/viaf/76338717">http://viaf.org/viaf/76338717</a>

impact of a rich prism on indexing and search results

# Shared cataloguing

The screenshot displays the ShareVDE web application interface. The top navigation bar includes links to Dashboard, Explore, Simple search, Advanced search, and Editor. The 'Advanced search' section is active, showing a search for 'Name contains the words agatha'. Below the navigation bar, a 'Person results' section shows two results: 'Miller, Agatha Mary Clarissa (1890-1976)' and 'Agatha Christie (Writer, 1890-1976)'. A modal window titled 'My merge list' is open, showing a list of merge lists. The 'Currently selected list' is 'No destination selected'. Below this, a list of agents is shown: 'Agatha Christie (Person, 1890-1976)' and 'Miller, Agatha Mary Clarissa (Person, 1890-1976)'. A button 'Choose destination >' is visible at the bottom of the modal. A small tooltip at the bottom right of the modal says '+ Add to a new merge list' and 'Add to: Merging 3 agents into Johannes Scylitza'.

ShareVDE Dashboard 8 unread notifications Explore Miller, Agatha Mary Clarissa Simple search Advanced search Name contains the words agatha Editor Options 4

Clear all Search

**Person results**

Filter people... Q

2 results

Sort by (A - Z) v

1. **Miller, Agatha Mary Clarissa (1890-1976)**  
Birth place:   
Death place: Winterbrook  
Notes:   
Identifier: a1757069826836

2. **Agatha Christie (Writer, 1890-1976)**  
Birth place: Torquay  
Death place:   
Notes:   
Identifier: a1757069823279

**My merge list** X

There are 3 merge lists in your space.

Currently selected list:

➔ No destination selected v

➔ Merging 2 agents including Miller, Agatha Mary Clarissa

Agatha Christie (Person, 1890-1976)  
a1757069823279

Miller, Agatha Mary Clarissa (Person, 1890-1976)  
a1757069826836

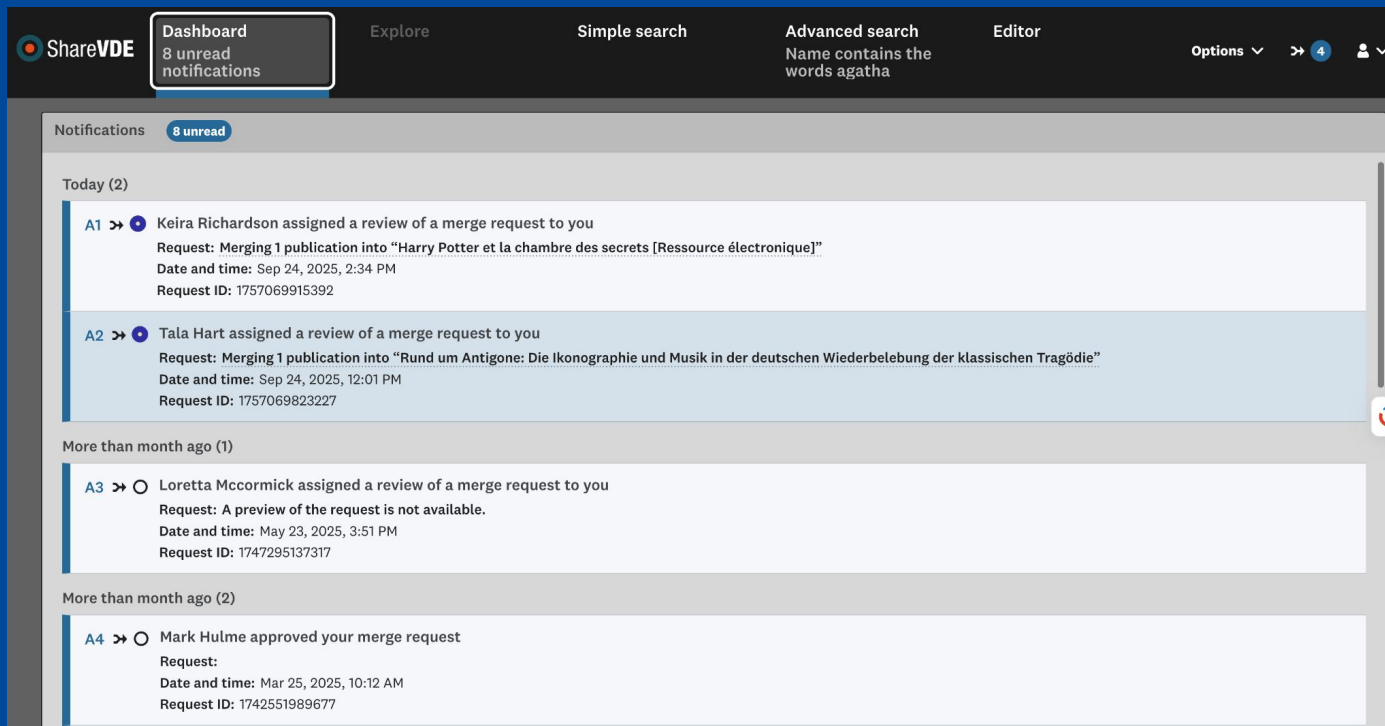
View instructions Choose destination >

+ Add to a new merge list

➔ Add to: Merging 3 agents into Johannes Scylitza

## Merge entities in JCricket

# Shared cataloguing



The screenshot displays the ShareVDE Dashboard interface. At the top, a navigation bar includes the ShareVDE logo, a 'Dashboard' tab with '8 unread notifications', and links for 'Explore', 'Simple search', 'Advanced search' (with a filter 'Name contains the words agatha'), and 'Editor'. On the right, there are 'Options', a user icon, and a notification count of '4'. The main content area is titled 'Notifications' and shows a list of tasks. The first section, 'Today (2)', contains two tasks: A1 assigned by Keira Richardson and A2 assigned by Tala Hart, both regarding a merge request for 'Harry Potter et la chambre des secrets'. The second section, 'More than month ago (1)', contains task A3 assigned by Loretta McCormick regarding an unavailable preview. The third section, 'More than month ago (2)', contains task A4 assigned by Mark Hulme regarding an approved merge request. Each task entry includes the request details, date and time, and request ID.

ShareVDE Dashboard

8 unread notifications

Explore Simple search Advanced search Name contains the words agatha Editor

Options 4

Notifications 8 unread

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>)

(<https://uat.natbib-lod.org/agents/271754491800738>)

**Works**

**Has Expression**

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

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

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

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

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

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

**Dates**

**Year**

**Other attributes**

**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

+ Create a new Content type called “still” Enter

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

**Contributors**

**Contributor**

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

(<https://uat.natbib-lod.org/agents/271754491800738>)

Controlled vocabularies

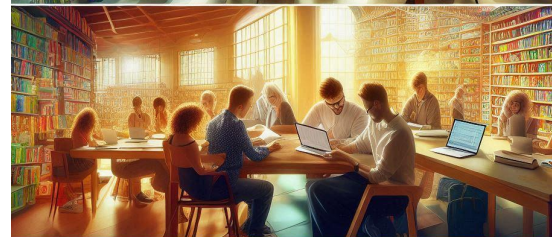
# Best practices for the use of JCricket in a shared environment

## 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			
File Edit View Insert Format Data Tools Extensions Help			
89% € % .0 .00 123 Defaul... - 10 + B I A			
fx			
A	B	C	D
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>



## 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.

# Open Metadata Policy

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](#)

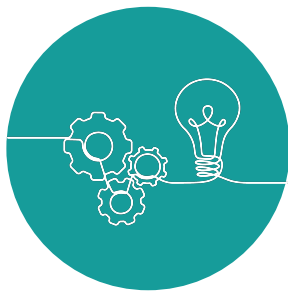




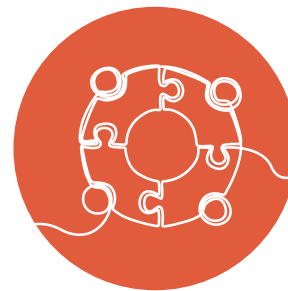
# Developed and driven **by libraries, for libraries**



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

---

[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!



**Tiziana Possemato**

tiziana.possemato@atcult.it

**Anna Lionetti**

anna.lionetti@casalini.it

Share Family information  
is available here:

