

MAPPING FRBR → CRM

Foreword to the 1st “edition” (before the Monterey meeting, February 2002):

The FRBR model (Functional Requirements for Bibliographic Records) was approved in 1997 by the Standing Committee of the IFLA Section on Cataloguing (International Federation of Library Associations and Institutions) and published in 1998.

Its aim was at the same time to demonstrate, on scientific bases, that full cataloguing, such as it has traditionally been in use in libraries, is justified and even necessary, and to convey some more experimental (not to say revolutionary) views on data structure: “the model could also be expanded in depth to create a fully developed data model that would serve as the basis for the design of an experimental database to assess the efficiency and effectiveness of a database structure patterned on the model” (FRBR final study, p. 6).

As its very name suggests, the FRBR model is designed for *bibliographic* records only, whereas libraries traditionally produce two kinds of records: bibliographic records for the description of the items they actually hold or give access to, and authority records for a better control of the access points to these bibliographic records (names of persons, names of corporate bodies, subject headings, in some cases titles of works, etc.). The FRANAR group (Functional Requirements And Numbering of Authority Records) within IFLA has as task to extend the modeling process to authority records. Tom Delsey has prepared a document for discussion within the FRANAR group; this working draft contains substantial enhancements to FRBR, since in the original version of FRBR authority records are taken into consideration only inasmuch as they are directly related to bibliographic records, and these enhancements might easily be mapped to CRM (for instance, “Place of Birth” and “Place of Death” for the Person entity). However, I only mapped FRBR in the form in which it currently stands and is available: I’ll wait until Tom Delsey’s proposals are approved by the FRANAR group and officially published before I map them to CRM.

Lately (on 2002 January 4th to be specific), Tom Delsey (again) proposed an extension of FRBR, in order “to reflect the data content of the MARC bibliographic and holding formats” and to clarify “the extent of the information contained in MARC records and the interrelationships between and among elements of that information.” Though this extension has been made available to anyone (<<http://www.loc.gov/marc/marc-functional-analysis/appendixd.pdf>>), I didn’t

take it into account either, but it surely will be most useful in the future to map this extended version of FRBR to CRM.

One of the major problems I had to struggle with while working on this mapping, was how precisely to map the *manifestation* entity. I first proposed either E24 Physical man-made stuff or E22 Man-made object, but as a result of some discussion with Martin, perhaps E73 Information object (with due type, in order to make a clear distinction between *expression* and *manifestation*) would be more convenient; but then there would be some problems again with such attributes of the *manifestation* entity as “form of carrier”, “extent of the carrier”, “physical medium”, “dimensions of the carrier”, etc.

Another problem was the lack of an equivalent for the *concept* entity – or should it be a *type* in CRM?

There is no equivalent either for the notion of “edition / issue designation”, which is crucial for bibliographic items. This designation might be interpreted as the identification of a state of an information object between two changes – but in most cases this state is still available even after the change has occurred.

A number of other, less important difficulties have been highlighted hereafter in yellow.

All of these problems, major or minor, deserve some discussion, in order to achieve an acceptable mapping of FRBR to CRM.

Foreword to the 2nd version (July 2002):

This mapping was revised on the basis of comments from the CRM-SIG on the occasion of its Monterey meeting in February 2002. These comments led to a change in the mapping of some fundamental entities in the FRBR model, resulting thus in radical changes in parts of the rest of the mapping.

Besides, instead of dividing this mapping into three chapters, “Entities”, “Attributes”, “Relationships”, as formerly, I regarded both “attributes” and “relationships” as “properties”, following the CRM terminology. The difference, in the FRBR model, between “attributes” and “relationships”, is that an attribute is a property that, in bibliographic databases, always is expressed through a mere statement in the record, a string (which matches in CRM the “has note: E62 String” property), whereas relationships should always correspond to actual links from records (typically, bibliographic) to distinct records (typically, those found in authority files). (This is the reason why FRBR regards “4.4.4. Place of Publication/Distribution” as an attribute, though the Place entity does exist in the model but corresponds to an authority record that is used only for a subject relationship).

I did not use the mapping utility developed by ICS-FORTH, because my computer did not support it. It remains therefore a mere Word document. I hope however it will be possible in a near future (once it has been accepted by the CRM-SIG) to transform it into a more convenient format, which will allow it to be exploited.

Changes between the previous version and this one are highlighted in grey.
Problems and unanswered questions are highlighted in yellow.

Foreword to the 3rd version (December 2002):

In November 2002 version 3.4 of CRM was made available. This is a highly stabilized version of the model that takes all changes from the 5th joined meeting of the CIDOC-SIG and ISO/TC46/SC4/WG9 into account. The 2nd edition of the FRBR-to-CRM mapping was checked on this stabilized version and some minor further changes were made, in order to result in the present edition, dated 26 December 2002.

In the meanwhile, the FRANAR model has made considerable progress and tends more and more to be a generalized overall entity-relationship model for the “bibliographic universe”. This model is however not publicly available yet. The third edition of the FRBR-to-CRM mapping is therefore still limited to FRBR such as it was approved by IFLA on September 5, 1997.

Changes between the second edition of the mapping and the third one are highlighted in blue.

Mapping FRBR_to_CRM
version 3, 26/12/2002

Entities (and Groups of Entities):

Source: FRBR	CRM
3.1.1. Group 1 (Work, Expression, Manifestation, Item)	E71 Man-made Stuff
3.1.2. Group 2 (Person, Corporate Body)	E39 Actor
3.1.3. Group 3 (Group 1, Group 2, Concept, Object, Event, Place)	E1 CRM Entity
3.2.1. Work	No equivalent as an entity. The FRBR notion of "Work" is actually reflected in CRM as a property: P130.F shows features of (features are also found on) P130.1 kind of similarity: "Different version" (both Domain and Range being: E73 Information Object (type: "Expression")) However, for practical reasons, FRBRWork is also mapped to CRME73 Information Object (has type: "Work"), which allows for a mapping of Work attributes and relationships to CRM entities and properties.
3.2.2. Expression	E73 Information Object P2.F has type E55 Type (with value: "Expression") (In the case of texts, may be specialized into: E33 Linguistic object) (In the case of images, may be specialized into: E38 Image)
3.2.3. Manifestation	E73 Information object P2.F has type E55 Type (with value: "Manifestation") E55 Type
3.2.4. Item	E84 Information Carrier
3.2.5. Person	E21 Person
3.2.6. Corporate Body	E74 Group In some cases: E40 Legal body <i>Note: the FRBR entity "Corporate Body" also involves "meetings, conferences, congresses, expeditions, exhibitions, festivals, fairs, etc." and "organizations that act as territorial authorities [...] such as a federation, a state, a region, a local municipality, etc."</i>
3.2.7. Concept	E28 Conceptual Object
3.2.8. Object	E19 Physical Object
3.2.9. Event	E4 Period ¹
3.2.10. Place	E53 Place

¹ The definition and examples show that the FRBR concept of "event" comprehends at the same time the CRM classes E4 Period and E5 Event. Since E5 Event is a subclass of E4 Period, it should not be problematic to map FRBR 3.2.9 Event to CRM E4 Period.

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Properties:

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work")
Link	has attribute: 4.2.1. Title of the Work	P102.F has title (is title of)
Range	4.2.1. Title of the Work	E35 Title
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work")
Link	has attribute: 4.2.2. Form of Work	P2.F has type (is type of) E55 Type
Range	4.2.2. Form of Work	E55 Type
Conditions		with definition of a subset "Form of Work" within E55 Type

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work")
Link	has attribute: 4.2.3. Date of the Work	P94.B was created by (has created) E65 Creation Event E65 Creation Event P4.F has time-span (is time-span of) E52 Time-span E52 Time-span P78.F is identified by (identifies) E50 Date
Range	4.2.3. Date of the Work	E50 Date
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work")
Link	has attribute: 4.2.4. Other Distinguishing Characteristic	P102.F has title (is title of) E35 Title E35 Title P106.F is composed of (forms part of) E33 Linguistic Object E33 Linguistic Object P2.F has type (is type of) E55 Type (value: "Other Distinguishing Characteristic")
Range	4.2.4. Other Distinguishing Characteristic	E33 Linguistic Object
Conditions		Actually is a part of E35 Title, not as a "natural title" but as an additional information provided by catalogers in order to distinguish between two homonymous titles.

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	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work")
Link	has attribute: 4.2.5. Intended Termination	P2.F has type (is type of) E55 Type
Range	4.2.5. Intended Termination	E55 Type
Conditions		with definition of a subset "Intended Termination" within E55 Type

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work")
Link	has attribute: 4.2.6. Intended Audience	P103.F was intended for (was intention of) E55 Type
Range	4.2.6. Intended Audience	E55 Type
Conditions		with definition of a subset "Intended Audience" within E55 Type

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work")
Link	has attribute: 4.2.7. Context for the Work	P94.B was created by (has created) E65 Creation Event E65 Creation Event P10.F falls within (contains) E4 Period
Range	4.2.7. Context for the Work	E4 Period
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work") (has type: "Musical Work")
Link	has attribute: 4.2.8. Medium of Performance (Musical Work)	P103.F was intended for (was intention of) E55 Type
Range	4.2.8. Medium of Performance (Musical Work)	E55 Type
Conditions		with definition of a subset "Medium of Performance" within E55 Type

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work") (has type: "Musical Work")
Link	has attribute: 4.2.9. Numeric Designation (Musical Work)	P1.F is identified by (identifies) E75 Conceptual object appellation E75 Conceptual object appellation P2.F has type E55 Type: "Numeric Designation (Musical Work)"
Range	4.2.9. Numeric Designation (Musical Work)	E75 Conceptual object appellation
Conditions		

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	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work") (has type: "Musical Work")
Link	has attribute: 4.2.10. Key (Musical Work)	P2.F has type (is type of) E55 Type
Range	4.2.10. Key (Musical Work)	E55 Type
Conditions		with definition of a subset "Key (music)" within E55 Type

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work") (has type: "Cartographic Work")
Link	has attribute: 4.2.11. Coordinates (Cartographic Work)	P67.F refers to (is referred to by) E27 Site E27 Site P1.F is identified by (identifies) E47 Spatial coordinates
Range	4.2.11. Coordinates (Cartographic Work)	E47 Spatial coordinates
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information object (has type: "Work") (has type: "Cartographic Work")
Link	has attribute: 4.2.12. Equinox (Cartographic work)	P67.F refers to (is referred to by) E50 Date P67.1.F has type: E55 Type "Equinox"
Range	4.2.12. Equinox (Cartographic work)	E50 Date
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression")
Link	has attribute: 4.3.1. Title of the Expression	P102.F has title (is title of) E35 Title
Range	4.3.1. Title of the Expression	E35 Title
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression")
Link	has attribute: 4.3.2. Form of Expression	P2.F has type (is type of) E55 Type
Range	4.3.2. Form of Expression	E55 Type
Conditions		with definition of a subset "Form of Expression" within E55 Type

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	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression")
Link	has attribute: 4.3.3. Date of Expression	P94.B was created by (has created) E65 Creation Event E65 Creation Event P4.F has time-span (is time-span of) E52 Time-span E52 Time-span P78.F is identified by (identifies) E50 Date
Range	4.3.3. Date of Expression	E50 Date
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E33 Linguistic object
Link	has attribute: 4.3.4. Language of Expression	P72.F has language (is language of) E56 Language
Range	4.3.4. Language of Expression	E56 Language
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression")
Link	has attribute: 4.3.5. Other Distinguishing Characteristic	P102.F has title (is title of) E35 Title E35 Title P106.F is composed of (forms part of) E33 Linguistic Object E33 Linguistic Object P2.F has type (is type of) E55 Type (value: "Other Distinguishing Characteristic")
Range	4.3.5. Other Distinguishing Characteristic	E33 Linguistic Object
Conditions		Actually is a part of E35 Title, not as a "natural title" but as an additional information provided by catalogers in order to distinguish between two homonymous titles.

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression")
Link	has attribute: 4.3.6. Extensibility of Expression	P3.F has note E62 String P3.1.F has type: E55 Type "Extensibility of expression"
Range	4.3.6. Extensibility of Expression	E62 String
Conditions		

	Source: FRBR	CRM

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Domain	3.2.2. Expression	E73 Information object (has type: "Expression")
Link	has attribute: 4.3.7. Revisability of Expression	P3.F has note E62 String P3.1.F has type: E55 Type "Revisability of expression"
Range	4.3.7. Revisability of Expression	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression")
Link	has attribute: 4.3.8. Extent of the Expression	P43.F has dimension (is dimension of) E54 Dimension
Range	4.3.8. Extent of the Expression	E54 Dimension
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression")
Link	has attribute: 4.3.9. Summarization of Content	P3.F has note E62 String P3.1.F has type: E55 Type "Summarization of content"
Range	4.3.9. Summarization of Content	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression")
Link	has attribute: 4.3.10. Context for the Expression	P94.B was created by (has created) E65 Creation Event E65 Creation Event P10.F falls within (contains) E4 Period
Range	4.3.10. Context for the Expression	E4 Period
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression")
Link	has attribute: 4.3.11. Critical Response to the Expression	P3.F has note E62 String P3.1.F has type: E55 Type "Critical response"
Range	4.3.11. Critical Response to the Expression	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression")

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Link	has attribute: 4.3.12. Use Restrictions on the Expression	P104.F is subject to (applies to) E30 Right
Range	4.3.12. Use Restrictions on the Expression	E30 Right
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Serial")
Link	has attribute: 4.3.13. Sequencing Pattern (Serial)	P3.F has note E62 String P3.1.F has type: E55 Type "Sequencing pattern"
Range	4.3.13. Sequencing Pattern (Serial)	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Serial")
Link	has attribute: 4.3.14. Expected Regularity of Issue (Serial)	P2.F has type (is type of) E55 Type
Range	4.3.14. Expected Regularity of Issue (Serial)	E55 Type
Conditions		with definition of a subset "Expected Regularity of Issue" within E55 Type with two possible values only for E55 Type in that case: "regular" or "irregular"

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Serial")
Link	has attribute: 4.3.15. Expected Frequency of Issue (Serial)	P2.F has type (is type of) E55 Type
Range	4.3.15. Expected Frequency of Issue (Serial)	E55 Type
Conditions		with definition of a subset "Expected Frequency of Issue" within E55 Type with a limited range of possible values for E55 Type in that case: "weekly", "monthly", "quarterly", "annually" ...

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Musical Notation")
Link	has attribute: 4.3.16. Type of Score (Musical Notation)	P2.F has type (is type of) E55 Type
Range	4.3.16. Type of Score (Musical Notation)	E55 Type
Conditions		with definition of a subset "Type of Score" within E55 Type

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		with a limited range of possible values for E55 Type in that case: "short score", "full score", "condensed score", "close score"...
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	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Musical Notation")
Link	has attribute: 4.3.17. Medium of Performance (Musical Notation or Recorded Sound)	P103.F was intended for (was intention of) E55 Type
Range	4.3.17. Medium of Performance (Musical Notation or Recorded Sound)	E55 Type
Conditions	IF the instance of 3.2.2. Expression has attribute: 4.3.2. Form of Expression, value: "Musical Notation", THEN:	with definition of a subset "Medium of Performance" within E55 Type

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Recorded Sound")
Link	has attribute: 4.3.17. Medium of Performance (Musical Notation or Recorded Sound)	P94.B was created by (has created) E65 Creation Event E65 Creation Event P125.F used general object (was used for) E55 Type
Range	4.3.17. Medium of Performance (Musical Notation or Recorded Sound)	E55 Type
Conditions	IF the instance of 3.2.2. Expression has attribute: 4.3.2. Form of Expression, value: "Recorded Sound", THEN:	with definition of a subset "Medium of Performance" within E55 Type

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Cartographic Image/Object")
Link	has attribute: 4.3.18. Scale (Cartographic Image/Object)	P3.F has note E62 String P3.1.F has type: E55 Type "Scale"
Range	4.3.18. Scale (Cartographic Image/Object)	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Cartographic Image/Object")

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Link	has attribute: 4.3.19. Projection (Cartographic Image/Object)	P2.F has type (is type of) E55 Type
Range	4.3.19. Projection (Cartographic Image/Object)	E55 Type
Conditions		with definition of a subset "Projection" within E55 Type with a limited range of possible values for E55 Type in that case: "transverse Mercator", "azimuthal equidistant"...

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Cartographic Image/Object")
Link	has attribute: 4.3.20. Presentation Technique (Cartographic Image/Object)	P2.F has type (is type of) E55 Type
Range	4.3.20. Presentation Technique (Cartographic Image/Object)	E55 Type
Conditions		with definition of a subset "Presentation Technique" within E55 Type with a limited range of possible values for E55 Type in that case: "anaglyphic", "diagrammatic", "pictorial"...

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Cartographic Image/Object")
Link	has attribute: 4.3.21. Representation of Relief (Cartographic Image/Object)	P2.F has type (is type of) E55 Type
Range	4.3.21. Representation of Relief (Cartographic Image/Object)	E55 Type
Conditions		with definition of a subset "Representation of Relief" within E55 Type with a limited range of possible values for E55 Type in that case: "contours", "shading", "hachures", "spot heights", "bathymetric hints"...

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Cartographic Image/Object")
Link	has attribute: 4.3.22. Geodetic, Grid, and Vertical Measurement (Cartographic Image/Object)	P2.F has type (is type of) E55 Type
Range	4.3.22. Geodetic, Grid, and Vertical Measurement (Cartographic Image/Object)	E55 Type

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	Image/Object)	
Conditions		with definition of a subset "Geodetic, Grid, and Vertical Measurement" within E55 Type

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Cartographic Image/Object")
Link	has attribute: 4.3.23. Recording Technique (Remote Sensing Image)	P2.F has type (is type of) E55 Type
Range	4.3.23. Recording Technique (Remote Sensing Image)	E55 Type
Conditions		with definition of a subset "Recording Technique" within E55 Type with a limited range of possible values for E55 Type in that case: "multispectral photography", "infrared line scanning", "SLAR", "passive microwave mapping"...

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Cartographic Image/Object")
Link	has attribute: 4.3.24 Special Characteristic (Remote Sensing Image)	P2.F has type (is type of) E55 Type
Range	4.3.24 Special Characteristic (Remote Sensing Image)	E55 Type
Conditions		with definition of a subset "Special Characteristic" within E55 Type

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information object (has type: "Expression") (has type: "Cartographic Image/Object")
Link	has attribute: 4.3.25. Technique (Graphic or Projected Image)	P2.F has type (is type of) E55 Type
Range	4.3.25. Technique (Graphic or Projected Image)	E55 Type
Conditions		with definition of a subset "Technique (Graphic or Projected Image)" within E55 Type with a limited range of possible values for E55 Type in that case: "animation", "live action", "computer generation", "3D"...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information object (has type: "Manifestation")
Link	has attribute: 4.4.1. Title of the Manifestation	P102.F has title (is title of) E35 Title P102.1.F has type: E55 Type

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Range	4.4.1. Title of the Manifestation	E35 Title
Conditions		with definition of a subset "Title of the Manifestation" within E55 Type, with a limited range of possible values within this subset, including: "title on the title page", "title on the title frame", "cover title", "added title-page title", "caption title", "running title", "spine title", "title in a colophon", "title in an explicit", "title on a container", "title on a microfiche header", "key title", "expanded title", "translated title", "supplied title"...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	has attribute: 4.4.2. Statement of responsibility	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P65.F shows visual item (is shown by) E34 Inscription E34 Inscription P67.F refers to (is referred to by) E39 Actor P67.1.F has type: E55 Type "Statement of responsibility"
Range	4.4.2. Statement of responsibility	E34 Inscription
Conditions		<i>Note: this is a mere transcription of the statement ("inscription") found on a document. The actual relationship between a document and an author is modeled under 5.2.2.</i>

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	has attribute: 4.4.3. Edition/Issue Designation	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P65.F shows visual item (is shown by) E34 Inscription E34 Inscription P2.F has type E55 Type (with value: "Edition/issue designation")
Range	4.4.3. Edition/Issue Designation	E34 Inscription
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	has attribute: 4.4.4. Place of Publication / Distribution	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P65.F shows visual item (is shown by) E34

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		Inscription E34 Inscription P2.F has type E55 Type (with value: "Place of Publication / Distribution")
Range	4.4.4. Place of Publication / Distribution	E34 Inscription
Conditions		Besides, E34 Inscription P67.F refers to (is referred to by) E48 Place name E48 Place name P87.B identifies (is identified by) E53 Place E53 Place P7.B witnessed (took place at) E12 Production Event E12 Production Event P108.F has produced (was produced by) E84 Information Carrier <i>Note: this is a mere transcription of the statement found on a document. Conceptually, it is possible to model the actual relationship between a document and the place where it was published, but the authors of the FRBR study chose not to do so, because there usually are no authority files for or normalized access points to places of publication/distribution in library catalogues².</i>

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	has attribute: 4.4.5. Publisher/Distributor	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P65.F shows visual item (is shown by) E34 Inscription E34 Inscription P2.F has type E55 Type (with value: "Publisher/Distributor")
Range	4.4.5. Publisher/Distributor	E34 Inscription
Conditions		Besides,

² FRBR final report, p. 31: "The model does not [...] parallel entity relationships with attributes in all cases where such parallels could be drawn. For example, 'place of publication/distribution' is defined as an attribute of the manifestation to reflect the statement appearing in the *manifestation* itself that indicates where it was published. Inasmuch as the model also defines *place* as an entity it would have been possible to define an additional relationship linking the entity *place* either directly to the *manifestation* or indirectly through the entities *person* and *corporate body* which in turn are linked through the production relationship to the *manifestation*. *To produce a fully developed data model further definition of that kind would be appropriate* [the italics are mine!]. But for the purposes of this study it was deemed unnecessary to have the conceptual model reflect all such possibilities. In cases such as the place of publication example it was considered sufficient simply to define an attribute to reflect labeling information as such without taking the analysis further to delineate a parallel entity relationship. Parallel delineation was done *only in cases where it seemed warranted by the need to provide for controlled or normalized access* [the italics are mine again!] to the information reflected in the attribute."

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		<p>E34 Inscription P67.F refers to (is referred to by) E82 Actor Appellation</p> <p>E82 Actor Appellation P131.B identifies (is identified by) E39 Actor</p> <p>E39 Actor P11.B participated in (had participant) E12 Production Event</p> <p>E12 Production Event P108.F has produced (was produced by) E84 Information Carrier</p> <p><i>Note: this is a mere transcription of the statement found on a document. The actual relationship between a document and a publisher/distributor is modeled below, under 5.2.2.[3].</i></p>
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	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	has attribute: 4.4.6. Date of Publication/Distribution	<p>P137.F is exemplified by (exemplifies) E84 Information Carrier</p> <p>E84 Information Carrier P108.B was produced by (has produced) E12 Production Event</p> <p>E12 Production Event P4.F has time-span (is time-span of) E52 Time-span</p> <p>E52 Time-span P78.F identifies (is identified by) E50 Date</p>
Range	4.4.6. Date of Publication/Distribution	E50 Date
Conditions		<i>Note: the FRBR model does not distinguish between the Date-as-Inscription (i.e., the mere statement of date as given on a document) and the Date-as-Time-Primitive, though in current practice in a computerized environment catalogers actually make this distinction.</i>

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	has attribute: 4.4.7. Fabricator/Manufacturer	<p>P137.F is exemplified by (exemplifies) E84 Information Carrier</p> <p>E84 Information Carrier P65.F shows visual item (is shown by) E34 Inscription</p> <p>E34 Inscription P2.F has type E55 Type (with value: "Fabricator/Manufacturer")</p>
Range	4.4.7. Fabricator/Manufacturer	E34 Inscription
Conditions		Besides, E34 Inscription P67.F refers to (is referred to by) E82 Actor

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		<p>Appellation E82 Actor Appellation P131.B identifies (is identified by) E39 Actor E39 Actor P11.B participated in (had participant) E12 Production Event E12 Production Event P108.F has produced (was produced by) E84 Information Carrier <i>Note: this is a mere transcription of the statement found on a document. The actual relationship between a document and a fabricator/manufacturer is modeled below, under 5.2.2.[3].</i></p>
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	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	has attribute: 4.4.8 Series Statement	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P65.F shows visual item (is shown by) E34 Inscription E34 Inscription P2.F has type E55 Type (with value: "Series statement")
Range	4.4.8 Series Statement	E34 Inscription
Conditions		<i>Note: this is a mere transcription of the statement found on a document. The actual relationship between a document and a series is [in my opinion, wrongly³] modeled below, under 5.3.1.1.</i>

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: Manifestation)
Link	has attribute: 4.4.9. Form of Carrier	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type E55 Type
Range	4.4.9. Form of Carrier	E55 Type (has type: Form of Carrier)
Conditions		with definition of a subset "Form of Carrier" within E55 Type with a limited range of possible values for E55 Type in that case: "sound cassette", "videodisc", "microfilm cartridge", "transparency"...

³ It should have been modeled, I think, under 5.3.4.1: "Whole/Part Manifestation-to-Manifestation Relationships", instead of 5.3.1.1: "Whole/Part Work-to-Work Relationships".

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	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	has attribute: 4.4.10. Extent of the Carrier	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P57.F has number of parts E60 Number
Range	4.4.10. Extent of the Carrier	E60 Number
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	has attribute: 4.4.11. Physical Medium	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P45.F consists of (is incorporated in) E57 Material
Range	4.4.11. Physical Medium	E57 Material
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: Manifestation)
Link	has attribute: 4.4.12. Capture Mode	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P108.B was produced by (has produced) E12 Production Event E12 Production Event P32.F used general technique (was technique of) E55 Type
Range	4.4.12. Capture Mode	E55 Type (has type: Capture Mode)
Conditions		with definition of a subset "Capture Mode" within E55 Type with a limited range of possible values for E55 Type in that case: "analogue", "acoustic", "electric", "digital", "optical"...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: Manifestation)
Link	has attribute: 4.4.13. Dimensions of the Carrier	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P43.F has dimension (is dimension of) E54 Dimension
Range	4.4.13. Dimensions of the Carrier	E54 Dimension
Conditions		

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	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information object (has type: "Manifestation")
Link	has attribute: 4.4.14. Manifestation Identifier	P1.F is identified by (identifies) E75 Conceptual Object Appellation
Range	4.4.14. Manifestation Identifier	E75 Conceptual Object Appellation
Conditions		Besides, E75 Conceptual Object Appellation P2.F has type (is type of) E55 Type, with a limited range of possible values for E55 Type in that case: "ISBN", "legal deposit number", "government publication number", "music publisher's number", "clearinghouse inventory number"...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation")
Link	has attribute: 4.4.15. Source for Acquisition/ Access Authorization	P105.F right held by (has right on) E39 Actor P105.1.F has type (is type of) E55 Type "Source for Acquisition/ Access Authorization" E39 Actor P131.F is identified by (identifies) E82 Actor Appellation
Range	4.4.15. Source for Acquisition/ Access Authorization	E82 Actor Appellation
Conditions	4.4.15. Source for Acquisition/ Access Authorization is defined in FRBR as including a name "and also normally an address". Each data element maps to CRM in a different way. Name:	

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation")
Link	has attribute: 4.4.15. Source for Acquisition/ Access Authorization	P105.F right held by (has right on) E39 Actor P105.1.F has type (is type of) E55 Type "Source for Acquisition/ Access Authorization" E39 Actor P76.F has contact point (provides access to) E51 Contact Point
Range	4.4.15. Source for Acquisition/ Access Authorization	E51 Contact Point
Conditions	4.4.15. Source for Acquisition/ Access Authorization is defined in FRBR as including a name "and also normally an address". Each data element maps to CRM in a different way. Address:	

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	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation")
Link	has attribute: 4.4.16. Terms of Availability	P104.F is subject to (applies to) E30 Right E30 Right P2.F has type (is type of) E55 Type "Terms of Availability"
Range	4.4.16. Terms of Availability	E30 Right
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation")
Link	has attribute: 4.4.17. Access Restrictions on the Manifestation	P104.F is subject to (applies to) E30 Right E30 Right P2.F has type (is type of) E55 Type "Access Restrictions on the Manifestation"
Range	4.4.17. Access Restrictions on the Manifestation	E30 Right
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Printed Book")
Link	has attribute: 4.4.18. Typeface (Printed Book)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P3.F has note E62 String P3.1.F has type: E55 Type "Typeface"
Range	4.4.18. Typeface (Printed Book)	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Printed Book")
Link	has attribute: 4.4.19. Type Size (Printed Book)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P3.F has note E62 String P3.1.F has type: E55 Type "Type Size"
Range	4.4.19. Type Size (Printed Book)	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Hand-Printed Book")
Link	has attribute: 4.4.20. Foliation (Hand-Printed Book)	P137.F is exemplified by (exemplifies) E84 Information Carrier

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		E84 Information Carrier P3.F has note E62 String P3.1.F has type: E55 Type "Foliation"
Range	4.4.20. Foliation (Hand-Printed Book)	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Hand-Printed Book")
Link	has attribute: 4.4.21. Collation (Hand-Printed Book)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P3.F has note E62 String P3.1.F has type: E55 Type "Collation"
Range	4.4.21. Collation (Hand-Printed Book)	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation") (has type: "Serial")
Link	has attribute: 4.4.22. Publication Status (Serial)	P2.F has type (is type of) E55 Type "Publication Status"
Range	4.4.22. Publication Status (Serial)	E55 Type (has type: "Publication Status")
Conditions		with only two possible values for E55 Type in that case: "currently published", "has ceased publication"

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Serial")
Link	has attribute: 4.4.23. Numbering (Serial)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P65.F shows visual item (is shown by) E34 Inscription (E34 Inscription P2.F has type (is type of) E55 Type "Numbering")
Range	4.4.23. Numbering (Serial)	E34 Inscription
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Sound Recording")
Link	has attribute: 4.4.24. Playing Speed (Sound Recording)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type "Playing

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		Speed”
Range	4.4.24. Playing Speed (Sound Recording)	E55 Type (has type: “Playing Speed”)
Conditions		with a limited range of possible values for E55 Type in that case: “33 1/3 rpm”, “19 cm/s”...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: “Manifestation”) (has type: “Sound Recording”)
Link	has attribute: 4.4.25. Groove Width (Sound Recording)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type “Groove Width”
Range	4.4.25. Groove Width (Sound Recording)	E55 Type (has type: “Groove Width”)
Conditions		with a limited range of possible values for E55 Type in that case: “microgroove”...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: “Manifestation”) (has type: “Sound Recording”)
Link	has attribute: 4.4.26. Kind of Cutting (Sound Recording)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type “Kind of Cutting”
Range	4.4.26. Kind of Cutting (Sound Recording)	E55 Type (has type: “Kind of Cutting”)
Conditions		with a limited range of possible values for E55 Type in that case: “lateral”, “vertical”...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: “Manifestation”) (has type: “Sound Recording”)
Link	has attribute: 4.4.27. Tape Configuration (Sound Recording)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type “Tape Configuration”
Range	4.4.27. Tape Configuration (Sound Recording)	E55 Type (has type: “Tape Configuration”)
Conditions		with a limited range of possible values for E55 Type in that case: “eight track”, “twelve track”...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: “Manifestation”) (has type: “Sound Recording”)
Link	has attribute: 4.4.28. Kind of Sound (Sound Recording)	P137.F is exemplified by (exemplifies) E84 Information Carrier

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		E84 Information Carrier P2.F has type (is type of) E55 Type "Kind of Sound"
Range	4.4.28. Kind of Sound (Sound Recording)	E55 Type (has type: "Kind of Sound")
Conditions		with a limited range of possible values for E55 Type in that case: "monaural", "stereophonic", "quadraphonic" ...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Sound Recording")
Link	has attribute: 4.4.29. Special Reproduction Characteristic (Sound Recording)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type "Special Reproduction Characteristic"
Range	4.4.29. Special Reproduction Characteristic (Sound Recording)	E55 Type (has type: "Special Reproduction Characteristic")
Conditions		with a limited range of possible values for E55 Type in that case: "NAB", "DBX", "Dolby" ...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Image" ⁴)
Link	has attribute: 4.4.30. Colour (Image)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type "Colour"
Range	4.4.30. Colour (Image)	E55 Type (has type: "Colour")
Conditions		with a limited range of possible values for E55 Type in that case: "black and white" ...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Microform")
Link	has attribute: 4.4.31. Reduction Ratio (Microform)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type "Reduction Ratio"
Range	4.4.31. Reduction Ratio (Microform)	E55 Type (has type: "Reduction Ratio")
Conditions		with a limited range of possible values for E55 Type in that case: "42x", "very high reduction" ...

⁴ This is not the same notion as E38 Image. "Image" is to be understood here as the (general) type of a (specific) type of information carriers. It refers to the "image-ness" of a set of physical supports all of which show the same conceptual E38 Image. Not easy to explain...

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	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Microform", or has type: "Visual Projection")
Link	has attribute: 4.4.32. Polarity (Microform or Visual Projection)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type "Polarity"
Range	4.4.32. Polarity (Microform or Visual Projection)	E55 Type (has type: "Polarity")
Conditions		with a limited range of possible values for E55 Type in that case: "positive", "negative", "mixed" ...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Microform", or has type: "Visual Projection")
Link	has attribute: 4.4.33. Generation (Microform or Visual Projection)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type "Generation"
Range	4.4.33. Generation (Microform or Visual Projection)	E55 Type (has type: "Generation")
Conditions		with a limited range of possible values for E55 Type in that case: "first generation camera master", "second generation printing master", "third generation service copy" ...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Visual Projection")
Link	has attribute: 4.4.34. Presentation format (Visual Projection)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type "Presentation format"
Range	4.4.34. Presentation format (Visual Projection)	E55 Type (has type: "Presentation format")
Conditions		with a limited range of possible values for E55 Type in that case: "wide screen", "Beta", "VHS" ...

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Electronic Resource")
Link	has attribute: 4.4.35. System Requirements (Electronic Resource)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P3.F has note E62 String

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		P3.1.F has type: E55 Type "System Requirements"
Range	4.4.35. System Requirements (Electronic Resource)	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation") (has type: "Electronic Resource")
Link	has attribute: 4.4.36. File Characteristics (Electronic Resource)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P3.F has note E62 String P3.1.F has type: E55 Type "File Characteristics"
Range	4.4.36. File Characteristics (Electronic Resource)	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation") (has type: "Remote Access Electronic Resource")
Link	has attribute: 4.4.37. Mode of Access (Remote Access Electronic Resource)	P3.F has note E62 String P3.1.F has type: E55 Type "Mode of Access"
Range	4.4.37. Mode of Access (Remote Access Electronic Resource)	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation") (has type: "Remote Access Electronic Resource")
Link	has attribute: 4.4.38. Access Address (Remote Access Electronic Resource)	P1.F is identified by (identifies) E75 Conceptual Object Appellation
Range	4.4.38. Access Address (Remote Access Electronic Resource)	E75 Conceptual Object Appellation
Conditions		

	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	has attribute: 4.5.1. Item identifier	P47.F is identified by (identifies) E42 Object identifier
Range	4.5.1. Item identifier	E42 Object identifier
Conditions		Besides, E42 Object Identifier P2.F has type (is type of) E55 Type, with a limited range of possible values for E55 Type in that case:

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		"call number", "accession number", "bar code"...
	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	has attribute: 4.5.2. Fingerprint	P47.F is identified by (identifies) E42 Object identifier
Range	4.5.2. Fingerprint	E42 Object identifier
Conditions		Besides, E42 Object Identifier P2.F has type (is type of) E55 Type: "Fingerprint"
	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	has attribute: 4.5.3. Provenance of the Item	P51.F has former or current owner (is former or current owner of) E39 Actor
Range	4.5.3. Provenance of the Item	E39 Actor
Conditions		
	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	has attribute: 4.5.4. Marks/Inscriptions	P65.F shows visual item (is shown by) E37 Mark
Range	4.5.4. Marks/Inscriptions	E37 Mark
Conditions		
	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	has attribute: 4.5.5. Exhibition history	P25.B moved by (moved) E9 Move E9 Move P3.F has note E62 String P3.1.F has type: E55 Type "Exhibition History"
Range	4.5.5. Exhibition history	E62 String
Conditions		
	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	has attribute: 4.5.6. Condition of the Item	P44.F has condition (is condition of) E3 Condition state
Range	4.5.6. Condition of the Item	E3 Condition state
Conditions		

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	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	has attribute: 4.5.7. Treatment History	P31.B was modified by (has modified) E11 Modification Event E11 Modification Event P3.F has note: E62 String P3.1.F has type: E55 Type "Treatment History"
Range	4.5.7. Treatment History	E62 String
Conditions		

	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	has attribute: 4.5.8. Scheduled treatment	P31.B was modified by (has modified) E11 Modification Event E11 Modification Event P3.F has note: E62 String P3.1.F has type: E55 Type "Scheduled treatment"
Range	4.5.8. Scheduled treatment	E62 String
Conditions		<i>Note:</i> though the property is expressed in past tense, the modification has not occurred yet: the information refers to future, planned treatment.

	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	has attribute: 4.5.9. Access Restrictions on the Item	P104.F is subject to (applies to) E30 Right (E30 Right P2.F has type (is type of): E55 "Access Restrictions")
Range	4.5.9. Access Restrictions on the Item	E30 Right
Conditions		

	Source: FRBR	CRM
Domain	3.2.5. Person	E21 Person
Link	has attribute: 4.6.1. Name of Person	P131.F is identified by (identifies) E82 Actor Appellation E82 Actor Appellation P3.F has note: E62 String P3.1.F has type: E55 Type "Name"
Range	4.6.1. Name of Person	E62 String
Conditions		<i>Note:</i> there is a logical flaw here in FRBR. FRBR only deals with bibliographic records, which do not give any information about persons as such, but only identify them through a "heading". A

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		<p>heading for a person is a construction consisting of the person's name, dates, title and other designation. There is a constant confusion in FRBR between things and their appellations/identifiers. The attributes for 3.2.5 Person in FRBR do <i>not</i> refer to the real person, but only to the person's "preferred identifier" in a bibliographic record. Data pertaining to the real person will be dealt with in FRANAR, which is not yet available. FRBR should have only one attribute for 3.2.5 Person: "Heading". This is the reason why I map "Dates of Person", "Title of Person", and "Other Designation Associated with the Person" to CRM E41 Appellation and not to other CRM entities that might seem more relevant.</p> <p><i>Alternative note: "name", "dates", "title of the person" and "other designation associated with the person" actually are parts of the person's appellation in the context of a bibliographic record; all these attributes should therefore preferably be modeled as parts of E82 Actor Appellation, but this is not possible as E82 Actor Appellation is neither a subclass of E4 Period nor of E73 Information Object nor of E18 Physical Stuff, that are the only classes (together with their subclasses, of course) that have a property that allows for a whole/part relationship. An extension to CRM would be required in that respect.</i></p>
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	Source: FRBR	CRM
Domain	3.2.5. Person	E21 Person
Link	has attribute: 4.6.2. Dates of Person	P131.F is identified by (identifies) E82 Actor Appellation E82 Actor Appellation P3.F has note: E62 String P3.1.F has type: E55 Type "Dates"
Range	4.6.2. Dates of Person	E62 String
Conditions		<u>See above.</u> "Name of Person"

	Source: FRBR	CRM
Domain	3.2.5. Person	E21 Person
Link	has attribute: 4.6.3. Title of Person	P131.F is identified by (identifies) E82 Actor Appellation E82 Actor Appellation P3.F has note: E62 String P3.1.F has type: E55 Type "Title"

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Range	4.6.3. Title of Person	E62 String
Conditions		<i>See above.</i> "Name of Person"

	Source: FRBR	CRM
Domain	3.2.5. Person	E21 Person
Link	has attribute: 4.6.4. Other Designation Associated with the Person	P131.F is identified by (identifies) E82 Actor Appellation E82 Actor Appellation P3.F has note: E62 String P3.1.F has type: E55 Type "Other Designation Associated with the Person"
Range	4.6.4. Other Designation Associated with the Person	E62 String
Conditions		<i>See above.</i> "Name of Person"

	Source: FRBR	CRM
Domain	3.2.6. Corporate Body	E74 Group
Link	has attribute: 4.7.1. Name of the Corporate Body	P1.F is identified by (identifies) E41 Appellation E41 Appellation P3.F has note: E62 String P3.1.F has type: E55 Type "Name"
Range	4.7.1. Name of the Corporate Body	E62 String
Conditions		<i>Note:</i> there is a logical flaw here in FRBR. FRBR only deals with <i>bibliographic</i> records, which do not give any information about <i>corporate bodies</i> as such, but only <i>identify</i> them through a "heading". A heading for a corporate body is a construction consisting of the corporate body's name, number, place, date, and other designation. There is a constant confusion in FRBR between things and their appellations/identifiers. The attributes for 3.2.6 Corporate Body in FRBR do <i>not</i> refer to the real corporate body, but only to the corporate body's "preferred identifier" in a bibliographic record. Data pertaining to the real corporate body will be dealt with in FRANAR, which is not yet available. FRBR should have only one attribute for 3.2.6 Corporate Body: "Heading". This is the reason why I map "Number Associated with the Corporate Body", "Place Associated with the Corporate Body", "Date Associated with the Corporate Body" and "Other Designation Associated with the Corporate Body" to CRM E41 Appellation and not to other CRM entities that might seem more relevant.

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		Alternative note: "number", "place" "date", and "other designation associated with the corporate body" actually are <i>parts</i> of the corporate body's appellation in the context of a bibliographic record; all these attributes should therefore preferably be modeled as parts of E82 Actor Appellation, but this is not possible as E82 Actor Appellation is neither a subclass of E4 Period nor of E73 Information Object nor of E18 Physical Stuff, that are the only classes (together with their subclasses, of course) that have a property that allows for a whole/part relationship. An extension to CRM would be required in that respect.
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	Source: FRBR	CRM
Domain	3.2.6. Corporate Body	E74 Group
Link	has attribute: 4.7.2. Number Associated with the Corporate Body	P1.F is identified by (identifies) E41 Appellation E41 Appellation P3.F has note: E62 String P3.1.F has type: E55 Type "Number Associated with the Corporate Body"
Range	4.7.2. Number Associated with the Corporate Body	E62 String
Conditions		<u>See above.</u> "Name of the Corporate Body"

	Source: FRBR	CRM
Domain	3.2.6. Corporate Body	E74 Group
Link	has attribute: 4.7.3. Place Associated with the Corporate Body	P1.F is identified by (identifies) E41 Appellation E41 Appellation P3.F has note: E62 String P3.1.F has type: E55 Type "Place Associated with the Corporate Body"
Range	4.7.3. Place Associated with the Corporate Body	E62 String
Conditions		<u>See above.</u> "Name of the Corporate Body"

	Source: FRBR	CRM
Domain	3.2.6. Corporate Body	E74 Group
Link	has attribute: 4.7.4. Date Associated with the Corporate Body	P1.F is identified by (identifies) E41 Appellation E41 Appellation P3.F has note: E62 String P3.1.F has type: E55 Type "Date Associated with the Corporate Body"

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Range	4.7.4. Date Associated with the Corporate Body	E62 String
Conditions		<i>See above.</i> "Name of the Corporate Body"

	Source: FRBR	CRM
Domain	3.2.6. Corporate Body	E74 Group
Link	has attribute: 4.7.5. Other Designation Associated with the Corporate Body	P1.F is identified by (identifies) E41 Appellation E41 Appellation P3.F has note: E62 String P3.1.F has type: E55 Type "Other Designation Associated with the Corporate Body"
Range	4.7.5. Other Designation Associated with the Corporate Body	E62 String
Conditions		<i>See above.</i> "Name of the Corporate Body"

	Source: FRBR	CRM
Domain	3.2.7. Concept	E28 Conceptual Object
Link	has attribute: 4.8.1. Term for the Concept	P1.F is identified by (identifies) E41 Appellation
Range	4.8.1. Term for the Concept	E41 Appellation
Conditions		

	Source: FRBR	CRM
Domain	3.2.8. Object	E19 Physical Object
Link	has attribute: 4.9.1. Term for the Object	P1.F is identified by (identifies) E41 Appellation
Range	4.9.1. Term for the Object	E41 Appellation
Conditions		

	Source: FRBR	CRM
Domain	3.2.9. Event	E4 Period
Link	has attribute: 4.10.1. Term for the Event	P1.F is identified by (identifies) E41 Appellation
Range	4.10.1. Term for the Event	E41 Appellation
Conditions		

	Source: FRBR	CRM
Domain	3.2.10. Place	E53 Place
Link	has attribute: 4.11.1. Term for the Place	P87.F is identified by (identifies) E48 Place name
Range	4.11.1. Term for the Place	E48 Place name
Conditions		

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	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Expression")
Link	5.2.1.[1]. is realized through (is a realization of)	P130.B features are also found on (shows features of) E73 Information Object (has type: "Expression") P130.1.F kind of similarity: E55 Type "Different version"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		<i>Note:</i> the very nature of the FRBR entity "Work" is actually analyzed as a relationship in CRM. CRM only recognizes FRBRExpression, not FRBRWork.

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.2.1.[2]. is embodied in (is the embodiment of)	P128.B is carried by (is carrier of) E84 Information Carrier E84 Information Carrier P2.F has type (is type of) E55 Type "Manifestation"
Range	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	5.2.1.[3]. is exemplified by (exemplifies)	P137.F is exemplified by (exemplifies) E84 Information Carrier
Range	3.2.4 Item	E84 Information Carrier
Conditions	Mapping of Manifestation as a Type:	

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation")
Link	5.2.1.[3]. is exemplified by (exemplifies)	P128.B is carried by (is carrier of) E84 Information Carrier
Range	3.2.4 Item	E84 Information Carrier
Conditions	Mapping of Manifestation as an Information Object:	

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Work")
Link	5.2.2.[1]. is created by (creates)	P94.B was created by (has created) E65 Creation Event E65 Creation Event P14.F carried out by (performed) E39 Actor

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		P14.1.F in the role of E55 Type
Range	3.1.2. Group 2 (3.2.5 Person or 3.2.6. Corporate Body)	E39 Actor
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.2.2.[2]. is realized by (realizes)	P94.B was created by (has created) E65 Creation Event E65 Creation Event P14.F carried out by (performed) E39 Actor P14.1.F in the role of E55 Type
Range	3.1.2. Group 2 (3.2.5 Person or 3.2.6. Corporate Body)	E39 Actor
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	5.2.2.[3]. is produced by (produces)	P137.F is exemplified by (exemplifies) E84 Information Carrier E84 Information Carrier P108.B was produced by (has produced) E12 Production Event E12 Production Event P14.F carried out by (performed) E39 Actor P14.1.F in the role of E55 Type
Range	3.1.2. Group 2 (3.2.5 Person or 3.2.6. Corporate Body)	E39 Actor
Conditions		<u>Alternative mapping:</u> E73 Information Object (has type: "Manifestation") P94.B was created by (has created) E65 Creation Event E65 Creation Event P14.F carried out by (performed) E39 Actor P14.1.F in the role of E55 Type

	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	5.2.2.[4]. is owned by (owns)	P51.F has former or current owner (is former or current owner of) E39 Actor
Range	3.1.2. Group 2 (3.2.5 Person or 3.2.6. Corporate Body)	E39 Actor
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Work")

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Link	5.2.3. has as subject (is subject of)	P129.F is about (is subject of)
Range	3.1.3. Group 3 (Group 1, Group 2, Concept, Object, Event, Place)	E1 CRM Entity
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Work")
Link	5.3.1.[a] has a successor (is a successor to)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Successor"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Work")
Link	5.3.1.[b] has a supplement (supplements)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Supplement"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Work")
Link	5.3.1.[c] has a complement (complements)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Complement"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Work")
Link	5.3.1.[d] has a summary (is a summary of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Summary"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

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	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Work")
Link	5.3.1.[e] has an adaptation (is an adaptation of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Adaptation"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Work")
Link	5.3.1.[f] has a transformation (is a transformation of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Transformation"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		<i>Note:</i> "Transformation" does not have the same meaning in FRBR and CRM. In CRM, "Transformation" is a subclass of both E64 End of Existence and E63 Beginning of Existence: a unique object "dies" and reappears as something else, another unique object. In FRBR, a Work can be "transformed" into something else, and remain available in its original form. It would therefore be inaccurate to map the FRBR relationship "has a transformation (is a transformation of)" to the CRM sequence E77 Persistent Item P124 was transformed by E81 Transformation P123.F resulted in E77 Persistent Item.

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Work")
Link	5.3.1.[g] has an imitation (is an imitation of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Imitation"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.1. Work	E73 Information Object (has type: "Work")

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Link	5.3.1.1.F has part (is part of)	P106.F is composed of (forms part of) E73 Information Object
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.[a] has an abridgement (is an abridgement of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Abridgement"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.[b] has a revision (is a revision of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Revision"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E33 Linguistic object
Link	5.3.2.[c] has a translation (is a translation of)	P73.F has translation (is translation of) E33 Linguistic object
Range	3.2.2. Expression	E33 Linguistic object
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.[d] has an arrangement (is an arrangement of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Arrangement"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		

	Source: FRBR	CRM
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Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.[e] has a successor (is a successor to)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Successor"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.[f] has a supplement (supplements)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Supplement"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.[g] has a complement (complements)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Complement"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.[h] has a summary (is a summary of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Summary"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.[i] has an adaptation (is an adaptation of)	P130.B features are also found on (shows features of) E73 Information Object

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		P130.1.F kind of similarity: E55 Type "Adaptation"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.[j] has a transformation (is a transformation of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Transformation"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		<i>Note:</i> "Transformation" does not have the same meaning in FRBR and CRM. In CRM, "Transformation" is a subclass of both E64 End of Existence and E63 Beginning of Existence: a unique object "dies" and reappears as something else, another unique object. In FRBR, an Expression can be "transformed" into something else, and yet remain available in its original form, on distinct carriers. It would therefore be inaccurate to map the FRBR relationship "has a transformation (is a transformation of)" to the CRM sequence E77 Persistent Item P124 was transformed by E81 Transformation P123.F resulted in E77 Persistent Item.

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.[k] has an imitation (is an imitation of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Imitation"
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.2.1.F has part (is a part of)	P106.F is composed of (forms part of) E73 Information object
Range	3.2.2. Expression	E73 Information Object (has type: "Expression")
Conditions		

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	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.3.[a] has a successor (is a successor to)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Successor"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.3.[b] has a supplement (supplements)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Supplement"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.3.[c] has a complement (complements)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Complement"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.3.[d] has a summary (is a summary of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Summary"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.3.[e] has an adaptation (is an adaptation of)	P130.B features are also found on (shows features of) E73 Information Object

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		Information Object P130.1.F kind of similarity: E55 Type "Adaptation"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.3.[f] has a transformation (is a transformation of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Transformation"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		<i>Note: "Transformation" does not have the same meaning in FRBR and CRM. In CRM, "Transformation" is a subclass of both E64 End of Existence and E63 Beginning of Existence: a unique object "dies" and reappears as something else, another unique object. In FRBR, an Expression can be "transformed" into something else, and yet remain available in its original form, on distinct carriers. It would therefore be inaccurate to map the FRBR relationship "has a transformation (is a transformation of)" to the CRM sequence E77 Persistent Item P124 was transformed by E81 Transformation P123.F resulted in E77 Persistent Item.</i>

	Source: FRBR	CRM
Domain	3.2.2. Expression	E73 Information Object (has type: "Expression")
Link	5.3.3.[g] has an imitation (is an imitation of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Imitation"
Range	3.2.1. Work	E73 Information Object (has type: "Work")
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	5.3.4.[a] has a reproduction (is a reproduction of)	P2.B is type of (has type) E84 Information Carrier E84 Information Carrier P108.B was produced by (has produced) E12 Production Event

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		E12 Production Event P125.F used general object (was used for) E55 Type (has type: "Manifestation") P125.1.F mode of use: E55 Type "Reproduction"
Range	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation")
Link	5.3.4.[b] has an alternate (is an alternate of)	P130.B features are also found on (shows features of) E73 Information Object P130.1.F kind of similarity: E55 Type "Alternate"
Range	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation")
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation")
Link	5.3.4.1.F has part (is part of)	P106.F is composed of (forms part of) E73 Information object
Range	3.2.3. Manifestation	E73 Information Object (has type: "Manifestation")
Conditions		

	Source: FRBR	CRM
Domain	3.2.3. Manifestation	E55 Type (has type: "Manifestation")
Link	5.3.5. is a reproduction of (has a reproduction)	P2.B is type of (has type) E84 Information Carrier E84 Information Carrier P108.B was produced by (has produced) E12 Production Event E12 Production Event P16.F used specific object (was used for) E84 Information Carrier P16.1.F mode of use: E62 String
Range	3.2.4. Item	E84 Information Carrier
Conditions		<i>Note:</i> range of subproperty "P16.1.F mode of use" could be E55 Type ("Reproduction") instead of E62 String in this particular case

	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	5.3.6.[a] has reconfiguration (is a reconfiguration of)	P111.B was added by (added) E79 Part Addition

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	5.3.6.[a].[1]. Bound with	E79 Part Addition P110.F added to (was augmented by) E84 Information Carrier
Range	3.2.4. Item	E84 Information Carrier
Conditions		Or: E84 Information Carrier P124.B was transformed by (transformed) E81 Transformation E81 Transformation P123.F resulted in (was result of) E84 Information Carrier

	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	5.3.6.[a] has reconfiguration (is a reconfiguration of) 5.3.6.[a].[2]. Split into (extracted from)	P112.B was diminished by (removed from) E80 Part Removal E80 Part Removal P113.F removed (was removed by) E84 Information Carrier
Range	3.2.4. Item	E84 Information Carrier
Conditions		Or: E84 Information Carrier P124.B was transformed by (transformed) E81 Transformation E81 Transformation P123.F resulted in (was result of) E84 Information Carrier

	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	5.3.6.[b]. has reproduction (is a reproduction of)	P108.B was produced by (has produced) E12 Production Event E12 Production Event P16.F used specific object (was used for) E84 Information Carrier P16.1.F mode of use: E62 String
Range	3.2.4. Item	E84 Information Carrier
Conditions		<i>Note:</i> range of subproperty "P16.1.F mode of use" could be E55 Type ("Reproduction") instead of E62 String in this particular case

	Source: FRBR	CRM
Domain	3.2.4. Item	E84 Information Carrier
Link	5.3.6.1.F has part (is part of)	P46.F is composed of (forms part of)
Range	3.2.4. Item	E84 Information Carrier

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Conditions		
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