Modelling of series in LRM

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Types of series (examples)

- Journals
- Magazines
- Newspapers
- Publisher series

What do they have in common?

Identity is mainly through the name (title),
type of content, publisher etc.

Not identified as distinct content

Journals (and later publisher series) will be used as examples

Why?

- PRESSoo needs to be revised anyway
- It only covers serials as a whole
- Articles are the most important from the user point of view and have to be properly positioned in the model

Articles as WEMI

- Each article published in a journal is a Work
- Expressions are used to record different versions (submitted, reviewed, revised, formatted, saved in repositories) or translations
- Manifestations enable recording of different formats (printed, digital…)
- If a journal is published with issues, each issue is an aggregate manifestation (aggregated by the general editor or issue editor)
- If articles are published independently (as is the case with digital journals), each article is embedded in its own manifestation

Series in library cataloging

- LRM states that "...any serial work can be said to have only one expression and only one manifestation"
- This is emphasised in RDA cataloging and described as "WEM-lock"
  - Strict one-to-one cardinality constraint between work, expression and manifestation for serials
- Indicates that series are different and no need for multiple levels of abstractions
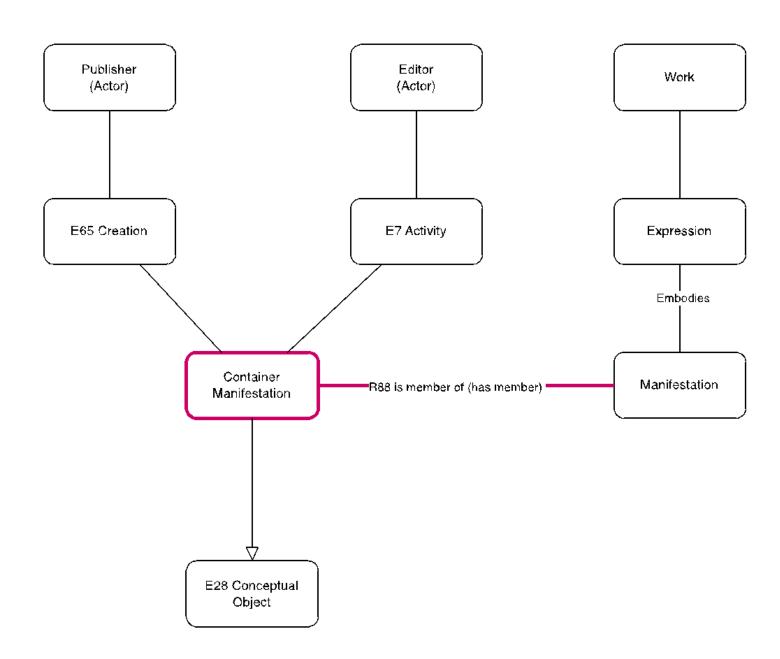 - In other words, series are different from WEMIs in general

The challenges

- How to record the relationship of article manifestations to the journal as a whole?
- How to record the editor/publisher/distributor roles to the journal?
- How to capture relationships between journals?
- How to record other information about the journal?

- Existing entity types cannot be used
  - The concept of work is intended for "distinct intellectual ideas"
  - No need for multiple levels of abstraction to capture the needed knowledge

Proposal

- New entity type **Container Manifestation**
- The relationship with manifestations is Has member/Is member of
- Is editor/Has editor relationship with Agent
- Publisher, sponsor etc. are recorded with Created/was created by (and appropriate subtypes)
- Relationships between journals with Is related to (some sub-types symmetric, others not)

Diagram

For PRESSoo

- Simplified model
- All relationships expressed directly between and among Container Manifestations, without complicated paths through Works
- Many PRESSoo properties express relationships among serial titles, these are refinements of a proposed new LRMoo property between Container Manifestations

LRMoo additions

- One new class:
- F56 Container Manifestation

- 4 new properties:
- R82 has member (is member of): F3 Manifestation
- R83 has editor (is editor of): E39 Actor
- R84 has creator (is created by): E39 Actor
  - o .1 has type [the type of the relationship]
- R85 is related to: F56 Container Manifestation
  - o .1 has type [the type of the relationship]

F56 Container Manifestation

- Subclass of: E28 Conceptual Object *and* E99 Product Type

- Scope note: This class comprises the instances of publisher created venues for issuing smaller manifestations of works that appear related by an overarching concept or theme. The container manifestations gain additional members over time with no predetermined end. The manifestations of works that will appear in an instance of container manifestation are not all known when the first member manifestation appears. These works may not even have been created yet.

- An instance of container manifestation may have as member a single manifestation or several.

- An instance of container manifestation is normally not documented until at least one manifestation has become a member of it, although it may have been initiated as a proposal.

R82 has member (is member of)

- Domain: F56 Container Manifestation
- Range: F3 Manifestation
- Subproperty of: Outside of CIDOC CRM Scope
- Quantification: many to many (0,n:0,n)
- Scope note: This property associates an instance of F3 Manifestation with an instance of F56 Container Manifestation that it appears in. The property groups instances of manifestations together into a single published container product. Examples include serials of all types, such as journals and newspapers, that contain articles, as well as monographic series.
- An instance of F56 Container Manifestation is normally related to at least one instance of F3 Manifestation.

R83 has editor (is editor of)

- Domain: F56 Container Manifestation
- Range: E39 Actor
- Short-cut of: F56 Container Manifestation. P94i was created by: E65 Creation. P14 carried out by: E39 Actor (P14.1 has type)
- Quantification: many to many (0,n:0,n)
- Scope note: This property associates an instance of an E39 Actor with an instance of F56 Container Manifestation that is edited by that actor. An editor is an actor responsible for the selection and arrangement of the manifestations that appear in a Container Manifestation. That is, the editor selects/accepts and orders the articles in a journal or journal issue, or the articles in a newspaper, or the publications in a monographic series.
- The actor or actors that edited a particular instance of F56 Container Manifestation may be unknown or unrecorded.

R84 has creator (is creator of)

- Domain: F56 Container Manifestation
- Range: E39 Actor
- Short-cut of: F56 Container Manifestation. P94i was created by: E65 Creation. P14 carried out by: E39 Actor (P14.1 has type)
- Quantification: many to many (0,n:0,n)
- Scope note: This property associates an instance of E39 Actor with an instance of F56 Container Manifestation that is created by that actor. Creators of Container Manifestations include publishers, issuing bodies, sponsoring associations. The creator(s) of the Container Manifestation are distinct from the creators of the works and expressions whose manifestations are members of the container manifestation.
- The actor or actors that created a particular instance of F56 Container Manifestation may be unknown or unrecorded.
- Properties: R84.1 has type: E55 Type
- This property allows specifying the particular type of creation relationship (publisher, sponsoring association, issuing body) that holds between the Actor and the Container Manifestation.

R85 is related to

- Domain: F56 Container Manifestation
- Range: F56 Container Manifestation
- Subproperty of: ?? (to discuss)
- Quantification: many to many (0,n:0,n)
- Scope note: This property associates an instance of F56 Container Manifestation with another instance that is related to it. This property can express that one serial may derive from another. Examples include language editions, earlier/later titles, splits, mergers, supplements and more generally borrowing of an idea.
- This is a high-level property that captures the relationship between two instances of F56 Container Manifestation. It is expected that this property will be subtyped in applications. This property is transitive and irreflexive. It is generally not symmetric.
- Properties: R85.1 has type: E55 Type
- This property allows specifying the particular type of relationship between the two Container Manifestations, such as expressing the type of derivation. Most subtypes are asymmetric.

LRMoo deprecates/modifies

- F18 Serial Work
- This was the link to PRESSoo, but now F56 Container Manifestation will be the link

- R11 has issuing rule (is issuing rule of)
- Domain: change from F18 Serial Work to F56 Container Manifestation
- Range: E29 Design or Procedure [unchanged]
- Shortcut of: modify the long path to: **F56. P94i was created by: E65 Creation.** P16 used specific object: E29

Distribution

- Parallel to mapping of LRM-R9 is distributed by (for F3 Manifestation)

- F56 Container Manifestation. P104 is subject to: E30 Right, with P2 has type: E55 Type {type = "distribution"}. P75i is possessed by: E39 Actor

- Nothing new needed

Publisher series

Can also be modelled as F56 Container Manifestation with individual publications (the manifestations, not the works) as members

Example:

IFLA Series on Bibliographic Control (F56) *has member* Functional Requirements for Authority Data, 2009 (F3) [it is vol. 34 in the series]

Connections to F5 Item

- Items are not directly connected to the F56 Container Manifestation

- For a monographic series, the F5 Items are items of the F3 Manifestation that is the monograph in the series
- For journals and newspapers, each issue is an aggregate manifestation, the F5 Items are items of the aggregate manifestation

Implications for aggregates?

- Can aggregates also be modelled on the manifestation level only?
- That is, is it necessary to have an aggregating expression and aggregating work, in addition to the aggregate manifestation?