IFLA LRM- finally here

Maja Žumer
University of Ljubljana, Slovenia

Pat Riva
Concordia University, Montreal, Canada
FRBR Consolidation - Why and How


- 3 distinct models
  - Different levels of specificity
  - Different focus
  - Different modelling decisions

Consolidation Editorial Group, 2013-
Creating IFLA-Library Reference Model (IFLA LRM)
Accepted as IFLA standard on August 18, 2017
Main differences – user tasks

• *Find, identify, select, obtain* defined by FRBR
• *Explore* added by FRSAD (to cover browsing)
• *Justify and contextualize* in FRAD (focus on the cataloguing process)
Main differences - apppellations

• In FRBR modelled as attributes of entities
• *Nomen* in FRSAD
• *Name, identifier, controlled access point* in FRAD
Main differences - subjects

• Relationship (work has as subject...) in FRBR and FRSAD
• Work attribute in FRAD
Main differences - relationships

• Different levels of specificity

• In FRBR and FRAD declared in one direction and with no cardinality restrictions; domain and range not always indicated
Goals of LRM

- High-level conceptual model
- Expressed in entity-relationship framework
- Consistent view of bibliographic universe
- Work informed by
  - Research with users
  - FRBRoo and CIDOC CRM
  - Experiences implementing FRBR, FRAD, FRSAD
  - Semantic Web and Linked Data context
Modelling Decisions

- Model the data needed to fulfill (end-)user tasks, not library operations
- Entity-relationship modelling language (entities, relationships, attributes)
- High-level conceptual model
- Framework that enables consistent expansions in implementations
- Only high-level attributes and relationships
LRM User Tasks

- Find
- Identify
- Select
- Obtain
- Explore

Confirm end-user focus of the model
Library internal processes not reflected in the tasks
Reworded definitions to be more general
User Tasks: Definitions

- **Find**: To bring together information about one or more resources of interest by searching on any relevant criteria.
- **Identify**: To clearly understand the nature of the resources found and to distinguish between similar resources.
- **Select**: To determine the suitability of the resources found and to be enabled to either accept or reject specific resources.
- **Obtain**: To access the content of the resource.
- **Explore**: To discover resources using the relationships between them and thus place the resources in a context.
Entities (from FRBR group 1)

Work
- The intellectual or artistic content of a distinct creation

Expression
- A distinct combination of signs conveying intellectual or artistic content

Manifestation
- 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 both the overall content and the production plan for its carrier or carriers

Item
- An object carrying signs intended to convey intellectual or artistic content
Entities (FRBR group 2)

Agent
An entity capable of deliberate actions, of being granted rights, and of being held accountable for its actions

Collective Agent
A gathering or organization of persons bearing a particular name and capable of acting as a unit

Person
An individual human being
Entities Res and Nomen

From FRSAD, but Thema is replaced with Res to avoid implicit restriction to the subject relationship

- **Res**: Any entity in the universe of discourse (=superclass of all)
- **Nomen**: An association between an entity and a designation that refers to it
New entities

Place
   A given extent of space

Time-span
   A temporal extent having a beginning, an end and a duration
Attributes

Data describing instances of entities

- Only most important or representative attributes
- NOT an exhaustive listing of possible attributes
- Implementations can expand by adding the attributes that are needed
Representative Expression Attribute

- New WORK attribute
- An attribute which is deemed essential in characterizing the work and whose values are taken from a representative or canonical expression of the work
- Generally multivalued, the attributes depend on the Category of work
- The specific representative expression does not have to be identified
Manifestation statement attribute

• Mechanism for recording data transcribed from the resource (such as edition statement, responsibility statement...)
• Important for identification
• In addition to relationships
Core WEMI relationships

WORK
  is realized through realizes
      EXPRESSION
        is embodied in embodies
            MANIFESTATION
              is exemplified by exemplifies
                  ITEM
Agent relationships
Agent relationships to WEMI

WORK
was created by
created

EXPRESSION
was created by
distributed

MANIFESTATION
was manufactured by
manufactured

AGENT
is distributed by
distributes

ITEM
was modified by
modified
is owned by
owns
was created by
created
was manufactured by
manufactured
was owned by
owns
was modified by
modified
was distributed by
distributes
was created by
distributed
was created by
created
was created by
created
Work-to-work relationships

- WORK has part (is part of) WORK
- WORK precedes (succeeds) WORK
- WORK accompanies / complements (is accompanied / complemented by) WORK
- WORK is inspiration for (is inspired by) WORK
- WORK is a transformation of (was transformed into) WORK
Subject and apellation relationships
Explanation of:

• Naming and identity
• Aggregates
• Serials
Final steps

- FRBR RG met August 19, IFLA 2016 (Columbus), final decisions made following world-wide review comments
- CEG editing
- Final draft reviewed again by FRBR RG
- Approval by Committee on Standards
- Approval by the PC in Wroclaw
- Minor editing, final publication in November
What next?

• LRM namespace
• Mappings
• FRBRoo 3.0 (LRMoo?)
• Extensions
  • Types of resources
  • Audiences
  • Other specific needs