

JCricket: An Editor for Share-VDE and Beyond

Entity management, connection with third parties and cross-domain extensions

ALA Core - Linked Data Interest Group, March 7th 2023, Andrea Gazzarini

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Andrea Gazzarini: Who I am

- Software Engineer (1999-)
- "Hermit" Software Engineer (2010-)
- **Programming Passionate**
- Information Retrieval Passionate
- Author of "Apache Solr Essentials"
- Apache Qpid (past) Committer
- Founder of SpazioCodice
- **Share-VDE** Lead Architect Share
- Husband & Father
- **Bass Player**
- Chapman Stick (aspiring) Player

























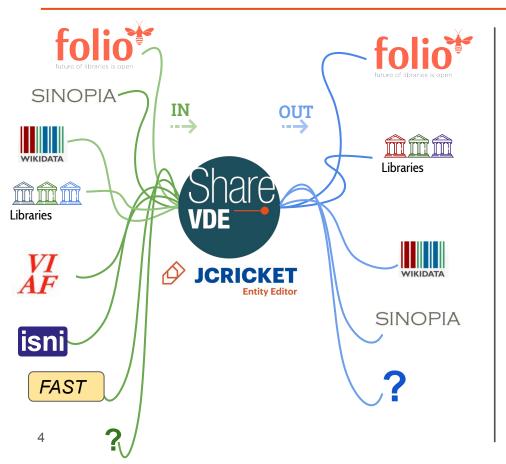




The Share-VDE Initiative



Share-VDE: Share Virtual Discovery Environment



In a Nutshell

Share-Virtual Discovery Environment is a library-driven initiative which brings together, in a shared discovery environment, the bibliographic catalogues and authority files of a growing number of leading academic and national libraries from across North America and Europe.





Share-VDE Knowledge Base



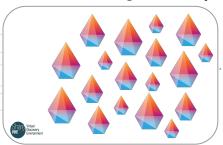
Core Concepts: Tenant and Provenance

Share-VDE manages a Knowledge Base which consists of clustered, integrated and enriched entities

In Share-VDE, a tenant is represented by a set of institutions contributing to the same Knowledge base



Share-VDE Knowledge Base (Sapientia)



An institution within a tenant is called provenance.

We use that term because we want to **retain** the relationship between **Share-VDE entities** and data that originally **contributed** to them.



Share Family and Share-VDE liaisons

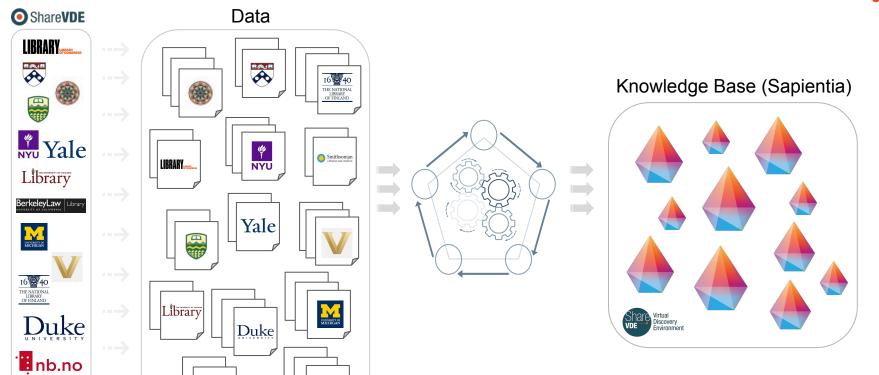
Multiple tenants form the **Share Family**. Family members interoperate through a centralized registry.







Ingestion Pipeline: How does it work?





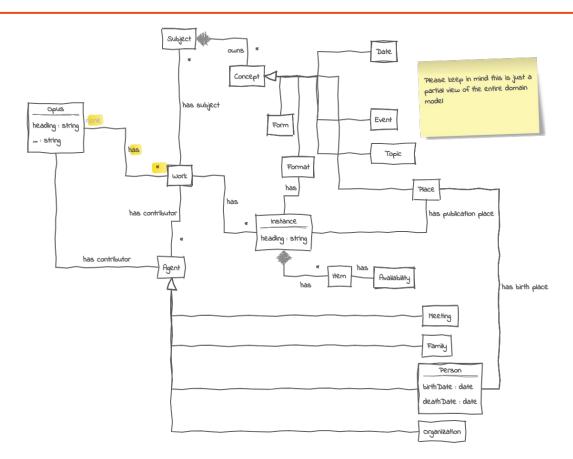
Smithsonian

nb.no

The Entity as a "Prism"



Share-VDE: the Domain Model





Share-VDE Cluster: the Prism





LIBRARY LIBRAR



| National Lil | ational Library of Norway | | |
|------------------|---------------------------------|--|--|
| title | Alice's adventures under ground | | |
| titleAlternative | Journeys in Wonderland | | |
| author | https://svde.org/people/201 | | |



Properties: Attributes, Relationships, Links



| Name | Value | Provenance |
|------------------|---------------------------------|----------------------------|
| title | Alice in wonderland | LIBRARY Stanford |
| titleAlternative | Alice's adventures under ground | LIBRARY |
| titleAlternative | Journeys in Wonderland | National Library of Norway |

sameAs http://dbpedia.org/resource/Alice's_Adventures_in_Wonderland Dbpedia

sameAs https://www.wikidata.org/wiki/Q189875 Wikidata

sameAs https://data.bnf.fr/ark:/12148/cb358500385#about bnf

An attribute is a data property, having a literal as value

A link is a connection between a Share-VDE Prism and an external reference

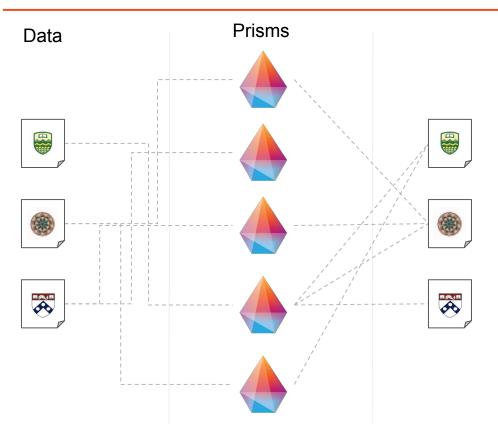




| Name | Value | Provenance |
|-----------------|---------------------------|----------------------------|
| name | Carroll, Lewis | Stanford |
| nameAlternative | Dodgson, Charles Lutwidge | LIBRARY MERSTER |
| nameAlternative | Karol, Luis | National Library of Norway |



Prism: Record-Level Provenance



Each record coming from a **provenance contributes** in **building/enriching** one or more **Share-VDE prisms**.

A Share-VDE entity can be seen as a **prism** where each **face** represents **data** coming from a given **provenance**

Each Share-VDE cluster maintains a **link** to the **records** it **originated from**

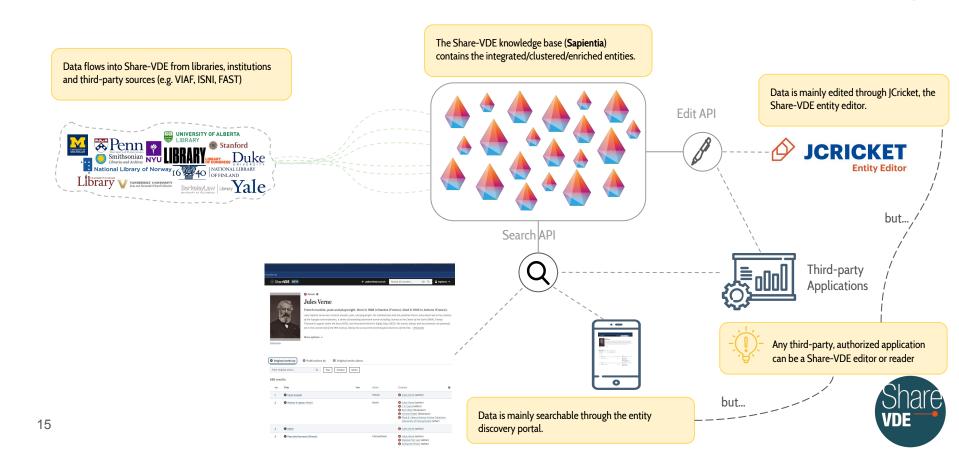


Sapientia Edit API: JCricket





The Big Picture: from Genesis to Edit



JCricket: Edit Scenarios

Edit: a property* of a prism is added/updated/deleted



Lewisss Carroll

Lewiss Carroll

is author of

ttps://svde.org/opuses/1827349

https://svde.org/opuses/920302



properties can be

- attributes
- relationships
- links

Merge: multiple prisms are merged into one





For example, the editor detects multiple prisms that belong to the same entity.

Split: a prism is split into multiple prisms







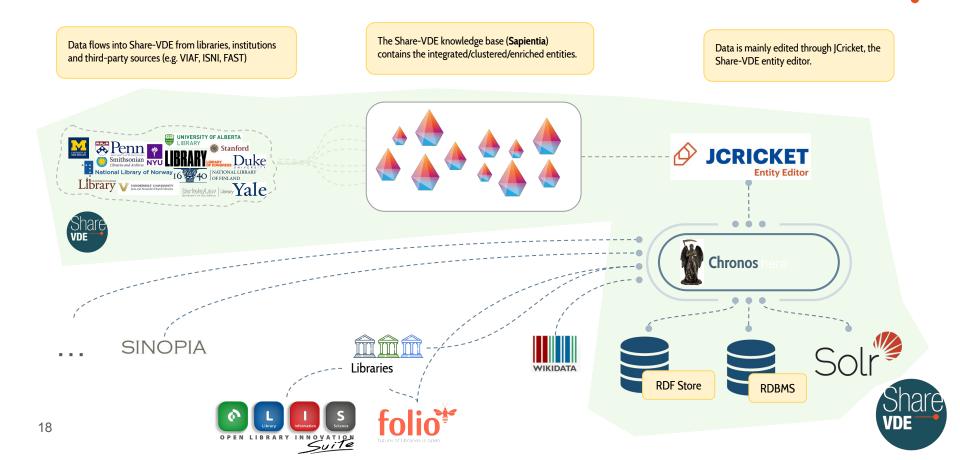
Several entities have been (wrongly) clustered into one.



Outbound Connectors Framework



Outbound Connectors Architecture



Get involved!

Becoming part of the global Share Family means sharing data and co-operating with the greater international library community



The family continues to expand as more and more libraries worldwide embrace the opportunity to be involved in an international network of information, creating dialogue, participation and partnership

Get in touch with us to find out more about how the Share family can help your library:

info@svde.org

https://wiki.svde.org/

https://www.svde.org/about/about-share-vde





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