

51st joint meeting of the CIDOC CRM SIG 12-15 October Elias Tzortzakakis (tzortzakakis forth.gr)







# **Encodings column**



Encodings column in <a href="http://www.cidoc-crm.org/versions-of-the-cidoc-crm">http://www.cidoc-crm.org/versions-of-the-cidoc-crm</a> includes links for:

- RDFs:
  - <u>repository link</u> (currently just the latest version)
- XML
  - machine-readable form of classes and properties declarations
- Classes & Properties declarations
  - Html representation of official declarations (all versions)
- Classes & Properties Translations & Versioning
  - Html representation of official declarations, most recent translations, and version change detection across (all versions)







## **XML**

- Available for all versions including only Classes and Properties declarations
- Extracted from the corresponding official Word document
- Suitable for transformation in any other format
- Latest version follows a simple <u>DTD schema</u>
- Html code is used for descriptive texts such as scope note, examples etc.
- Images are included in Base64 format
- example link for <u>7.1.1</u>

```
<fullName>E1 CRM Entity</fullName>
   <className>CRM Entity</className>
   <scopeNote>This class comprises all things in the universe of discourse of the CIDOC Co.
   by a preferred identifierClassification by type, allowing further refinement of t
  propertiesAll other classes within the CIDOC CRM are directly or indirectly s
   <examples>the earthquake in Lisbon 1755 (E5) (Chester, 2001)</examples>
   <inFirstOrderLogic>E1(x)</inFirstOrderLogic>
 </class>
▼<class id="E2">
   <fullName>E2 Temporal Entity</fullName>
  <className>Temporal Entity</className>
   <subClassOf id="E1"/>
   <scopeNote>This class comprises all phenomena, such as the instances of E4 Periods and
   instance of E2 Temporal Entity cease to happen, and occur later again at another time, we
   twice.In some contexts, such phenomena are also called perdurants. This class is di
   particular geographic area (defined with a greater or lesser degree of precision), and E3
   <examples>Bronze Age (E4) (Childe, 1963)the earthquake in Lisbon 1755 (E5)
   \langle inFirstOrderLogic \rangle \langle ul \rangle \langle li \rangle E2(x) \Rightarrow E1(x) \langle li \rangle \langle /ul \rangle \langle /inFirstOrderLogic \rangle
 </class>
```







# Classes & Properties Declarations

- Available for all versions
- Extracted from the official version
   Word document
- Suitable for reference and readable online sharing
- Key features:
  - Navigation facilities
  - Reference link
  - Translation links
  - Hierarchical Graph view
  - Full list of inherited properties
- example link for 7.1.1:

http://cidoc-crm.org/cidoc-crm/7.1.1/







All outgoing properties of: E28 Conceptual Object - version 7.1.1

#### Direct

(None)

### Inherited

```
1st level of inheritance: E71 Human-Made Thing
```

- E71 Human-Made Thing. P102 has title (is title of): E35 Title
- E71 Human-Made Thing. P103 was intended for (was intention of): E55 Type

### 2<sup>nd</sup> level of inheritance: E70 Thing

- E70 Thing. P43 has dimension (is dimension of): E54 Dimension
- E70 Thing. P101 had as general use (was use of): E55 Type
- E70 Thing. P130 shows features of (features are also found on): E70 Thing

### 3rd level of inheritance: E77 Persistent Item

· (None)

### 4th level of inheritance: E1 CRM Entity

- E1 CRM Entity. P1 is identified by (identifies): E41 Appellation
- E1 CRM Entity. P2 has type (is type of): E55 Type
- E1 CRM Entity. P3 has note: E62 String
- E1 CRM Entity. P48 has preferred identifier (is preferred identifier of): E42 Identifier
- . E1 CRM Entity. P137 exemplifies (is exemplified by): E55 Type

All incoming properties of: E28 Conceptual Object - version 7.1.1

#### Direct

. E65 Creation. P94 has created (was created by): E28 Conceptual Object

### Inherited

1st level of inheritance: E71 Human-Made Thing

• E7 Activity. P19 was intended use of (was made for): E71 Human-Made Thing

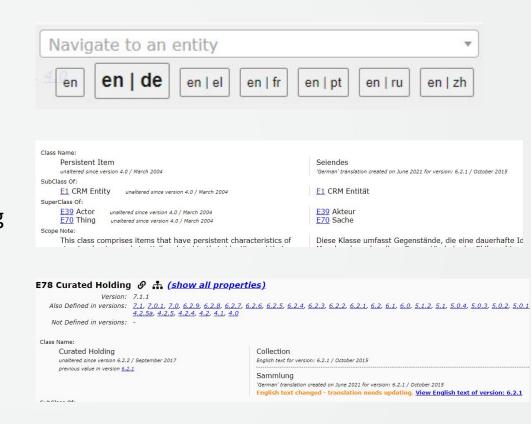
### 2<sup>nd</sup> level of inheritance: <u>E70</u> Thing

- E7 Activity. P16 used specific object (was used for): E70 Thing
- E70 Thing. P130 shows features of (features are also found on): E70 Thing

3rd level of inheritance: E77 Persistent Item

# Classes & Properties Translations & Versioning

- Available for all versions
- Extracted from the official version Word documents and all translations sources (word, html, rdfs)
- Key features:
  - Language switching
  - Side by side display of both translations and their deriving English text
  - Annotations for validity of translation text units
  - Availability and links to other versions
  - Unaltered since detection
  - Previous value link
- Example link for <u>7.1.1</u>









# Available online

http://cidoc-crm.org/versions-of-the-cidoc-crm







# Next steps directions?

- Similar functionality for introductory text:
   Under-development v7.1.1 proposal with some Google translate examples
   <a href="http://cidoc-crm.org/html-dev/cidoc-crm\_version-7.1.1 documentation-text.html#1.2">http://cidoc-crm.org/html-dev/cidoc-crm\_version-7.1.1 documentation\_text.html#1.2</a>
- Similar pages to the versions for which translations documents have been released.
- Develop utilities for import/export/format conversions
- Enhance the format for interchange with translator teams
- Communication protocols of translated pieces of CRM between CRM-SIG,
   Website and translator teams., define which configurations of XML files are needed (single version, original-one language, multiple..)





