# 360 LRMoo

Details of the sub-topics brought to the SIG for discussion.

## F5 Item

Its superclass changed to E18 Physical Thing, which results in a clash with the range of *R18 created* (R: F28 Expression Creation, R: F5 Item) and *R28 produced* (D: F32 Carrier Production Event, R: F5 Item). They are IsA P108 has produced (D: E12 Production, R: E24 Physical Human-Made Thing), but E24 IsA E18.

**Proposal**: They don’t need a more general superproperty, but a more specific superclass for F5 Item (E24 Human-Made Physical Thing). This should reflect in the scope note. See [below](#_F5_Item_1) for the details

**Discussion:**

Since a wall-print would count as an instance of F5, the phrase “An instance of F5 Item that is stored on a part of a larger electronic support[…]” should be rephrased to “An instance of F5 Item that is stored on a part of a larger physical support[…]”

**Vote** to accept the proposed changes in the definition of F5 Item  
In favor: 14  
Against: none  
**Outcome**: passed

### F5 Item

Subclass of: E18 Physical Thing (change to E24 Physical Human-Made Thing)

Scope note: This class comprises physical objects (printed books, scores, CDs, DVDs, CD-ROMS, etc.) that were produced by (P186i) an industrial process involving a given instance of F3 Manifestation. As a result, all the instances of F5 Item associated with a given instance of F3 Manifestation are expected to carry the content defined in that instance of F3 Manifestation, although some or even all of them may happen to carry a content that significantly differs from it, due to either an accident in the course of industrial production, or subsequent physical modification or degradation.

An instance of F5 Item that consists of a physical object or set of objects with clear physical boundaries is also an instance of E22 Human-Made Object. An instance of F5 Item that is stored on a part of a larger physical support (such as an electronic file among others on a disc) can also be considered to be an instance of E25 Human-Made Feature.

The notion of F5 Item is only relevant with regard to the production process, from a bibliographic point of view. Cultural heritage institutions' holdings are a distinct notion: a holding certainly can be equal to an instance of F5 Item, but it also can be either "bigger" than one (e.g., when two instances of F5 Item are bound together (in the case of printed books), or physically united in any other way, or when an instance of F5 Item is enhanced through the addition of manuscript annotations, or any material that was not intended by the publisher, such as press clippings, dried flowers, etc.), or "smaller" than one (e.g., when a one-volume instance of F5 Item (in the case of printed books) is interleaved and rebound as two volumes, or when pages were torn away from it, or when one CD from a two-CD set is missing, etc.). From an operational point of view, cultural heritage institutions do *not* deal with instances of F5 Item, but with storage units. However, it was not deemed necessary to declare an additional class for the notion of Storage Unit. Storage units can be easily accounted for through the E19 Physical Object class from CIDOC CRM, and the relationships between storage units and instances of F5 Item through the *P46 is composed of (forms part of)* property from CIDOC CRM. If needed, an instance of E19 Physical Object can be typed as a storage unit through the *P2 has type (is type of)* property.

Examples:

* John Smith's copy of Charles Dickens's *The* *Pickwick Papers* published in 1986 by the Oxford Clarendon Press, ISBN 0-19-812631-X (F5, E22)
* The exemplar of Samuel Beckett's *Waiting for Godot* published in 1956 by Faber and Faber that was once possessed by Edward Gordon Craig [who pasted a press clipping on it, so that the storage unit currently held by the National Library of France and identified by shelfmark '8-EGC-2044' consists of both this instance of F5 Item and the press clipping pasted by its former owner] (F5, E22)
* The exemplar currently held by the Library of Congress, and identified by call number 'M3.3.H13 J4 1752 Case', of George Frideric Handel's *The Choice of Hercules* published in London by J. Walsh around 1751  [*Note:* this exemplar is bound with an exemplar of *Jephtha,* by the same composer, published in London by J. Walsh in 1752; these two distinct instances of F5 Item therefore make up a single storage unit, i.e., they both *P146i forms part of* the same instance of E19 Physical Object]
* the physical features created on my PC's hard drive on 2021-06-10 when I clicked on the link <https://doi.org/10.26225/FDZH-X261> and downloaded from the server of the website [www.cidoc-crm.org](http://www.cidoc-crm.org/) a reproduction of the electronic file named “cidoc\_crm\_v.7.1.1.pdf” containing the text of version 7.1.1 of the “Definition of the CIDOC Conceptual Reference Model” published April 2021 (F5, E25)

Properties: [R7](https://docs.google.com/document/d/12G3HUK3EWt3-ARVkhyzB_RK1DSiOsrggPv8O_APSXBA/edit#heading=h.gjdgxs) is materialization of (is materialized in): [F3](https://docs.google.com/document/d/12G3HUK3EWt3-ARVkhyzB_RK1DSiOsrggPv8O_APSXBA/edit#heading=h.30j0zll) Manifestation

## F30 Manifestation Creation

The scope note had been reformulated but the outcome didn’t read well. PR provided another formulation. Details [below](#_F30_Manifestation_Creation_1).

**Vote** to accept the proposed changes in the definition of F30 Manifestation Creation  
In favor: 10  
Against: none  
**Outcome**: passed

### F30 Manifestation Creation

Subclass of: [F28](https://docs.google.com/document/d/121QQEgQOLV84VSjiyyokVz5GUAjXdxaZRyhNdd_H4jQ/edit#heading=h.gjdgxs) Expression Creation

Superclass of: F33 Reproduction Event

Scope note: This class comprises the activities of selecting, arranging and presenting one or more instances of F2 Expression on a carrier or other persistent presentation means with the purpose of communicating it to some public. It includes the specification of the presentation as to sensory impression (such as visual appearance or audio rendition).

Examples: Establishing in 1972 the layout, features, and prototype for the publication of ‘The complete poems of Stephen Crane, edited with an introduction by Joseph Katz’ (ISBN ‘0-8014-9130-4’), which served for a second print run in 1978

Making the article by Allen Renear, Christopher Phillippe, Pat Lawton, and David Dubin, entitled ‘An XML document corresponds to which FRBR Group 1 entity?’ available online at <<http://conferences.idealliance.org/extreme/html/2003/Lawton01/EML2003Lawton01.html>>

Properties**:** [R24](https://docs.google.com/document/d/121QQEgQOLV84VSjiyyokVz5GUAjXdxaZRyhNdd_H4jQ/edit#heading=h.30j0zll) created (was created through): [F3](https://docs.google.com/document/d/121QQEgQOLV84VSjiyyokVz5GUAjXdxaZRyhNdd_H4jQ/edit#heading=h.1fob9te) Manifestation

## R4 embodies (is embodied in)

The scope note needed some reformulation, plus the quantification is not right (many-to-many with no constraints).

**Discussion**:

PR: We cannot have an Expression without a Manifestation. We may not be able to find any items of that Manifestation, but there must have been a Manifestation of that Expression at one time, or it wouldn’t have been possible to talk about an Expression in the first place.

TA: Which begs the question if the definition of F2 Expression should be changed, because as it now stands, an instance of F2 can exist in human memory too –meaning that the quantification is fine as it is. Submitted publications that have not been accepted, do not correspond to instances of F3 Manifestations.

**Proposal**: Only alter the domain quantification of the property, as an instance of F3 Manifestation must embody at least one instance of F2 Expression, and check whether the scope-note of F2 Expression needs to be reworked. Also, review and accept the wordsmithing in the scope-note. See [below](#_F30_Manifestation_Creation) for the details.

**Vote** to accept the proposed changes in the definition of R4 embodies  
In favor: 11  
Against: none  
**Outcome**: passed

### R4 embodies (is embodied in)

Domain:   [F3](https://docs.google.com/document/d/1rIyPpTHyaBByTa3mBJgpJ4do6Cayyj0E1bhEWwMWZzg/edit#heading=h.gjdgxs) Manifestation

Range: [F2](https://docs.google.com/document/d/1rIyPpTHyaBByTa3mBJgpJ4do6Cayyj0E1bhEWwMWZzg/edit#heading=h.30j0zll) Expression

Subproperty of: [E73](https://docs.google.com/document/d/1rIyPpTHyaBByTa3mBJgpJ4do6Cayyj0E1bhEWwMWZzg/edit#heading=h.1fob9te) Information Object. P165 incorporates (is incorporated in): [E90](https://docs.google.com/document/d/1rIyPpTHyaBByTa3mBJgpJ4do6Cayyj0E1bhEWwMWZzg/edit#heading=h.3znysh7) Symbolic Object

Quantification: (1,n:0,n)

Scope note: This property associates an instance of F3 Manifestation with one or more instances of F2 Expression which are rendered by this instance of F3 Manifestation. The manifestation formats the expression(s) in the way they are to be presented to some public, including specifying the intended sensory impression (such as visual appearance or audio rendition). The content of the embodied instances of F2 Expression should be defined at a symbolic level (such as a text or notated music) more abstract than the embodying instance of F3 Manifestation (such as a book or a notated score).

Examples: The publication identified by ISBN ‘2-222-00835-2’ (F3) *embodies* the text of Marin Mersenne’s ‘Harmonie universelle’ (F2).

The CD entitled ‘Musique de la Grèce antique = Ancient Greek music = Griechische Musik der Antike’, released in 2000 and identified by UPC/EAN ‘794881601622’ (F3) *embodies* a recording of the Atrium Musicæ Ensemble’s performance of a fragment of Euripides’ textual and musical work entitled ‘Orestes’ (F2).

## F34 Controlled Vocabulary (edits)

**Proposal**: deprecate F34, it has a number of superclasses, (E29, E32 and F2). F2 Expression suggests that there exists some F1 Work which can be realized by F34 (isA F2). The identity of the corresponding F1 remains a puzzle. Furthermore, the only property linking from F34 (R34 has validity period) does not seem particular to it. So, R34 can be deprecated too.

**Discussion points**:

SdS: he is concerned that it won’t be possible to offer a migration path if we accept to do away with F34 and R34. Should R34 fall under the model for Activity Plans? He doesn’t want the property be deprecated until a migration path has been devised –also what model will host it. Maybe say that “This (class/property) is a candidate for moving to a different extension, you will need to migrate data recorded in this manner”. So keep F34, in order to keep R34 for the time being.

PR: we could move examples to the higher classes as well.

**Vote** to

* Include an example of KOS (ISO list of codes for languages/countries) under F1 Work
* Include a classification code as example for F12 Nomen
* Include a code from the ISO list as an example of F12 Nomen for a language/country
* Keep F34 and R34 until we can provide a migration plan for R34.
* Note for F34 and R34 that “This (class/property) is a candidate for moving to a different extension, you will need to migrate data recorded in this manner”

In favor: 11  
Against: none  
**Outcome**: passed

## F35 Nomen Use Statement

**Proposal**: Since F12 Nomen is no longer just a string, the properties that were linking from F35 can now link from it. As a result, F35 can be deprecated and the domain of R35 & R36 can change to F12. Have a classification example for F12, deprecate R32, R37, R38 and R55.

**Discussion points**:

**MD**: the examples need to be formulated in a way that reflects that F12 associates instances of E1 CRM Entity with their E41 Appellations. It works as an F35 Name Use Statement, hence a migration path should be made available.  
So **not** “‘杜甫’ [the name of a Chinese poet of the 8th century, in simplified Chinese characters]”, **but** “‘杜甫’ as the name for a Chinese poet of the 8th century, rendered in simplified Chinese characters”.

**SdS**: Since F12 has effectively become F35 and has absorbed all of its properties, how should one treat the instances of F12 Nomen that predate its redefinition?

**PR**: there’s always R33 has content, and the string (that used to be F12 Nomen) is documented with this property.

**Vote** on the following.

* to deprecate **F35 Nomen Use Statement**
* to add the following examples to F12 Nomen (a classification number, and class caption)
  + '595.7' [classification number for Insecta in the 23rd edition of the Dewey Decimal Classification]
  + 'Insecta'[caption for the class '595.7' in the English language 23rd edition of the Dewey Decimal Classification]
* change the domain of **R35/R36/R54** **from** F35 Nomen Use Statement, **to** F12 Nomen
* change the range of **R35 is specified by** [D: F35 Nomen Use Statement, R: F34 Controlled Vocabulary] to F2 Expression (since we really don’t want to keep F34 Controlled Vocabulary in LRMoo in the long run –see [above](#_F34_Controlled_Vocabulary))
* keep **R33 has content** in **F12 Nomen**.
* Keep **R38 refers to thema** (change its domain and range to **F12 Nomen** and **E1 CRM Entity**, respectively) and make it a subproperty of **P1i** **identifies**
* deprecate **R32**/**R37** (migration path goes through R33) /**R55**

In favor: 11  
Against: none  
**Outcome**: passed

**HW**: PR to update the examples for F12 Nomen using the first example (杜甫’ as the name for a Chinese poet of the 8th century, rendered in simplified Chinese characters) as a template.

### R36 uses script conversion

**Proposal** to change the domain of R36 from F35 to F12, delete the superproperty, change the scope-note accordingly and the presentation of the examples.   
The template for examples is “Hui Deng” as the name of … (F12) *uses script conversion* Pinyin (F36)

**Vote** to accept the proposed changes in the definition of **R36 uses script conversion**  
In favor: 11  
Against: none  
**Outcome**: passed

**HW**: PR to redraft the examples according to the template.

### R54 has nomen language

**Proposal**: change the domain of R54 from E35 to F12, change the label of the property to *has language* (because the domain is set to F12), change its superproperty to P2 has type, fix the examples following this template

“The name ‘Colón Cristóbal’ as …. (F12) *has language* spa [Spanish] (E56)

**Vote** for the proposal  
In favor: 12  
Against: none  
**Outcome**: passed

**HW**: PR to redraft the examples according to the template.

**NOTE**: Check the examples in E56 –[new issue](#_[NEW_ISSUE]:_Style) for CRMbase.

### R56 has related use

PR presented a proposal for changing the definition of R56.

**Discussion points**:

MD: relabel it to “has coreference”, and also make it more explicit in the scope note that the two instances of Nomen co-refer.

Some editing took place

SdS: suggested that PR review the text of the scope note and the examples in the light of R36 and the changes implemented there (especially the part re. the .1 property concerning the transliterations).

**Decision**: Postpone until next SIG meeting. We have left things as are documented [below](#_R56_has_related_1) (without having reached a decision for R56 that is). In the next sig we’ll need to assign more than one session for LRMoo.

**HW** to PR to double check according to the suggestions made. Also, share the google doc where open issues for LRM are laid out with the rest of the SIG asking for comments.

#### R56 has related use

Domain:  [F12](https://docs.google.com/document/d/1_cI2L7dkV32hEyKbLOgFOlURt412lsYleX9wvz-hslE/edit#heading=h.2et92p0) Nomen

Range: [F12](https://docs.google.com/document/d/1_cI2L7dkV32hEyKbLOgFOlURt412lsYleX9wvz-hslE/edit#heading=h.2et92p0) Nomen

Subproperty of: (none)

Shortcut of: E89 Propositional Object (1) *P1i identifies*: E1 CRM Entity *P1i is identified by:* E89 Propositional Object (2)

Quantification: (0,n:0,n)

Scope note: This property associates an instance of F12 Nomen with another instance of F12 Nomen, which co-refers to the same instance of E1 CRM Entity. In addition, the nomens may be related in some context, such as replacing former use, etc.. This property is transitive.

The property R56.1 allows for specifying the particular kind of relationship that holds between the content (the associated instances of E62 String) of the domain nomen and the range nomen, such as by being a derivation, an alternative, a lexical variant, etc. Typing the association may introduce a meaning of the inverse direction which may cause loss of transitivity.

Examples: ‘Čajkovskij, Petr Ilʹič’ (F12) *is related to* ‘Пётр Ильич Чайковский’ (F12), with *has type* transliteration (E55).

‘The Lord of the Rings’ (F12) *is related to* ‘Le Seigneur des anneaux’ (F12), with *has type* original language (E55).

‘IFLA’ (F12) *is related to* ‘International Federation of Library Associations and Institutions’' (F12), with *has type* acronym.

‘Siam’ (F12) *is related to* ‘Thailand’ (F12).

‘595.7’ (F12) *is related to* ‘Insecta’ (F12). [The latter being the caption for the Dewey Decimal Classification number in the English language 23rd edition.]

Properties:           R56.1 has type: [E55](https://docs.google.com/document/d/1_cI2L7dkV32hEyKbLOgFOlURt412lsYleX9wvz-hslE/edit#heading=h.3znysh7) Type