**F1 Work**

Subclass of:        [E89](https://posta.nuk.uni-lj.si/OWA/#_E1_CRM_Entity) Propositional Object

Superclass of:     [F14](https://posta.nuk.uni-lj.si/OWA/#_F20_Self-Contained_Expression) Individual Work (deprecate)

[F15](https://posta.nuk.uni-lj.si/OWA/#_F15_Complex_Work) Complex Work (deprecate)

[F16](https://posta.nuk.uni-lj.si/OWA/#_F16_Container_Work) Container Work

[F21](https://posta.nuk.uni-lj.si/OWA/#_F21_Recording_Work) Recording Work

Scope note:

This class comprises distinct intellectual ideas conveyed in artistic and intellectual creations, such a poems, stories or musical compositions. The substance of Work is immaterial.

A Work is the outcome of an intellectual process of one or more persons. Inherent to the notion of work is the existence of recognisable realizations of the work in the form of one or more expressions. Works are often regarded as finished and discrete e.g. when declared as such by the creator of the work or based on the elaboration or logical coherence of its content. However, works may be recognized as existing but unfinished e.g. if the creators deliberately or accidentally never explicitly finished a particular Expression but have left behind partial expressions.

In the absence of explicit information about the initial conception, which is rarely available, the first expression created constitutes witness of the beginning of existence of a Work.

A Work can evolve over time, such as through revised editions. A Work may be elaborated by one or more Actors simultaneously, in parallel or over time. Additional expressions of a Work can continue to be created over time.

The boundaries of a Work have nothing to do with the value of the intellectual achievement but only with the dominance of a concept.

The main purpose of this class is to enable bringing together intellectually equivalent Expressions in order to display to a user all available alternatives of the same intellectual or artistic content.

### R10 has component (is component of)

Domain:                [F1](https://posta.nuk.uni-lj.si/OWA/#_F1_Work_1) Work

Range: [F1](https://posta.nuk.uni-lj.si/OWA/#_F1_Work_1) Work

Subproperty of:     [E89](https://posta.nuk.uni-lj.si/OWA/#_E1_CRM_Entity) Propositional Object. [P148](https://posta.nuk.uni-lj.si/OWA/#_P148_has_component_1) has component (is component of): [E89](https://posta.nuk.uni-lj.si/OWA/#_E1_CRM_Entity) Propositional Object

Quantification:      (0,n:0,n)

Scope note:           This property associates an instance of F1 Work with another instance of F1 Work that forms part of it. This property is transitive. An instance of F1 Work may neither directly nor indirectly be member of itself. Instances of F1 Work that are not member of another one may not share a common member.

Examples:             Dante’s textual work entitled ‘Divina Commedia’ *R10 has member* Dante’s textual work entitled ‘Inferno’

Giovanni Battista Piranesi’s graphic work entitled ‘Carceri’ (F15) *R10 has member* Giovanni Battista Piranesi’s graphic work entitled ‘Carcere XVI: the pier with chains’

### R3 is realised in (realises) [=LRM-R4]

Domain:                [F1](https://posta.nuk.uni-lj.si/OWA/#_F1_Work_1) Work

Range:                   [F2](https://posta.nuk.uni-lj.si/OWA/#_F2_Expression) Expression

Superproperty of:  [F20](https://posta.nuk.uni-lj.si/OWA/#_F20_Performance_Work) Performance Work. [R12](https://posta.nuk.uni-lj.si/OWA/#_R12_is_realised_1) is realised in (realises): [F25](https://posta.nuk.uni-lj.si/OWA/#_F25_Performance_Plan) Performance Plan

[F21](https://posta.nuk.uni-lj.si/OWA/#_F21_Recording_Work) Recording Work. [R13](https://posta.nuk.uni-lj.si/OWA/#_R13_is_realised_1) is realised in (realises): [F26](https://posta.nuk.uni-lj.si/OWA/#_F26_Recording) Recording

[F1](https://posta.nuk.uni-lj.si/OWA/#_F1_Work_1) Work. [R40](https://posta.nuk.uni-lj.si/OWA/#_R40_has_representative_expression_%28) has representative expression (is representative expression for): [F22](https://posta.nuk.uni-lj.si/OWA/#_F22_Self-Contained_Expression) Self-Contained Expression

Subproperty of:     [E70](https://posta.nuk.uni-lj.si/OWA/#_E70_Thing_1) Thing. [P130](https://posta.nuk.uni-lj.si/OWA/#_P130__shows_) shows features of (features are also found on): [E70](https://posta.nuk.uni-lj.si/OWA/#_E70_Thing_1) Thing

Quantification:      (1,n:1,1)

Scope note:           This property associates an instance of F2 Expression with an instance of F1 Work.

This property expresses the association that exists between an expression and the work that this expression conveys. Our factual knowledge of how a given work is historically realised into expressions is often limited. Therefore, this property makes it possible to express the association between instances of F2 Expression and the work it conveys without identifying the particular instances of Expression that were the source.

Examples:             Dante’s work entitled ‘Inferno’ (F1) *R3 is realised in* the Italian text of Dante’s ‘Inferno’ as found in the authoritative critical edition *La Commedia secondo l’antica vulgata a cura di Giorgio Petrocchi*, Milano: Mondadori, 1966-67 (= Le Opere di Dante Alighieri, Edizione Nazionale a cura della Società Dantesca Italiana, VII, 1-4)

Mozart’s work entitled ‘Il dissoluto punito ossia il Don Giovanni’ (F1) *R3 is realised in* the notated music of the Prague version, as found on manuscript Ms 1548 of the National Library of France (F2)

Properties:             R3.1 has type: [E55](https://posta.nuk.uni-lj.si/OWA/#_E55_Type_) Type

### R5 has component (is component of)

Domain:                [F2](https://posta.nuk.uni-lj.si/OWA/#_F2_Expression) Expression

Range:                   [F2](https://posta.nuk.uni-lj.si/OWA/#_F2_Expression) Expression

Subproperty of:     [E89](https://posta.nuk.uni-lj.si/OWA/#_E89_Propositional_Object) Propositional Object. [P148](https://posta.nuk.uni-lj.si/OWA/#_P148_has_component_1) has component (is component of): [E89](https://posta.nuk.uni-lj.si/OWA/#_E89_Propositional_Object) Propositional Object

Quantification:      (0,n:0,n)

Scope note:           This property associates an F2 Expression X with a structural component Y that conveys a part of the overall work realized by X, such as volumes, chapters, paragraphs.

                              Any part of an expression that conveys complete propositions, such as a single phrase, can be documented using the more general property [*P148*](https://posta.nuk.uni-lj.si/OWA/#_P148_has_component_1) *has component (is component of)*.

                              Any part of an expression that does not completely follow meaningful boundaries, such as lines or pages of text or portions visible on images can be documented using the property *P106 is composed of (forms part of),* and not with *R5 has component (is component of)*. Fragments in particular can be documented with the more specific property *R15 has fragment (is fragment of)*.

The property does not cover the relationship that exists between pre-existing expressions that are re-used in a new, larger expression and that new, larger expression. Such a relationship is modelled by *P165 incorporates*.

Examples:             The Italian text of Dante’s textual work entitled ‘Divina Commedia’ (F2) *R5 has component* the Italian text of Dante’s textual work entitled ‘Inferno’ (F2)

The musical notation of Mozart’s Singspiel entitled ‘Die Zauberflöte’ (F2) *R5 has component* the musical notation of Mozart’s aria entitled ‘Der Hölle Rache’, also known as ‘The Queen of the Night’s Aria’ (F2)

The visual content of the map entitled ‘Wales – The Midlands – South West England’, scale 1:400,000, issued by Michelin in 2005 (F2) *R5 has component* the visual content of the inset entitled ‘Liverpool’, scale 1:200,000, set within the compass of the map titled ‘Wales – The Midlands – South West England’, scale 1:400,000, issued by Michelin in 2005 (F2)

###### F2 Expression

Subclass of: [E73](#_E73_Information_Object_) Information Object

Superclass of: [F22](#_F22_Self-Contained_Expression) Self-Contained Expression

[F23](#_F23_Expression_Fragment) Expression Fragment (we should revise the F23) to check the emails “what is the ontological notion of page” is it a fragment or is it a compliment of a self contained expression; is it a manifetastaion level concept

[F34](#_F34_KOS) KOS (just check )

[F35](#_F35_Nomen_Use) Nomen Use Statement (it was the presctive part)

[F43](#_F43_Identifier_Rule_1) Identifier Rule just check to see along with linked open data rules

Scope note: This classcomprises the intellectual or artistic realisations of *works* in the form of identifiable immaterial objects, such as texts, poems, jokes, musical or choreographic notations, movement pattern, sound pattern, images, multimedia objects, or any combination of such forms that have objectively recognisable structures. The substance of F2 Expression is signs.

 An Expression is the outcome of the intellectual or creative process of realizing a Work and the creation of an expression is inherent to the creation of a work. Subsequent expressions conveying the same work may be created over time.

Expressions do not depend on a specific physical carrier and can exist on one or more carriers simultaneously, including human memory, but expressions cannot persist without a carrier.

The form of F2 Expression is an inherent characteristic of the F2 Expression. Differences in form implies different Expressions (e.g., from text to spoken word, a transcript of a recording). Similarly, differences in language or means of performance imply different Expressions (e.g., translations or arrangements for different instruments). Thus, if a text is revised or modified, the result is considered to be a new F2 Expression. On a practical level, the degree to which distinctions are made between variant *expressions* of a *work* will depend to some extent on the nature of the F1 Work itself and on the anticipated needs of users. (Alternative phrasing: While theoretically any change in signs will result in a new Expression, conventionally the context and use will determine the rules for distinguishing among expressions.)

Examples: The Italian text of Dante’s ‘Divina Commedia’ as found in the authoritative critical edition ‘*La Commedia secondo l’antica vulgata a cura di Giorgio Petrocchi’*, Milano: Mondadori, 1966-67 (= Le Opere di Dante Alighieri, Edizione Nazionale a cura della Società Dantesca Italiana, VII, 1-4) (F22 and E33)

The Italian text of Dante’s ‘Inferno’ as found in the same edition (F22 and E33)

‘Nel mezzo del cammin di nostra vita
mi ritrovai per una selva oscura
ché la diritta via era smarrita’ [the Italian text of the first stanza of Dante’s ‘Inferno’ and ‘Divina Commedia’] (F23 and E33)

The signs which make up Christian Morgenstern’s ‘Fisches Nachtgesang’ [a poem consisting simply of ‘—’ and ‘˘’ signs, arranged in a determined combination] (F22)

Properties**:** [R4](#_R4_carriers_provided) carriers provided by (comprises carriers of): [F3](#_F3_Manifestation_Product) Manifestation Product Type

[R5](#_R5_has_component) has component (is component of): [F22](#_F22_Self-Contained_Expression) Self-Contained Expression

[R15](#_R15_has_fragment_) has fragment (is fragment of): [F23](#_F21_Complex_Work) Expression Fragment

[R41](#_R41_has_representative_manifestatio) has representative manifestation product type (is representative manifestation product type for): [F3](#_F3_Manifestation_Product) Manifestation Product Type (it might be not needed)

### F3 Manifestation

Subclass of:        [F2 Expression](https://posta.nuk.uni-lj.si/owa/#_E55_Type_)

Scope note:    This class comprises products rendering one or more Expressions. A Manifestation is defined by both the overall content, its physical form and presentation. The substance of F3 Manifestation is signs and the way signs are presented to be consumed by users.

A F3 Manifestation is the outcome of a publication process where one or more F2 Expression are prepared for public dissemination, but it may also be a unique form created on some carrying material manually without the intent of being formally published.

An instance of F3 Manifestation must incorporate one or more instances of F2 Expression and all additional input by a publisher such as text layout and cover design. Additionally a F3 Manifestation can be identified by the physical features for the medium of distribution if applicable. For example, hardcover and paperback are two distinct publications (i.e. two distinct instances of F3 Manifestation) even though authorial and editorial content are otherwise identical in both publications.

In case of industrial products such as printed books or music CDs, but also digital material, an instance of F3 Manifestation can be regarded as the prototype for all copies of it. In these cases, an instance of F3 Manifestation defines all of the features or traits that instances of F5 Item display in order to be copies of a particular publication.

### R4 embodies (is embodied in)

Domain:                [F3](https://posta.nuk.uni-lj.si/owa/#_F3_Manifestation_Product_Type) Manifestation

Range:                   [F2](https://posta.nuk.uni-lj.si/owa/#_F2_Expression) Expression

Subproperty of:     [E73](https://posta.nuk.uni-lj.si/owa/#_E73_Information_Object_) Information Object. P165 incorporates (is incorporated in): [E90](https://posta.nuk.uni-lj.si/owa/#_E90_Symbolic_Object_1) Symbolic Object

Quantification:      (0,n:0,n)

Scope note:           This property associates one or more instances of F2 Expression with an instance of F3 Manifestation which is the rendering of these expressions.

Examples:             The publication identified by ISBN ‘2-222-00835-2’ (F3) *R4 incorporates* 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) *R4 incorporates* A recording of the Atrium Musicæ Ensemble’s performance of a fragment of Euripides’ textual and musical work entitled ‘Orestes’ (F26)

### R7 is materialization of (is materialized in) [=LRM-R4]

Domain:                [F5](https://posta.nuk.uni-lj.si/owa/#_F5_Item_1) Item

Range:                   [F3](https://posta.nuk.uni-lj.si/owa/#_F3_Manifestation_Product) Manifestation

Subproperty of:     [E24](https://posta.nuk.uni-lj.si/owa/#_E24_Physical_Man-Made_1) Physical Man-Made Thing. [P128](https://posta.nuk.uni-lj.si/owa/#_P128_carries_%28is_1) carries (is carried by): [E73](https://posta.nuk.uni-lj.si/owa/#_E73_Information_Object_) Information Object

Quantification:      (1,1:0,n)

Scope note:           This property associates a publication with one of its exemplars. F5 Item corresponds to the physical unit intended by the manifestation, regardless of possible later changes.

Even though an item may exhibit defects with respect to the intended manifestation, it is still regarded to carry the manifestation, as long as it is produced or made accessible as a functional item by its creators.

Examples:             The item held by the National Library of France and identified by shelf mark ‘Res 8 P 10’ (F5) *R7 is materialization of* the edition of Amerigo Vespucci’s textual and cartographic work entitled ‘Mundus novus’ issued in Paris ca. 1503-1504 (F3)

Here my reinterpretation of F30, could also be (better?) "Publication creation", since throughout FRBRoo we talk about "publication" as better synonym of "manifestation".

### F30 Manifestation Creation [=LRM-R7 manifestation creation]

[Need to distinguish publication from distribution (LRM-R9). FRBRoo does not presently have anything to cover distribution. The 3rd example (online distribution), belongs to the distribution action. The publication event is not the creation of the publication expression, it uses it.]

[PLB: Originally FRBRoo dealt with distribution as a Right granted to an Actor by the publisher. The event to be accounted for is the granting of the right to distribute rather than the distribution process itself]

[The distribution facts are of interest for obtaining items. This could fall under a general services model. Could identify the LRM-R9 with the setting of the distribution service.]

Need to get a copy of the service model from Parthenos project.

Subclass of:        [F28](https://posta.nuk.uni-lj.si/owa/#_F31_Expression_Creation) Expression Creation

Scope note:         This class comprises the activities of elaborating one or more expressions to the level of the actual or intended sensory impression of a respective carrier or other persistent presentation means of it with the purpose of communicating it to some public.

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

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

Properties**:** [R23](https://posta.nuk.uni-lj.si/owa/#_R23_created_a) created a realisation of (was realised through): [F19](https://posta.nuk.uni-lj.si/owa/#_F19_Publication_Work) Publication Work

[R24](https://posta.nuk.uni-lj.si/owa/#_R24_created_%28was) created (was created through): F3 Manifestation

Here the PARTHENOS definition of service:

|  |  |
| --- | --- |
| **Class Label** | **PE1 Service** |
| **Subclass of** | E7 Activity |
| **Superclass of** | PE2 Hosting ServicePE3 Curating ServicePE8 E-Service |
| **Scope Note** | This class comprises declared offers by some instance of E39 Actor of their willingness and ability to execute an activity or series of activities at the request of another instance of E39 Actor for the specific benefit of the latter. The identity of a service therefore depends on the individual instance of E39 actor making the offer, the type of activity(ies) offered and/or the type of product resultant from such an activity(ies). An instance of a PE1 Service begins to exist with the declaration of the ability and willingness of an instance of E39 actor to perform the particular set of activities for the benefit of another actor. The instance of PE1 Service ends when either the declared willingness or ability permanently ends.n.b.: this means that the ability may temporarily be interrupted, such as when an actor is on vacation or where the machine on which the service relies is being repaired, without meaning that the service as such has ended. A service need not continually be running in order for it be considered to be continuous, for example a service may be defined to fall within certain working hours. The instance of PE1 Service includes all auxiliary abilities of the same actor to execute the respective activities, but not services provided by third parties in the course of the service provisioning.  |
| **Examples** | The local car repair shop’s car repair services.  |

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# Points to discuss

Work

* Revise and simplify the definition.
* Need a property to model »part« of (in the common sense as parts that complement each other). This is the meaning found in other models such as LRM, BIBFRAME, Schema.org, Wikidata and we need a property that can be aligned with these schemas.
* Ok to have this as subproperty of R10 or P148. Currently R10 and P148 only differ in domain&range and there is no need
*