Data modeling in and beyond BIBFRAME

Tiziana Possemato, @Cult - Casalini Libri
Share-VDE initiative in SWIB

- **SWIB 2017**: Will you be my bf: forever? Analysing Techniques for Conversion to BIBFRAME at the University of Alberta
  Ian Bigelow and Sharon Farnel - University of Alberta, Canada

- **SWIB 2018**: Share virtual discovery environment in Linked Data (SHARE-VDE)
  Michele Casalin - Lightning talks

- **SWIB 2019**: Data modeling in and beyond BIBFRAME
  Tiziana Possemato
Share-VDE initiative and its goals
What is Share-VDE?

Share Virtual Discovery Environment in Linked Data is a library-driven initiative to establish an effective working environment for the use of linked data by libraries within a global context.

Library data are enriched with additional information and relationship, and bibliographic and authority data are converted into linked data.

A virtual discovery platform with the structure of the BIBFRAME data model is created to simplify the way in which that data is consumed.

The network of resources created is the basis for the Share-VDE Sapientia Cluster Knowledge Base, the common authoritative source of clusters accessible in RDF, open to the entire Share-VDE community.
Who is responsible for it?

ShareVDE is a collaborative endeavour based on the needs of libraries, developed by the joint effort of the ShareVDE Advisory Council and of the Working Groups, with input and active participation from an international group of research libraries.

- **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;
- **LD4P**, influenced by the vision of the LD4P initiative.

Influenced by the needs and requirements of libraries, ShareVDE is a collaborative effort based on the joint effort of the ShareVDE Advisory Council and the Working Groups, with input and active participation from an international group of research libraries.
Share-VDE overall goals

- Enrichment of MARC records with URIs
- Conversion from MARC to RDF using the BIBFRAME vocabulary (and other ontologies)
- Data publication according to the BIBFRAME data model
- Batch/automated data updating procedures
- Batch/automated data dissemination to libraries
- Progressive implementation of use cases, with priorities defined by the SHARE community
Share-VDE phases

R&D: 2016-2017

Phase 1

1985 and 2015 imprint titles; 2,249,397 bib-records and 3,601,327 auth-records.

R&D: 2017-2018

Phase 2

Entire catalogues for all resource types; 94,378,728 bib-records and 24,150,238 auth-records.

Production environment: 2019

Phase 3

In progress.
The Share family of initiatives based on linked data comprises Share-VDE, Share-Catalogue (the Italian network of university libraries applying the Share principles), Share-ART (the Kubikat-LOD project including the Art History libraries of the Max Planck Institut), and Share-MUSIC (a pilot in the music domain). The different characteristics of each field are useful assets that can be used to the advantage not only of the Share family as a whole but for each single discipline.
The Share family map around the world
The Share family participating institutions

Share VDE Full members
Duke University
New York University
Stanford University
University of Alberta – NEOS consortium
University of Chicago
University of Michigan at Ann Arbor
University of Pennsylvania
Yale University

LD4P Cohort members
Cornell University
Frick Art Reference Library
Harry Ransom Center Texas A&M
Harvard University
National Library of Medicine
Northwestern University
Princeton University
UC Davis
UC San Diego
University Colorado at Boulder
University of Minnesota
University of Texas A&M
University of Washington

Share-Catalogue Institutions
Università Degli Studi di Napoli "Federico II"
Università degli Studi della Basilicata
Università Degli Studi di Napoli L’Orientale
Università degli Studi di Napoli Parthenope
Università del Salento
Università degli Studi di Salerno
Università degli Studi del Sannio RCost
Università degli Studi della Campania "Luigi Vanvitelli"

Share-Art (Kubikat-LOD) project
Max-Planck-Institut
Kunsthistorisches Institut in Florenz
Biblioteca Hertziana Rome
Central Institute of Art History Munich
Deutsches Forum für Kunstgeschichte Paris
Centre allemand d’histoire de l’art Paris

National Libraries
National Library of Norway
National Library of Finland

With the cooperation of
Library of Congress
The Share-VDE Advisory Council’s role is to provide insight and analysis of the MARC to BIBFRAME transformation, make recommendations for improvements based on member library data analysis, and project documentation. The AC also provides overall guidance to the activities of the Share-VDE Initiative.

There are different subcommittees focusing on specific areas:

- Entity Identification Working Group
- Authority/Identifier Management Services Working Group
- Cluster Knowledge Base Editor Working Group
- User experience/User Interface Working Group
- Automatic Update processes Task Group
The role of Cricket (the Share CKB editor) on update processes is defined by the Share Cluster Knowledge Base Maintenance Working Group:

- an essential part of the conversion process from MARC to RDF is the maintenance of metadata that have been produced and registered on the Share CKB (Sapientia);
- the group analysis how participant libraries interact with the Sapientia CKB and how they use the tool to interact (create/modify/delete) the data;
- the same approach will be applied to the data originally created in BIBFRAME (using Sinopia and other LD editors).
Interact with the CKB using the J.Cricket editor (manual process)
Automatic and manual data updates: primary/replica relationship

Diagram showing relationships between Triple Store, RDF Automatic updates, SOLR Automatic updates, CKB Automatic updates, CKB Manager, RDF Manager, Institutions (Duke, Alberta, Others), and J.Cricket (CKB Editor).
All changes need to be ‘registered’

The role of the URI Registry in the SHARE datasets

“Within this changed context, the management of URIs (Uniform Resource Identifiers) must be carefully evaluated. URIs play the role of universal unique identifiers in the technological environment of linked open data as the issue typical of the “Web of documents” of locating resources or web pages is becoming less relevant in the semantic Web. URIs identify a specific object (thing) or, using proper terminology, an entity. In addition to having to respond to the characteristics of dereferencing, simplicity, stability and manageability, well-structured URIs must be persistent, i.e., it must not undergo changes over time in order to guarantee the correct recovery of the identified identity and the information connected to it. This specific persistence over time is more and more urgent, especially in the context of Linked Open Data, which opens up scenarios of use and re-use of the data much wider than the traditional context.”
URI Registry to record changes

**PROCESS I: Changes resulting from DELTA**

- **UCA1 - Records created**
  - UCA1a - Authority records
  - UCA1b - Bibliographic records

- **UCA2 - Modified records**
  - UCA2a - Minor changes to the data
  - UCA2b - Substantial changes to the data

- **UCA3 - Deleted records**
  - UCA3a - Authority record
  - UCA3b - Bibliographic record

- **UCA4 - Mashup/merged records**
  - UCA4a - Authority record
  - UCA4b - Bibliographic record

- **UCA5 - Split records**

**PROCESS II: Changes resulting from the CKB Editor**

- **UCB1 - Creation**
  - UCB1a - Cluster creation
  - UCB1b - Creation of the URI

- **UCB2 - Modification**

- **UCB3 - Invalidation**
  - UCB3a - Cluster Super Work invalidation
  - UCB3b - Cluster Agent invalidation
  - UCB3c - Cluster Instance invalidation
  - UCB3d - Cluster Publisher invalidation

- **UCB4 - Merge**

- **UCB5 - Split**
Share-VDE data modeling
Ongoing discussions with Share family members and external parties around the evolution of the entity models:

- the Share-VDE SuperWork entity level has been related with the very recent Library of Congress Hub property. Analysis of similarities and possible interoperability layers are ongoing in the Entity Identification Working Group;

- after analysis and discussions among the Share-VDE community, one of the future enhancements of the data model will include the MasterInstance in order to help the relationship between the shared data elements and the local ones for the Instance layer.
The BIBFRAME 2.0 data model
Entity definitions: BIBFRAME

**Hub:** it’s still under analysis and testing

**Work:** [http://id.loc.gov/ontologies/bibframe.html#c:Work](http://id.loc.gov/ontologies/bibframe.html#c:Work): resource reflecting a conceptual essence of a cataloging resource.

**Instance:** [http://id.loc.gov/ontologies/bibframe.html#c_Instance](http://id.loc.gov/ontologies/bibframe.html#c_Instance): resource reflecting an individual material embodiment of a Work.

**Item:** [http://id.loc.gov/ontologies/bibframe.html#c_Item](http://id.loc.gov/ontologies/bibframe.html#c_Item): single example of an Instance.

**Source:** [http://id.loc.gov/ontologies/bibframe.html](http://id.loc.gov/ontologies/bibframe.html)
The LRM data model
Entity definitions: IFLA - LRM

Work: the intellectual or artistic content of a distinct creation.

Expression: distinct combination of signs conveying intellectual or artistic content.

Manifestation: set of all carriers that are assumed to share the same characteristics as to intellectual or artistic content and aspects of physical form. That set is defined by both the overall content and the production plan for its carrier or carriers.

Item: an object or objects carrying signs intended to convey intellectual or artistic content.

BIBFRAME vs LRM

Work\Instance\Item (BIBFRAME)

vs

Work\Expression\Manifestation\Item (LRM)

IFLA Library Reference Model
A Conceptual Model for Bibliographic Information
SuperWork Plain Language Description*

A new class is being tested for implementation in the Share-VDE and Linked Data for Production (LD4P) Cohort: the SuperWork entity.

**ShareVDE Work**

- is equivalent to a BIBFRAME Work, but is no longer the highest level of abstraction;
- identifiers for Share-VDE Work are created algorithmically based on unique constellations of elements for BIBFRAME Works (including RDA work and expression level elements);
- the types of Share-VDE Work and the definitions for which elements are used in its creation are outlined in the Work ID Cluster Mapping.

*Work Identification Working Group, SuperWork Plain Language Description*
SuperWork Plain Language Description*

Share-VDE SuperWork

- the highest level of abstraction in Share-VDE data model, the new SuperWork class is meant to aggregate or group functional or near equivalent bf:Work clusters;
- identifiers for Share-VDE SuperWork are created algorithmically based on unique constellations of elements for BIBFRAME Works, minus RDA expression level elements.

*Work Identification Working Group, SuperWork Plain Language Description
The current Share-VDE entity model

How to manage Instances in a shared environment?
Instance (in BIBFRAME): a Work may have one or more individual, material embodiments, for example, a particular published form. These are Instances of the Work. An Instance reflects information such as its publisher, place and date of publication, and format.

Manifestation (in LRM): a set of all carriers that are assumed to share the same characteristics as to intellectual or artistic content and aspects of physical form. That set is defined by the overall content and the production plan for its carrier or carriers.
In the current Share-VDE entity model, an instance is not really identified as an Entity but as a description of an entity made by a particular institution. The first proof of this is the instance URI: it is built using the Share-VDE type of entity + source (the institution that created the original record) + the ID of the original record:

http://share-vde.org/sharevde/rdfBibframe/Instance/UALBERTA6947549

The ShareVDE Advisory Council with its subcommittees is discussing the evolution of the Share-VDE instance from a "description of" to an "entity".
Current Share-VDE model simplified

AGENTS CLUSTER (CREATOR)
William Shakespeare
seeID 63931

AGENTS CLUSTER (TRANSLATOR)
Marcel Pagnol

PUBLISHER CLUSTER
Nagel

SUPERWORK
Hamlet [text]
seeID 10834

WORK
French translation [text]

WORK
audiobook [sound recording]

INSTANCE
Hamlet, Prince de Danemark
1947
ID STANFORD

INSTANCE
Hamlet, Prince de Danemark
1947
ID DUKE

INSTANCE
Hamlet
[1967]
ID ALBERTA

bf:hasExpression

bf:expressionOf

bf:instanceOf - bf:Work

bf:hasItem

bf:itemOf
The Instance as a Master Instance

Instance (as logical Master Instance)
A new entity for the bibliographic management of the Union Catalog

Draft under revision, last update 11/09/2019

Introduction

The recent development phases of Share-VDE have involved an overall adjustment of the management of data flows, of the ontological model of entities and of the structuring of the user interface, with the aim of further enhancing the information potential on the platform and solving the most critical issues regarding data inconsistencies and discrepancies. On this, it must be noted that Share-VDE currently includes over 20 research libraries, each one equipped with its own internal OPAC and linked to different cataloging practices, although to a large extent referable to the same RDA standard. The loading of millions of bibliographic and authority data coming from such different situations has consequently implied the detection of a series of problems at data processing level, which can be summarized in two main aspects:

1. multiplication of entities during clustering processes;
2. multiplication of Instances.
Instance as a MasterInstance

Bibliographic record

The banquet / Dante ; translated with an introduction and notes by Christopher Ryan
Saratoga, Calif. : Anna Libri, 1989
253 p. ; 24 cm.
0015838478
University of Michigan Ann Arbor

Bibliographic record

The banquet / Dante ; translated with an introduction and notes by Christopher Ryan
Saratoga, Calif. : Anna Libri, 1989
253 p. ; 24 cm.
0015838478
Yale University

Bibliographic record

The banquet / Dante ; translated with an introduction and notes by Christopher Ryan
Saratoga, Calif. : ANIMA Libri, 1989
253 p. ; 24 cm.
0015838478
University of Chicago

Bibliographic record

The banquet / Dante ; translated with an introduction and notes by Christopher Ryan
Saratoga, Calif. : Anna Libri, 1989
253 p. ; 24 cm.
0015838478
Stanford University
Instance (as a MasterInstance) and the related Items
The Share-VDE future entities model (option 1)
Zoom on the SVDE future entities model (option 1)
Key concepts of this model

In this scenario the Instance assumes a Share-VDE ID (URI), which does not reflect the "owner" (= the original ID of the library) but an "ideal" Instance representing the "real instance of BIBFRAME."

To link each one of these instances to each library, we have (at least) two options (or both together):
- moving local data and (library) information to the Item level;
- including the Provenance to each triple to identify local description of the same Instance (in case the institutions were interested in preserving some specific attributes).
The Share-VDE future entities model (option 2)
Key concepts of this model

In this scenario a new level is introduced: the Master Instance, that corresponds completely to the BIBFRAME Instance. It assumes a Share-VDE ID (URI), which does not reflect the "owner" (= the original ID of the library) but an "ideal" Instance representing the "real" instance of BIBFRAME.

Under the Master Instance, this scenario proposes the Instances coming from each library, identified by a library ID (URI).

To link the Master Instance with the Instances we need to design a specific predicate (something like "description") to express a possible "variant" form of the instance description coming from different libraries.
The Share-VDE future entities model (option 1)
Future Share-VDE model simplified
How to redesign a model that could be accepted by a wider community
Comparison IFLA-LRM BIBFRAME Share-VDE

IFLA-LRM

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

BIBFRAME

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

Share-VDE

- **SuperWork**
  - bf:hasExpression
  - bf:expressionOf
  - bf:hasInstance
  - bf:instanceOf
- **Work**
  - bf:hasExpression
  - bf:expressionOf
  - bf:hasInstance
  - bf:instanceOf
- **Instance**
  - bf:hasItem
  - bf:ItemOf
The Work Identification Working Group is starting an interesting conversation around the topic, reported, to share opinions and feedback from participants, on an in progress document:

**Introducing the OPUS:**
A paper to discuss updated entity and model definitions for BIBFRAME and the relationship to"

“In January 2019 a new SuperWork class was introduced in Share VDE data. Shortly after, just prior to ALA Annual 2019 LC introduced the Hub to their data. While further analysis and refinement of practice for these parallel processes is needed, ultimately they both serve the same function in BIBFRAME and are hereafter referred to as the Opus in this discussion [...]”.

We all are participating and waiting for results to evaluate how much has to be maintained and how much has to be changed in the model, and in the related data!
Defining a new entity in a semantic world is not something that concerns a "word" (assign a label to a description) but something that concerns a "meaning".

Think having in mind the starting point (MARC 21) but trying to forget it and going to the meaning of an Entity.
Work as an Entity in BIBFRAME

Attention: only some of possible BF properties are listed, just as an example!
Work and Expression as entities in LRM

Attention: only some of possible LRM properties and relationships are listed, just as an example!
How to manage Hub as an Entity?

Attention: only some of possible BF properties are listed, just as an example!
SuperWork as an Entity – An option

As bf:lc:Hub and/or Irm:Work?
## Entity Detection – A Natural Language Analysis

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...and it continues...
svde:SuperWork - Irm:Work - bf:Hub: some thoughts around the semantics expressed in each entity

Discussion document

The following text has been extracted from the initial conversations on Slack

Initial discussion started on Slack

We assumed to include the Hub entity following the mapping specifications coming from the LoC (I refer to the spreadsheet sent by @kefo), and to manage the SuperWork entity independently: in this scenario, some Works will be exactly the same (both a Hub and a SuperWork) others not. I think this is absolutely correct and reasonable. If we decide to go in
Thank you!

tiziana.possemato@atcult.it
tiziana.possemato@casalini.it