LRMer to LRMoo mapping

After CRM41

# Entities

| **LRM ID** | **LRM Name** | **LRM Definition** | **Mapping** | **Validation** |
| --- | --- | --- | --- | --- |
| LRM-E1 | Res | Any entity in the universe of discourse  | E1 CRM Entity | CIDOC-CRM 39 |
| LRM-E2  | Work | The intellectual or artistic content of a distinct creation  | F1 Work | CIDOC-CRM 39 |
| F16 Container work | Discussion pending. |
| F18 Serial work | Discussion pending. |
| F19 Publication work | Discussion pending. |
| F20 Performance work | Discussion pending. |
| LRM-E3 | Expression | A distinct combination of signs conveying intellectual or artistic content | F2 Expression | CIDOC-CRM 39 |
| F26 Recording | Discussion pending. |
| F25 Performance plan | Discussion pending. |
| LRM-E4 | Manifestation | A set of all carriers that are assumed to share the same characteristics as to intellectual or artistic content and aspects of physical form. That set is defined by both the overall content and the production plan for its carrier or carriers | F3 Manifestation | CIDOC-CRM 40 |
| LRM-E5 | Item | An object or objects carrying signs intended to convey intellectual or artistic content | F5 Item | CIDOC-CRM 41 |
| LRM-E6 | Agent | An entity capable of deliberate actions, of being granted rights, and of being held accountable for its actions | E39 Actor | CIDOC-CRM 39 |
| LRM-E7 | Person | An individual human being | E21 Person | CIDOC-CRM 39 |
| LRM-E8 | Collective Agent | A gathering or organization of *persons* bearing a particular name and capable of acting as a unit  | Fxx Collective Agent | CIDOC-CRM 41 |
| LRM-E9 | Nomen | An association between an entity and a designation that refers to it | F12 Nomen | CIDOC-CRM 41 |
| LRM-E10 | Place | A given extent of space | E53 Place | CIDOC-CRM 39 |
| LRM-E11 | Time-span | A temporal extent having a beginning, an end and a duration | E52 Time-span | CIDOC-CRM 39 |

# Attributes

| **LRM ID** | **LRM Entity** | **LRM Name** | **LRM Definition** | **Condition** | **Mapping** | **Validation** |
| --- | --- | --- | --- | --- | --- | --- |
| LRM-E1-A1 | Res | Category | A type to which the res belongs |  | E1 CRM Entity. P2 has type: E55 Type {Res:Category} | CIDOC-CRM 39 |
| LRM-E1-A2 | Res | Note | Any kind of information about a res that is not recorded through the use of specific attributes and/or relationships |  | E1 CRM Entity. P3 has note: E62 String | CIDOC-CRM 39 |
| LRM-E2-A1 | Work | Category | A type to which the work belongs |  | F1 Work. P2 has type: E55 Type {Work:Category} | CIDOC-CRM 39 |
| LRM-E2-A2 | Work | Representative expression attribute | An attribute which is deemed essential in characterizing the work and whose values are taken from a representative or canonical expression of the work  |  | F1 Work. R50i was assigned by: F42 Representative Expression Assignment. Rn declared aspect: E55 Type {Aspect} | CIDOC-CRM 41 |
| LRM-E3-A1 | Expression | Category | A type to which the expression belongs |  | F2 Expression. P2 has type: E55 Type {Expression:Category} | CIDOC-CRM 39 |
| LRM-E3-A2 | Expression | Extent | A quantification of the extent of the expression  |  | F2 Expression. P43 has dimension: E54 Dimension | CIDOC-CRM 39 |
| LRM-E3-A3 | Expression | Intended audience | A class of users for which the expression is intended |  | -F2 Expression. P101 has a general use: E55 Type {Personal characteristic}-F2 Expression. P103 was intended for: E55 Type {Personal characteristic}-F2 Expression. Rxx intended for: E21 Person. P2 has type: E55 Type {Personal characteristic} | Proposal: P101 (from E70 Thing to E55 Type)??Proposal: P103 was intended for (from E71 Man-Made Thing to E55 Type)??Would like to include E21 Person somehow |
| LRM-E3-A4 | Expression | Use rights | A class of use restrictions to which the expression is submitted  |  | F2 Expression. P104 is subject to: E30 Right | CIDOC-CRM 39 |
| LRM-E3-A5 | Expression | Cartographic scale | A ratio of distances in a cartographic expression to the actual distances they represent |  | F2 Expression (instantiated as E36 Visual Item). P2 has type: E55 Type {Cartographic image}. P138 represents {P138.1 has type E55 Type = “scale”}: E52 Place  | CIDOC-CRM 39 |
| LRM-E3-A6 | Expression | Language | A language used in the expression  |  | F2 Expression (instantiated as E33 Linguistic Object). P72 has language: E56 Language | CIDOC-CRM 39 |
| LRM-E3-A7 | Expression | Key | A pitch structure (musical scale, ecclesiastic mode, raga, maqam, etc.), that characterizes the expression |  | F2 Expression. P2 has type: E55 Type {Key} | Discussion pending. |
| LRM-E3-A8 | Expression | Medium of performance | A combination of performing tools (voices, instruments, ensembles, etc.) stated, intended, or actually used in the expression  | if musical notation or recorded sound | F2 Expression. P2 has type: E55 Type {Medium of performance} | Discussion pending. |
| if recorded sound | F26 Recording. R21i was created through: F29 Recording Event. R20 recorded: F31 Performance. P125 used object of type: E55 Type {Medium of performance} | Discussion pending. |
| if musical notation | F2 Expression. P103 was intended for: E55 Type {being performed on medium of performance [insert here relevant name for a type of voice or instrument]} | CIDOC-CRM 39 |
| LRM-E4-A1 | Manifestation | Category of carrier | A type of material to which all physical carriers of the manifestation are assumed to belong |  | F3 Manifestation. CLP2 should have type: E55 Type {Category of carrier} | CIDOC-CRM 39 |
| LRM-E4-A2 | Manifestation | Extent | A quantification of the extent observed on a physical carrier of the manifestation and assumed to be observable on all other physical carriers of the manifestation as well |  | F3 Manifestation. P3 has note {P3.1 has type: E55 Type = “Extent of the carrier”}: E62 String | CIDOC-CRM 39 |
|  | F3 Manifestation. CLP57 should have number of parts: E60 Number | CIDOC-CRM 39 |
| LRM-E4-A3 | Manifestation | Intended audience | A class of users for which the physical carriers of the manifestation are intended |  | (similar to those under Expression, if valid) |  |
| LRM-E4-A4 | Manifestation | Manifestation statement | A statement appearing in exemplars of the manifestation and deemed to be significant for users to understand how the resource represents itself |  | F3 Manifestation. P3 has note. P3.1 has type {manifestation statement} | CIDOC-CRM 40 |
| LRM-E4-A5 | Manifestation | Access conditions | Information as to how any of the carriers of the manifestation are likely to be obtained  | descriptive form | F3 Manifestation. P3 has note {P3.1 has type E55 Type = “Access conditions”}: E62 String | CIDOC-CRM 40 |
| LRM-E4-A6 | Manifestation | Use rights | A class of use and/or access restrictions to which all carriers of the manifestation are assumed to be submitted |  | F3 Manifestation. P104 is subject to: E30 Right |  |
| LRM-E5-A1 | Item | Location | The collection and/or institution in which the item is held, stored, or made available for access | If normal shelf location | F5 Item. P54 has permanent location: E53 Place | CIDOC-CRM 39 |
| If collection documented | F5 Item. P46i forms part of: E78 Collection | CIDOC-CRM 40 |
| If institution documented | F5 Item. P50 has current keeper: E39 Actor | CIDOC-CRM 40 |
| LRM-E5-A2 | Item | Use rights | A class of use and/or access restrictions to which the item is submitted |  | F5 Item. P104 is subject to: E30 Right | CIDOC-CRM 39 |
| LRM-E6-A1 | Agent | Contact information | Information useful for communicating with or getting in contact with the agent |  | E39 Actor. P76 has contact point: E51 Contact Point | CIDOC-CRM 39 |
| LRM-E6-A2 | Agent | Field of activity | A field of endeavour, area of expertise, etc., in which the agent is engaged or was engaged |  | E39 Actor. P14i performed: F51 Pursuit. P2 has type: E55 Type | CIDOC-CRM 39 |
|  | E39 Actor. P14i performed: F51 Pursuit. R59 had typical subject: E1 CRM Entity | CIDOC-CRM 39 |
| LRM-E6-A3 | Agent | Language | A language used by the agent when creating an expression |  | E39 Actor. P14 carried out (P14.1 in the role of: E55 Type = “creator”} F28 Expression Creation. R17 created: F2 Expression (instantiated as E33 Linguistic Object). P72 has language: E56 Language | CIDOC-CRM 39 |
| LRM-E7-A1 | Person | Profession/Occupation | A profession or occupation in which the person works or worked |  | E21 Person. P2 has type: E55 Type | CIDOC-CRM 39 |
|  | E21 Person. P14i performed {P14.1 in the role of: E55 Type}: F51 Pursuit. P2 has type: E55 Type | CIDOC-CRM 39 |
| LRM-E9-A1 | Nomen | Category | A type to which the nomen belongsa) the type of thing namedB) the source in which the nomen is attestedc) the function of the nomen |  | F12 Nomen. P2 has type: E55 Type {Nomen:Category} | CIDOC-CRM 40 |
| LRM-E9-A2 | Nomen | Nomen string | The combination of signs that forms an appellation associated with an entity through the nomen |  | F12 Nomen. R37 states as nomen: E41 Appellation. R33 has content {R33.1 has encoding E55 Type}: E62 String | CIDOC-CRM 41: to be revised as R33 moving to CRMbase |
| LRM-E9-A3 | Nomen | Scheme | The scheme in which the nomen is established |  | F12 Nomen. R35 is specified by: F34 KOS | CIDOC-CRM 41: to be revised |
| LRM-E9-A4 | Nomen | Intended audience | A class of users for which the nomen is considered appropriate or preferred |  | F12 Nomen. R37i is stated as nomen in: F35 Nomen Use Statement. R39 is intended for: E74 Group | CIDOC-CRM 41: LRM-E9 = F12 Nomen.PR : Problem with R39, E74 isn't good as a target audience |
| LRM-E9-A5 | Nomen | Context of use | Information as to the context(s) in which a nomen is used by the agent who is referred to through it |  | F12 Nomen. R37i is stated as nomen in: F35 Nomen Use Statement. R32 is warranted by. F52 Name Use Activity. R61occurred in kind of context: E55 Type | CIDOC-CRM 40 |
| LRM-E9-A6 | Nomen | Reference source | A source in which there is evidence for the use of the nomen |  | F12 Nomen. R37i is stated as nomen in: F35 Nomen Use Statement. R32 is warranted by: F52 Name Use Activity. P70i documented in: E31 Document | CIDOC-CRM 40 |
| LRM-E9-A7 | Nomen | Language | The language in which the nomen is attested |  | F12 Nomen. R37i is stated as nomen in: F35 Nomen Use Statement. R37 states as nomen: E41 Appellation (instantiated as E33 Linguistic Object). R54 has nomen language: E56 Language | CIDOC-CRM 40(simplify?) |
| LRM-E9-A8 | Nomen | Script | The script in which the nomen is notated |  | F12 Nomen. R37i is stated as nomen in: F35 Nomen Use Statement. R37 states as nomen. E41 Appellation. P2 has type: E55 Type | CIDOC-CRM 40(simplify?) |
| LRM-E9-A9 | Nomen | Script conversion | The rule, system, or standard that was used to create a nomen that is derived on the basis of another, distinct nomen notated in another, distinct script |  | F12 Nomen. R37i is stated as nomen in: F35 Nomen Use Statement. R36 uses script conversion: F36 Script Conversion | CIDOC-CRM 40 |
| LRM-E10-A1 | Place | Category | A type to which the place belongs |  | E53 Place. P2 has type: E55 Type {Place:Category} | CIDOC-CRM 39 |
| LRM-E10-A2 | Place | Location | A delimitation of the physical territory of the place |  | E53 Place. P168 is defined by: E94 Space Primitive | CIDOC-CRM 39 |
| LRM-E11-A1 | Time-span | Beginning | A value for the time at which the time- span started, expressed in a precise way in an authoritative external system to allow temporal positioning of events |  | E52 Time-Span. P82a begin of the begin: E61 Time Primitive/xsd:DateTime | CIDOC-CRM 40 |
| LRM-E11-A2 | Time-span | Ending | A value for the time at which the time- span ended, expressed in a precise way in an authoritative external system to allow temporal positioning of events |  | E52 Time-Span. P82b end of the end: E61 Time Primitive/xsd:DateTime | CIDOC-CRM 40 |

# Relationships

| **LRM ID** | **LRM Domain** | **Name (inverse name)** | **LRM Range** | **Definition** | **Condition** | **Mapping** | **Validation** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| LRM-R1 | Res | is associated with (is associated with) | Res | This relationship links two res that have an association of any kind |  | no mapping | CIDOC-CRM 40 |
| LRM-R2 | Work | is realized through (realizes) | Expression | This relationship links a work with any of the expressions which convey the same intellectual or artistic content |  | F1 Work. R3 is realized in: F2 Expression | CIDOC-CRM 40 |
| LRM-R3 | Expression | is embodied in (embodies) | Manifestation | This relationship links an expression with a manifestation in which the expression appears |  | F3 Manifestation IsA F2 Expression | CIDOC-CRM 41: F2 Expression and F3 Manifestation are not disjoint. |
| LRM-R4 | Manifestation | is exemplified by (exemplifies) | Item | This relationship connects a manifestation with any item that reflects the characteristics of that manifestation  |  | F3 Manifestation. R7i has materialization: F5 Item | CIDOC-CRM 41 |
| LRM-R5 | Work | was created by (created) | Agent | This relationship links a work to an agent responsible for the creation of the intellectual or artistic content |  | F1 Work. R16i was initiated by: F27 Work Conception. P14 carried out by {P14.1 in the role of: E55 Type = “creator”}: E39 Actor | Conditions to be written out by Martin Doerr |
| LRM-R6 | Expression | was created by (created) | Agent | This relationship links an expression to an agent responsible for the realization of a work |  | F2 Expression. R17i was created by: F28 Expression Creation. P14 carried out by {P14.1 in the role of: E55 Type = “creator”}: E39 Actor | CIDOC-CRM 39 |
| LRM-R7 | Manifestation | was created by (created)  | Agent | This relationship links a manifestation to an agent responsible for creating the manifestation | Published manifestation | F3 Manifestation. R24i was created through: F30 Publication Event. P14 carried out by: E39 Actor | CIDOC-CRM 40(need another mapping for creation of an unpublished manifestation) |
| LRM-R8 | Manifestation | was manufactured by (manufactured) | Agent | This relationship links a manifestation to an agent responsible for the fabrication, production or manufacture of the items of that manifestation  |  | F3 Manifestation. R27i was used by: F32 Carrier Production Event. P14 carried out by: E39 Actor | CIDOC-CRM 40 |
| LRM-R9 | Manifestation | is distributed by (distributes) | Agent | This relationship links a manifestation to an agent responsible for making items of that manifestation available |  | F3 Manifestation. P104 is subject to: E30 Right. P2 has type: E55 Type {“distribution”} P75i is possessed by: E39 Actor | Discussion pending : Model for services.  |
| LRM-R10 | Item | is owned by (owns) | Agent | This relationship links an item to an agent that is or was the owner or custodian of that item |  | F5 Item. P51 has former or current owner: E39 Actor | CIDOC-CRM 39 |
|  | F5 Item. P50 has current keeper: E39 Actor | CIDOC CRM 39 |
| LRM-R11 | Item | was modified by (modified) | Agent | This relationship links an item to an agent that made changes to this particular item without creating a new manifestation |  | F5 Item. P31i was modified by: E11 Modification. P14 carried out by: E39 Actor. | CIDOC-CRM 40 |
| LRM-R12 | Work | has as subject (is subject of) | Res | This relationship links a work to its topic(s) |  | F1 Work. P129i is about: E1 CRM Entity | CIDOC-CRM 39 |
| LRM-R13 | Res | has appellation (is appellation of) | Nomen | This relationship links an entity with a sign or combination of signs or symbols through which that entity is referred to within a given scheme or context |  | E1 CRM Entity. P38i is thema of: F35 Nomen Use Statement. R37 states as nomen: F12 Nomen | CIDOC-CRM 40 |
| Shortcut | E1 CRM Entity. P1 is identified by: E41 Appellation | CIDOC-CRM 40 |
| LRM-R14 | Agent | assigned (was assigned by) | Nomen | This relationship links an agent with a particular nomen that was assigned by this agent |  | E39 Actor. P14i performed: E65 Creation Event. P94 created: F35 Nomen Use Statement. R37 states as nomen: F12 Nomen | CIDOC-CRM 40 |
| Shortcut | F35 Name Use Statement | CIDOC-CRM 40(incomplete) |
| Shortcut | F52 Nomen Use Activity | CIDOC-CRM 40(incomplete) |
| LRM-R15 | Nomen | is equivalent to (is equivalent to) | Nomen | This is the relationship between two nomens which are appellations of the same res |  | F12 Nomen. R56 has related use {R56.1 has type E55 Type = “equivalence”}: F12 Nomen | CIDOC-CRM 41 |
| LRM-R17 | Nomen | is derivation of (has derivation) | Nomen | This relationship indicates that one nomen was used as the basis for another nomen, both of which are appellations of the same res |  | F12 Nomen. P142 used constituent: F12 Nomen | CIDOC-CRM 41: not true anymore. F12 ≠ subclass of E41 |
| LRM-R18 | Work | has part (is part of) | Work | This is the relationship between two works, where the content of one is a component of the other |  | F1 Work. Rxx has part: F1 Work | CIDOC-CRM 41 |
| LRM-R19 | Work | precedes (succeeds) | Work | This is the relationship of two works where the content of the second is a logical continuation of the first |  | F1 Work. R1i has successor: F1 Work | CIDOC CRM 39 |
| LRM-R20 | Work | accompanies/complements (is accompanied/complemented by) | Work | This is the relationship between two works which are independent, but can also be used in conjunction with each other as complements or companions | Related to | F1 Work. P16 used specific object: F1 Work | Find a mapping that expresses the intention to be used together |
| LRM-R21 | Work | is inspiration for (is inspired by) | Work | This is the relationship between two works where the content of the first served as the source of ideas for the second |  | F1 Work. R16i was initiated by: R27 Work Conception. P15 was influenced by: F1 Work | Create a Rn in LRMoo to make the shortcut : was influenced by |
| LRM-R22 | Work | is a transformation of (was transformed into) | Work | This relationship indicates that a new work was created by changing the scope or editorial policy (as in a serial or aggregating work), the genre or literary form (dramatization, novelization), target audience (adaptation for children), or style (paraphrase, imitation, parody) of a previous work |  | F1 Work. R2 is derivative of {R2.1 has type E55 Type = Transformation}: F1 Work | CIDOC-CRM 39 |
| LRM-R23 | Expression | has part (is part of) | Expression | This is a relationship between two expressions where one is a component of the other |  | F2 Expression. R5 has component: F2 Expression | CIDOC-CRM 40 |
| LRM-R24 | Expression | is derivation of (has derivation) | Expression | This relationship indicates that of two expressions of the same work, the second was used as the source for the other |  | F2 Expression. R17i was created by: F28 Expression Creation. P16 used specific object: F2 Expression | CIDOC-CRM 39Derivation chain |
| LRM-R25 | Expression | was aggregated by (aggregated) | Expression | This relationship indicates that a specific expression of a work was chosen as part of the plan of an aggregating expression |  | F2 Expression. P165i is incorporated in: F2 Expression | Discussion pending |
| LRM-R26 | Manifestation | has part (is part of) | Manifestation | This is a relationship between two manifestations where one is a component of the other |  | F3 Manifestation. CLP46 should be composed of: F3 Manifestation | CIDOC CRM 39 |
| LRM-R27 | Manifestation | has reproduction (is reproduction of) | Manifestation | This is the relationship between two manifestations providing the end-user with exactly the same content and where an earlier manifestation has provided a source for the creation of a subsequent manifestation, such as facsimiles, reproductions, reprints, and reissues | [generic case] | F3 Manifestation. P130i features are also found on {P130.1 kind of similarity: E55 Type = “Reproduction”}: F3 Manifestation | Discussion pending |
|  |  |  |  |  | [from F3 to F3] | F3 Manifestation. P125 was type of object used in: F33 Reproduction Event. R30 produced: E84 Information Carrier. P128 carries: E90 Symbolic Object. P165i is incorporated in: F3 Manifestation | Discussion pending |
| LRM-R28 | Item | has reproduction (is reproduction of) | Manifestation | This is the relationship between an item of one manifestation and another manifestation providing the end-user with exactly the same content and where a specific item has provided a source for the creation of a subsequent manifestation | From F5 to F3 | F5 Item. R29i was reproduced by: F33 Reproduction Event. R30 produced: F3 Manifestation F3 | CIDOC-CRM 39 |
| Generic case | F5 Item. P130i features are also found on {P130.1 kind of similarity: E55 Type = “Reproduction”}: F3 Manifestation | Discussion pending |
| LRM-R29 | Manifestation | has alternate (has alternate) | Manifestation |  |  |  | This relationship involves manifestations that effectively serve as alternatives for each other |
|  | PXX has alternateincorporates Expression incorporated by Manifestation | CRM40 : needs a formulation for intended use (an equivalence relationship) |
| LRM-R30 | Agent | is member of (has member) | Collective Agent | This a relationship between an agent and a collective agent that the agent joined as a member |  | E39 Actor. P107i is current or former member of: Fxx Collective Agent | CIDOC-CRM 41 |
| LRM-R31 | Collective Agent | has part (is part of) | Collective Agent | This is a relationship between two collective agents where one is a component of the other  |  | Fxx Collective Agent. P107 has current or former member: Fxx Collective agent | CIDOC-CRM 41 |
| LRM-R32 | Collective Agent | precedes (succeeds) | Collective Agent | This is a relationship between two collective agents where the first was transformed into the second |  | Fxx Collective Agent. P124i was transformed by: E81 Transformation. P123 resulted in: Fxx Collective Agent | CIDOC-CRM 41 |
| LRM-R33 | Res | has association with (is associated with) | Place | This relationship links any entity with a given extent of space |  | no mapping | CIDOC-CRM 40 |
| LRM-R34 | Place | has part (is part of) | Place | This is a relationship between two places where one is a component of the other |  | E53 Place. P172 contains: E53 Place | CIDOC CRM 39 |
| LRM-R35 | Res | has association with (is associated with) | Time-span | This relationship links any entity with a temporal extent |  | no mapping | CIDOC-CRM 40 |
| LRM-R36 | Time-span | has part (is part of) | Time-span | This is a relationship between two time-spans where one is a component of the other |  | E52 Time-Span. P86i contains: E52 Time-Span | CIDOC CRM 39 |