LOD Platform Components — Share Family

TECHNOLOGY
Advanced API layer

• Advanced search API layer supporting the Entity Discovery Portals and machine-to-machine interaction for Share Family data retrieval

TECHNOLOGY
Advanced Entity Model

• Advanced 4-layered entity model, based on BIBFRAME 2.0 and interoperable with multiple schemes (BIBFRAME, IFLA-LRM etc.)

TECHNOLOGY
Tenant Infrastructure

• Data of member libraries are grouped by domain or similar characteristics in ad hoc tenants
• Suitable for library consortia willing to renovate their union catalogue

SERVICE
Triple Store Indexing

• Linked data descriptions are published on a triple store and can be queried through SPARQL endpoint

SERVICE
Integration with Other Systems

• Development of APIs for interoperability and cooperation with local LSPs and third parties (including FOLIO, Wikidata, LD4P - Linked Data for Production)

SERVICE
Authority Services

• New generation of services for authority control
• Combination of automated and manual checks of data quality
• Creation of authority records

APPLICATION
JCricket Editor

• Collaborative tool for manually updating and modifying linked data entities

APPLICATION
Discovery Portal 1.0

• Interface for the standard discovery system

APPLICATION
Discovery Portal 2.0

• Advanced entity discovery system based on BIBFRAME
• Customised UI (skin)
• Integration with local APIs
• Site mapping with additional meta-tagging
• Data conversion to Schema.org

DATA
Deliverable D1
Linked Data Descriptions

• The library catalogue is converted in linked data entities according to BIBFRAME 2.0 (including additional vocabularies and ontologies as needed).
• The linked data entities are enriched both with original URIs created through the LOD platform and URIs from external sources; these are reconciled in the "Cluster Knowledge Base": a common data pool shared by participating institutions. Linked data descriptions are also published on the entity discovery portal.

DATA
Deliverable D2
MARC Records Enriched

• The MARC records from the original library catalogue are enriched both with original URIs created through the LOD platform and URIs from external sources. They are also connected with the corresponding linked data descriptions that are rendered on the entity discovery portal.