|  |  |
| --- | --- |
| <Image of CRM extension logo> |  |

|  |
| --- |
| **Definition of the <extension name>**  <A sentence describing the scope> |

<Proposal for approval by the CIDOC CRM-SIG>

<Approved by the CIDOC CRM-SIG>

Version <x.x>

<Month Year>

Currently maintained by <maintainer>

Contributors: <names of maintainers>

<License information>

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# Introduction

This document describes work which uses and extends the CIDOC Conceptual Reference Model (CRM, ISO21127). The CIDOC-CRM definition document should be read before this document. References to the CIDOC-CRM in this document are taken from CIDOC-CRM version x.x.x maintained by CIDOC.

## Scope

## **Status**

# < E**xtension name**> class hierarchy, aligned with portions from the <other **extension name(s)**> and the CIDOC-CRM class hierarchies

This class hierarchy lists:

* all classes declared in <extension name>
* all classes declared in <other extension name(s)> version <other extension(s) version> and CIDOC-CRM version <x.x.x> that are declared as superclasses of classes declared in the <extension name>,
* all classes declared in <other extension name(s)> version <other extension(s) version> or CIDOC-CRM version <x.x.x> that are either domain or range for a property declared in the <extension name>,
* all classes declared in <other extension name(s)> version <other extension(s) version> and CIDOC-CRM version <x.x.x> that are either domain or range for a property declared in <other extension name(s)> version <other extension(s) version> or CIDOC CRM version <x.x.x> that is declared as superproperty of a property declared in the <Current Family model>,
* all classes declared in <other extension name(s)> version <other extension(s) version> and CIDOC-CRM version <x.x.x> that are either domain or range for a property that is part of a complete path of which a property declared in <extension name> is declared to be a shortcut.

Table 1: Class Hierarchy

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
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## List of external classes used in <**extension name**>

Table 2: List of external classes grouped by *m*odel and ordered by *m*odel (exception: CRMbase always goes first) and then by *c*lass identifier.

|  |  |  |  |
| --- | --- | --- | --- |
| Class identifier | Class **name** | Model | Version |
|  |  |  |  |
|  |  |  |  |

# <**Extension** name> property hierarchy, aligned with portions from the <other extension name(s)> and the CIDOC-CRM property hierarchies

This property hierarchy lists:

* all properties declared in <extension name>,
* all properties declared in <other extension name(s)> version <other extension(s) version>, and CIDOC-CRM version <x.x.x> that are declared as superproperties of properties declared in <extension name>,
* all properties declared in <other extension name(s)> version <other extension(s) version> and CIDOC-CRM version <x.x.x> that are part of a complete path of which a property declared in <extension name>, is declared to be a shortcut.

Table 3: Property Hierarchy

|  |  |  |  |
| --- | --- | --- | --- |
| **Property id** | **Property Name** | **Entity – Domain** | **Entity - Range** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## List of external properties used in <**extension name**>

Table 4: List of external *properties* grouped by *m*odel and ordered by *m*odel (exception: CRMbase always goes first) and then by *property* identifier.

|  |  |  |  |
| --- | --- | --- | --- |
| **Property** identifier | **Property name** | Model | Version |
|  |  |  |  |
|  |  |  |  |

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# **<Extension name>** Class Declarations

E1 CRM Entity

Superclass of:

[E2](#_toc7310) Temporal Entity

[E52](#_toc8096) Time-Span

[E53](#_toc8120) Place

[E54](#_toc8144) Dimension

[E59](#_toc8245) Primitive Value

[E77](#_toc8533) Persistent Item

[E92](#_toc8723) Spacetime Volume

Scope note:

This class comprises all things in the universe of discourse of the CIDOC Conceptual Reference Model.

It is an abstract concept providing for three general properties:

* Identification by name or appellation, and in particular by a preferred identifier
* Classification by type, allowing further refinement of the specific subclass an instance belongs to
* Attachment of free text and other unstructured data for the expression of anything not captured by formal properties

All other classes within the CIDOC CRM are directly or indirectly specialisations of E1 CRM Entity.

Examples:

* the earthquake in Lisbon 1755 (E5) (Chester, 2001)

In First Order Logic:

E1(x)

Properties:

[P1](#_toc8872) is identified by (identifies): [E41](#_toc8039) Appellation

[P2](#_toc8894) has type (is type of): [E55](#_toc8169) Type

[P3](#_toc8915) has note: [E62](#_toc8298) String

(P3.1 has type: [E55](#_toc8169) Type)

[P48](#_toc9718) has preferred identifier (is preferred identifier of): [E42](#_toc8076) Identifier

[P137](#_toc10996) exemplifies (is exemplified by): [E55](#_toc8169) Type

(P137.1 in the taxonomic role: [E55](#_toc8169) Type)

# **<Extension name>** Property Declarations

P1 is identified by (identifies)

Domain:

[E1](#_toc7281) CRM Entity

Range:

[E41](#_toc8039) Appellation

Superproperty of:

[E1](#_toc7281) CRM Entity. [P48](#_toc9718) has preferred identifier (is preferred identifier of): [E42](#_toc8076) Identifier

[E71](#_toc8431) Human-Made Thing. [P102](#_toc10481) has title (is title of): [E35](#_toc7971) Title

[E53](#_toc8104) Place. [P168](#_toc11405) place is defined by (defines place): [E94](#_toc8709) Space Primitive

[E95](#_toc8725) Spacetime Primitive. [P169](#_toc11428)i spacetime volume is defined by: [E92](#_toc8670) Spacetime Volume

[E61](#_heading=h.meukdy) Time Primitive. [P170](#_toc11444)i time is defined by: [E52](#_toc8080) Time Span

Quantification:

many to many (0,n:0,n)

Scope note:

This property describes the naming or identification of any real-world item by a name or any other identifier.

This property is intended for identifiers in general use, which form part of the world the model intends to describe, and not merely for internal database identifiers which are specific to a technical system, unless these latter also have a more general use outside the technical context. This property includes in particular identification by mathematical expressions such as coordinate systems used for the identification of instances of E53 Place. The property does not reveal anything about when, where and by whom this identifier was used. A more detailed representation can be made using the fully developed (i.e., indirect) path through E15 Identifier Assignment.

This property is a shortcut for the path from E1 CRM Entity through *P140i was attributed by*, E15 Identifier Assignment, *P37 assigned* toE42 Identifier.

It is also a shortcut for the path from E1 CRM Entity through *P1 is identified by*, E41 Appellation, *P139 has alternative form* to E41 Appellation.

Examples:

* The capital of Italy (E53) *is identified by* “Rome” (E41). (Leach, 2017)
* Text 25014–32 (E33) *is identified by* “The Decline and Fall of the Roman Empire” (E35). (Gibbon, 2013)

In First Order Logic:

P1(x,y) ⇒ E1(x)

P1(x,y) ⇒ E41(y)

P1(x,y) ⇐ (∃z) [E15(z)˄ P140i(x,z) ˄ P37(z,y)]

P1(x,y) ⇐ (∃z) [E41(z)˄ P1(x,z) ˄ P139(z,y)]

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# Amendments

## Class xx

1. In the CRM-SIG meeting xxx , the class xx changed FROM:
2. Class xx
3. …………………
4. TO:
5. Class xx
6. …………………