Share-VDE: interoperability in practice

DCMI 2021 - Panel: Bibframe Implementation

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Since 2016, Share-VDE has carried on R&D work to facilitate libraries in the transition from MARC-based cataloguing to linked data

this expanded over time from a pilot project to Share-VDE and the Share family of initiatives

https://wiki.share-vde.org
https://www.share-vde.org
A cooperative initiative

Share-VDE is a collaborative endeavour based on the needs of libraries, developed and supported by:

- the joint effort of the Share-VDE Advisory Council and of the Working Groups;

- Casalini Libri, provider of bibliographic and authority data as member of the Program for Cooperative Cataloguing;

- @Cult, provider of ILS, Discovery tools and Semantic web solutions for the cultural heritage sector;

- the vision of Linked Data for Production initiative with special endorsement of Stanford;

- with input and active participation from an international group of research libraries.
The diffusion in the worldwide communities

**Share-VDE members**
connecting university and national library catalogues in the US, Canada and Europe

**Share-VDE**
connections within the library community
Library of Congress
BIBFRAME adopters
IFLA
LD4P
OCLC
FOLIO

**Share Family**
connections extend across sister projects
Share-VDE
Share-Catalogue
Share-Music
Kubikat-LOD
Parsifal
PCC data pool
Ancient books

**Share Family**
connections with the wider web communities
Wikidata
Schema.org
IIIF
GeoNames
Getty LOD
ISNI
ISSN

**Share-VDE institutions**
Community engagement: library community

Extended community: collaboration with heterogeneous initiatives and institutions in the library domain

Scientific value: sharing of data and services in different technological environments and diverse bibliographical and cultural context
Community engagement: SVDE sister projects

Homogeneous community: collaboration with projects and institutions applying the Share-VDE principles and technologies

Scientific value: shared vision whereby each initiative contributes with tools and practices that benefit everyone
Community engagement: World Wide Web

Mixed community: cross-domain cooperation across the Web community

Scientific value: same solutions serve scopes of different communities, data reuse
Entity models harmonisation

**IFLA-LRM**
- Work
  - is realized through
  - realizes
  - Expression
    - is embodied in
    - embodies
  - Manifestation
    - is exemplified by
    - exemplifies
    - Item
    - Item

**BIBFRAME**
- Hub
  - bf:hasExpression
  - bf:expressionOf
  - Work
    - bf:hasInstance
    - bf:instanceOf
  - Instance
    - bf:hasItem
    - bf:ItemOf
    - Item
    - Item

**Share-VDE**
- Opus
  - bf:hasExpression
  - bf:expressionOf
  - Work
    - bf:hasInstance
    - bf:instanceOf
  - Instance
    - bf:hasItem
    - bf:ItemOf
    - Item
    - Item
Facilitate interoperability between entity models

Participation in LD4P3: the challenge of **data models interoperability** between SVDE and Sinopia

See the [SVDE entity model compared to BF and LRM](#) and an example of application of the model.
Modeling entities: the Opus

The Share-VDE Opus is a type of bf:Work.

This work type is similar to the Library of Congress Hub in the sense that it provides clustering features for bringing all the works under a canonical work type.

The SEI team have worked on defining properties that provide this clustering functionality for the related cluster of Works.
Opus modeling
Share-VDE Work maps to BIBFRAME Works and are compatible fully with BIBFRAME correspondances for Work properties.
Work modeling
Development of Instance Clustering Process, Introducing the canonical Instance. The SEI team has worked on defining properties that provide this clustering functionality for the related Instances.
Instance modeling
RDA in BIBFRAME: Data example

<http://share-vde.org/sharevde/rdfBibframe/Instance/CORNELL10535218>
<http://rdaregistry.info/Elements/m/P30004>
<http://worldcat.org/oclc/1063710941>
API integration with other projects
Systems interoperability: Search APIs

Search APIs

- StructQL
- SVDEQL
- TermsQL

Users

Apps

Data

GraphQL

{ REST }

Search API

Data management

PostgreSQL

Solr Cloud

STARDOG

Share VDE
Query Languages

Interface Level
- GraphQL
- REST

Query Language Level
- StructQL
- SVDEQL
- TermsQL

Search Level
- Full text
- Typeahead
SVDE is evolving from a discovery platform that converts MARC data of libraries in Linked Open Data to an interactive authoritative source providing real services for libraries. This transition is happening through the editor named J. Cricket, that is the new application dedicated to the editing of SVDE data in a collaborative environment.
Integration - Wikidata

Wikidata is increasingly authoritative and is used in the library community as a source for entity identification (SVDE property on Wikidata Share-VDE author ID).

Query the source and enrich SVDE data with Wikidata entities information and vice versa → connection with Casalini participation in the PCC Wikidata pilot.

Ad hoc SVDE working group is studying the use cases for interaction (e.g. starting points for the analysis are API:Main page + Wikibase/API, and other documentation).

Major challenge: alignment between Wikidata and SVDE entities.
How J.Cricket interacts with Wikidata

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<th>Born</th>
<th>Died</th>
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</table>
Integration of Wikidata IDs in SVDE with J.Cricket
Schema.org and web technologies

Three main tasks

Public User Interface
(HTML)

Schema.org Structured Data
(Embedded in HTML)

Linked Open Data Source
(Direct URI Requests)

Credits: Richard Wallis, March 2021
We want to apply to library catalogues the same data structure and standards used by the web.

The library community is adopting LD solutions to support visibility of their catalogues.

Catalogues of libraries, museums, archives etc. can be connected, and resources are related to each other.

Source: Linked Open Data for Cultural Heritage
The new Share-VDE portal
(https://www.svde.org/it)
The new Share-VDE portal (https://www.svde.org/it)
William Shakespeare


William Shakespeare was an English playwright, poet, and actor, widely regarded as the greatest writer in the English language and the world's greatest dramatist. He is often called England's national poet and the "Bard of Avon". His extant works, including collaborations, consist of some 39 plays, 154 sonnets, three long narrative poems, and a few other verses, some of uncertain authorship. His plays have been translated into every major living language and are performed more often than those of any other playwright. They also continue to be studied and reinterpreted. – Wikipedia

27 results

Sort by (A – Z)▼

The quarto copy for the first folio of Shakespeare (in English, published in 1971.)

Contributors:
- William Shakespeare (editor)
- William Shakespeare (editor)
- James Kirkwood Walton (author)
- Dublin University Press Ltd (collator)
Thank you

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