

# DELIVERABLE

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## EAGLE metadata model specification

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## LIST OF ABBREVIATIONS

FRBR	Functional Requirements for Bibliographic Records
CIDOC	ICOM's International Committee for Documentation
CIDOC CRM	CIDOC Conceptual Reference Model
CERIF	Common European Research Information Format
EPIDOC	Epigraphic Documents in TEI XML
DC	Dublin Core
SKOS	Simple Knowledge Organization System
RDF	Resource Description Framework
EDM	Europeana Data Model
CP	Content Provider
BPN	Best Practice Network
SPARQL	SPARQL Protocol and RDF Query Language
EACM	EAGLE Aggregator Conceptual Model
EAMF	EAGLE Aggregator Metadata Format

## EXECUTIVE SUMMARY

The main goal of the the EAGLE project is to aggregate into the EAGLE portal data from the EAGLE partners who have epigraphic data bases (the so called Content Providers), and then ingest these data into Europeana. The purpose of this document is to define a common data model to which all the Content Providers can map their own data sets so that all the collected material can be managed in a uniform an coherent way, both for ingestion to Europeana and for supporting advanced search functionality over the aggregated data.

In general, the Content Providers' data sets reflect the dual aspect of the epigraphic objects, i.e. a material object, an artifact carrying an inscription and at the same time the inscription itself, the textual information carried by the artifact. Content Providers use different models according to historical reasons and intents of the different projects. Some databases are more oriented towards the text of an inscription, some more on the object bearing the inscription, but always the two natures of the inscribed document coexist. The first step in the definition of a common data model has been the definition of a conceptual model and a schema that could adequately represent those two aspects. The conceptual model and the schema developed for EAGLE are based on CIDOC CRM and TEI/EpiDoc, two standards already widely used in the Cultural Heritage community:

After the introduction in Part 1, Part 2 describes in detail the EAGLE CIDOC CRM conceptual model and the EAGLE TEI/EpiDoc Schema. CIDOC CRM is very well suited to describe the physical aspects of an epigraph, together with events related to its creation, finding and conservation. It also has the advantage of being easily made available on the Semantic Web, through Linked Open Data Technologies, potentially increasing the visibility and usefulness of the EAGLE assets. TEI/EpiDoc is very well suited to describe the inscription part of an epigraph, where in addition to the text itself as it appears in the inscription, it is possible to include the resolution of abbreviations, possible interpretations and translations, critical apparatus and bibliography. In both descriptions images will play a significant role.

Part 3 describes a preliminary exercise of mapping the CIDOC CRM and the TEI/EpiDoc descriptions to the different data bases of the the main EAGLE Content Providers, in order to check the validity and completeness of the conceptual model and the schema. It also describes a similar exercise for mapping the two EAGLE descriptions to EDM, the Europeana Data Model. These exercises are the base for the definition of the EAGLE Aggregator Conceptual Model and Metadata Schema, which will be the target in the actual mappings of the different data bases coming from the Content Providers to this Aggregator Schema, and it will be the source in the mapping from the Aggregator Schema to the Europeana Data Model, for ingestion into Europeana.

Part 4 describes in detail the EAGLE Aggregator Conceptual Model and Metadata Schema, which will capture in an coherent and homogeneous way the heterogeneous information about physical objects, inscriptions and contextual material provided by Content Providers. Taking into consideration the CIDOC CRM and TEI/EpiDoc descriptions, the requirements of the Europeana Data Model, the functionality to be provided by the EAGLE portal (as described in Deliverable D5.1), the main objective has been to focus on a set of main entities as small as possible, and keep the metadata format as simple as possible in order to simplify queries and make them easy to write and to understand. The conceptual model and schema of the Aggregator includes also the information provide by one of the EAGLE partner, the Trismegistos Card, which is essential in detecting when the same epigraph is being provided by more than one Content Provider, and treat those duplication adequately both for ingestion to Europeana and for providing query results.

Finally, the Annexes provide all the details, schemas, tables etc. that have been left out of the main text to improve the readability of this document.

## PART I. THEORETICAL FRAMEWORK

### 1.1 SCOPE AND ANTECEDENTS

The main purpose of the EAGLE metadata model is to represent information about epigraphic objects, which are a very particular kind of man-made material objects.

However, the scope is not limited to the description of those artefacts but extends to the context in which they are located or were found, and also to the knowledge available about them. In addition, the representation needs to cover different materializations of information about these artefacts, which includes replicas, images and any other kind of media that is bearing information about them.

In consequence, the model cannot be limited to the material characteristics of the epigraphic objects, but needs to be aware also of the activities that involve their preservation and the curation of information among them, including interpretations and conjectures.

Taking into account this rich information space requires considering as antecedents previous models that captured similar information. These include bibliographic and archival models as FRBR<sup>1</sup>, generic models of cultural objects as the CIDOC CRM<sup>2</sup>, research information models as CERIF<sup>3</sup> and specific metadata schemas as EPIDOC<sup>4</sup>.

In the rest of this Part I, the main entities and activities that need to be considered in the domain are defined.

### 1.2 EPIGRAPHY OBJECTS

Inscriptions —and specially Greek and Latin epigraphs— had been objects avidly sought after by art collectors, *dilettanti* and scholars from the early medieval period on. They were seen as valuable testimonials from the Classical Age, informing on every day customs and practices the Greek and Roman writers rarely took into account.

Since the XIXth century, scholars have collected and collated epigraphic texts in several ambitious projects to produce geographic or thematic corpora for historical or philological use; in many cases, the usefulness of those work-intensive projects is marred by the absence or incompleteness of graphic material (too costly to produce and print) and, specially, internal indexes for quick and easy information retrieval.

Those well known shortcomings favor the interest for the so-called "digital Epigraphy", meaning the creation and diffusion of digital-databases. EAGLE's WP3<sup>5</sup> purpose is to make schemas and data structures from our partners' databases compatible, thus allowing the definition of a common conceptual model and description formalism, for future use and data-exploitation and enabling at the same time cross-search capabilities in the EAGLE portal.

The pillars for the first objective (a common conceptual model for the epigraphy community) will be the well-known CIDOC-CRM conceptual model and the TEI/EpiDoc description formalism. To attain the

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<sup>1</sup> See <http://www.ifla.org/publications/functional-requirements-for-bibliographic-records>

<sup>2</sup> See <http://www.cidoc-crm.org/>

<sup>3</sup> See <http://www.eurocris.org/Index.php?page=featuresCERIF&t=1>

<sup>4</sup> See <https://sourceforge.net/p/epidoc/wiki/Home/>

<sup>5</sup> For more information about Work Package 3 see EAGLE's DoW available for members of the consortium at <http://goo.gl/QZzz1k>

second objective (cross-search capability in the EAGLE portal aggregating metadata from all the partners) it will be necessary to define a subset of the CIDOC-CRM model and a metadata schema that includes also elements not completely covered in the TEI/EpiDoc description. The CIDOC-CRM conceptual model and the TEI/EpiDoc description are fully described in Part 2; the EAGLE subset of the conceptual model and the XML schema of the metadata aggregated in the EAGLE portal are fully described in Part 4.

### **1.3 INGESTION TO EUROPEANA**

In general, all the partners' data sets reflect the epigraphic monuments' dual condition, that is, as an artifact (material object) and as a text. Thus, they record information about form and dimensions, place of finding, actual whereabouts and so on of the material object, as well as information about the inscribed text. Metadata definition for the first set of data is normally a straightforward task, but metadata definition for the second one usually needs careful scholarly consideration, since the information to be recorded is often not so obvious and is often open to interpretation.

The ultimate goal of the the EAGLE project is to aggregate data from all the Content Providers and ingest them into Europeana. Fortunately, almost all of the Europeana's schemas revolve around the first data category, making our work a matter of harmonization among the several EAGLE consorted databases and also with Europeana's requirements. Although it is the most rewarding part from a scholarly point of view, annotation of the textual part of an epigraphy is not actually required in the Europeana schema. However, in the EAGLE portal, as much as possible of the data related to the second aspect will be collected in order for it to become a precious asset for scholars in the field.

### **1.4 CONTEXTUAL ENTITIES**

Since, an epigraphic monument is always a text-bearing object, from an owner's marking on an everyday artifact to the letters declaring the date of a building, a distinction could be made between its function and the content of the accompanying text. Thus, a grave marker normally declares the defunct's names but it could have his/her portrait (as a sculpture) as well. Traditionally, epigraphers have paid more attention to the text than to the graphic/visual/artistic side of this dual nature, which was often summarily and subjectively described. Nowadays, it is almost mandatory to add pictures and/or drawings of the described monuments, and to provide additional data to identify those images, state their date, source and author.

Very often this "additional" pictorial material (which is very abundant in the databases of the EAGLE Content Providers and which will be a substantial part of the material ingested to Europeana) is related to monuments or other objects not directly bearing an inscription, and therefore those objects have been named "contextual entities".



## **PART II. ENABLING INTEROPERABILITY IN THE EPIGRAPHY COMMUNITY**

### **2.1 CONCEPTUAL MODELS AND COMMON METADATA SCHEMA**

Content providers use different models according to historical reasons and intents of the different projects. Some databases are more oriented towards the text of an inscription, some more on the object bearing the inscription, but always the two natures of the inscribed document coexist.

To facilitate the exchange of information and improve interoperability, on the side of data models to describe this kind of information, the EAGLE consortium considered two sets of standards, already widely used in the Cultural Heritage community:

- The EpiDoc standard, based on TEI, which offers a full way to give a description of the textual document.
- The CIDOC CRM conceptual model, which is explicitly oriented towards Cultural Heritage objects and offers an articulated way to best describe them.

EpiDoc/XML had already been chosen by many EAGLE Content Providers also as an export format, promoting the use of this standard and the making data already in EpiDoc available and accessible for future projects and research. EpiDoc allows the content to be described fully for what concerns the text of inscriptions, drawing on more than a decade long experimenting and development of this standard thanks to a vast and active international community of Digital epigraphists.

Many Content Providers decided to describe their content also using the CIDOC CRM conceptual model, to enable a further full description which is more oriented to consider epigraphies as objects, rather than as inscriptions. In this way it is possible to get the best of both worlds and have a complete interoperable description of the epigraphic assets. It also becomes easier to map the two descriptions to the Common EAGLE Metadata Model, which is the one used internally by the aggregator on the EAGLE server in order to deliver efficiently the functionality described in Deliverable D3.1.

Representing the epigraphic world in CIDOC CRM has also the advantage that the descriptions of the epigraphies can be expressed in the RDF formalism in the most natural way, showing the properties and relationships of the many values associated with an epigraphy. The RDF representation in turn leads the way to link (some of) the epigraphies to the growing “cloud” of the Linked Open Data (LOD), i.e. the “Semantic Web”, increasing the usefulness and visibility of the EAGLE assets. The same RDF representation is also the one chosen for the translations in the EAGLE MediaWiki<sup>6</sup> which uses wikibase as a software to produce wikidata<sup>7</sup> ready code for each translation item.

The two descriptions will also facilitate the inclusion in the Common EAGLE Metadata Model of all those extremely important contextual items which are part of the contents provided by Members of the consortium, but which are not inscriptions themselves, and which have been called “Contextual Entities” (see Sec. 1.4). For example, not only the user will be then able to see all inscriptions on an altar, but will be able to see also all altars which are part of the contextual entities, even if they do not have an inscription, so that the possibility to do top quality research will be further enhanced.

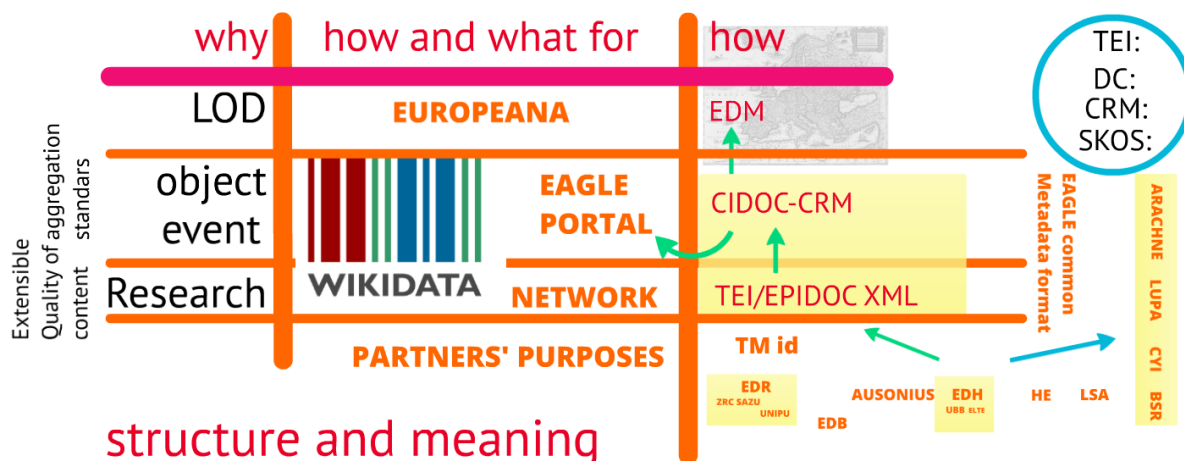
The figure below tries to summarize in a pictorial way all the elements that have been considered for a description of the epigraphic material, taking in to consideration the “why” (ability to describe an epigraph both as an object and as an inscription, ability to participate in the LOD cloud; facilitate research); the

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<sup>6</sup> Available at [http://www.eagle-network.eu/wiki/index.php/Main\\_Page](http://www.eagle-network.eu/wiki/index.php/Main_Page)

<sup>7</sup> For more information on wikibase and wikidata see <http://www.mediawiki.org/wiki/Wikibase>

“what for” (ingestion of the epigraphic material into Europeana, provision of advanced functionality on the EAGLE portal; participation onto Wikidata for translations, facilitate networking among the EAGLE partners and development of individual applications); “the how” (use as much as possible existing standards – CIDOC CRM and EpiDoc – to facilitate the mapping to EDM – the Europeana Data Model – and the definition of the Common EAGLE Data Model for the services of the EAGLE portal).



## 2.2 CIDOC CRM CONCEPTUAL MODEL FOR EAGLE

The EAGLE conceptual model is based on the CIDOC Conceptual Reference Model (CRM) which provides a formal ontological model for describing the structure of cultural heritage objects and the relationships between them, including event models for representing the life cycle of the objects. The model is aimed to ensure an easy way to exchange cultural heritage information between museums and cultural institutions by creating a common framework to which every particular cultural system can be mapped. Because of this characteristics and the use of formal semantics, the CIDOC CRM is an important example of framework that enhances the interoperability in the context of Linked Open Data, making it a good candidate as a conceptual model for internal representation and exposure and query via SPARQL<sup>8</sup>.

### 2.2.1 High-Level model

Epigraphic objects are represented as instances of *E84 Information Carrier*<sup>9</sup>, which is a particular case of man-made object and provides the way for describing all the physical characteristics of monuments such as dimensions, materials, state of preservation and also for distinguishing the objects by names or any other identifiers. There are two types of information carrier objects: those who bear an inscription and those who do not.

If the monument bears an inscription of some kind, this can be represented through the use of an *E34 Inscription* object and related to the information carrier using property *P128 carries*. Inscription objects will be represented explicitly, along with all the physical features of the *Information Carrier* related to it.

<sup>8</sup> See <http://www.w3.org/TR/rdf-sparql-protocol/>

<sup>9</sup> For a complete specification of CIDOC CRM entities and properties see <http://www.cidoc-crm.org/html/5.0.4/cidoc-crm.html>

Any other information related to immaterial items that refer to the inscription, such as transcription text, translation text, bibliography, critical apparatus, commentary and the different type of surrogates, will be represented by instances of *E31 Document*.

Circumstantial information regarding the object such as place and date of finding will be represented by instances of *E53 Place* and *E4 Period* respectively. History of the object, including transfer of custody between individuals and organizations and curation activities will be denoted using objects of type *E7 Activity* and its descendants. This high-level model is schematically depicted in Fig. 1.

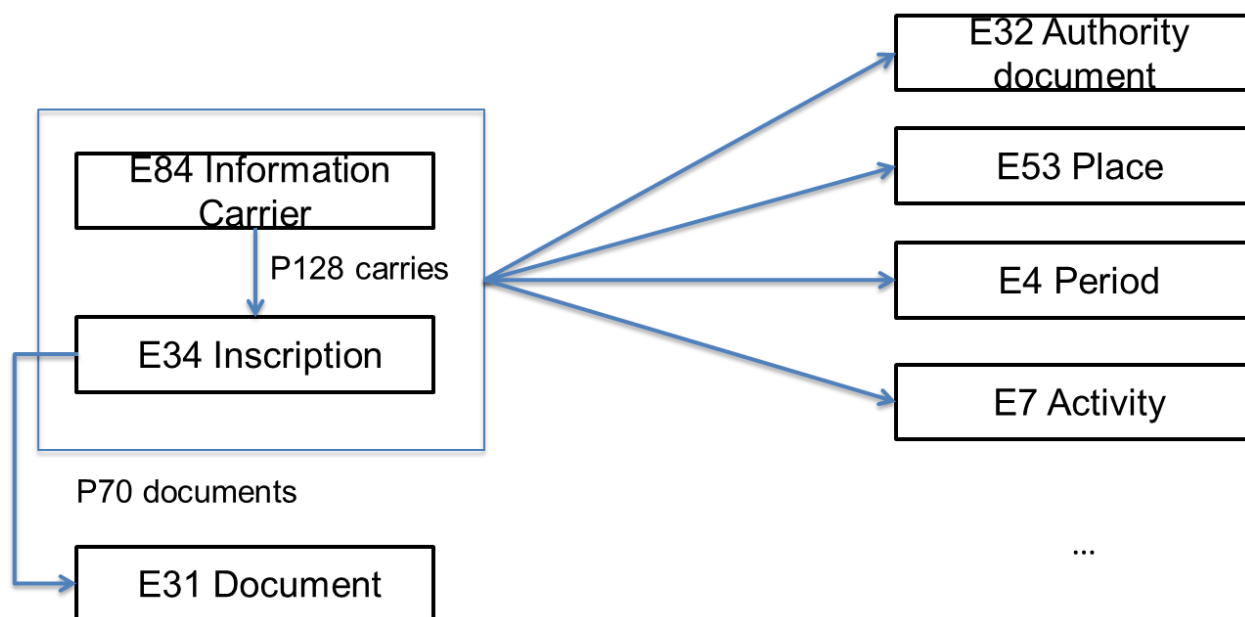


Figure 1 High-Level model

### 2.2.2 Low-Level model

The low-level model is divided in two different subgroups for the sake of simplicity and understanding:

- Low-level sub-model for Physical Object, Physical Inscription, place, dating.  
The first sub-model corresponds to the description of the physical characteristics of the monuments and inscriptions along with the information about identification, location and dating.
- Low-level sub-model for Documental information.  
The second sub-model corresponds to the description of the characteristics of the textual information carried by the Physical Object.

#### Sub-model for Physical Object

##### *Identification information*

The identification information of monuments is specified using an instance of *E42 Identifier* related via property *P1 is identified by*; this identification will consist mostly of the unique inventory number assigned to that monument within the institution to which it belongs. For inscriptions, identification information may include the Trismegistos number that can be assigned to an epigraphic document in order to create a

binding to the Trismegistos document that represents the same epigraphic object, which is the base for the disambiguation process.

The title used to help identify monuments and inscriptions is specified by an instance of *E35 Title* and related to the carrier via property *P102 has title*.

### ***Physical description***

Monuments can be made of one or more materials, each of which will be represented as an instance of *E57 Material* and related to the information carrier via *P45 consist of*. Materials and the rest of *types* in the model are built as EAGLE controlled vocabularies<sup>10</sup>.

Dimensions of monuments, inscriptions letters and epigraphical field are represented using objects of type *E54 Dimension* and related via *P43 has dimension*. At the same time, the units used for the measurement are specified through instances of *E58 Measurement Unit* and related to *E54 Dimension* via property *P91 has unit*.

The different options that may classify the inscriptions are represented using an element of type *E55 Type* and related via property *P103 was intended for*. In a similar way, the type of monument is specified through the same *E55 Type* but related to the E84 information Carrier object via property *P2 has type*.

For the description of the status of conservation of the object, an instance of *E3 Condition State* is used to register the different preservation states that can be associated to the object like *broken* or *lost*. This entity is related to the carrier object via property *P44 has condition*.

### ***Information about history***

The process of creation of a man-made object is modeled in CIDOC-CRM using a particular case of *E7 Activity*. Activities involve both complex and simple actions and can be of great diversity including *E10 Transfer of Custody*, *E11 Modification*, *E65 Creation* or *E87 Curation Activity*, among others. A special case of Modification is *E12 Production*, which is used here to represent the activity that gave as a result the creation of a new item. The Production activity is related with the carrier object via property *P108B was produced by*.

There are some characteristics related with the creation process of an epigraphic object such as engraving technique, ancient and modern place of finding and the period of finding that will be will be specified as follows.

For the engraving technique, an instance of *E55 Type* is used related via *P2 has type*.

For the representation of the approximate date of finding, an instance of *E52 Time Span* is used, which consist of abstract temporal ranges described by initial moment, culmination moment and duration. This entity is related with *E12 Production* via property *P4 has time span*. *E52 Time Span* is farther detailed using instances of *E61 Time Primitive* which provides a way to express date intervals applicable to cultural documentation. This entity is related to E52 via property *P82 at some time within*.

If there is a relevant period of time, into which we can situate the approximate date of finding of the object, this one is specified through an instance of *E4 Period*. This entity is identified by the existence of a cultural or physical phenomena related in space and time, although its relevance is marked by the actual phenomena and not the time-space information. The relation with *E12 Production* is established by property *P10 falls within*. Temporal information associated with an *E4 Period* is detailed using an *E52 Time Span* and related via *P4 has time span*. The specific temporal data is represented through property *P82 at some time within* linking instances of *E61 Primitive Time*.

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<sup>10</sup> Available for members of the consortium at <http://www.eagle-network.eu/about/reserved-area/eagle-vocabulary/>

The ancient place where the epigraphic object was found is represented as an instance of *E53 Place* and related to *E12 Production* via property *P7 took place at*. At the same time, this instance is related with another instance of *E53* that denotes the roman province within which the ancient find spot can be located. *E53 Place* covers space extensions from a physical point of view and no relation with temporal information.

The location of the epigraphic object is indicated by instances of *E53 Place*. CIDOC-CRM has a way of dealing with references to places that is: start from a “small” location element and create a chain by linking to a broader element that contains the first one using property *P89 falls within*. Thus, in our case, instances of *E53 Place* represent the different levels of location of the object, covering, from the narrowest to the broadest, collection, repository (museum), settlement, region and country, all of them, linked in that order by *P89 falls within*.

The action of finding the object is illustrated by an instance of *E7 Activity*, involving information about the year of finding represented using instances of *E52 Time Span* related via property *P4 has time span*, and instances of *E61 Time Primitive* related to *E52* via property *P82 at some time within*. The place of finding is presented in a similar way to the location, through instances of *E53 Place* related to *E7* via property *P7 took place at*. In this case, the chain is built for the elements *modern find spot*, *modern province*, *modern region* and *modern country*.

There are some characteristics that describe an epigraphic object that are not explicitly expressed in the CIDOC model such as comments, decoration, metre and paleographic characteristics. The model provides a way around to incorporate this features using property *P3 has note* and linking to instances of *E62 String*.

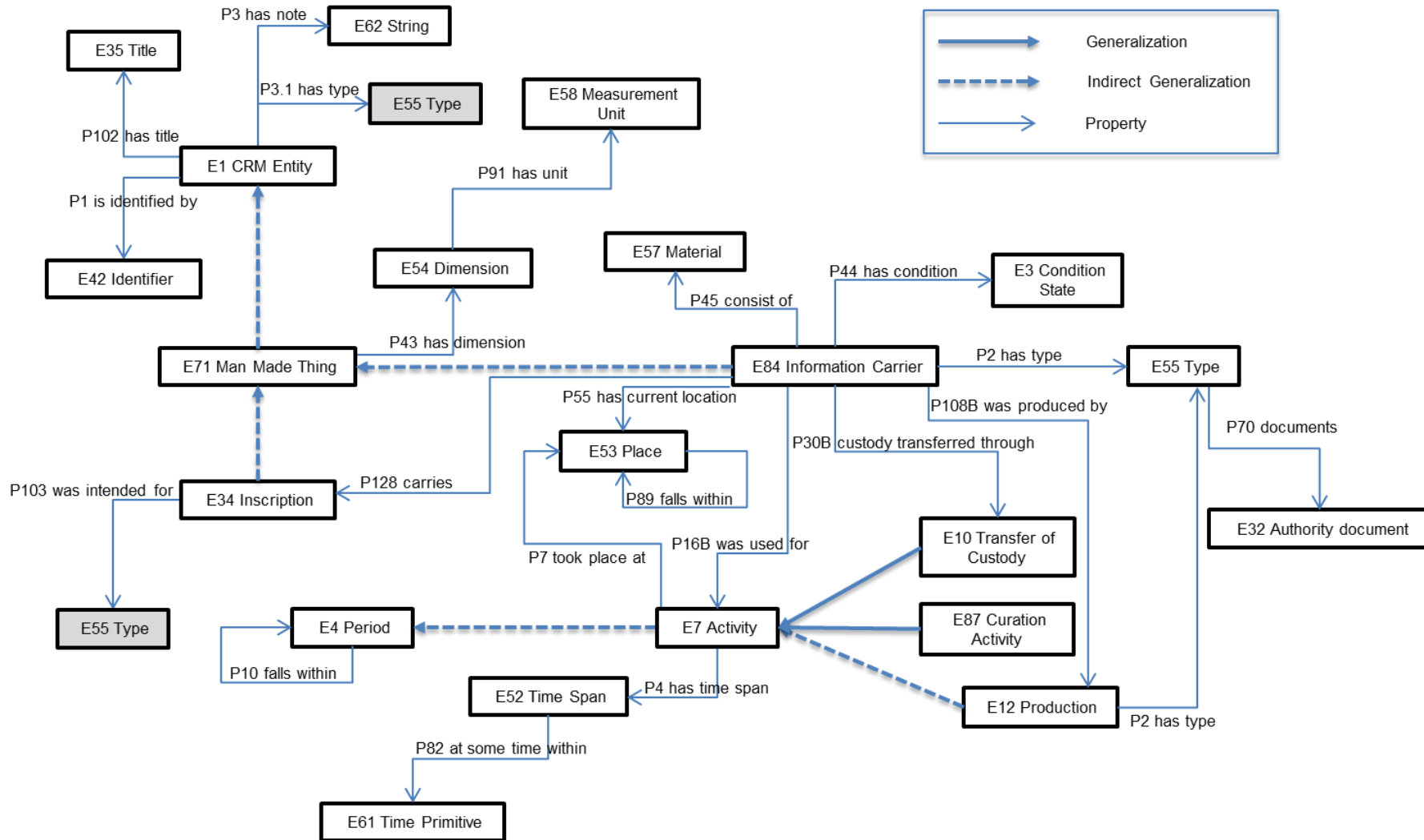


Figure 2 Sub-model for Physical Object, place, dating

## Sub-model for Documental Information

CRM entity *E31 Document* is the way in which the CIDOC CRM model allows the representation of immaterial elements that describe reality. It may be related with any CRM entity via property *P70 documents* and comprises several forms of expressing those descriptions about reality such as texts, images, graphics, videos, including the special case of documentation databases. This entity is used in EAGLE for representing all the existing information that describes the information carrier objects and the possible inscriptions carried by them, including transcription text, translation text, images and graphics, bibliography, critical apparatus and commentary.

Property *P70 documents* that links *E31 document* with the carrier object may be classified using property *P67.1 has type* pointing to an instance of *E55 Type*. *E62 String* is used to hold the texts associated to each *E31* instance and is related via *P3 has note*. For the transcription and translation, the language information is stated by property *P3.1 has type* of *P3* linking to an instance of *E56 Language*.

Documents representing the transcription text of an inscription object are identified by a unique URI that differentiate the document within its content provider repository.

On the other hand, translation documents may use two different identifiers. The first one corresponds to the URI assigned to the Wikimedia document created for this translation and the second one points to the URI of the document in the content provider repository if there is an independent document there for this translation.

Each document identifier is represented by an instance of *E41 Appellation* and related to *E31* using property *P1 is identified by*.

Visual materializations of artefacts as images, drawings or graphics are also represented by *E31 Document* objects and can be related to either monuments or inscriptions objects. The identification process works in a similar way. In this case the documents have a Wikimedia identifier and an identifier for the content provider side, both symbolized by instances of *E41*. Information concerning to the creation of the images is captured through class *E63 Beginning of Existence*, superclass of *E12 Production*, that aims to describe actions that bring into existence a new object. This class is related to the document via property *P92B brought into existence*. The date of creation is registered as before using a combination of *E52 Time Span* and *E61 Time Primitive*. The place is stated by an instance of *E53* and related via *P7 took place at*.

Intellectual Property Rights information associated to transcription texts, translation texts and image documents is denoted by instances of *E30 Right* and linked to the respective document by property *P104 is subject to*. The type of license is specified by instances of *E55 Type* and related through property *P2 has type*. Class *E39 Actor* is designed to model any individual or group of individuals that can be accountable for an action. This class is used here to describe the right holders for each document.



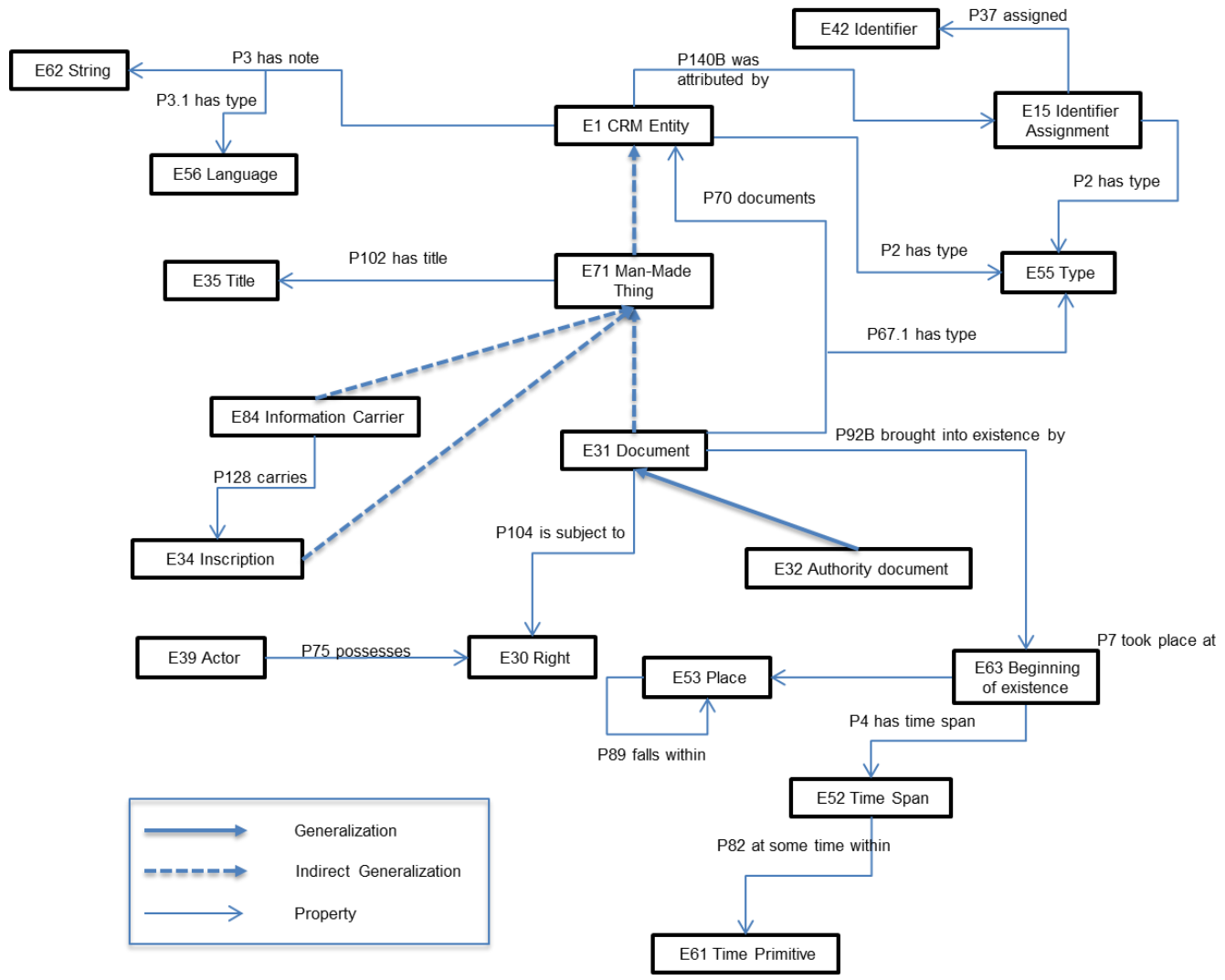


Figure 3 Sub-model for Documental Information





## 2.3 EXPRESSING THE CONCEPTUAL SCHEMA

In this section we describe the data elements that will be able to express the information to be provided by all the Content Providers to the aggregator in the EAGLE portal. A preliminary step was done, requesting each EAGLE partner (Provider) to provide information about the data describing the epigraphies in their databases. The complete set of data elements was defined based on this survey,

### 2.3.1 Survey among the Content Providers

The first step in the creation of the common set of data elements was made by requesting the help of the content providers and asking for additional information. A survey was launched at the beginning of the project by Workpackage WP3 within the Task 3.3 (the release of Deliverable 3.2 is foreseen at Month 12 of the project, March 2014), in order to have a first update of the information declared by the Content Providers in the Description of Work and to confirm the content to be provided to Europeana. In this occasion, further information was asked. In particular, for the aims of the Task 3.1, it was requested to the Content Providers to provide the metadata schemas used in their archives and to provide an example of each one. The information and documentation gathered through the Survey was put at disposal of the WP3 and WP4 Leaders. After this phase, WP3 requested a complete description of the metadata model the Content Providers were using at the time, including what is mandatory, what has multiple values, the detail on the types and vocabularies, etc. The reason is that this information cannot be easily acquired completely by inspecting the user interfaces of partner's portals. This information was only requested for those repositories that have an underlying database. The rest of the repositories are expected to be integrated first in one of the former, thus they will comply with the model of others for which the information was collected.

Annex I of this deliverable shows the template tables that were used in the survey in order to gather the necessary information.

The instructions for completing this template were as follows:

1. List the metadata categories used to describe inscriptions, photos, Literature, etc., along with the elements corresponding to each category. For example, in Hispania Epigraphica this corresponds to the main "forms" grouping the metadata in the user interface of the portal.
2. For each metadata element, create a table specifying Data type, Format, Mandatoriness, Cardinality, Description and Examples.
3. For each element that uses values from a controlled vocabulary, create a table specifying in which elements this vocabulary is used (Used in), Examples, Description, a reference to a table or excel document containing the allowed values (Allowed values), Languages available and if it is available via web.
4. For each vocabulary create a table (or excel document) listing the vocabulary items in every available language and any other information about the vocabulary.

### 2.3.2 Common data elements

In the following sections we describe in a concise form all the data elements that have been defined following the survey. Whenever possible, each element is expressed in both the CIDOC-CRM ontology and in the EpiDoc schema. Annex 3 contains the detailed description of each element in both formalisms, together with examples.



The metadata elements have been grouped into different categories corresponding to different EAGLE objects: Information Carrier, Inscription, Transcription, Translation and Visual Representation. This metadata structure and codification is based in the EAGLE CIDOC CRM model which covers every aspect of the information that needs to be represented and is perfectly coupled with the rest of the conceptual models.

At the same time, EpiDoc is a community work that aims to create recommendations and tools that can be used in the encoding of epigraphic documents. The guidelines<sup>11</sup> have reached a high quality standard thanks to the active collaboration of the community and the execution of several pilot projects. In this case, for those elements that falls within the scope of EpiDoc, its corresponding codification is presented, taking advantage on the fact that these guidelines are domain-specific and tailored to the needs of text encoding.

### 2.3.3 General Metadata elements

These metadata elements are available for every EAGLE object regardless of the type of object.

#### **Object identification within the content provider repository (mandatory, cardinality: 1)**

It contains the identifier of the object being described within the content provider repository.

Represented by *E42 Identifier* and related via *P1 is identified by*

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/publicationStmt/idno*

#### **Object URI within the content provider repository (mandatory, cardinality: 1)**

It contains the URI of the object being described within the content provider repository.

Represented by *E42 Identifier* and related via *P1 is identified by*

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/publicationStmt/idno*

#### **Content provider identification and language of metadata (mandatory, cardinality: 1)**

It contains the identifier of the object being described within the content provider repository.

Represented by *E42 Identifier* and related via *P1 is identified by*

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/publicationStmt/idno*

#### **Metadata rights (not mandatory, cardinality: 1)**

This element displays the type of licence under which the metadata is provided. The value of this element is fixed to Creative Commons CC0 1.0 Universal Public Domain Dedication licence<sup>12</sup>.

Represented by *E30 Right* related via *P104 is subject to*

Corresponds in EpiDoc to */TEI/teiHeader/fileDesc/publicationStmt/availability/licence*

---

<sup>11</sup> See EpiDoc guidelines at <http://www.stoa.org/epidoc/gl/latest/>

<sup>12</sup> See <http://creativecommons.org/publicdomain/zero/1.0/>

### **Metadata author and modification date (not mandatory, cardinality: 1)**

This element identifies the author of this metadata document.

Represented by *E39 Author* related to *E30 Right* via *P75B is possessed by*

Corresponds in EpiDoc to */TEI/teiHeader/revisionDesc/change@who*

### **2.3.4 Metadata elements for Information Carrier**

#### **Monument type (mandatory, cardinality: \*)**

It contains a reference to an element of an EAGLE hierarchical vocabulary for Type of Monuments.

Represented by *E55 Type* and related to *E84 Information Carrier* via *P2 has type*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType*

#### **Material (mandatory, cardinality: \*)**

One or more EAGLE vocabulary elements specifying the materials of which the object is composed.

Represented by *E57 Type* and related to *E84 Information Carrier* via *P45 consist of*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material*

#### **Description (not mandatory but strongly recommended, cardinality: 1)**

It contains one paragraph describing the object.

Represented by *E62 String* and related to *E84 Information Carrier* via *P3 has note*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p*

#### **Dimensions (not mandatory but recommended, cardinality: \*)**

It contains the dimensions (height, width, depth) in cm, of the object that bears the inscription.

Represented by *E54 Dimension* and related to *E84 Information Carrier* via *P43 has dimension*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions*

#### **Decoration (not mandatory, cardinality: \*)**

This field contains a word or phrase describing the decoration of the object being described. An EAGLE vocabulary will be used although free text will be allowed too.

Represented by *E62 String* and related to *E84 Information Carrier* via *P3 has note*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs*

### **State of preservation (not mandatory, cardinality: 1)**

This field contains a word or phrase describing the status of preservation of the object being described. A small EAGLE vocabulary can be used. Free text will be allowed as well.

Represented by *E3 Condition State* related to *E84 Information Carrier* via *P44 has condition*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs*

### **Dating (not mandatory, cardinality: 1), Chronology (not mandatory, cardinality: 1) and Dating Arguments (not mandatory, cardinality: 1)**

Represented by *E52 Time Span* which is contained within an *E12 Production* event related to *E84 Information Carrier* via *P10B was produced by*<sup>13</sup>

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs*

The **origDate** element will be used for this purpose. The **@period** attribute will be used for referencing an EAGLE vocabulary element specifying the historical period within which the object was created. The **@evidence** attribute will be used for recording the dating arguments. Dates will be encoded as date ranges using **@notBefore-custom** and **@notAfter-custom** attributes with format "YYYY-MM-DD". If we need to encode a single date, then the same value will be used in both attributes. If only the year needs to be stored, use always the four digit format (e.g. 0363) and for BC dates use "-" preceding the number (e.g. -0082).

### **Ancient find spot (not mandatory, cardinality: 1)**

It contains a reference to the Trismegistos Geo ID (TM\_geolD) corresponding to the ancient name of the finding spot of the object.

Represented by *E53 Place* which is contained within an *E12 Production* event related to *E84 Information Carrier* via *P10B was produced by*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName*

### **Roman Province / Italic Region (not mandatory, cardinality: 1)**

It contains a reference to the Trismegistos Geo ID (TM\_geolD) corresponding to the Roman Province / Italic Region of the finding spot of the object.

Represented by *E53 Place* and related through property *P89 falls within* to another instance of *E53* denoting the ancient place, which, at the same time, is contained within an *E12 Production* event related to *E84 Information Carrier* via *P10B was produced by*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName*

---

<sup>13</sup> The B letter is included after the property number (P10) for indicating that it is being used in its "backward" sense.



### **Modern find spot (not mandatory, cardinality: 1)**

It contains a reference to the Geonames<sup>14</sup> identifier corresponding to the modern name of the finding spot (Municipality, city, etc.).

Represented by *E53 Place* which is contained within an *E12 Activity* event related to *E84 Information Carrier* via *P16B* was used for

### **Modern province (not mandatory, cardinality: 1)**

It contains a reference to the Geonames ID corresponding to the modern name of the province where the finding spot is located.

Represented by *E53 Place* and related to other instances of *E53* representing modern country, modern region and modern find spot making a chain connected by property *P89 falls within*

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName*

### **Modern region (not mandatory, cardinality: 1)**

It contains a reference to the Geonames ID corresponding to the modern name of the region where the finding spot is located.

Represented by *E53 Place* and related to other instances of *E53* representing modern country, modern province and modern find spot making a chain connected by property *P89 falls within*

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName*

### **Modern Country (not mandatory, cardinality: 1)**

It contains a reference to the Geonames ID corresponding to the modern name of the country where the finding spot is located.

Represented by *E53 Place* and related to other instances of *E53* representing modern region, modern province and modern find spot making a chain connected by property *P89 falls within*

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName*

### **Year of finding (not mandatory, cardinality: 1)**

It contains a reference to the Geonames<sup>15</sup> identifier corresponding to the modern name of the finding spot (Municipality, city, etc.).

Represented by *E52 Time Span* which is contained within an *E7 Activity* event related to *E84 Information Carrier* via *P16B* was used for

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when*

---

<sup>14</sup> Online Geographical Database, for more information see <http://www.geonames.org/>

<sup>15</sup> Online Geographical Database, for more information see <http://www.geonames.org/>

### **Place of Conservation (not mandatory, cardinality: 1), Country (not mandatory, cardinality: 1), Region (not mandatory, cardinality: 1)**

It contains a reference to a Trismegistos TMgeo\_id for indicating the place, such as a city or town, where the object is currently located for conservation. The country and region where the place of conservation is located may be recorded as well when available using the same method.

Represented by three instances of *E53 Place* related to another instance of *E53* representing the museum or institution where the object is kept. The *E53* instances are interconnected using property *P89 falls within*.

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement*, */TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placename* and */TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placename*

### **Museum (not mandatory, cardinality: 1), Position (not mandatory, cardinality: 1)**

It contains a reference to the Trismegistos Collection URI of the repository where the object is stored. The position of the object within its corresponding repository may be recorded when available.

Represented by *E53 Place* related to *E84 Information Carrier* via *P55 has current location*.

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/repository*

### **Inventory Number (not mandatory, cardinality: 1)**

It contains an identifier number for the object within the repository.

Represented by *E42 Identifier* related to *E84 Information Carrier* via *P1 is identified by*.

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno*

### **Inscription (not mandatory, cardinality: \*)**

This element identifies inscription objects carried by this information carrier.

Represented by *E34 Inscription* and related to *E84 Information Carrier* via *P128 carries*

### **Visual representation (not mandatory, cardinality: \*)**

This element identifies different types of visual representation objects (photograph, drawing, graphic, etc.) that refer to this information carrier object.

Represented by *E31 Document* and related to *E34 Inscription* via *P70B is documented in*

## **2.3.5 Metadata elements for the Inscription physical objects**

This set of metadata elements corresponds to the inscription as physical objects that may be carried by an information carrier object.

Inscriptions are represented by *E34 Inscription* and related to *E84 Information Carrier* via *P128 carries*

Inscriptions can also be represented in an independent document by indicating the identifier of the carrier object that bears it using property *P128B is carried by*.



### **Object Title (mandatory, cardinality: 1)**

It contains a text to help identify the object. It can consist of a single field or the composition of several fields.

Represented by *E35 Title* and related to *E84 Information Carrier* via *P102 has title*

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/titleStmt/title*

### **Trismegistos number (not mandatory but recommended, cardinality: 1)**

It contains the Trismegistos identifier (TM\_no or TM\_id) associated to the Trismegistos document that represents the same epigraphic object being described.

Represented by *E42 Identifier* and related via *P1 is identified by*

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/publicationStmt/idno*

### **Type of inscription (not mandatory, cardinality: 1)**

It contains a vocabulary element that indicates the type of text inscribed on the monument.

Represented by *E55 Type* related to *E34 Inscription* via *P103 was intended for*

Corresponds in TEI/EpiDoc to */TEI/teiHeader/profileDesc/textClass/keywords/term*

This will be specified using a **<term>** element within a **<keywords>** element. The **<term>** element will use a **@ref** attribute to indicate the EAGLE vocabulary value corresponding to this particular type of inscription. All of this will be enclosed into a **<textClass>** element in the profileDesc section of the document.

### **Engraving technique (not mandatory, cardinality: 1)**

It contains a vocabulary element that indicates the writing technique used for this inscription. (Common EAGLE vocabulary)

Represented by *E55 Type* related to *E34 Inscription* via *P2 has type*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs*

### **Metre (not mandatory, cardinality: 1)**

It contains a value that indicates whether the text of the inscription is metrical and possibly the type of metric. Free text.

Represented by *E62 String* related to *E34 Inscription* via *P3 has note*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs*

### **Size of Epigraphical Field (not mandatory, cardinality: \*)**

It contains the dimensions (in centimeters) of the epigraphic field.

Represented by two instances of *E54 Dimension*, corresponding to height and width of the epigraphical field and related to *E34 Inscription* via *P43 has dimension*

Corresponds in TEI/EpiDoc to  
*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/dimensions*

### **Paleographic Characteristics (not mandatory, cardinality: 1)**

This element describes different aspects of the text that help in the reading, interpretation and cultural contextualization of the inscription.

Represented by *E62 String* related to *E34 Inscription* via *P3 has note*

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote*

The Paleographic Characteristics are encoded as a free text in the **handNote** element.

### **Letter size (not mandatory, cardinality: 1)**

Letter size specifies the size of the letters in the text of the inscription.

Represented by *E54 Dimension* related to *E34 Inscription* via *P43 has dimension*

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote/height*

This element is recorded using the **height** element within a **handNote** element.

### **Transcription (mandatory, cardinality: \*)**

This element contains the unique identifier of the transcription object related to this inscription.

Represented by *E31 Document* and related to *E34 Inscription* via *P70B is documented in*

### **Translation (not mandatory, cardinality: \*)**

This element contains the unique identifier that refers to the translation object related to this inscription.

Represented by *E31 Document* and related to *E34 Inscription* via *P70B is documented in*

### **Visual Representation (not mandatory, cardinality: \*)**

This element contains the content provider identifier that refers to a visual representation object (photograph, drawing, graphic, etc.) related to this inscription.

Represented by *E31 Document* and related to *E34 Inscription* via *P70B is documented in*

## **2.3.6 Other metadata elements for inscriptions**

The following metadata elements allow content providers to submit several pieces of information regarding inscription objects that is specific to them.

### **Author of inscription (not mandatory, cardinality: 1)**

It contains the author of the inscription, e.g. the creator of the inscription itself, e.g. the name of the artist or the name of the artistic/artisan school.

### **Honorands (not mandatory, cardinality: 1)**

It contains information that identifies the person to whom the inscription was dedicated.



**Political-Social status (not mandatory, cardinality: 1)**

It contains the political/social role/position of the honorand(s).

**Dedicator (not mandatory, cardinality: 1)**

It contains the name of the person who devotes the inscription.

**Names mentioned (not mandatory, cardinality: 1)**

This element makes reference to other people mentioned in the inscription.

**Event of Inscription (not mandatory, cardinality: 1)**

It contains a description about the event related to the purpose of the inscription.

**Locations mentioned (not mandatory, cardinality: 1)**

It contains names of places mentioned in the inscription.

**Restoration (not mandatory, cardinality: 1)**

It contains information regarding whether the inscription has been restored and when.

**Double side (not mandatory, cardinality: 1)**

It contains information regarding whether the inscription is double sided (repeat all the fields for both sides).

**Erasures (not mandatory, cardinality: 1)**

It specifies whether the text of the inscription was damaged on purpose (e.g. an).

**Spelling errors variations (not mandatory, cardinality: 1)**

It shows if there are any spelling mistakes on the text of the inscription.

**Editorial additions (not mandatory, cardinality: 1)**

This element contains information regarding the restoration of the letters/phrases that are missing from the text of the inscription and the names of the scholars who did the addenda.

**Other Comments (not mandatory, cardinality: 1)**

It contains other information related to the inscriptions.

**2.3.7 Metadata elements for Transcriptions**

Transcriptions are represented by *E31 Document* as part of the of its corresponding inscription object via property *P70B is documented in*

Transcriptions can also be represented as a standalone document related to *E34 Inscription* using the same property in its forward way: *P70 documents*

### **Transcription text (mandatory, cardinality: 1), Language (mandatory, cardinality: \*)**

It contains the transcription text of the inscription and the language in which was written.

Represented by *E62 String* related to *E31 Document* via *P3 has note*

Corresponds in TEI/EpiDoc to */TEI/text/body/div/head/TEI/text/body/div/ab*

Please note that the text in this element will be as it appears after applying the EpiDoc guidelines for Leiden convention encoding. An example of text before encoding is as shown below:

```
Militias nobis et praemia [Caesar iunxit]/ accepi gemini bis praem[ia torquis  
turmae] / Armigerae primum comes al[terum] / Palatarum custos dat[us ita  
nostras] / auxit fortunas ut avunc[uli Constantini] / olim sacrat de nomin[e  
nos decorarat]
```

### **Critical Apparatus (not mandatory, cardinality: 1)**

It contains one or more interpretation variants of the text.

Represented by *E31 Document* related to the transcription document via *P70B is documented in*

Corresponds in TEI/EpiDoc to */TEI/text/body/div/head/TEI/text/body/div/p*

If it's required, each apparatus entry can be further encoded using the TEI elements **app**, **lem** and **rdg**.

### **Commentary (not mandatory, cardinality: \*)**

It contains possible commentaries about the text.

Represented by *E31 Document* related to the transcription document via *P70B is documented in*

Corresponds in TEI/EpiDoc to */TEI/text/body/div/head/TEI/text/body/div/p*

### **Bibliography (not mandatory, cardinality: 1)**

An online bibliography repository might be used to reference publications available in it.

Represented by *E31 Document* related to the transcription document via *P70B is documented in*

Corresponds in TEI/EpiDoc to */TEI/text/body/div/head/TEI/text/body/div/p*

## **2.3.8 Metadata elements for Translations**

Translations are represented by *E31 Document* as part of the of its corresponding inscription object via property *P70B is documented in*

Translations can also be represented as a standalone document related to *E34 Inscription* using the same property in its forward way: *P70 documents*

### **Translation text and language (not mandatory, cardinality: \*)**

This element contains the corresponding translation of the transcription text, including the language of translation.

Represented by *E62 String* related to the translation *E31 Document* via *P3 has note*

Corresponds in TEI/EpiDoc to */TEI/text/body/div/head/TEI/text/body/div/ab*

In this case, the `@n` attribute will indicate the internal identifier of the translation within the content provider repository. The translation text will be retrieved later from the MediaWiki.

### **Translation rights (mandatory, cardinality: 1)**

It contains the type of licence assigned to the translation text.

Represented by *E30 Right* and related to the translation *E31 document* via *P104 is subject to*

### **Translation author (not mandatory, cardinality: 1)**

This element contains the names of the translators of the text of the inscription.

Represented by *E39 Actor* and related to *E30 Right* via *P75B is possessed by*

### **Publication title (mandatory, cardinality: 1)**

It contains the title of the publication that contains this translation.

The act publication is modelled as an *E7 Activity* related to the translation document via *P16B was used for*. The publication title is represented by *E35 Title* and related via *P102 has title*

### **Year of publication (not mandatory, cardinality: 1)**

It shows the publication year of this translation.

Represented by *E52 Time Span* and related to the *E7 publication activity* via *P4 has time span*

### **Place of publication (not mandatory, cardinality: 1)**

It shows the publication place of this translation document.

Represented by *E53 Place* and related to the *E7 publication activity* via *P7 took place at*

### **Publication author (not mandatory, cardinality: 1)**

This element shows the name of the author of the publication that contains this translation.

Represented by *E39 Actor* and related to the *E7 publication activity* via *P11 had participant*

## **2.3.9 Metadata elements for Visual representations (Photographs, Drawings, Graphics, etc.)**

Visual representations, including photos, drawings, computer graphics, etc., can refer either to an information carrier object, bearing or not an inscription, or to the inscription itself.

Represented by *E31 Document* as part of the of its corresponding information carrier or inscription object via property *P70B is documented in*

Translations can also be represented as a standalone document related to *E84 Information Carrier* or *E34 Inscription* using the same property in its forward way: *P70 documents*

This type of object is corresponds in EpiDoc to */TEI/facsimile/graphic/*.

### **Visual representation title (mandatory, cardinality: 1)**

It contains a text to help identify this resource

Represented by *E35 Title* and related to *E31 Document* via *P102 has title*

### **Visual representation URL (mandatory, cardinality: 1)**

It contains the address to the resource file.

Represented by *E42 Identifier* and related *E31 Document* via *P1 is identified by*

Corresponds in TEI/EpiDoc to */TEI/facsimile/graphic@url*

the attribute *@n* contains the identifier of the resource in the content provider side.

### **Visual representation type (mandatory, cardinality: 1)**

It shows the type of this resource file (Drawing, Photo, Digitized literature, Computer graphics).

Represented by *E55 Type* and related to *E31 Document* via *P2 has type*

### **Format (not mandatory, cardinality: 1)**

This element contains a value that indicates the format of this digital resource.

Represented by *E62 String* and related to *E31 Document* via *P3 has note*

### **Visual representation inventory number**

It contains an identifier number for the object within the repository.

Represented by *E42 Identifier* related to *E31 Document* via *P1 is identified by*.

### **Visual representation rights (mandatory, cardinality: 1)**

It contains the type of licence assigned to this visual resource.

Represented by *E30 Right* and related to *E31 Document* via *P104 is subject to*

Corresponds in TEI/EpiDoc to */TEI/facsimile/graphic/desc/ref*.

### **Visual representation author (not mandatory, cardinality: 1)**

This element contains the names of the creators of this visual resource.

Represented by *E39 Actor* and related to *E30 Right* via *P75B is possessed by*

Corresponds in TEI/EpiDoc to */TEI/facsimile/graphic/desc*.

### **Creation date (not mandatory, cardinality: 1)**

It contains the date of creation of this visual resource.

The act of creation of this resource is represented by an instance of *E63 Beginning of Existence*. The creation date is represented by *E52 Time Span* and related to *E63* via *P4 has time span*

### **Visual representation ancient findspot (not mandatory, cardinality: 1)**

It contains a reference to the Trismegistos Geo ID (TM\_geolD) corresponding to the ancient name of the finding spot of the object to which this visual representation refers to.

Represented by *E53 Place* related to *E31 Document* via *P67 refers to*



### **Visual representation Roman Province / Italic Region (not mandatory, cardinality: 1)**

It contains a reference to the Trismegistos Geo ID (TM\_geolD) corresponding to the name of the Roman Province / Italic Region of the object to which this visual representation refers to.

Represented by *E53 Place* related to the instance of *E53 Place* that represents the ancient find spot via *P89 falls within*

### **Visual representation modern findspot (not mandatory, cardinality: 1)**

It contains a reference to the Geonames identifier corresponding to the modern name of the finding spot of the object to which this visual representation refers to.

Represented by *E53 Place* related to *E31 Document* via *P67 refers to*

### **Visual representation modern country (not mandatory, cardinality: 1)**

It contains a reference to the Geonames identifier corresponding to the modern name of the country of the object to which this visual representation refers to.

Represented by *E53 Place* related to the instance of *E53 Place* that represents the modern find spot via *P89 falls within*

### **Visual representation description (not mandatory, cardinality: 1)**

This element contains a description of this visual resource including its quality and other aspects.

Represented by *E62 String* and related to *E31 Document* via *P3 has note*

## **2.3.10 Other metadata elements for Visual representations**

The following metadata elements allow content providers to submit several pieces of information regarding visual representation objects that is specific to them.

### **Acquisition technology (not mandatory, cardinality: 1)**

It contains information about the acquisition technology that was used for the acquirement of this digital resource including photography, 2D and 3D scanning, photogrammetry, Reflectance Transformation Imaging (RTI), total station and GPS location.

### **Processing information (not mandatory, cardinality: 1)**

This element describes the software tools and methods employed for processing the acquired data to produce the desired outcomes.

## **2.3.11 Metadata elements for 3D graphics visual materializations**

These metadata elements correspond to a special case of Visual representation: 3D graphics mostly provided by The Cyprus Institute.

### **Horizontal resolution (not mandatory, cardinality: 1)**

It contains the value of the horizontal resolution for 3D PDF and 3D model resources.

**Vertical resolution (not mandatory, cardinality: 1)**

It contains the value of the vertical resolution for 3D PDF and 3D model resources.

**Model height (not mandatory, cardinality: 1)**

It contains the value that represents the height of modelled object.

**Model length (not mandatory, cardinality: 1)**

It contains the value that represents the length of modelled object.

**Model width (not mandatory, cardinality: 1)**

It contains the value that represents the width of modelled object.

**Model area (not mandatory, cardinality: 1)**

It contains the value that represents the area of modelled object.

**Model perimeter (not mandatory, cardinality: 1)**

It contains the value that represents the perimeter of modelled object.

**2.3.12 Metadata elements for video resources**

**Video duration (not mandatory, cardinality: 1)**

**Video resolution (not mandatory, cardinality: 1)**

**Video rate (not mandatory, cardinality: 1)**

**2.3.13 Description of encoding, profile and revision (EpiDoc specific)**

All the elements in this section are the standard EpiDoc elements and do not need any change or addition by the content providers. (See Annex III).



## PART III. PRELIMINARY MAPPINGS FOR CONTENT PROVIDERS AND EUROPEANA

### 3.1 MAPPINGS FOR THE MAIN CONTENT PROVIDERS

The harmonization exercise, leading to the CIDOC CRM and EpiDoc descriptions, and the EAGLE Conceptual Data Model, were developed taking as a starting point the results of the metadata survey mentioned earlier and the new requirements for enrichment and extension of the existing models. It has been therefore easy to do a preliminary exercise in mapping the elements of the two formal representations into the metadata elements of each EAGLE Content Provider. As an example, here below we provide a few rows of the mapping table for Hispania Epigraphica. In Annex IV there is the complete set of mapping tables for the following providers: Epigraphic Database Roma (UNIROMA1), Epigraphic Database Bari (UNIBA), Epigraphische Datenbank Heidelberg (UHEI), Hispania Epigraphica Online (UAH), Ubi Erat Lupa (PLUS), Arachne (DAI), Petrae (AUSONIUS), STARC (CYI).

Since the actual ingestion of the material supplied by Content Providers into EAGLE will be implemented by the EAGLE aggregation infrastructure, this tables will be the basis for the final mapping from the providers' data sets to the EAGLE Aggregator Metadata Schema (the one used internally by the aggregator in the EAGLE server).

Element Name	CIDOC - CRM	EpiDoc xpath	HE
General			
Object ID in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	HEpOI xxxxxx
Object URI in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Content provider identification and language of metadata	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	Hispania Epigraphica Online - HEO
Metadata rights	Represented by E30 Right related via P104 is subject to	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence	fixed value

Element Name	CIDOC - CRM	EpiDoc xpath	HE
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by	/TEI/teiHeader/revisionDesc/change	resp
Information Carrier			
Monument type	E55 Type related to E84 Information Carrier via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType	Object Type
Material	E57 Type related to E84 Information Carrier via P45 consist of	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material	Material Rough Definition; Material Refined Definition
Description	E62 String related to E84 Information Carrier via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p	Description
Dimensions	E54 Dimension related to E84 Information Carrier via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions	Size of Object
Decoration	E62 String related to E84 via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	n.a.

### 3.2 MAPPING FOR EUROPEANA

Since the main goal of EAGLE is to provide epigraphic material to Europeana, a similar preliminary exercise was done in order to check the feasibility of the representation and data models developed by EAGLE for what concerns their mapping to EDM, the Europeana Data Model. In the following sections we





describe briefly EDM and provide a sample of the mapping. The complete mapping from CIDOC CRM and EpiDoc to EDM is in Annex V.

### 3.2.1 Background on the EDM

The Europeana Data Model<sup>16</sup> (EDM) is Europeana's solution in the effort of integrating the existing cultural heritage data from a vast amount of European content providers in the fields of libraries, museums, archives and audio-visuals, each one of them operating with their own metadata standard. The model also tries to take advantage of the cultural heritage resources available today, such as authority lists and thesaurus, in order to avoid duplication of work, by adding meaningful content at a low cost. As a result the content will be enriched by linking to different projects and institutions. Thus, data coming from a certain provider may be enhanced by the content from other providers or rich web sources like DBpedia, creating meaningful relations between items and translating the metadata at the same time.

EDM is the evolution of its predecessor Europeana Semantic Elements (ESE) and the result of a joint work with professionals of different fields, allowing the adoption of valuable community standards such as LIDO for museums, EAD for archives and METS for digital libraries. It uses a semantic web based framework that leads the way for the introduction of Europeana in the semantic web, allowing contributors to access to a wide range of Europe's cultural heritage resources.

EDM encourages independent description for the cultural heritage object and its digital representation, allowing the use of appropriate metadata for each case. The distinction is made by the use of three core classes: `edm:ProvidedCHO`, `edm:WebResource` and `ore:Aggregation`. The `edm:ProvidedCHO` class is intended for representing cultural heritage objects; the second class, for the description of the possible digital representations of an object and the `ore:Aggregation` class is the one that states the relation between the first two. Providers are advised by Europeana to attempt to separate their object's descriptions in order to choose a suitable class for every part.

Another benefit on the use of the EDM is that it incorporates contextual resources, permitting providers with their metadata improved by pointing to controlled vocabularies and thesauri, to represent this kind of resources separated from the main object and take advantage of the richness of this data at the same time. The contextual classes provided by Europeana are `edm:Agent`, `edm:Place`, `edm:TimeSpan` and `skos:Concept`.

### 3.2.2 Mapping approach

The mapping task has been made trying to carry as many properties as possible from EAGLE to Europeana, paying special attention to those elements that are mandatory in Europeana and the available alternatives. To this end, a further document has been elaborated (see ANNEX VI), describing in more detail the current version of the Europeana Data Model (EDM) and highlighting its mandatory elements.

As an example, here below we give the first few rows of the mapping table from CIDOC CRM and EpiDoc to EDM elements. The complete table is in Annex V. Since the actual ingestion of the epigraphic material into Europeana will be implemented by the EAGLE aggregation infrastructure, this table will be the basis for the final mapping from the EAGLE Aggregator Metadata Schema (the one used internally by the aggregator in the EAGLE server) to the EDM elements.

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<sup>16</sup> For more information see <http://pro.europeana.eu/edm-documentation>.



Element Name	CIDOC - CRM	EDM	EpiDoc xpath
General			
Object ID in Data provider repository	E42 Identifier		/TEI/teiHeader/fileDesc/publicationStmt/idno
Object URI in Data provider repository	E42 Identifier	edm:isShownAt	/TEI/teiHeader/fileDesc/publicationStmt/idno
Content provider identification and language of metadata	E42 Identifier	edm:dataProvider	/TEI/teiHeader/fileDesc/publicationStmt/idno
Metadata rights	Represented by E30 Right related via P104 is subject to	edm:rights	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by		/TEI/teiHeader/revisionDesc/change
Information Carrier			
Monument type	E55 Type related to E84 Information Carrier via P2 has type	edm:PhysicalThing dc:type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType
Material	E57 Type related to E84 Information Carrier via P45 consist of		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material
Description	E62 String related to E84 Information Carrier via P3 has note	dc:description	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p

## PART IV. METADATA AGGREGATION IN EAGLE

### 4.1 REQUIREMENTS AND SOLUTION

The analysis effort that has led to the definition of the CIDOC CRM conceptual model and the TEI/EpiDoc schema perfectly captures in an coherent way the heterogeneous information about inscriptions and contextual material provided by the Content Providers.

Starting from that and from the EAGLE portal use cases described in Deliverable 5.1, the further step taken has been the definition of the **EAGLE Aggregator Conceptual Model (EACM)** described below, having in mind the following points:

- focus on a set of main entities as small as possible for what concerns the requirements of the EAGLE portal, identifying a smaller and simpler subset of the CIDOC-CRM conceptual model;
- at the same time, make sure not to loose any information about all the different facets of epigraphy-related data that will be aggregated in the EAGLE portal;
- define the resulting metadata format as simple as possible in order to simplify queries and make them easy to write and to understand.

The resulting EAGLE Aggregator Conceptual Model showed in Figure IV-1 is the starting point for the definition of the **EAGLE Aggregator Metadata Schema (EAMS)** that will be described later in Section 4.3.

In the design process we also took into account the fact that Trismegistos Cards metadata will be collected by the EAGLE aggregator for disambiguation purposes (further described in Section 4.2)

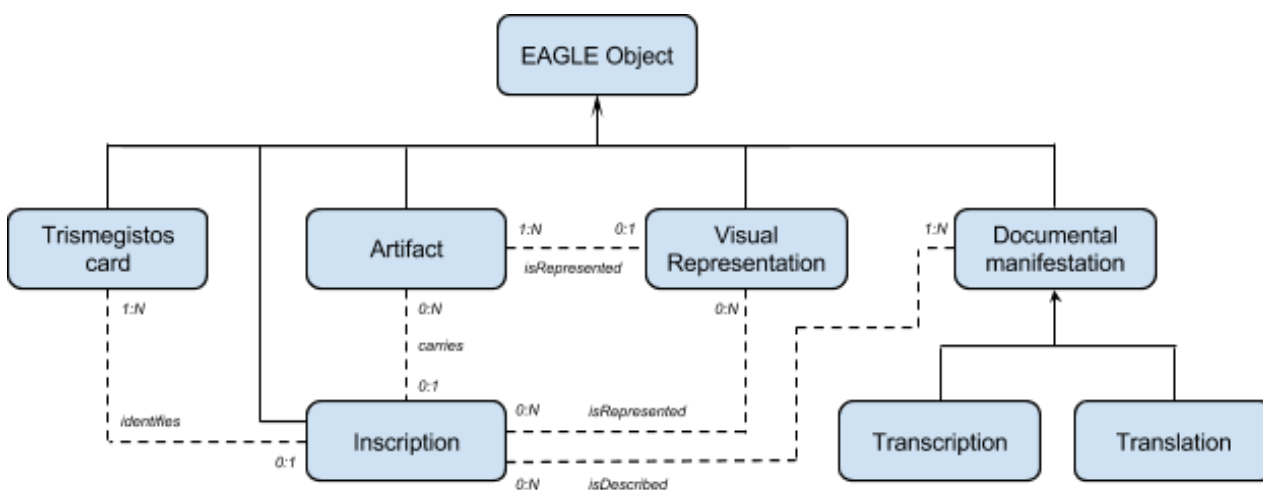


Figure IV-1 EAGLE Aggregator Conceptual Model (EACM)

The EAGLE Aggregator Conceptual Model here presented provides a different simplified view of the CIDOC-CRM model described in Part II. In particular, there is a one-to-one correspondence between the EAGLE Aggregator Conceptual Model and the proposed CIDOC-CRM for the following main entities:

- Artifact** instances jointly represent “E71 Man-made thing” and “E84 Information Carrier” in CIDOC-CRM;



- **Inscription** instances represent “E34 Inscription” in CIDOC-CRM;
- **Trismegistos card**, **Visual representation**, **Transcription** and **Translation** instances represent different materializations of “E31 Document” in CIDOC-CRM.

Other entities and relationships being identified within the CIDOC-CRM model, which are apparently missing in the diagram above, consist in structured properties of the EAGLE Aggregator Conceptual Model’s main entities, as described in the next Section.

## 4.2 EAGLE AGGREGATOR CONCEPTUAL MODEL (EACM)

Very simply, the EACM consists of a root entity (the EAGLE Object) from which five sub-entities can be derived, each one capturing some of the properties that have been identified thanks to the EpiDoc and CIDOC identification efforts, so that in the end all the information needed by the EAGLE Aggregator will be collected into the sub-entities.

### 4.2.1 EAGLE Object

The root entity in EACM is called EAGLE Object and it is the base class for all the other derived entities in the EAGLE domain. Everything modeled in EAGLE is an extension of a generic EAGLE Object implementing one of its subentities. The subentities are:

- Trimegistos card
- Artifact
- Inscription
- Visual representation
- Documental manifestation

All the information coming into the EAGLE aggregation system has to find its place into one or multiple instances of the subentities mentioned above.

The five subentities share several common properties, which are listed below (please note that many of the following definitions have already been defined both in EpiDoc and CIDOC-CRM):

- **Resource identifier**: an ID identifying the object univocally within the EAGLE aggregation system;
- **Provenance information**: this structured property provides information about the Content Provider providing metadata:
  - Content Provider name;
  - Content Provider URI;
  - Content Provider acronym;
  - Local identifier of the resource (i.e. local resource ID at the Content Provider).
- **Metadata editing information**: this structured property captures information (if available) about the last modification of metadata content and its author/curator;
- **Metadata intellectual property rights statement (IPR)**: information about the copyright status of the resource;



- **Title:** title of the resource (if available);
- **Description:** short description of the resource (if available);
- **EAGLE object type:** a string specifying which subclass of the EAGLE Object the resource belongs to.

### **Trismegistos Card (subclass of EAGLE object)**

Trismegistos cards, provided by the Louvain-Trismegistos EAGLE partner, consist of a TM identifier (a.k.a. TM number or TMid) and a set of properties describing generic features of an inscription. The same TM number can be associated to different editions (instances) of the same inscription, belonging to different Content Providers . To ensure the provision of correct de-duplicated results for the search capabilities provided by the EAGLE portal, it is vital to have in the Trismegistos Card (for each TM number) full details about the provenance of the different instances of an inscription, including both the owning Content Provider object id locally valid at the Content Provider.

Trismegistos Cards therefore consist in:

- A TM number, which is the unique identifier assigned by the Louvain-Trismegistos team to each inscription being analyzed;
- One or more properties derived from the Trismegistos data model (details yet to be defined jointly with the Louvain-Trismegistos partner);
- One or more relationships to related instances of the same inscription (each one with provenance information).

### **Artifact (subclass of EAGLE object)**

The Artifact object captures the physical nature of a resource within the EAGLE domain.

From the analysis of properties identified in EpiDoc, the following are related to the artifact:

- **Monument Type:** typology of the artifact (e.g. statue, tablet, etc.);
- **Material:** material of which the object is made of;
- **Dimensions:** structured property describing the dimensional features (height, width, depth with unit of measure) of the artifact;
- **Decoration:** describes the decoration present on the artifact;
- **Status of preservation:** describes the physical status of the artifact;
- **Dating:** structured property reporting date ranges, reference period and dating method of the artifact's origin;
- **Finding spot:** structured property locating the place of finding;
- **Year of finding:** year in which the artifact was found;
- **Place of conservation:** structured property locating the place of conservation (down to position inside a museum).

Finally, the artifact can be related to other entities in the following way:

- One or more relationships to **Visual Representation** instances picturing the item.
- Zero or more relationships to an **Inscription** instance.

The existence of at least one relationship to an inscription makes the artifact also a “support for an inscription” (in epigraphic jargon, the “Information Carrier”).

### **Inscription (subclass of EAGLE object)**

The Inscription Object is a collection of structured properties describing the textual and semantic nature of the text possibly present on the artifact.

The properties related to Inscriptions are as follows:

- **Inscription type:** label describing the type of the text inscribed on the artifact;
- **Engraving technique:** description of the type of engraving with which the text was inscribed on the artifact;
- **Metre:** value that indicates whether the text of the inscription is metrical or not and possibly the type of metric system used;
- **Field size:** two-dimensional measurement of the inscription canvas (also referred as epigraphic field);
- **Letter size:** two-dimensional measurement of the font size;
- **Paleographic characteristics:** paleographic characteristics of the inscription;
- **Inscription author:** name of the author of the inscription or the name of the artistic/artisan school;
- **Honorands:** structured property stating the person(s) to whom the inscription was dedicated and the political/social role/position of the honorand;
- **Dedicator:** name of the person who devotes the inscription;
- **Person names:** list of names mentioned within the inscription text;
- **Related event:** description about the event related to the purpose of the inscription;
- **Placenames mentioned:** list of placenames mentioned within the text;
- **Information about a possible restoration:** description and date of a possible restoration process;
- **Double-sided nature of the inscription:** states whether another inscription is present on another side of the supporting artifact;
- **Erasures:** list of intentional erasures in the text;
- **Spelling errors:** list of possible misspelled portions of the text.



Due to Inscription's nature both visual and textual, an Inscription will be in relationship with other objects in the following way:

- Zero or one relationship with a **Trismegistos Card** instance;
- Zero or one relationship with an **Artifact** instance;
- Zero or more relationships with **Visual Representation** instances;
- Zero or more relationships with **Documental Manifestation** instances.

### **Documental Manifestation (subclass of EAGLE object)**

A Documental Manifestation object contains all information related to the “textual nature” of an inscription. It has two subentities: Transcription, which gathers the information related to the text of the inscription itself, and Translation, which gathers all the translations in modern languages of the (interpreted) text of the inscription and which can be provided by a Content Provider or by a MediaWiki dedicated to the EAGLE project. The properties in common of the two subentities are the following:

- **Textual content:** the text;
- **Type of documental manifestation:** a label specifying whether the documental manifestation is a **Transcription** or a **Translation**.

### **Transcription (subclass of Documental Manifestation)**

A **Transcription** describes the inscription text in its original (ancient) language. A Transcription is related to one and only one **Inscription** object. The properties of the Transcription object are the following:

- **Type of transcription:** a transcription can be of three kinds:
  - “Sic est”: the text is reported “as is” from the physical support.
  - Expanded/Interpreted: the transcription resolves the abbreviations typical of the native language (e.g. latin gentilial names) and optionally reconstructs or interprets missing parts and unclear fragments.
  - Marked up: the transcription text is fully marked up according to some standard (e.g. Leiden Conventions or EpiDoc markup).
- **Critical apparatus:** one or more interpretation variants of the text;
- **Bibliography:** bibliographic references about the inscription;
- **Commentary:** any side commentary about the text.

### **Translation (subclass of Documental Manifestation)**

In the EAGLE Document of Work it is foreseen that additional translations of inscriptions into modern languages will be done through a “crowdsourcing” process. For this reason, translations provided by the Content Providers will be stored into MediaWiki (MW) pages dedicated to the EAGLE Project. New translations coming in the future will be stored directly into MW. Media Wiki pages with translations will be



collected directly by the Aggregator, (through a MW public API) and will be stored within the aggregation system as independent resources. In this way, inscriptions can be linked to their available translations.

The properties of the Translation object are the following:

- **Language** of the translation
- **URL**: additional web documentation to the translation item;
- **Notes**: side commentary to the translation text;
- **Author**: name of the author of the translation;
- **Copyright statement**: Intellectual property rights for the provided translation;
- **Publication title**: publication in which the translation appears;
- **Year**: year of the publication;
- **Publisher author**: the author of the publication;
- **Publication place**: place of the publication.

Finally, it is related in this way to other objects:

- One or more relationships to Inscription instances, of which it is a translation.

### **Visual Representation (subclass of EAGLE object)**

metadata Visual Representation Object collects all the material related to the “visual nature” of the epigraph being collected into the aggregation system (inscriptions, buildings, monuments, stones, etc.). A Visual Representation can be relative either to born-digital photo and computer graphics or to digitized drawings and literature; five subentities have been identified:

- Drawing
- Photo
- Digitized literature (scanned text only available as image)
- Computer graphics
- Video

The first three types of Visual Representation can be described by the same set of properties; for Computer Graphics and Videos (solely provided by Cyprus with STARC metadata format) the metadata in the aggregation system has to maintain also properties specific for 3D models and software generated renderings for Computer Graphics and Videos.

A Visual Representation is identified by the following properties:

- **Visual representation typology**: type of the provided visual representation(one out of Drawing, Photo, Digitized literature, Computer graphics, Video);
- **URL**: URL to the resource (i.e. the file containing the digital image);
- **Thumbnail**: URL to the resource thumbnail;
- **Author**: author of the item (if present);





- **Copyright statement:** Intellectual property Rights statement about the visual representation;
- **Creation date:** creation date (if present);
- **Quality:** quality indicator giving a coarse indication of the image definition (if provided);
- **Format:** format of the file (i.e. digital file extension);
- **3D-related properties:** an optional set of structured properties describing a resource of “Computer graphic” typology. Among the identified properties we list the following:
  - **Acquisition technology;**
  - **Processing information;**
  - **Horizontal resolution;**
  - **Vertical resolution;**
  - **Model dimensions;**
  - **Model area;**
  - **Model perimeter.**
- **Video-related properties:**
  - **Duration;**
  - **Resolution;**
  - **Rate.**

A Visual Representation also has the following relationships to other entities:

- Zero or one relationship with the **Artifact** pictured by the Visual Representation;
- Zero or more relationship with the **Inscription** pictured by the Visual Representation.

### 4.3 EAGLE AGGREGATOR METADATA SCHEMA (EAMS)

The EACM is materialized into an XML Schema (.xsd file) describing the format of the entities and properties identified in the model. The preliminary XML schema can be found in “ANNEX VII - XML Schema for the EAGLE Aggregator Conceptual Model”, and online at the URL <http://goo.gl/CPdxVf>.

The EAMS describes one generic Eagle Object (root object) with all its generic properties, its subentities and their specific properties. Only four main subentities out of the five presented in Section 4.2 are materialized as XML objects; in fact the Inscription object has been embedded as an optional element (xsd:choice construct) inside the Artifact entity. This has been deemed to be the simplest solution to the fact that every metadata record about an **Inscription** always comes with metadata about the physical support on top of which the Inscription is placed (i.e. an **Artifact**). Hence either an Artifact without Inscription exists (i.e. a monument for example, which cannot be considered an information carrier as the information itself is missing) or an Inscription is present (i.e. an artifact carrying information becomes an Information carrier).

Thus, every metadata record collected into the EAGLE aggregation system from one Content Provider will be transformed in one or more instances of an EAGLE Object, further specialized into one of its subentities. One metadata record is therefore transformed into one or more XML files (based on the EAMS) representing the main entities of the EACM.

In the following, we briefly show the diagrams of the main XML entities.

Conventions for symbols used in the pictures are the following:



represents the XML Schema element called “choice”, which allows only one of the elements contained in the <choice> declaration to be present within the containing element.



represents the XML Schema element called “sequence”, which specifies that the child elements must appear in a sequence following the cardinalities as indicated.



represents the XML Schema element called “all”, which indicates that all child elements can appear in any order and that each child element can occur zero or one time.

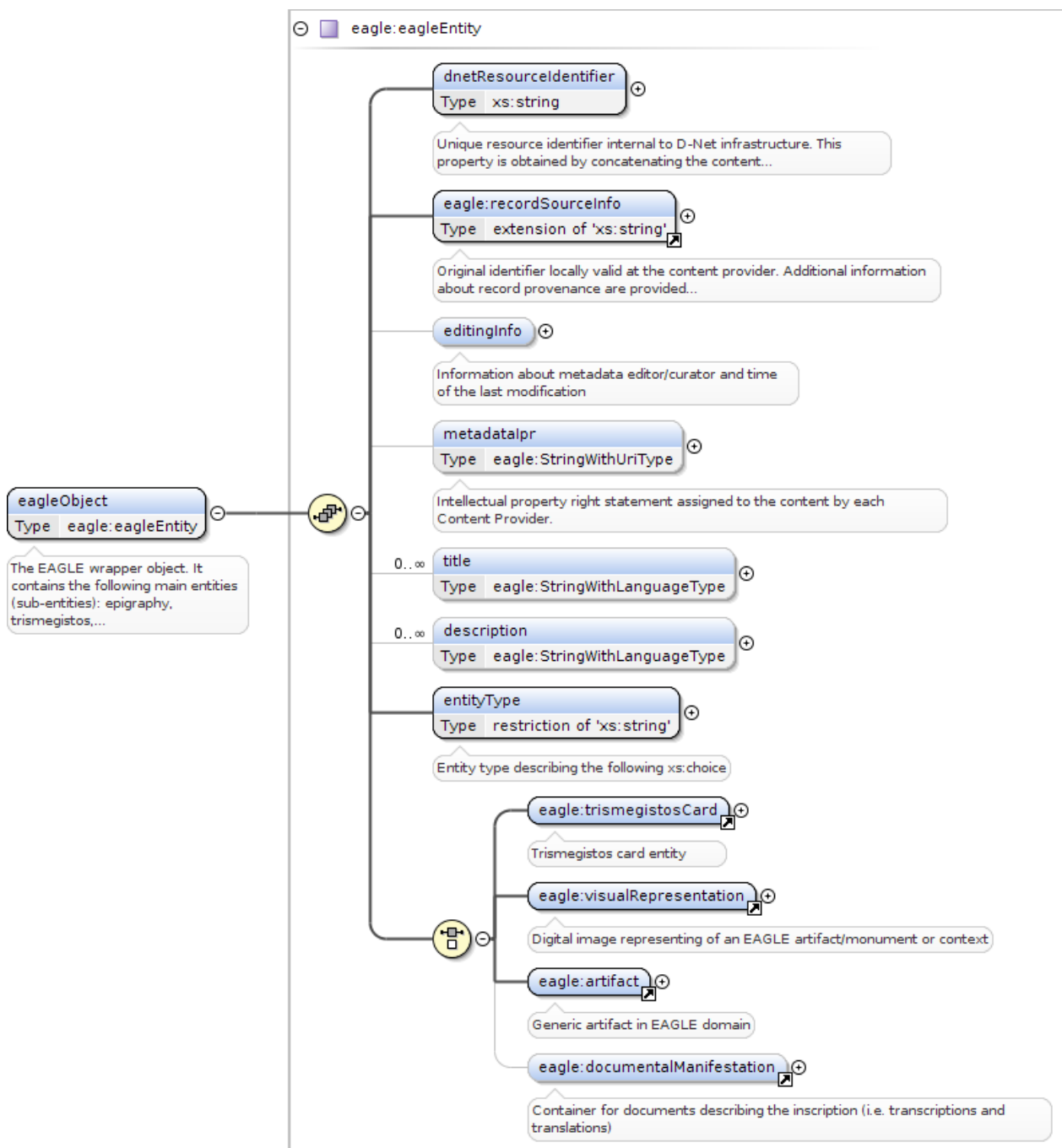


Figure IV-2 EAGLE root object

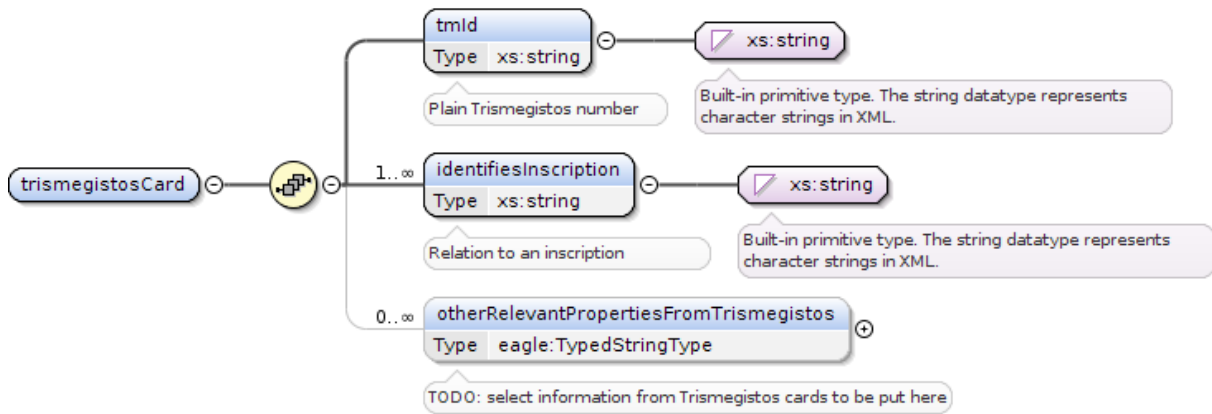


Figure IV-3 Trismegistos card entity details

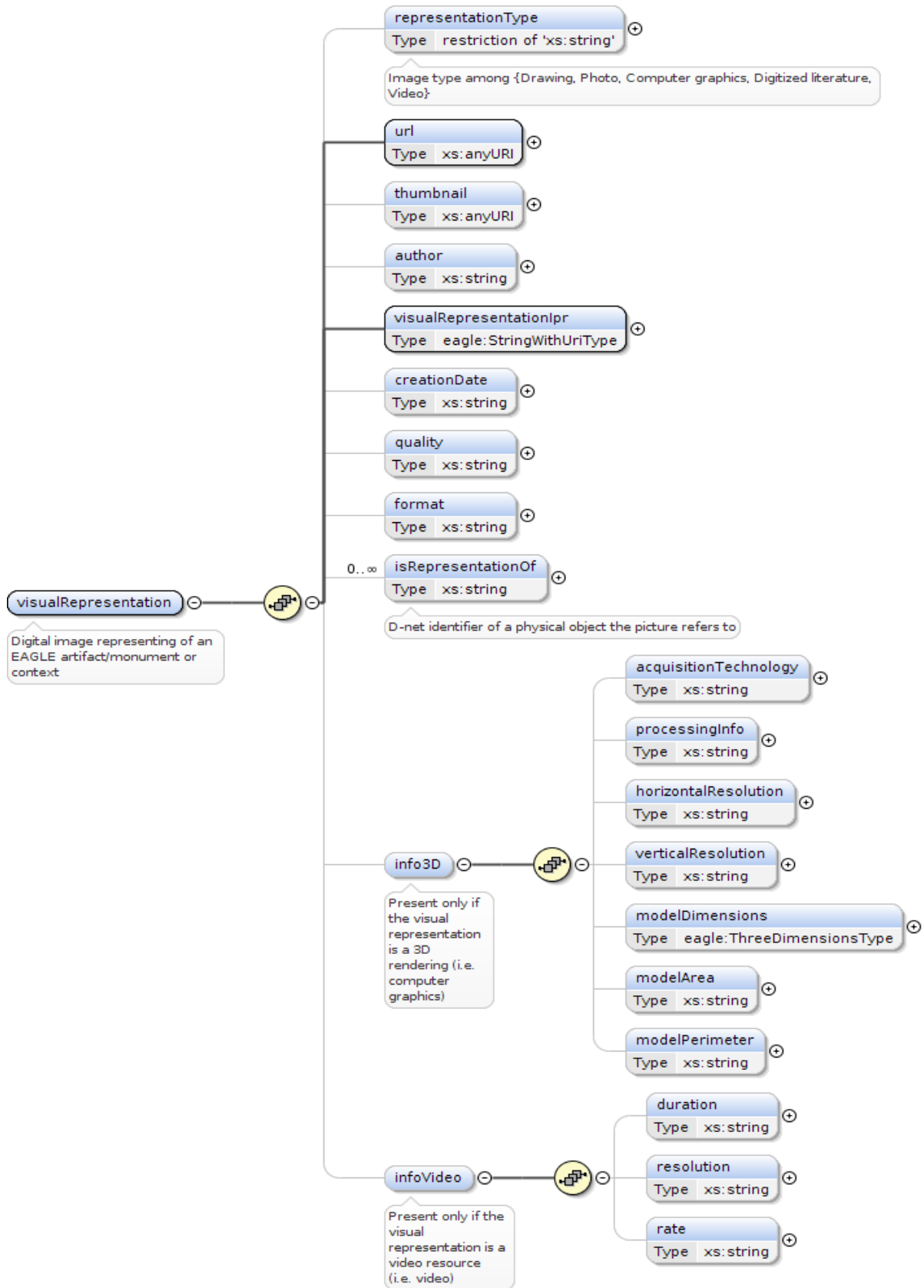


Figure IV-4 Visual Representation entity details

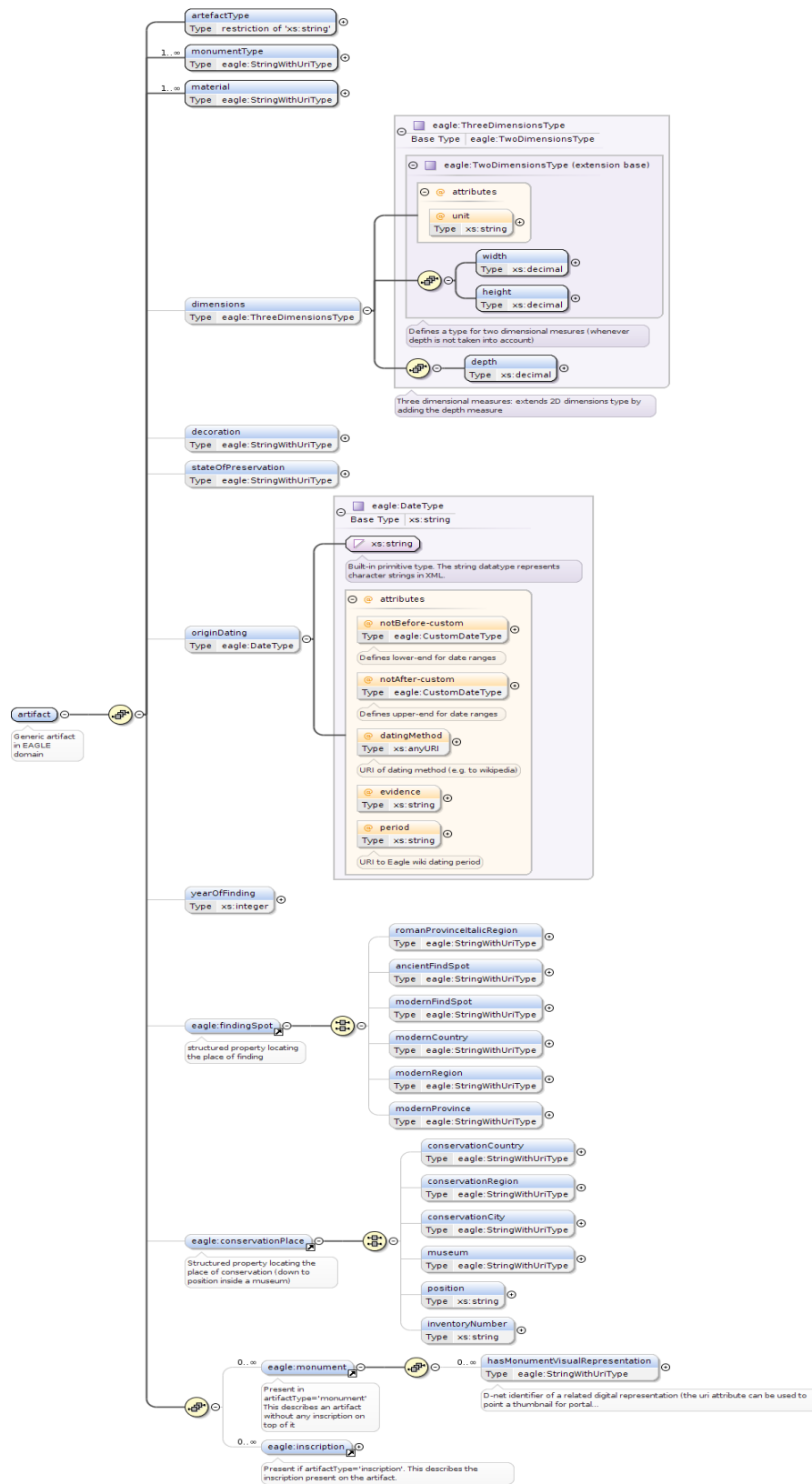


Figure IV-5 Artifact entity details

As anticipated, an inscription is a set of structured properties optionally present inside an Artifact entity. The structure of Inscription metadata is reported below.

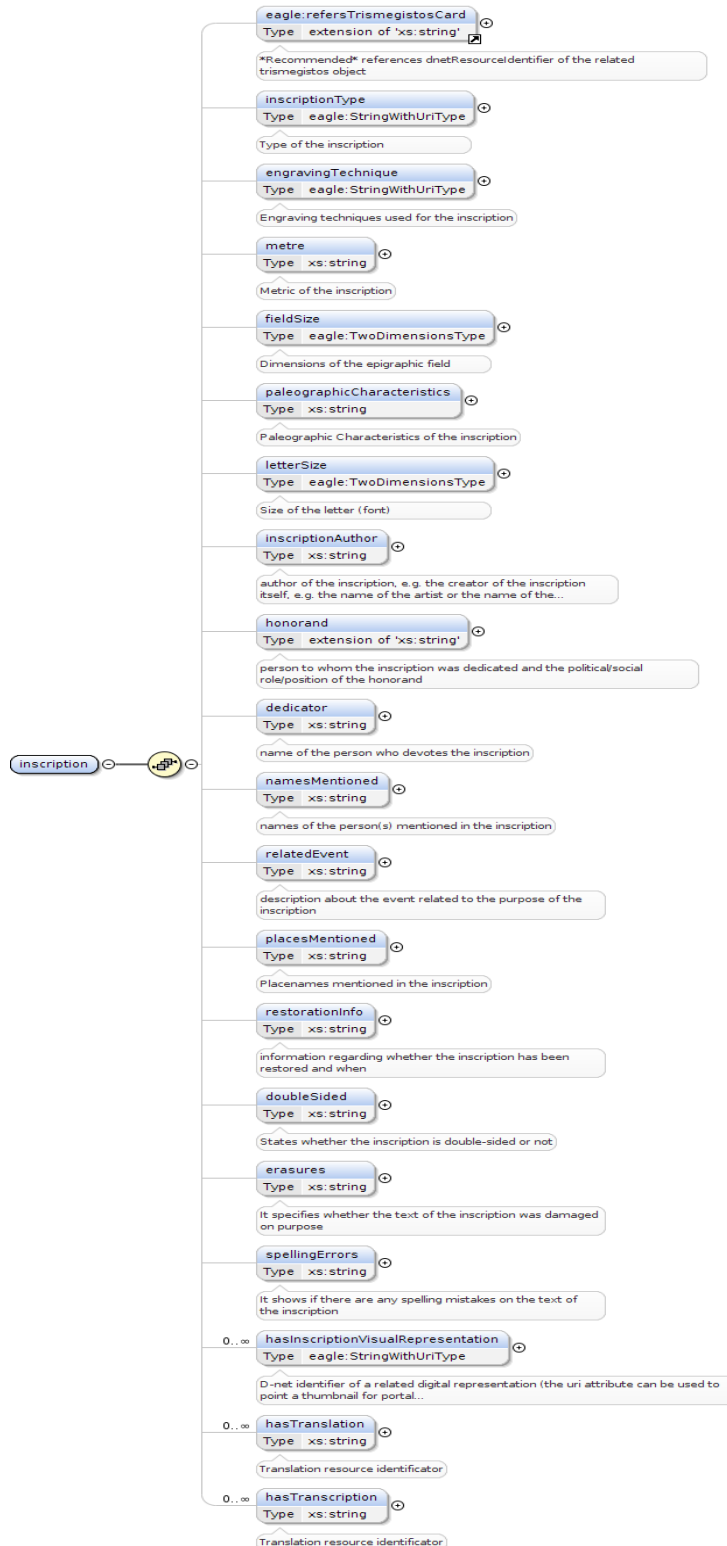


Figure IV-6 Inscription metadata details



Transcription and translation entities are designed as follows as subtypes of **documental manifestation** entity.

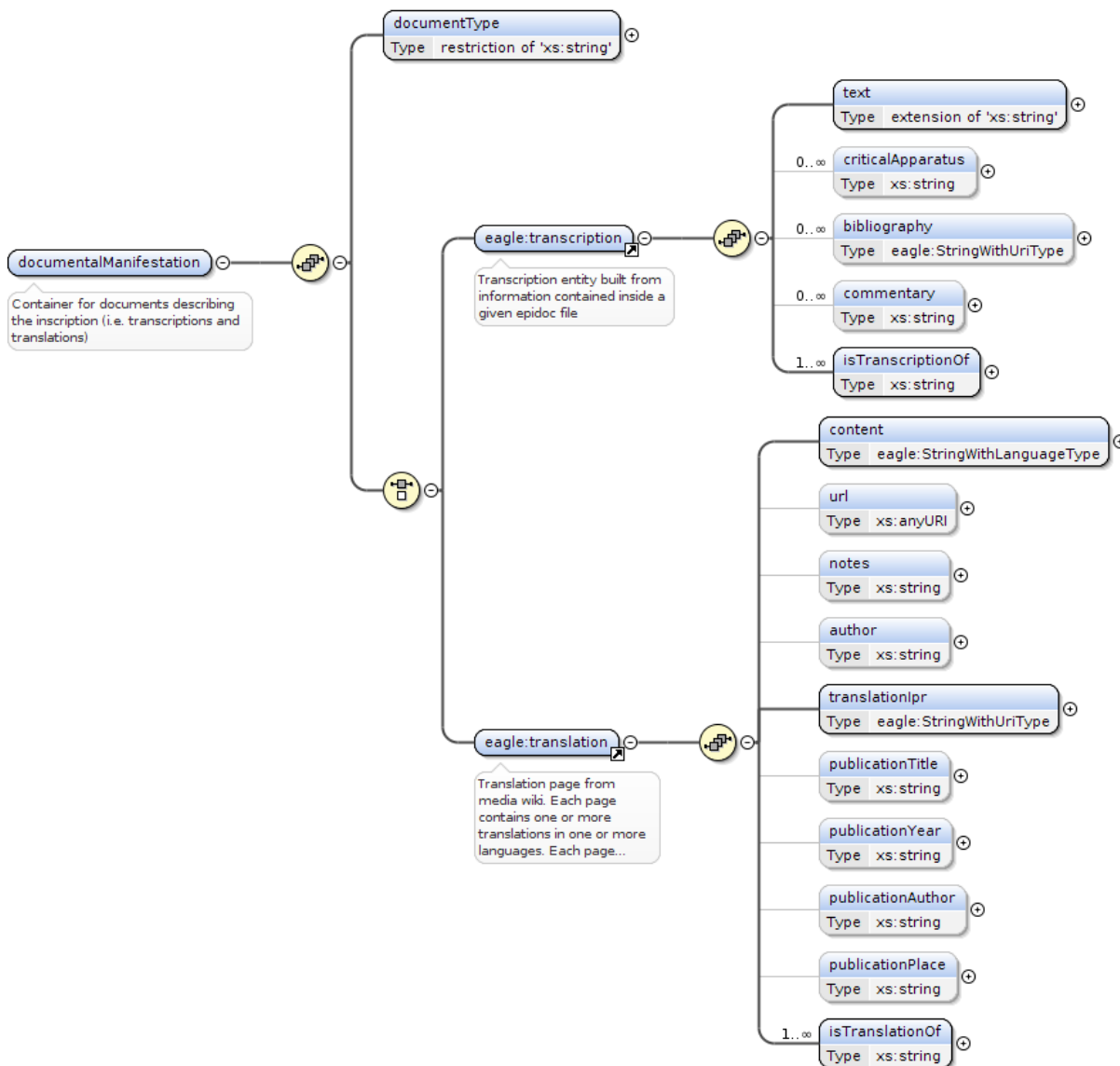


Figure IV-7 Details of transcription and translation entities

Custom types mentioned in the graphs were defined according to reuse principle. In particular the type eagle:stringWithUriType is used whenever there is a need to reference any external object such as EAGLE vocabularies or TM Geo pages and corresponds to the implementation of CIDOC-CRM “E32 authority document” and property “P70 documents”.



## ANNEX I - EAGLE METADATA SURVEY TEMPLATE

### METADATA CATEGORIES

Category	Elements

### ELEMENTS

Element name	
Datatype	
Format	
Mandatory	
Cardinality	
Description	
Examples	

Element name	
Datatype	
Format	
Mandatory	
Cardinality	
Description	
Examples	

### VOCABULARIES

Vocabulary name	
Used in	
Examples	
Description	
Allowed values	
Languages available	
Available via Web	

Vocabulary name	
Used in	
Examples	



Description	
Allowed values	
Languages available	
Available via Web	

## VOCABULARIES (ALLOWED VALUES)

Vocabulary:			
Language1	Language2	Language3	...

Vocabulary:			
Language1	Language2	Language3	...

## RELATIONAL TABLES

Table Name				
Column Name	Datatype	Repeated?	Mandatory?	Comment

Table Name				
Column Name	Datatype	Repeated?	Mandatory?	Comment



## ANNEX II - EPIDOC DOCUMENT TEMPLATE

```
<?xml-model href="http://www.stoa.org/epidoc/schema/latest/tei-epidoc.rng"
schematypens="http://relaxng.org/ns/structure/1.0"?>
<TEI
  xml:space="preserve"
  xml:lang="<!--language of database-->"
  xml:base="ex-epidoctemplate.xml"
  xmlns="http://www.tei-c.org/ns/1.0" >

  <teiHeader>
    <fileDesc>
      <titleStmt>
        <title><!--TITLE--></title>
      </titleStmt>
      <publicationStmt>
        <idno type="URI"><!--CP-URI--></idno>
        <idno type="URI">www.trismegistos.org/text/<!--TM_ID--></idno>
        <availability>
          <licence
target="http://creativecommons.org/publicdomain/zero/1.0/">Licensed
          under a Creative Commons CC0 1.0 Universal Public
Domain Dedication licence.
          </licence>
        </availability>
      </publicationStmt>
      <sourceDesc>
        <msDesc>
          <msIdentifier>
            <country>
              <placeName type="modern" ref="<!--TMgeo_id-->"><!--
-Modern Country--></placeName>
            </country>
            <region>
              <placeName type="modern" ref="<!--TMgeo_id-->"><!--
-Modern region--></placeName>
            </region>
            <settlement>
              <placeName ref="<!--TMgeo_id-->"><!--modern
findspot--></placeName>
            </settlement>
            <repository ref="<!-- trismegistos collection uri--
>"><!--present location--></repository>
            <collection></collection>
            <idno></idno>
          </msIdentifier>
```



```

    <physDesc>
      <objectDesc>
        <supportDesc>
          <support>
            <objectType ref="<!--http://www.eagle-
network.eu/voc/objtyp/lod/XX-->"><!--Type of Monument--></objectType>
            <material ref="<!--http://www.eagle-
network.eu/voc/material/lod/XX-->"><!--material--></material>
            <p></p>
            <dimensions unit="cm">
              <height><!--height--></height>
              <width><!--width--></width>
              <depth><!--depth--></depth>
            </dimensions>
            <rs type="decoration" ref="<!--www.eagle-
network.eu/voc/decoration/lod/XX-->"><!--decoration--></rs>
            <rs type="statPreserv" ref="<!--www.eagle-
network.eu/voc/statepreserv/lod/XX-->"><!--state of preservation--></rs>
          </support>
        </supportDesc>
      <layoutDesc>
        <layout>
          <rs type="execution" ref="<!--www.eagle-
network.eu/voc/writing/lod/XX-->"><!--engraving technique--></rs>
          <dimensions>
            <width unit="cm"></width>
            <height unit="cm"><!--letter size--
></height>
          </dimensions>
          <rs type="metre"></rs>
        </layout>
      </layoutDesc>
    </objectDesc>
    <handDesc>
      <handNote>
        <height unit="cm"></height>
      </handNote>
    </handDesc>
  </physDesc>

  <history>
    <origin>
      <origPlace>
        <placeName ref="<!--TM geo ID-->"
type="provinceItalicRegion"><!--PROVINCE ITALIC REGION--></placeName>
        <placeName ref="<!--TM geo ID-->"><!--ANCIENT

```



```

FINDSPOT--></placeName>
                                </origPlace>
                                <origDate
                                  notBefore-custom="<!--FROM format DD-MM-YYYY
if only year, always in 4 digits (0076) and if BC, with "-" (-0087)-->"
                                  notAfter-custom="<!--TO format DD-MM-YYYY-->"

datingMethod="http://en.wikipedia.org/wiki/Julian_calendar"
                                period="www.eagle-
network.eu/voc/dates/lod/XX">
<!--          any descriptive info on date, if any          -->
<!--  when there is uncertainty: add into <origDate></origDate>
                                the following:
                                <certainty level="high" target=".."/>
                                -->
                                </origDate>

                                </origin>
                                <provenance type="found">
                                  <date when=""><!--YEAR OF FIND--></date>
<!--  THE FOLLOWING INFORMATIONS ARE REPEATED from above, it might be
unnecessary.-->

                                <placeName ref="<!--geonames uri Modern
findspot-->"><!--modern findspot--></placeName>
                                  <placeName type="modern" ref="<!--geonames uri
Modern Country-->"><!--Modern Country--></placeName>
                                  <placeName type="modern" ref="<!--geonames uri
Modern region-->"><!--Modern region--></placeName>
                                </provenance>
                                </history>
                                </msDesc>
                                </sourceDesc>
                                </fileDesc><!-- all this section can be standard and does not need any
                                change by CP. it contains the change element which I think we can
                                use to track revisions since no versioning repository is being
                                used -->

                                <encodingDesc>
                                  <p>Marked-up according to the EpiDoc Guidelines</p>
                                <classDecl>
                                  <taxonomy>
                                    <category xml:id="representation">
                                      <catDesc>Digitized other representations</catDesc>
                                    </category>
                                  </taxonomy>
                                </classDecl>
  
```



```
</encodingDesc>
<profileDesc>
  <textClass>
<keywords>
  <term ref="<!--http://www.eagle-network.eu/voc/typeins/lod/XX-->"><!--Type
of inscription--></term>
</keywords>
  </textClass>

  <langUsage>
    <language ident="ar">Arabic</language>
    <language ident="en">English</language>
    <language ident="fr">French</language>
    <language ident="de">German</language>
    <language ident="grc">Ancient Greek</language>
    <language ident="grc-Latn">Transliterated Greek</language>
    <language ident="el">Modern Greek</language>
    <language ident="he">Hebrew</language>
    <language ident="it">Italian</language>
    <language ident="la">Latin</language>
    <language ident="sp">Spanish</language>
    <!-- all other languages -->
  </langUsage>
  <creation>EAGLE - Europeana Network of Ancient Greek and Latin
Epigraphy</creation></profileDesc>
  <revisionDesc>
    <change
      when="<!--last update format: YYYY-MM-DD-->"
      who="<!--responsible-->"
      <!--WORK STATUS-->
    </change>

  </revisionDesc>
</teiHeader>
<facsimile>
  <graphic url="<!--Foto url-->">
    <desc>Photo: <!--FOTO ID--></desc>
<!-- use ONE of the following licences according to truth. -->
    <ref type="license"
target="http://creativecommons.org/publicdomain/mark/1.0/">Licensed under a
Creative Commons Public Domani Mark 1.0</ref>
    <ref type="license" target="http://creativecommons.org/licenses/by-
sa/3.0/">Licensed under a Creative Commons Attribution-ShareAlike 3.0 Unported
licence.</ref>
  </graphic>
  <graphic url="<!--external photo link-->">
</graphic>
```





```
</facsimile>
<text>
  <body>

    <div type="bibliography">
      <listBibl>
        <!--Literature: if possible each entry as below-->
        <bibl>
          <ref target="<!--Bibliography URI-->" />
          <!--publication name or abbreviation-->
<citedRange><!--pages, images or number--></citedRange>
          </bibl>
        </listBibl>
      </div>

      <div type="edition" xml:lang="<!--la | grc | both separated by
comma-->">
        <!--      TEXT
        ESCAPED if possible (no &, < or > but the respective entities
&amp; &lt; &gt;)-->
      </div>

      <div type="apparatus">
        <p></p>
      </div>

      <div type="translation" xml:lang="<!--language abbreviation for
language of translation-->">
        <p>
          <ref type="URI"><!--http://www.eagle-
network.eu/wiki/index.php/Item:XX--></ref>
          <ref type="URL"><!--CP URL for translation if any--></ref>
<!--      TRANSLATION, if any-->
          </p><desc> <!--the following is a suggested licence for
translations: please provide the correct IPR statement IF differnt from the
general one above-->
          <ref type="license"
target="http://creativecommons.org/licenses/by-sa/3.0/">Licensed under a
Creative Commons CAttribution-ShareAlike 3.0 Unported licence.</ref>
          </desc>
        </div>

      <div type="commentary">
        <p><!--Commentary--></p>
      </div>
```

EAGLE  
Deliverable 3.1  
EAGLE metadata model specification



```
</body>  
</text>  
</TEI>
```

## ANNEX III - DETAILED ELEMENTS DESCRIPTION

### General Metadata elements

These metadata elements are available for every EAGLE object regardless of the type of object.

#### **Object identification within the content provider repository (mandatory, cardinality: 1)**

It contains the identifier of the object being described within the content provider repository.

Represented by *E42 Identifier* and related via *P1 is identified by*

```
...  
<crm:P1.is_identified_by>  
  <crm:E42.Identifier>1</crm:E42.Identifier>  
</crm:P1.is_identified_by>
```

...  
Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/publicationStmt/idno*

```
<fileDesc>  
  ...  
  <publicationStmt>  
    <idno>Object ID</idno>  
    ...  
  </publicationStmt>
```

```
  ...  
</fileDesc>
```

e.g.

```
<fileDesc>  
  ...  
  <publicationStmt>  
    <idno>1</idno>  
    ...  
  </publicationStmt>
```

#### **Object URI within the content provider repository (mandatory, cardinality: 1)**

It contains the URI of the object being described within the content provider repository.

Represented by *E42 Identifier* and related via *P1 is identified by*

...

```
<crm:P1.is_identified_by>  
  <crm:E42.Identifier type="URI">http://eda-  
bea.es/pub/record_card_1.php?rec=1</crm:E42.Identifier>  
</crm:P1.is_identified_by>
```

...

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/publicationStmt/idno*

```
<fileDesc>  
  ...  
  <publicationStmt>  
    <idno type="URI">data provider Object URI</idno>  
    ...  
  </publicationStmt>  
  ...  
</fileDesc>
```

e.g.

```
<fileDesc>  
  ...  
  <publicationStmt>  
    <idno type="URI">http://eda-  
bea.es/pub/record_card_1.php?rec=1</idno>  
    ...  
  </publicationStmt>  
  ...  
</fileDesc>
```

### **Content provider identification and language of metadata (mandatory, cardinality: 1)**

It contains the identifier of the object being described within the content provider repository.

Represented by *E42 Identifier* and related via *P1 is identified by*

...

```
<crm:P1.is_identified_by>  
  <crm:E42.Identifier type="CP" xml:lang="es">Hispania Epigraphica  
Online - HEO</crm:E42.Identifier>  
</crm:P1.is_identified_by>
```

...

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/publicationStmt/idno*



```
<fileDesc>
  ...
  <publicationStmt>
    <idno type="CP">CONTENT PROVIDER NAME - ACRONYM</idno>
    ...
  </publicationStmt>
  ...
```

<fileDesc>

e.g.

```
<fileDesc>
  ...
  <publicationStmt>
    <idno type="CP">Hispania Epigraphica Online - HEO</idno>
    ...
  </publicationStmt>
```

### **Metadata rights (not mandatory, cardinality: 1)**

This element displays the type of licence under which the metadata is provided. The value of this element is fixed to Creative Commons CC0 1.0 Universal Public Domain Dedication licence <sup>17</sup>.

Represented by *E30 Right* related via *P104 is subject to*

```
...
<crm:P104.is_subject_to>
  <crm:E30.Right
target="http://creativecommons.org/publicdomain/zero/1.0/">
  Licensed under a Creative Commons CC0 1.0 Universal Public
  Domain Dedication licence
  ...
  </crm:E30.Right>
</crm:P104.is_subject_to>
...
```

Corresponds in EpiDoc to */TEI/teiHeader/fileDesc/publicationStmt/availability/licence*

```
<publicationStmt>
  <availability>
    <licence
      target=LICENCE URL>
      LICENCE NAME
```

---

<sup>17</sup> See <http://creativecommons.org/publicdomain/zero/1.0/>

```
</licence>
</availability>
</publicationStmt>
```

e.g.

```
<publicationStmt>
  <availability>
    <licence
```

```
target="http://creativecommons.org/publicdomain/zero/1.0/">Licens
ed under a Creative Commons CC0 1.0 Universal Public Domain
Dedication licence.
```

```
</licence>
</availability>
</publicationStmt>
```

### **Metadata author and modification date (not mandatory, cardinality: 1)**

This element identifies the author of this metadata document.

Represented by *E39 Actor* related to *E30 Right* via *P75B is possessed by*

...

```
<crm:P104.is_subject_to>
  <crm:E30.Right
target="http://creativecommons.org/publicdomain/zero/1.0/">
  Licensed under a Creative Commons CC0 1.0 Universal Public
Domain Dedication licence
  <crm:P75B.is_posesed_by>
    <crm:E39.Actor date="2013-11-14">
      Eydel Rivero Ruiz, Universidad de Alcalá
    </crm:E39.Actor>
  </crm:P75B.is_posesed_by>
</crm:E30.Right>
</crm:P104.is_subject_to>
```

...

Corresponds in EpiDoc to */TEI/teiHeader/revisionDesc/change@who*

```
<revisionDesc>
  <change when=METADATA MODIFICATION DATE who=METADATA
AUTHOR/>
</revisionDesc>
</teiHeader>
```

e.g.

```
<revisionDesc>
  <change when="2013-11-14" who="Eydel Rivero Ruiz"/>
```

```
</revisionDesc>  
</teiHeader>
```

## Metadata elements for Information Carrier

### Monument type (mandatory, cardinality: \*)

It contains a reference to an element of an EAGLE hierarchical vocabulary for Type of Monuments.

Represented by *E55 Type* and related to *E84 Information Carrier* via *P2 has type*

```
<crm:E84.Information_Carrier>  
  ...  
  <crm:P2.has_type>  
    <crm:E55.Type ref="http://www.eagle-  
network.eu/voc/objtyp/lod/260">  
      Placa  
    </crm:E55.Type>  
  </crm:P2.has_type>  
  ...  
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType*

```
<physDesc>  
  <objectDesc>  
    <supportDesc>  
      <support>  
        <objectType ref="Type of Monument URI">Type of  
Monument</objectType>  
      ...  
    </support>  
  </supportDesc>  
</objectDesc>  
</physDesc>
```

e.g.

```
<physDesc>  
  <objectDesc>  
    <supportDesc>  
      <support>  
        <objectType ref="http://www.eagle-  
network.eu/voc/objtyp/lod/260"> Placa</objectType>  
      ...
```



```
    </support>
  </supportDesc>
</objectDesc>
</physDesc>
```

### **Material (mandatory, cardinality: \*)**

One or more EAGLE vocabulary elements specifying the materials of which the object is composed.

Represented by *E57 Type* and related to *E84 Information Carrier* via *P45 consist of*

```
<crm:E84.Information_Carrier>
  ...
  <crm:P45.consist_of>
    <crm:E57.Material ref="http://www.eagle-
network.eu/voc/material/lod/2">
      Piedra
    </crm:E57.Material>
  </crm:P45.consist_of>

  <crm:P45.consist_of>
    <crm:E57.Material ref="http://www.eagle-
network.eu/voc/material/lod/32">
      Lumaquela
    </crm:E57.Material>
  </crm:P45.consist_of>
  ...
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material*

```
<physDesc>
  <objectDesc>
    <supportDesc>
      <support>
        ...
        <material ref="material URI">MATERIAL</material>
        ...
      </support>
    </supportDesc>
  </objectDesc>
</physDesc>
```

e.g.

```
<physDesc>
  <objectDesc>
    <supportDesc>
      <support>
        ...
        <material ref="http://www.eagle-
network.eu/voc/material/lod/2"> Piedra</material>
        ...
      </support>
    </supportDesc>
  </objectDesc>
</physDesc>
```

**Description (not mandatory but strongly recommended, cardinality: 1)**

It contains one paragraph describing the object.

Represented by *E62 String* and related to *E84 Information Carrier* via *P3 has note*

```
<crm:E84.Information_Carrier>
```

...

```
<crm:P3.has_note>
```

Fragmento de placa de mármol blanco de Macael con la superficie pulimentada y sin adornos. Presenta una moldura simple en los tres lados conservados. Una línea incisa recorre el campo epigráfico enmarcándolo.

```
</crm:P3.has_note>
```

...

```
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p*

```
<physDesc>
  <objectDesc>
    <supportDesc>
      <support>
        ...
        <p>OBJECT DESCRIPTION</p>
        ...
      </support>
    </supportDesc>
  </objectDesc>
```

```
</physDesc>
```

e.g.

```
<physDesc>
  <objectDesc>
    <supportDesc>
      <support>
        ...
        <p part="N">Fragmento de placa de mármol blanco de
Macael con la superficie pulimentada y sin adornos. Presenta una
moldura simple en los tres lados conservados. Una línea incisa
recorre el campo epigráfico enmarcándolo.</p>
        ...
      </support>
    </supportDesc>
  </objectDesc>
</physDesc>
```

### **Dimensions (not mandatory but recommended, cardinality: \*)**

It contains the dimensions (height, width, depth) in cm, of the object that bears the inscription.

Represented by *E54 Dimension* and related to *E84 Information Carrier* via *P43 has dimension*

```
<crm:E84.Information_Carrier>
...
<crm:P43.has_dimension>
  <crm:E54.Dimension unit="cm" type="height">
    <crm:P90.has_value>41</crm:P90.has_value>
  </crm:E54.Dimension>
</crm:P43.has_dimension>

<crm:P43.has_dimension>
  <crm:E54.Dimension unit="cm" type="width">
    <crm:P90.has_value>55</crm:P90.has_value>
  </crm:E54.Dimension>
</crm:P43.has_dimension>

<crm:P43.has_dimension>
  <crm:E54.Dimension unit="cm" type="depth">
    <crm:P90.has_value>55</crm:P90.has_value>
```



```
</crm:E54.Dimesion>  
</crm:P43.has_dimesion>
```

...

```
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions*

```
<physDesc>  
  <objectDesc>  
    <supportDesc>  
      <support>  
  
        ...  
  
        <dimensions unit="cm">  
          <height>HEIGHT</height>  
          <width>WIDTH</width>  
          <depth>DEPTH</depth>  
        </dimensions>  
  
        ...  
  
      </support>  
    </supportDesc>  
  </objectDesc>  
</physDesc>
```

e.g.

```
<physDesc>  
  <objectDesc>  
    <supportDesc>  
      <support>  
  
        ...  
  
        <dimensions unit="cm">  
          <height>41.0</height>  
          <width>55.0</width>  
          <depth>5.5</depth>  
        </dimensions>  
  
        ...  
  
      </support>  
    </supportDesc>
```

```
</objectDesc>  
</physDesc>
```

### **Decoration (not mandatory, cardinality: \*)**

This field contains a word or phrase describing the decoration of the object being described. An EAGLE vocabulary will be used although free text will be allowed too.

Represented by *E62 String* and related to *E84 Information Carrier* via *P3 has note*

```
<crm:E84.Information_Carrier>  
  ...  
  <crm:P3.has_note type="decoration">  
    <crm:E62.String ref="http://www.eagle-  
network.eu/voc/decor/lod/164">Hexágono</crm:E62.String>  
  </crm:P3.has_note>  
  ...  
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs*

```
<physDesc>  
  <objectDesc>  
    <supportDesc>  
      <support>  
        ...  
        <rs type="decoration" ref="Decoration  
URI">DECORATION</rs>  
        ...  
      </support>  
    </supportDesc>  
  </objectDesc>  
</physDesc>
```

e.g.

```
<physDesc>  
  <objectDesc>  
    <supportDesc>  
      <support>  
        ...
```



```
        <rs type="decoration" ref=" http://www.eagle-  
network.eu/voc/decor/lod/164">Hexágono</rs>  
  
        ...  
    </support>  
  </supportDesc>  
</objectDesc>  
</physDesc>
```

### State of preservation (not mandatory, cardinality: 1)

This field contains a word or phrase describing the status of preservation of the object being described. A small EAGLE vocabulary can be used. Free text will be allowed as well.

Represented by *E3 Condition State* related to *E84 Information Carrier* via *P44 has condition*

```
<crm:E84.Information_Carrier>  
  
    ...  
  <crm:P44.has_condition>  
    <crm:E3.Condition_State ref="http://www.eagle-  
network.eu/voc/statepreserv/lod/6">  
      Fragmentaria  
    </crm:E3.Condition_State>  
  </crm:P44.has_condition>  
  
  ...  
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs*

```
<physDesc>  
  <objectDesc>  
    <supportDesc>  
      <support>  
  
        ...  
  
        <rs type="statConservation" ref="Status of Conservation  
URI">STATUS OF CONSERVATIION</rs>  
  
        ...  
      </support>  
    </supportDesc>  
  </objectDesc>  
</physDesc>
```



e.g.

```
<physDesc>
  <objectDesc>
    <supportDesc>
      <support>
        ...
        <rs type="statConservation" ref="http://www.eagle-
network.eu/voc/statepreserv/lod/6">Fragmentaria</rs>
        ...
      </support>
    </supportDesc>
  </objectDesc>
</physDesc>
```

**Dating (not mandatory, cardinality: 1), Chronology (not mandatory, cardinality: 1) and Dating Arguments (not mandatory, cardinality: 1)**

Represented by *E52 Time Span* which is contained within an *E12 Production* event related to *E84 Information Carrier* via *P10B was produced by*<sup>18</sup>

```
<crm:E84.Information_Carrier>
  ...
  <crm:P10B.was_produced_by>
    <crm:E12.Production>
      <crm:P4.has_time_span
        notBefore-custom="0363"
        notAfter-custom="0363"

        datingMethod="http://en.wikipedia.org/wiki/Julian_calendar"
        evidence="palaeographia"
        period="www.eagle-network.eu/voc/dates/Constantiniana">
          <crm:E52.Time_Span>
            Reinado de Juliano, hacia el 363.
          </crm:E52.Time_Span>
        </crm:P4.has_time_span>
        ...
      </crm:E12.Production>
    </crm:P10B.was_produced_by>
    ...
  </crm:E84.Information_Carrier>
```

---

<sup>18</sup> The B letter is included after the property number (P10) for indicating that it is being used in its “backward” sense.



Corresponds in TEI/EpiDoc to

*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs*

The **origDate** element will be used for this purpose. The **@period** attribute will be used for referencing an EAGLE vocabulary element specifying the historical period within which the object was created. The **@evidence** attribute will be used for recording the dating arguments. Dates will be encoded as date ranges using **@notBefore-custom** and **@notAfter-custom** attributes with format "YYYY-MM-DD". If we need to encode a single date, then the same value will be used in both attributes. If only the year needs to be stored, use always the four digit format (e.g. 0363) and for BC dates use "-" preceding the number (e.g. -0082).

```
<history>
  <origin>
    ...
    <origDate
      notBefore-custom="YYYY-MM-DD"
      notAfter-custom="YYYY-MM-DD"
      datingMethod="http://en.wikipedia.org/wiki/Julian_calendar"
      evidence="EVIDENCE"
      period="historical period URI"> Text referring to the
      date of origin </origDate>
    ...
  </origin>
</origin>
...
</history>
```

e.g.

```
<history>
  <origin>
    ...
    <origDate
      notBefore-custom="0363"
      notAfter-custom="0363"

      datingMethod="http://en.wikipedia.org/wiki/Julian_calendar"
      evidence="palaeographia"
      period=" www.eagle-
      network.eu/voc/dates/Constantiniana">Reinado de Juliano, hacia el
      363</origDate>
    ...
  </origin>
</origin>
```



...  
</history>

### **Ancient find spot (not mandatory, cardinality: 1)**

It contains a reference to the Trismegistos Geo ID (TM\_geolD) corresponding to the ancient name of the finding spot of the object.

Represented by *E53 Place* which is contained within an *E12 Production* event related to *E84 Information Carrier* via *P10B was produced by*

```
<crm:E84.Information_Carrier>
  ...
  <crm:P10B.was_produced_by>
    <crm:E12.Production>
      ...
      <crm:P7.took_place_at>
        <crm:E53.Place ref="www.trismegistos.org/place/26567"
type="ancientPlaceName">
          Alba Bastetanorum
          ...
        </crm:E53.Place>
      </crm:P7.took_place_at>
    </crm:E12.Production>
  </crm:P10B.was_produced_by>
  ...
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to  
*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName*

```
<origin>
  <origPlace>
    ...
    <placeName ref="www.trismegistos.org/place/ID">ANCIENT FIND
SPOT</placeName>
  </origPlace>
</origin>
```

e.g.

```
<origin>
  <origPlace>
    ...
    <placeName ref="www.trismegistos.org/place/26567">Alba
Bastetanorum</placeName>
```



```
</origPlace>
</origin>
```

### Roman Province / Italic Region (not mandatory, cardinality: 1)

It contains a reference to the Trismegistos Geo ID (TM\_geolD) corresponding to the Roman Province / Italic Region of the finding spot of the object.

Represented by *E53 Place* and related through property *P89 falls within* to another instance of *E53* denoting the ancient place, which, at the same time, is contained within an *E12 Production* event related to *E84 Information Carrier* via *P10B was produced by*

```
<crm:E84.Information_Carrier>
  ...
  <crm:P10B.was_produced_by>
    <crm:E12.Production>
      ...
      <crm:P7.took_place_at>
        <crm:E53.Place ref="www.trismegistos.org/place/26567"
type="ancientPlaceName">
          Alba Bastetanorum
          <crm:P89.falls_within>
            <crm:E53.place ref="www.trismegistos.org/place/16933"
type="provinceItalicRegion">
              Hispania Citerior
            </crm:E53.place>
          </crm:P89.falls_within>
        </crm:E53.Place>
      </crm:P7.took_place_at>
    </crm:E12.Production>
  </crm:P10B.was_produced_by>
  ...
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to  
 /TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName

```
<origin>
  <origPlace>
    <placeName ref="www.trismegistos.org/place/ID"
type="provinceItalicRegion">PROVINCE-ITALIC REGION</placeName>
    ...
  </origPlace>
</origin>
```

e.g.



```
<origin>
  <origPlace>
    <placeName ref="www.trismegistos.org/place/16933"
type="provinceItalicRegion">Hispania Citerior</placeName>
    ...
  </origPlace>
</origin>
```

### Modern find spot (not mandatory, cardinality: 1)

It contains a reference to the Geonames<sup>19</sup> identifier corresponding to the modern name of the finding spot (Municipality, city, etc.).

Represented by *E53 Place* which is contained within an *E12 Activity* event related to *E84 Information Carrier* via *P16B was used for*

```
<crm:E84.Information_Carrier>
  ...
  <crm:P16B.was_used_for>
    <crm:E7.Activity type="found">
      ...
      <crm:P7.took_place_at>
        <crm:E53.Place type="modernPlaceName">
          Alba
          ...
        </crm:E53.Place>
      </crm:P7.took_place_at>
    </crm:E7.Activity>
  </crm:P16B.was_used_for>
  ...
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName*

```
<provenance type="found">
  ...
  <placeName ref="http://www.geonames.org/GEONAMES_ID">MODERN
FIND SPOT</placeName>
  ...
</provenance>
```

e.g.

```
<provenance type="found">
  ...
  <placeName
```

---

<sup>19</sup> Online Geographical Database, for more information see <http://www.geonames.org/>



```
ref="http://www.geonames.org/2522483">Abla</placeName>
...
</provenance>
```

### Modern province (not mandatory, cardinality: 1)

It contains a reference to the Geonames ID corresponding to the modern name of the province where the finding spot is located.

Represented by *E53 Place* and related to other instances of E53 representing modern country, modern region and modern find spot making a chain connected by property *P89 falls within*

```
<crm:E84.Information_Carrier>
...
<crm:P16B.was_used_for>
  <crm:E7.Activity type="found">
    <crm:P7.took_place_at>
      <crm:E53.Place type="modernPlaceName">
        Alba
        <crm:P89.falls_within>
          <crm:E53.place type="modernProvince">
            Almería
            <crm:P89.falls_within>
              <crm:E53.place type="modernRegion">
                Andalucía
                <crm:P89.falls_within>
                  <crm:E53.place type="modernCountry">
                    España
                    </crm:E53.place>
                  </crm:P89.falls_within>
                </crm:E53.place>
              </crm:P89.falls_within>
            </crm:E53.place>
          </crm:P89.falls_within>
        </crm:E53.Place>
      </crm:P7.took_place_at>
    </crm:E7.Activity>
  </crm:P16B.was_used_for>
...
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName*

```
<provenance type="found">
...
  <placeName type="modernProvince"
ref="http://www.geonames.org/GEONAMES ID">PROVINCE</placeName>
</provenance>
```



e.g.

```
<provenance type="found">
  ...
  <placeName type="modernProvince"
ref="http://www.geonames.org/2521883">Almería</placeName>
</provenance>
```

### Modern region (not mandatory, cardinality: 1)

It contains a reference to the Geonames ID corresponding to the modern name of the region where the finding spot is located.

Represented by *E53 Place* and related to other instances of *E53* representing modern country, modern province and modern find spot making a chain connected by property *P89 falls within*

```
<crm:E84.Information_Carrier>
  ...
  <crm:P16B.was_used_for>
    <crm:E7.Activity type="found">
      <crm:P7.took_place_at>
        <crm:E53.Place type="modernPlaceName">
          Alba
          <crm:P89.falls_within>
            <crm:E53.place type="modernProvince">
              Almería
              <crm:P89.falls_within>
                <crm:E53.place type="modernRegion">
                  Andalucía
                  <crm:P89.falls_within>
                    <crm:E53.place type="modernCountry">
                      España
                    </crm:E53.place>
                  </crm:P89.falls_within>
                </crm:E53.place>
              </crm:P89.falls_within>
            </crm:E53.Place>
          </crm:P7.took_place_at>
        </crm:E7.Activity>
      </crm:P16B.was_used_for>
    ...
  </crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to `/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName`



```
<provenance type="found">
...
  <placeName type="modernRegion"
ref="http://www.geonames.org/GEONAMES_ID">MODERN
REGION</placeName>
</provenance>
```

e.g.

```
<provenance type="found">
...
  <placeName type="modernRegion"
ref="http://www.geonames.org/2593109">Andalucía</placeName>
</provenance>
```

### **Modern Country (not mandatory, cardinality: 1)**

It contains a reference to the Geonames ID corresponding to the modern name of the country where the finding spot is located.

Represented by *E53 Place* and related to other instances of *E53* representing modern region, modern province and modern find spot making a chain connected by property *P89 falls within*

```
<crm:E84.Information_Carrier>
...
<crm:P16B.was_used_for>
  <crm:E7.Activity type="found">
    <crm:P7.took_place_at>
      <crm:E53.Place type="modernPlaceName">
        Alba
        <crm:P89.falls_within>
          <crm:E53.place type="modernProvince">
            Almería
            <crm:P89.falls_within>
              <crm:E53.place type="modernRegion">
                Andalucía
                <crm:P89.falls_within>
                  <crm:E53.place type="modernCountry">
                    España
                  </crm:E53.place>
                </crm:P89.falls_within>
              </crm:E53.place>
            </crm:P89.falls_within>
          </crm:E53.place>
        </crm:P89.falls_within>
      </crm:E53.Place>
    </crm:P7.took_place_at>
```



```
</crm:E7.Activity>
</crm:P16B.was_used_for>
...
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName*

```
<provenance type="found">
...
  <placeName type="modernCountry"
ref="http://www.geonames.org/GEONAMES_ID">COUNTRY</placeName>
...
</provenance>
```

e.g.

```
<provenance type="found">
...
  <placeName type="modernCountry"
ref="http://www.geonames.org/2510769">España</placeName>
...
</provenance>
```

### **Year of finding (not mandatory, cardinality: 1)**

It contains a reference to the Geonames<sup>20</sup> identifier corresponding to the modern name of the finding spot (Municipality, city, etc.).

Represented by *E52 Time Span* which is contained within an *E7 Activity* event related to *E84 Information Carrier* via *P16B was used for*

```
<crm:E84.Information_Carrier>
...
<crm:P16B.was_used_for>
  <crm:E7.Activity type="found">
    <crm:P4.has_time_span>
      <crm:E52.Time_Span>
        <crm:P82.at_some_time_within>YEAR OF
FINDING</crm:P82.at_some_time_within>
      </crm:E52.Time_Span>
    </crm:P4.has_time_span>
    ...
  </crm:E7.Activity>
</crm:P16B.was_used_for>
...

```

---

<sup>20</sup> Online Geographical Database, for more information see <http://www.geonames.org/>

```
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to `/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when`

```
<provenance type="found" when="YEAR OF FINDING">
```

...

```
</provenance>
```

e.g.

```
<provenance type="found" when="1968">
```

...

```
</provenance>
```

### **Place of Conservation (not mandatory, cardinality: 1), Country (not mandatory, cardinality: 1), Region (not mandatory, cardinality: 1)**

It contains a reference to a Trismegistos TMgeo\_id for indicating the place, such as a city or town, where the object is currently located for conservation. The country and region where the place of conservation is located may be recorded as well when available using the same method.

Represented by three instances of *E53 Place* related to another instance of E53 representing the museum or institution where the object is kept. The E53 instances are interconnected using property *P89 falls within*.

```
<crm:E84.Information_Carrier>
```

...

```
<crm:P55.has_current_location>
```

```
<crm:E53.place
```

```
type="repository"
```

```
ref="www.trismegistos.org/collection/1474">
```

```
Museo Arqueológico y Etnológico de Granada
```

```
<crm:P89.falls_within>
```

```
<crm:E53.place
```

```
type="settlement"
```

```
ref="http://www.trismegistos.org/place/14135">
```

```
Granada
```

```
<crm:P89.falls_within>
```

```
<crm:E53.place
```

```
type="region"
```

```
ref="http://www.trismegistos.org/place/25979">
```

```
Andalucía
```

```
<crm:P89.falls_within>
```

```
<crm:E53.place
```

```
type="country"
```





```
        ref="http://www.trismegistos.org/place/36800">
        España
        </crm:E53.place>
        </crm:P89.falls_within>
        </crm:E53.place>
        </crm:P89.falls_within>
        </crm:E53.place>
        </crm:P89.falls_within>
        </crm:E53.place>
    </crm:P55.has_current_location>
```

...

```
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement*,  
*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placename* and  
*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placename*

```
<msDesc>
  <msIdentifier>
    <country>
      <placeName type="modern" ref="TMgeo_id" >COUNTRY
    </placeName>
  </country>
  <region>
    <placeName type="modern" ref="TMgeo_id">REGION
  </placeName>
</region>
  <settlement>
    <placeName type="modern" ref="TMgeo_id">PLACE OF
CONSERVATION
  </placeName>
</settlement>
  ...
</msIdentifier>
  ...
</msDesc>
```

e.g.

```
<msDesc>
  <msIdentifier>
    <country>
      <placeName type="modern" ref=" 855">Spain
    </placeName>
```

```
</country>
  <region>
    <placeName type="modern" ref=" 25979">Andalucía
      </placeName>
    </region>
    <settlement>
      <placeName type="modern" ref=" 14135">Granada
        </placeName>
      </settlement>
      ...
    </msIdentifier>
    ...
  </msDesc>
```

**Museum (not mandatory, cardinality: 1), Position (not mandatory, cardinality: 1)**

It contains a reference to the Trismegistos Collection URI of the repository where the object is stored. The position of the object within its corresponding repository may be recorded when available.

Represented by *E53 Place* related to *E84 Information Carrier* via *P55 has current location*.

```
<crm:E84.Information_Carrier>
  ...
  <crm:P55.has_current_location>
    <crm:E53.place
      type="repository"
      ref="www.trismegistos.org/collection/1474">
      Museo Arqueológico y Etnológico de Granada
      ...
    </crm:E53.place>
  </crm:P55.has_current_location>
  ...
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/repository*

```
<msDesc>
  <msIdentifier>
    ...
    <repository ref="TM_collection_URI"
role="Position">REPOSITORY NAME</repository>
    <collection>POSITION</collection>
```

```
    ...
  </msIdentifier>
  ...
</msDesc>
```

e.g.

```
<msDesc>
  <msIdentifier>
    ...
    <repository ref="www.trismegistos.org/collection/1474"
role="Position">Museo Arqueológico y Etnológico de
Granada</repository>
    <collection>Gallery A</collection>
    ...
  </msIdentifier>
  ...
</msDesc>
```

### **Inventory Number (not mandatory, cardinality: 1)**

It contains an identifier number for the object within the repository.

Represented by *E42 Identifier* related to *E84 Information Carrier* via *P1 is identified by*.

```
<crm:E84.Information_Carrier>
  ...
  <crm:P1.is_identified_by>
    <crm:E42.Identifier
      type="inventoryNumber">1854</crm:E42.Identifier>
    </crm:P1.is_identified_by>
  ...
</crm:E84.Information_Carrier>
```

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno*

```
<msDesc>
  <msIdentifier>
    ...
    <idno>Identifier Number</idno>
    ...
  </msIdentifier>
  ...
</msDesc>
```

e.g.

```
<msDesc>
  <msIdentifier>
    ...
    <idno>1854</idno>
    ...
  </msIdentifier>
  ...
</msDesc>
```

### **Inscription (not mandatory, cardinality: \*)**

This element identifies inscription objects carried by this information carrier.

Represented by *E34 Inscription* and related to *E84 Information Carrier* via *P128 carries*

```
<crm:E84.Information_Carrier>
  ...
  <crm:P128.carries>
    <crm:E34.Inscription>
      <crm:P1.is_identified_by>
        <crm:E42.Identifier>1</crm:E42.Identifier>
      </crm:P1.is_identified_by>
      ...
    </crm:E34.Inscription>
  </crm:P128.carries>
  ...
</crm:E84.Information_Carrier>
```

### **Visual representation (not mandatory, cardinality: \*)**

This element identifies different types of visual representation objects (photograph, drawing, graphic, etc.) that refer to this information carrier object.

Represented by *E31 Document* and related to *E34 Inscription* via *P70B is documented in*

```
<crm:E84.Information_Carrier>
  ...
  <crm:P70B.is_documented_in>
    <crm:E31.Document type="visual_rep">
      <crm:P1.is_identified_by>
        <crm:E42.Identifier>11</crm:E42.Identifier>
      </crm:P1.is_identified_by>
      ...
    </crm:E31.Document>
  </crm:P70B.is_documented_in>
  ...
</crm:E84.Information_Carrier>
```

```
</crm:P70B.is_documented_in>
...
</crm:E84.Information_Carrier>
```

## Metadata elements for the Inscription physical objects

This set of metadata elements corresponds to the inscription as physical objects that may be carried by an information carrier object.

Inscriptions are represented by *E34 Inscription* and related to *E84 Information Carrier* via *P128 carries*

```
<crm:E84.Information_Carrier>
...
<crm:P128.carries>
  <crm:E34.Inscription>
    <crm:P1.is_identified_by>
      <crm:E42.Identifier>1</crm:E42.Identifier>
    </crm:P1.is_identified_by>
    ...
  </crm:E34.Inscription>
</crm:P128.carries>
...
</crm:E84.Information_Carrier>
```

Inscriptions can also be represented in an independent document by indicating the identifier of the carrier object that bears it using property *P128B is carried by* as shown below.

```
<crm:E34.Inscription>
  <crm:P128B.is_carried_by>
    <crm:E84.Information_Carrier >
      <crm:P1.is_identified_by>
        <crm:E42.Identifier>1</crm:E42.Identifier>
      </crm:P1.is_identified_by>
    </crm:E84.Information_Carrier >
  </crm:P128B.is_carried_by>
  ...
</crm:E34.Inscription>
```

### Object Title (mandatory, cardinality: 1)

It contains a text to help identify the object. It can consist of a single field or the composition of several fields.

Represented by *E35 Title* and related to *E84 Information Carrier* via *P102 has title*

```
<crm:E34.Inscription>
  ...
  <crm:P102.has_title>
    <crm:E35.title>Fragmento del epitafio de un militar
  </crm:P102.has_title>
  ...
</crm:E34.Inscription>
```

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/titleStmt/title*

```
<fileDesc>
  <titleStmt>
    <title>OBJECT TITLE</title>
  </titleStmt>
  ...
</fileDesc>
```

e.g.

```
<fileDesc>
  <titleStmt>
    <title>Fragmento del epitafio de un militar</title>
  </titleStmt>
  ...
</fileDesc>
```

### Trismegistos number (not mandatory but recommended, cardinality: 1)

It contains the Trismegistos identifier (TM\_no or TM\_id) associated to the Trismegistos document that represents the same epigraphic object being described.

Represented by *E42 Identifier* and related via *P1 is identified by*

```
<crm:E34.Inscription>
  ...
  <crm:P1.is_identified_by>
    <crm:E42.Identifier type="TM_id">123456</crm:E42.Identifier>
  </crm:P1.is_identified_by>
  ...
```

```
</crm:E34.Inscription>
```

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/publicationStmt/idno*

```
<fileDesc>
```

```
    ...  
    <publicationStmt>  
      <idno type="TM_id">TRISMEGISTOS IDENTIFIER</idno>  
    ...  
  </publicationStmt>
```

```
    ...  
<fileDesc>
```

e.g.

```
<fileDesc>
```

```
    ...  
    <publicationStmt>  
      ...  
      <idno type="TM_id">123456</idno>  
    ...  
  </publicationStmt>
```

```
    ...  
<fileDesc>
```

### **Type of inscription (not mandatory, cardinality: 1)**

It contains a vocabulary element that indicates the type of text inscribed on the monument.

Represented by *E55 Type* related to *E34 Inscription* via *P103 was intended for*

```
<crm:E34.Inscription>  
  <crm:P103.was_intended_for>  
    <crm:E55.Type  
      ref="http://www.eagle-network.eu/voc/typeins/lod/69">  
        Honorífica  
      </crm:E55.Type>  
    </crm:P103.was_intended_for >  
    ...  
</crm:E34.Inscription>
```

Corresponds in TEI/EpiDoc to */TEI/teiHeader/profileDesc/textClass/keywords/term*

This will be specified using a **<term>** element within a **<keywords>** element. The **<term>** element will use a **@ref** attribute to indicate the EAGLE vocabulary value corresponding to this particular type of inscription. All of this will be enclosed into a **<textClass>** element in the profileDesc section of the document.

```
<profileDesc>
  <textClass>
    <keywords>
      <term ref="<!--http://www.eagle-
network.eu/voc/typeins/lod/XX-->">TYPE OF INSCRIPTION</term>
      ...
    </keywords>
  </textClass>
  ...
</profileDesc>
```

e.g.

```
<profileDesc>
  <textClass>
    <keywords>
      <term ref="http://www.eagle-
network.eu/voc/typeins/honorary">Honorífica</term>
      ...
    </keywords>
  </textClass>
  ...
</profileDesc>
```

### **Engraving technique (not mandatory, cardinality: 1)**

It contains a vocabulary element that indicates the writing technique used for this inscription. (Common EAGLE vocabulary)

Represented by *E55 Type* related to *E34 Inscription* via *P2 has type*

```
<crm:E34.Inscription>
  ...
  <crm:P2.has_type>
    <crm:E55.Type
      type="execution"
      ref="http://www.eagle-network.eu/voc/writing/lod/1">
      Chiselled
    </crm:E55.Type>
```



```
<crm:P2.has_type>  
...  
</crm:E34.Inscription>
```

Corresponds in TEI/EpiDoc to  
/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs

```
<layoutDesc>  
  <layout>  
    <rs type="execution" ref="ENGRAVING TECHNIQUE  
URI">ENGRAVING TECHNIQUE</rs>  
    ...  
  </layout>  
</layoutDesc>
```

e.g.

```
<layoutDesc>  
  <layout>  
    <rs type="execution" ref="http://www.eagle-  
network.eu/voc/writing/lod/1">Chiselled</rs>  
    ...  
  </layout>  
</layoutDesc>
```

### **Metre (not mandatory, cardinality: 1)**

It contains a value that indicates whether the text of the inscription is metrical and possibly the type of metric. Free text.

Represented by *E62 String* related to *E34 Inscription* via *P3 has note*

```
<crm:E34.Inscription>  
...  
  <crm:P3.has_note type="metre">Hexameter</crm:P3.has_note>  
...  
</crm:E34.Inscription>
```

Corresponds in TEI/EpiDoc to  
/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs

```
<layout>  
  ...  
  <rs type="metre">METRE</rs>  
  ...  
</layout>
```

e.g.

```
<layout>  
  ...  
  <rs type="metre">Hexameter</rs>
```

```
...  
</layout>
```

### Size of Epigraphical Field (not mandatory, cardinality: \*)

It contains the dimensions (in centimeters) of the epigraphic field.

Represented by two instances of *E54 Dimension*, corresponding to height and width of the epigraphical field and related to *E34 Inscription* via *P43 has dimension*

```
<crm:E34.Inscription>  
  ...  
  <crm:P43.has_dimension>  
    <crm:E54.Dimesion unit="cm" type="field_height">  
      <crm:P90.has_value>24.0</crm:P90.has_value>  
    </crm:E54.Dimesion>  
  </crm:P43.has_dimension>  
  
  <crm:P43.has_dimension>  
    <crm:E54.Dimesion unit="cm" type="field_width">  
      <crm:P90.has_value>45.0</crm:P90.has_value>  
    </crm:E54.Dimesion>  
  </crm:P43.has_dimension>  
  ...  
</crm:E34.Inscription>
```

Corresponds in TEI/EpiDoc to  
*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/dimensions*

```
<layoutDesc>  
  <layout>  
    ...  
    <dimensions>  
      <width unit="cm">WIDTH</width>  
      <height unit="cm">HEIGHT</height>  
    </dimensions>  
    ...  
  </layout>  
</layoutDesc>
```

e.g.

```
<layoutDesc>  
  <layout>  
    ...  
    <dimensions>  
      <width unit="cm">45.0</width>  
      <height unit="cm">24.0</height>  
    </dimensions>  
    ...
```

```
</layout>  
</layoutDesc>
```

### **Paleographic Characteristics (not mandatory, cardinality: 1)**

This element describes different aspects of the text that help in the reading, interpretation and cultural contextualization of the inscription. Represented by *E62 String* related to *E34 Inscription* via *P3 has note*

```
<crm:E34.Inscription>
```

```
...
```

```
<crm:P3.has_note  
  type="paleographic_notes">
```

Letra capital alargada de buena factura. Inscripción en hexámetros.

```
</crm:P3.has_note>
```

```
...
```

```
</crm:E34.Inscription>
```

Corresponds in TEI/EpiDoc to */TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote*

The Paleographic Characteristics are encoded as a free text in the **handNote** element.

```
<handDesc>
```

```
  <handNote>
```

```
    PALEOGRAPHIC CHARACTERISTICS
```

```
    ...
```

```
  </handNote>
```

```
</handDesc>
```

e.g.

```
<handDesc>
```

```
  <handNote>
```

Letra capital alargada de buena factura. Inscripción en hexámetros.

```
  ...
```

```
  </handNote>
```

```
</handDesc>
```

### **Letter size (not mandatory, cardinality: 1)**

Letter size specifies the size of the letters in the text of the inscription.

Represented by *E54 Dimension* related to *E34 Inscription* via *P43 has dimension*

```
<crm:E34.Inscription>
```

```
...
```

```
<crm:P43.has_dimension>  
  <crm:E54.Dimension
```

```
    unit="cm"
```

```
    min="4"  
    max="4.5"  
    type="letter_size">  
      <crm:P90.has_value>4.5 - 4</crm:P90.has_value>  
    </crm:E54.Dimesion>  
  </crm:P43.has_dimesion>  
  ...  
</crm:E34.Inscription>
```

Corresponds in TEI/EpiDoc to  
*/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote/height*

This element is recorded using the **height** element within a **handNote** element.

```
<handDesc>  
  <handNote>  
    PALEOGRAPHIC CHARACTERISTICS  
    <height  
      unit="cm"  
      min=MIN LETTER SIZE  
      max=MAX LETTER SIZE>LETTER SIZE</height>  
  </handNote>  
</handDesc>
```

e.g.

```
<handDesc>  
  <handNote>  
    Letra capital alargada de buena factura  
    <height  
      unit="cm"  
      min="4"  
      max="4.5">4.5 - 4</height>  
  </handNote>  
</handDesc>
```

### **Transcription (mandatory, cardinality: \*)**

This element contains the unique identifier that refers to the transcription object related to this inscription.

Represented by *E31 Document* and related to *E34 Inscription* via *P70B is documented in*

```
<crm:E34.Inscription>  
...  
<crm:P70B.is_documented_in>  
  <crm:E31.Document type="transcription">  
    <crm:P1.is_identified_by>
```

```
    <crm:E42.Identifier>1</crm:E42.Identifier>
  </crm:P1.is_identified_by>

  ...
</crm:E31.Document>
</crm:P70B.is_documented_in>
</crm:E34.Inscription>
```

### **Translation (not mandatory, cardinality: \*)**

This element contains the unique identifier that refers to the translation object related to this inscription.

Represented by *E31 Document* and related to *E34 Inscription* via *P70B is documented in*

```
<crm:E34.Inscription>

...
<crm:P70B.is_documented_in>
  <crm:E31.Document type="translation">
    <crm:P1.is_identified_by>
      <crm:E42.Identifier>1</crm:E42.Identifier>
    </crm:P1.is_identified_by>

    ...
  </crm:E31.Document>
</crm:P70B.is_documented_in>
...
</crm:E34.Inscription>
```

### **Visual Representation (not mandatory, cardinality: \*)**

This element contains the content provider identifier that refers to a visual representation object (photograph, drawing, graphic, etc.) related to this inscription.

Represented by *E31 Document* and related to *E34 Inscription* via *P70B is documented in*

```
<crm:E34.Inscription>

...
<crm:P70B.is_documented_in>
  <crm:E31.Document type="visual_rep">
    <crm:P1.is_identified_by>
      <crm:E42.Identifier>11</crm:E42.Identifier>
    </crm:P1.is_identified_by>

    ...
  </crm:E31.Document>
</crm:P70B.is_documented_in>

</crm:E34.Inscription>
```

## Other metadata elements for inscriptions

The following metadata elements allow content providers to submit several pieces of information regarding inscription objects that is specific to them.

### Author of inscription (not mandatory, cardinality: 1)

It contains the author of the inscription, e.g. the creator of the inscription itself, e.g. the name of the artist or the name of the artistic/artisan school.

```
<starc:Author_of_inscription>  
    INSCRIPTION AUTHOR  
</starc:Author_of_inscription>
```

### Honorand (not mandatory, cardinality: 1)

It contains information that identifies the person to whom the inscription was dedicated.

```
<starc:Honorand>young (?) Myrto</starc:Honorand>
```

### Political-Social status (not mandatory, cardinality: 1)

The political/social role/position of the honorand(s)

```
<starc:Political_social_status>POLITICAL-SOCIAL  
STATUS</starc:Political_social_status>
```

### Dedicator (not mandatory, cardinality: 1)

It contains the name of the person who devotes the inscription

```
<starc:Dedicator>Caesar</starc:Dedicator>
```

### Names mentioned (not mandatory, cardinality: 1)

This element makes reference to other people mentioned in the inscription.

```
<starc:Other_names>OTHER NAMES</starc:Other_names>
```

### Event of Inscription (not mandatory, cardinality: 1)

It contains a description about the event related to the purpose of the inscription.

```
<starc:Event_of_inscription>Myrto's  
deat</starc:Event_of_inscription>
```

### Locations mentioned (not mandatory, cardinality: 1)

It contains names of places mentioned in the inscription.

```
<starc:Locations_mentioned>Cyprus; Aeolian  
Elaiia</starc:Locations_mentioned>
```

### Restoration (not mandatory, cardinality: 1)

It contains information regarding whether the inscription has been restored and when.

```
<starc:Restoration>INFORMATION ABOUT  
RESTORATION</starc:Restoration>
```

### **Double side (not mandatory, cardinality: 1)**

It contains information regarding whether the inscription is double sided (repeat all the fields for both sides)

```
<starc:Double_side></starc:Double_side>
```

### **Erasures (not mandatory, cardinality: 1)**

It specifies whether the text of the inscription was damaged on purpose (e.g. an)

```
<starc:Erasures>erased word (line 2)</starc:Erasures>
```

### **Spelling errors variations (not mandatory, cardinality: 1)**

It shows if there are any spelling mistakes on the text of the inscription.

```
<starc:Spelling_errors_variations>μένφεται instead of μέμφεται  
(line 3)</starc:Spelling_errors_variations>
```

### **Editorial additions (not mandatory, cardinality: 1)**

This element contains information regarding the restoration of the letters/phrases that are missing from the text of the inscription and the names of the scholars who did the addenda

```
<starc:Editorial_additions>  
EDITORIAL ADDITIONS  
</starc:Editorial_additions>
```

### **Other Comments (not mandatory, cardinality: 1)**

It contains other information related to the inscriptions.

```
<starc:Other_info>Below the lettering of lines 1 and 4 may be  
seen the graffiti which formed the rough draft of the  
inscription. These were faithfully followed in the rest of the  
lines.</starc:Other_info>
```

## **Metadata elements for Transcriptions**

Transcriptions are represented by *E31 Document* as part of the of its corresponding inscription object via property *P70B is documented in*

```
<crm:E34.Inscription>  
...  
<crm:P70B.is_documented_in>  
  <crm:E31.Document type="transcription">  
    <crm:P1.is_identified_by>  
      <crm:E42.Identifier>1</crm:E42.Identifier>  
    </crm:P1.is_identified_by>
```

```
...
  </crm:E31.Document>
</crm:P70B.is_documented_in>
</crm:E34.Inscription>
```

Transcriptions can also be represented as a standalone document related to *E34 Inscription* using the same property in its forward way: *P70 documents*

```
...
<crm:E70.documents>
  <crm:E34.Inscription>
    <crm:P1.is_identified_by>
      <crm:E42.Identifier>1</crm:E42.Identifier>
    </crm:P1.is_identified_by>
  </crm:E34.Inscription>
</crm:E70.documents>
...
```

**Transcription text (mandatory, cardinality: 1), Language (mandatory, cardinality: \*)**

It contains the transcription text of the inscription and the language in which was written.

Represented by *E62 String* related to *E31 Document* via *P3 has note*

```
...
<crm:P3.has_note>
  <crm:P3.1.has_type>LANGUAGE/la</crm:P3.1.has_type>
  Militias nobis et praemia [Caesar iunxit]/ accepi gemini
bis praem[ia torquis turmae] / Armigerae primum comes al[terum] /
Palatarum custos dat[us ita nostras] / auxit fortunas ut
avunc[uli Constantini] / olim sacrat de nomin[e nos decorarat]
</crm:P3.has_note>
...
```

Corresponds in TEI/EpiDoc to */TEI/text/body/div/head/TEI/text/body/div/ab*

```
<text>
  <body>
    <div type="edition" xml:lang="LANGUAJE">
      <ab>TRANSCRIPTION (Greek or Latin (etc.))</ab>
    </div>
    ...
  </body>
</text>
```

e.g.





```
<text>
  <body>
    <div type="edition" xml:lang="la" part="N" org="uniform"
sample="complete">
      <head>Text</head>
      <ab>
        <lb n="1"/><orig>M</orig>ilitias nobis et praemia <supplied
reason="lost">Caesar iunxit</supplied>
        <lb n="2"/>accepi gemini bis praem<supplied reason="lost">ia torquis
turmae</supplied>
        <lb n="3"/><orig>A</orig>rmigerae primum comes al<supplied
reason="lost">terum</supplied>
        <lb n="4"/><orig>P</orig>alatarum custos dat<supplied
reason="lost">us ita nostras</supplied>
        <lb n="5"/>auxit fortunas ut avunc<supplied reason="lost">uli
Constantini</supplied>
        <lb n="6"/>olim sacrat de nomin<supplied reason="lost">e nos
decorarat</supplied>
      </ab>
    </div>
    ...
  </body>
</text>
```

Please note that this is the text once applied the EpiDoc guidelines for Leiden convention encoding. The text before encoding is as shown below:

Militias nobis et praemia [Caesar iunxit]/ accepi gemini bis praem[ia torquis  
turmae] / Armigerae primum comes al[terum] / Palatarum custos dat[us ita  
nostras] / auxit fortunas ut avunc[uli Constantini] / olim sacrat de nomin[e  
nos decorarat]

### **Critical Apparatus (not mandatory, cardinality: 1)**

It contains one or more interpretation variants of the text.

Represented by *E31 Document* related to the transcription document via *P70B is documented in*

```
...
<crm:P70B.is_documented_in>
  <crm:P67.1.has_type>DOCUMENT/apparatus</crm:P67.1.has_type>
  <crm:E31.Document>
    <crm:P3.has_note>
      HEp 14 Lín. 1: praemia [domnus iunxit]; P. Le Roux, 1992,
p. 272, lín. 3 [TERVM EXCVBIARVM]?;
    </crm:P3.has_note>
  </crm:E31.Document>
</crm:P70B.is_documented_in>
```

...

Corresponds in TEI/EpiDoc to `/TEI/text/body/div/head/TEI/text/body/div/p`

If it's required, each apparatus entry can be further encoded using the TEI elements **app**, **lem** and **rdg**.

```
<text>
  <body>
    ...
    <div type="apparatus">
      <p>CRITICAL APPARATUS</p>
    </div>
    ...
  </body>
</text>
```

e.g.

```
<text>
  <body>
    ...
    <div type="apparatus" part="N" org="uniform" sample="complete">
      <p part="N">HEp 14 Lín. 1: praemia [domnus iunxit]; P. Le Roux, 1992,
p. 272, lín. 3 [TERVM EXCVBIARVM]?;</p>
    </div>
    ...
  </body>
</text>
```

### **Commentary (not mandatory, cardinality: \*)**

It contains possible commentaries about the text.

Represented by *E31 Document* related to the transcription document via *P70B is documented in*

```
...
<crm:P70B.is_documented_in>
  <crm:P67.1.has_type>DOCUMENT/commentary</crm:P67.1.has_type>
  <crm:E31.Document>
    <crm:P3.has_note>
      Se trata de una inscripción métrica escritas en hexámetros.
    </crm:P3.has_note>
  </crm:E31.Document>
</crm:P70B.is_documented_in>
```

...

Corresponds in TEI/EpiDoc to `/TEI/text/body/div/head/TEI/text/body/div/p`

```
<text>
  <body>
    ...
    <div type="commentary">
```



```
    <p>COMMENTARY</p>
  </div>

  ...
</body>
</text>
```

e.g.

```
<text>
  <body>

    ...
    <div type="commentary" part="N" org="uniform" sample="complete">
      <p>Se trata de una inscripción métrica escritas en hexámetros.</p>
    </div>

    ...
  </body>
</text>
```

### **Bibliography (not mandatory, cardinality: 1)**

An online bibliography repository might be used to reference publications available in it.

Represented by *E31 Document* related to the transcription document via *P70B is documented in*

```
...
<crm:P70B.is_documented_in>
  <crm:P67.1.has_type>DOCUMENT/Bibliography</crm:P67.1.has_type>
  <crm:E31.Document>
    <crm:P1.is_identified_by>
      <crm:E42.Identifier>

        POSSIBLE ONLINE BIBLIOGRAPHY IDENTIFIER

      </crm:E42.Identifier>
    </crm:P1.is_identified_by>
    <crm:P3.has_note>
      Vives, ICERV (p. 293)
    </crm:P3.has_note>
  </crm:E31.Document>
</crm:P70B.is_documented_in>

<crm:P70B.is_documented_in>
  <crm:P67.1.has_type>DOCUMENT/Bibliography</crm:P67.1.has_type>
  <crm:E31.Document>
    <crm:P1.is_identified_by>
      <crm:E42.Identifier>

        POSSIBLE ONLINE BIBLIOGRAPHY IDENTIFIER

      </crm:E42.Identifier>
    </crm:P1.is_identified_by>
```



```
<crm:P3.has_note>
  Institutions, société et vie politique dans l'empire romain
  au IV siècle a.p. J. C. (Paris 1984) Roma, 1992, 265-75, lám.
  XIII
</crm:P3.has_note>
</crm:E31.Document>
</crm:P70B.is_documented_in>
```

...

Corresponds in TEI/EpiDoc to `/TEI/text/body/div/head/TEI/text/body/div/p`

```
<text>
  <body>
    ...
    <div type="bibliography">
      <listBibl>
        ...
        <bibl>
          <ref target="BIBLIOGRAPHY URI"/>
          publication name or abbreviation
          <biblScope>pages, images or number</biblScope>
        </bibl>
        ...
      </listBibl>
    </div>
    ...
  </body>
```

<text>

e.g.

```
<text>
  <body>
    ...
    <div type="bibliography">
      <listBibl>
        ...
        <bibl>
          <ref target="Bibliography URI"/>
          <biblScope>pp 72</biblScope>
        </bibl>
        ...
      </listBibl>
    </div>
```

```
...  
<body>  
<text>
```

## Metadata elements for Translations

Translations are represented by *E31 Document* as part of the of its corresponding inscription object via property *P70B is documented in*

```
<crm:E34.Inscription>  
...  
<crm:P70B.is_documented_in>  
  <crm:E31.Document type="translation">  
    <crm:P1.is_identified_by>  
      <crm:E42.Identifier>1</crm:E42.Identifier>  
    </crm:P1.is_identified_by>  
    ...  
  </crm:E31.Document>  
</crm:P70B.is_documented_in>  
</crm:E34.Inscription>
```

Translations can also be represented as a standalone document related to *E34 Inscription* using the same property in its forward way: *P70 documents*

```
...  
<crm:E70.documents>  
  <crm:E34.Inscription>  
    <crm:P1.is_identified_by>  
      <crm:E42.Identifier>1</crm:E42.Identifier>  
    </crm:P1.is_identified_by>  
  </crm:E34.Inscription>  
</crm:E70.documents>  
...
```

### Translation text and language (not mandatory, cardinality: \*)

This element contains the corresponding translation of the transcription text, including the language of translation.

Represented by *E62 String* related to the translation *E31 Document* via *P3 has note*

```
...  
<crm:P3.has_note>  
  <crm:P3.1.has_type>LANGUAGE/es</crm:P3.1.has_type>  
  Recibí premios y emblemas, premios por dos veces : primero  
  como compañero de armas (comes) de la (cohorte) Armigera ; y,  
  después, como vigilante (custos) de las (cohortes) Palatinas.
```



Aumentó su riqueza como su tío abuelo, en otro tiempo de reconocido nombre (sagrado).

```
</crm:P3.has_note>
```

...

Corresponds in TEI/EpiDoc to `/TEI/text/body/div/head/TEI/text/body/div/ab`

In this case, the `@n` attribute will indicate the internal identifier of the translation within the content provider repository. The translation text will be retrieved later from the MediaWiki.

```
<text>
  <body>
    ...
    <div type="translation" xml:lang="LANGUAJE" n="TRANSLATION ID"/>
    ...
  </body>
</text>
```

e.g.

```
<text>
  <body>
    ...
    <div type="translation" " xml:lang="es" part="N" org="uniform"
sample="complete" n="1"/>
    ...
  </body>
</text>
```

### **Translation rights (mandatory, cardinality: 1)**

It contains the type of licence assigned to the translation text.

Represented by *E30 Right* and related to the translation *E31 document* via *P104 is subject to*

```
<crm:P104.is_subject_to>
  <crm:E30.Right>
    Licensed under a Creative Commons CAttribution-ShareAlike 3.0
Unported licence.
    <crm:P1.is_identified_by>
      <crm:E42.Identifier>
        http://creativecommons.org/licenses/by-
sa/3.0/</crm:E42.Identifier>
      </crm:P1.is_identified_by>
      ...
    </crm:E30.Right>
</crm:P104.is_subject_to>
```

### Translation author (not mandatory, cardinality: 1)

This element contains the names of the translators of the text of the inscription.

Represented by *E39 Actor* and related to *E30 Right* via *P75B is possessed by*

```
<crm:P104.is_subject_to>
  <crm:E30.Right>
    Licensed under a Creative Commons CAtribution-ShareAlike 3.0
    Unported licence.
    <crm:P1.is_identified_by>
      <crm:E42.Identifier>
        http://creativecommons.org/licenses/by-
        sa/3.0/</crm:E42.Identifier>
      </crm:P1.is_identified_by>
    <crm:P75B.is_possested_by>
      <crm:E39.Actor>
        Joaquín L. Gómez-Pantoja, Universidad de
        Alcalá</crm:E39.Actor>
      </crm:P75B.is_possested_by>
    </crm:E30.Right>
  </crm:P104.is_subject_to>
```

### Publication title (mandatory, cardinality: 1)

It contains the title of the publication that contains this translation.

The act publication is modelled as an *E7 Activity* related to the translation document via *P16B was used for*. The publication title is represented by *E35 Title* and related via *P102 has title*

```
...
<crm:P16B.was_used_for>
  <crm:E7.Activity>
    <crm:P.102.has_title>
      <crm:E35.Tilte>PUBLICATION TITLE</crm:E35.Tilte>
    </crm:P.102.has_title>
    ...
  </crm:E7.Activity>
</crm:P16B.was_used_for>
...
```

### Year of publication (not mandatory, cardinality: 1)

It shows the publication year of this translation.

Represented by *E52 Time Span* and related to the E7 publication activity via *P4 has time span*

```
...
<crm:P16B.was_used_for>
  <crm:E7.Activity>
```

```
...
<crm:P4.has_time_span>
  <crm:E52.Time_Span>
    <crm:P82.at_some_time_within>
      2008
    </crm:P82.at_some_time_within>
  </crm:E52.Time_Span>
</crm:P4.has_time_span>
...
</crm:E7.Activity>
</crm:P16B.was_used_for>
...
```

### **Place of publication (not mandatory, cardinality: 1)**

It shows the publication place of this translation document.

Represented by *E53 Place* and related to the E7 publication activity via *P7 took place at*

```
...
<crm:P16B.was_used_for>
  <crm:E7.Activity>
    ...
    <crm:P7.took_place_at>
      <crm:E53.Place>Alba, España</crm:E53.Place>
    </crm:P7.took_place_at>
    ...
  </crm:E7.Activity>
</crm:P16B.was_used_for>
...
```

### **Publication author (not mandatory, cardinality: 1)**

This element shows the name of the author of the publication that contains this translation.

Represented by *E39 Actor* and related to the E7 publication activity via *P11 had participant*

```
...
<crm:P16B.was_used_for>
  <crm:E7.Activity>
    ...
    <crm:P11.had_participant>
      <crm:E39.Actor>
        PUBLICATION AUTHOR
      </crm:E39.Actor>
    </crm:P11.had_participant>
    ...
  </crm:E7.Activity>
</crm:P16B.was_used_for>
...
```



```
</crm:E7.Activity>  
</crm:P16B.was_used_for>
```

...

## Metadata elements for Visual representations (Photographs, Drawings, Graphics, etc.)

Visual representations, including photos, drawings, computer graphics, etc., can refer either to an information carrier object, bearing or not an inscription, or to the inscription itself.

Represented by *E31 Document* as part of the of its corresponding information carrier or inscription object via property *P70B is documented in*

```
...  
<crm:P70B.is_documented_in>  
  <crm:E31.Document type="visual_rep">  
    <crm:P1.is_identified_by>  
      <crm:E42.Identifier>11</crm:E42.Identifier>  
    </crm:P1.is_identified_by>  
    ...  
  </crm:E31.Document>  
</crm:P70B.is_documented_in>  
...
```

Translations can also be represented as a standalone document related to *E84 Information Carrier* or *E34 Inscription* using the same property in its forward way: *P70 documents*

```
...  
<crm:E70.documents>  
  <crm:E34.Inscription>  
    <crm:P1.is_identified_by>  
      <crm:E42.Identifier>1</crm:E42.Identifier>  
    </crm:P1.is_identified_by>  
  </crm:E34.Inscription>  
</crm:E70.documents>  
...
```

This type of object is corresponds in EpiDoc to */TEI/facsimile/graphic/*.

### Visual representation title (mandatory, cardinality: 1)

It contains a text to help identify this resource

Represented by *E35 Title* and related to *E31 Document* via *P102 has title*

```
...  
<crm:P102.has_title>  
  <crm:E35.title>Fragmento del epitafio de un militar
```

```
</crm:P102.has_title>
```

...

### Visual representation URL (mandatory, cardinality: 1)

It contains the address to the resource file.

Represented by *E42 Identifier* and related *E31 Document* via *P1 is identified by*

```
<crm:P1.is_identified_by>  
  <crm:E42.Identifier  
    type="URL">http://eda-bea.es/helper/img_wrapper.php?img=1.png  
  </crm:E42.Identifier>  
</crm:P1.is_identified_by>
```

...

Corresponds in TEI/EpiDoc to */TEI/facsimile/graphic@url*, the attribute **@n** contains the identifier of the resource in the content provider side.

```
<facsimile>  
  <graphic url="RESOURCE FILE URL" n="RESOURCE ID">  
    ...  
  </graphic>  
</facsimile>
```

e.g.

```
<facsimile>  
  <graphic url="http://eda-bea.es/helper/img_wrapper.php?img=1.png" n="11">  
    ...  
  </graphic>  
</facsimile>
```

### Visual representation type (mandatory, cardinality: 1)

It shows the type of this resource file (Drawing, Photo, Digitized literature, Computer graphics).

Represented by *E55 Type* and related to *E31 Document* via *P2 has type*

...

```
<crm:P2.has_type>  
  <crm:E55.Type>  
    Photo  
  </crm:E55.Type>  
</crm:P2.has_type>
```

...

### Format (not mandatory, cardinality: 1)

This element contains a value that indicates the format of this digital resource.

Represented by *E62 String* and related to *E31 Document* via *P3 has note*

```
...  
<crm:P3.has_note>  
  <crm:E62.String type="format">  
    JPEG  
  </crm:E62.String>  
</crm:P3.has_note>  
...
```

### Visual representation inventory number

It contains an identifier number for the object within the repository.

Represented by *E42 Identifier* related to *E31 Document* via *P1 is identified by*.

```
...  
<crm:P1.is_identified_by>  
  <crm:E42.Identifier  
    type="inventoryNumber">1234</crm:E42.Identifier>  
</crm:P1.is_identified_by>  
...
```

### Visual representation rights (mandatory, cardinality: 1)

It contains the type of licence assigned to this visual resource.

Represented by *E30 Right* and related to *E31 Document* via *P104 is subject to*

```
...  
<crm:P104.is_subject_to>  
  <crm:E30.Right>  
    Licensed under a Creative Commons Attribution-ShareAlike 3.0  
    Unported licence.  
  <crm:P1.is_identified_by>  
    <crm:E42.Identifier>  
      http://creativecommons.org/licenses/by-sa/3.0/</crm:E42.Identifier>  
  </crm:P1.is_identified_by>  
  ...  
</crm:E30.Right>  
</crm:P104.is_subject_to>  
...
```

Corresponds in TEI/EpiDoc to */TEI/facsimile/graphic/desc/ref*.

```
<facsimile>  
  <graphic url="RESOURCE FILE URL" n=" RESOURCE ID">  
    <desc>RIGHTS HOLDER
```



```
<!--use ONE of the following licences-->
<ref type="license"
target="http://creativecommons.org/publicdomain/mark/1.0/">Licensed under a
Creative Commons Public Domani Mark 1.0</ref>
<ref type="license"
target="http://creativecommons.org/licenses/by-sa/3.0/">Licensed under a
Creative Commons Attribution-ShareAlike 3.0 Unported licence.</ref>
</desc>
</graphic>
</facsimile>
```

e.g.

```
<facsimile>
<graphic url="http://eda-bea.es/helper/img_wrapper.php?img=1.png" n="11">
<desc>Archivo Epigráfico de Hispania

<ref type="license" target="http://creativecommons.org/licenses/by-
sa/3.0/">Licensed under a Creative Commons Attribution-ShareAlike 3.0
Unported licence</ref>

</desc>
</graphic>
</facsimile>
```

### **Visual representation author (not mandatory, cardinality: 1)**

This element contains the names of the creators of this visual resource.

Represented by *E39 Actor* and related to *E30 Right* via *P75B is possessed by*

```
<crm:P104.is_subject_to>
<crm:E30.Right>
Licensed under a Creative Commons Attribution-ShareAlike 3.0
Unported licence.
<crm:P1.is_identified_by>
<crm:E42.Identifier>
http://creativecommons.org/licenses/by-
sa/3.0/</crm:E42.Identifier>
</crm:P1.is_identified_by>
<crm:P75B.is_posesed_by>
<crm:E39.Actor>
Archivo Epigráfico de Hispania
</crm:E39.Actor>
</crm:P75B.is_posesed_by>
</crm:E30.Right>
</crm:P104.is_subject_to>
```

Corresponds in TEI/EpiDoc to */TEI/facsimile/graphic/desc*.

```
<facsimile>
  <graphic url="RESOURCE FILE URL" n=" RESOURCE ID">
    <desc>RIGHTS HOLDER
      <!--use ONE of the following licences-->
      <ref type="license"
target="http://creativecommons.org/publicdomain/mark/1.0/">Licensed under a
Creative Commons Public Domani Mark 1.0</ref>
      <ref type="license"
target="http://creativecommons.org/licenses/by-sa/3.0/">Licensed under a
Creative Commons Attribution-ShareAlike 3.0 Unported licence.</ref>
    </desc>
  </graphic>
</facsimile>
```

e.g.

```
<facsimile>
  <graphic url="http://eda-bea.es/helper/img_wrapper.php?img=1.png" n="11">
    <desc>Archivo Epigráfico de Hispania
      <ref type="license" target="http://creativecommons.org/licenses/by-
sa/3.0/">Licensed under a Creative Commons Attribution-ShareAlike 3.0
Unported licence</ref>
    </desc>
  </graphic>
</facsimile>
```

### **Creation date (not mandatory, cardinality: 1)**

It contains the date of creation of this visual resource.

The act of creation of this resource is represented by an instance of *E63 Beginning of Existence*. The creation date is represented by *E52 Time Span* and related to E63 via *P4 has time span*

```
<crm:P92B.was_brought_into_existence_by>
  <crm:E63.Beginning_of_Existence>
    <crm:P4.has_time_span>
      <crm:E52.Time_Span>
        <crm:P82.at_some_time_within>
          1996-11-21
        </crm:P82.at_some_time_within>
      </crm:E52.Time_Span>
    </crm:P4.has_time_span>
  </crm:E63.Beginning_of_Existence>
</crm:P92B.was_brought_into_existence_by>
```

### **Visual representation ancient findspot (not mandatory, cardinality: 1)**

It contains a reference to the Trismegistos Geo ID (TM\_geolD) corresponding to the ancient name of the finding spot of the object to which this visual representation refers to.

Represented by *E53 Place* related to *E31 Document* via *P67 refers to*

```
...
<crm:P67.refers_to>
  <crm:E53.Place
ref="www.trismegistos.org/place/26567"
type="ancientPlaceName">
  Alba Bastetanorum
  ...
  </crm:E53.Place>
</crm:P67.refers_to>
...
```

### **Visual representation Roman Province / Italic Region (not mandatory, cardinality: 1)**

It contains a reference to the Trismegistos Geo ID (TM\_geolD) corresponding to the name of the Roman Province / Italic Region of the object to which this visual representation refers to.

Represented by *E53 Place* related to the instance of *E53 Place* that represents the ancient find spot via *P89 falls within*

```
...
<crm:P67.refers_to>
  <crm:E53.Place
ref="www.trismegistos.org/place/26567"
type="ancientPlaceName">
  Alba Bastetanorum
  <crm:P89.falls_within>
    <crm:E53.place
ref="www.trismegistos.org/place/16933"
type="provinceItalicRegion">
  Hispania Citerior
  </crm:E53.place>
  </crm:P89.falls_within>
  </crm:E53.Place>
</crm:P67.refers_to>
...
```

### **Visual representation modern findspot (not mandatory, cardinality: 1)**

It contains a reference to the Geonames identifier corresponding to the modern name of the finding spot of the object to which this visual representation refers to.

Represented by *E53 Place* related to *E31 Document* via *P67 refers to*

```
...
```

```
<crm:P67.refers_to>
  <crm:E53.Place
    ref=http://www.geonames.org/2522483
    type="modernPlaceName">
    Alba
    ...
  </crm:E53.Place>
</crm:P67.refers_to>
...
```

### Visual representation modern country (not mandatory, cardinality: 1)

It contains a reference to the Geonames identifier corresponding to the modern name of the country of the object to which this visual representation refers to.

Represented by *E53 Place* related to the instance of *E53 Place* that represents the modern find spot via *P89 falls within*

```
...
<crm:P67.refers_to>
  <crm:E53.Place
    ref=http://www.geonames.org/2522483
    type="modernPlaceName">
    Alba
    <crm:P89.falls_within>
      <crm:E53.place
        ref=http://www.geonames.org/2510769
        type="modernCountry">
        España
      </crm:E53.place>
    </crm:P89.falls_within>
  </crm:E53.Place>
</crm:P67.refers_to>
...
```

### Visual representation description (not mandatory, cardinality: 1)

This element contains a description of this visual resource including its quality and other aspects.

Represented by *E62 String* and related to *E31 Document* via *P3 has note*

```
...
<crm:P3.has_note>
  DESCRIPTION
</crm:P3.has_note>
...
```

## Other metadata elements for Visual representations

The following metadata elements allow content providers to submit several pieces of information regarding visual representation objects that is specific to them.

### Readable (not mandatory, cardinality: 1)

...

```
<daiImage:readable>READABLE</daiImage:readable>
```

...

### Writable (not mandatory, cardinality: 1)

...

```
<daiImage:writable>WRITEABLE</daiImage:writable>
```

...

### Acquisition technology (not mandatory, cardinality: 1)

It contains information about the acquisition technology that was used for the acquirement of this digital resource including photography, 2D and 3D scanning, photogrammetry, Reflectance Transformation Imaging (RTI), total station and GPS location.

...

```
<starc:acquisition_technology>  
  ADQUISITION TECHNOLOGY  
</starc:acquisition_technology>
```

...

### Processing information (not mandatory, cardinality: 1)

This element describes the software tools and methods employed for processing the acquired data to produce the desired outcomes.

...

```
<starc:processing>PROCESSING</starc:processing>
```

...

## Metadata elements for 3D graphics visual materializations

These metadata elements correspond to a special case of Visual representation: 3D graphics mostly provide by The Cyprus Institute.



### **Horizontal resolution (not mandatory, cardinality: 1)**

It contains the value of the horizontal resolution for 3D PDF and 3D model resources.

...  
<starc:horizontal\_resolution>266</starc:horizontal\_resolution>  
...

### **Vertical resolution (not mandatory, cardinality: 1)**

It contains the value of the vertical resolution for 3D PDF and 3D model resources.

...  
<starc:vertical\_resolution>266</starc:vertical\_resolution>  
...

### **Model height (not mandatory, cardinality: 1)**

It contains the value that represents the height of modelled object.

...  
<starc:height>23 metres</starc:height>  
...

### **Model length (not mandatory, cardinality: 1)**

It contains the value that represents the length of modelled object.

...  
<starc:length>88 metres (diameter)</starc:length>  
...

### **Model width (not mandatory, cardinality: 1)**

It contains the value that represents the width of modelled object.

...  
<starc:width>  
12.4 metres (radius from the center to the orchestra)  
</starc:width>  
...

### **Model area (not mandatory, cardinality: 1)**

It contains the value that represents the area of modelled object.

...  
<starc:area>1700 square metres</starc:area>  
...

### **Model perimeter (not mandatory, cardinality: 1)**

It contains the value that represents the perimeter of modelled object.

...

```
<starc:perimeter>146 metres</starc:perimeter>
```

...

## **Metadata elements for video resources**

### **Video duration (not mandatory, cardinality: 1)**

```
<starc:duration></starc:duration>
```

### **Video resolution (not mandatory, cardinality: 1)**

```
<starc:resolution></starc:resolution>
```

### **Video rate (not mandatory, cardinality: 1)**

```
<starc:frame_rate></starc:frame_rate>
```

## **Metadata elements for 3D graphics visual materializations**

These metadata elements correspond to a special case of Visual representation: 3D graphics mostly provide by The Cyprus Institute.

### **Horizontal resolution (not mandatory, cardinality: 1)**

It contains the value of the horizontal resolution for 3D PDF and 3D model resources.

...

```
<starc:horizontal_resolution>266</starc:horizontal_resolution>
```

...

### **Vertical resolution (not mandatory, cardinality: 1)**

It contains the value of the vertical resolution for 3D PDF and 3D model resources.

...

```
<starc:vertical_resolution>266</starc:vertical_resolution>
```

...

### **Model height (not mandatory, cardinality: 1)**

It contains the value that represents the height of modelled object.

...

```
<starc:height>23 metres</starc:height>
```

...

### **Model length (not mandatory, cardinality: 1)**

It contains the value that represents the length of modelled object.

...

```
<starc:length>88 metres (diameter)</starc:length>
```

...

### **Model width (not mandatory, cardinality: 1)**

It contains the value that represents the width of modelled object.

...

```
<starc:width>  
  12.4 metres (radius from the center to the orchestra)  
</starc:width>
```

...

### **Model area (not mandatory, cardinality: 1)**

It contains the value that represents the area of modelled object.

...

```
<starc:area>1700 square metres</starc:area>
```

...

### **Model perimeter (not mandatory, cardinality: 1)**

It contains the value that represents the perimeter of modelled object.

...

```
<starc:perimeter>146 metres</starc:perimeter>
```

...

## **Metadata elements for video resources**

### **Video duration (not mandatory, cardinality: 1)**

```
<starc:duration></starc:duration>
```

### **Video resolution (not mandatory, cardinality: 1)**

```
<starc:resolution></starc:resolution>
```

### **Video rate (not mandatory, cardinality: 1)**

```
<starc:frame_rate></starc:frame_rate>
```



## Description of encoding, profile and revision (EpiDoc specific)

All this section can be standard and does not need any change by the content providers.

```
<encodingDesc>
  <p part="N">Marked-up according to the EpiDoc Guidelines</p>
  <classDecl>
    <taxonomy>
      <category xml:id="representation">
        <catDesc>Digitized other representations</catDesc>
      </category>
    </taxonomy>
  </classDecl>
</encodingDesc>
<profileDesc>
  <langUsage default="false">
    <language ident="ar">Arabic</language>
    <language ident="en">English</language>
    <language ident="fr">French</language>
    <language ident="de">German</language>
    <language ident="grc">Ancient Greek</language>
    <language ident="grc-Latn">Transliterated Greek</language>
    <language ident="el">Modern Greek</language>
    <language ident="he">Hebrew</language>
    <language ident="it">Italian</language>
    <language ident="la">Latin</language>
    <language ident="sp">Spanish</language>
    <!-- all other languages -->
  </langUsage>
  <creation>EAGLE - Europeana Network of Ancient Greek and Latin
  Epigraphy</creation>
  ...
</profileDesc>
```

## ANNEX IV - DETAILED MAPPING TABLES FOR PROVIDERS

### MAPPING FOR EPIGRAPHIC DATABASE ROMA (UNIROMA1)

Element Name	CIDOC - CRM	EpiDoc xpath	EDR
General			
Object ID in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Object URI in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Content provider identification and language of metadata	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Metadata rights	Represented by E30 Right related via P104 is subject to	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence	fixed value
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by	/TEI/teiHeader/revisionDesc/change	author
Information Carrier			
Monument type	E55 Type related to E84 Information Carrier via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType	
Material	E57 Type related to E84 Information Carrier via P45 consist of	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material	

Element Name	CIDOC - CRM	EpiDoc xpath	EDR
Description	E62 String related to E84 Information Carrier via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p	
Dimensions	E54 Dimension related to E84 Information Carrier via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions	
Decoration	E62 String related to E84 via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	
State of preservation	E3 Condition State related to E84 via P44 has condition	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	Lost
Dating	Represented by E52 Time Span which is contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	dat_tag (Dating Day); dat_monat /Dating Month); dat_jahr_a (Dating from ...); dat_jahr_e (Dating to ...) datazione (Dating Arguments)
Dating-from		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notBefore	from
Dating-to		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notAfter	to
Dating-arguments		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@evidence	



Element Name	CIDOC - CRM	EpiDoc xpath	EDR
Dating-day			day
Dating-year			year
Dating-uncertainty			
Dating-chronology		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@period	
Dating-Text		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	
Roman Province / Italic Region	E53 Place related through property P89 falls within to another instance of E53 denoting the ancient place	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName/@type	provinz (Roman Province or Ancient Italy Regions)
Ancient find spot	E53 Place contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName	fo_antik (Ancient Name of the Finding Place)
Modern find spot	E53 Place contained within an E12 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	fo_modern (Modern Name of the Finding Place)
Provenance description	E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance	
Modern Country	E53 Place related to other instances of E53 representing modern region, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	land (Modern Country)

Element Name	CIDOC - CRM	EpiDoc xpath	EDR
Modern region	E53 Place related to other instances of E53 representing modern country, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	n.a.
Modern Province	E53 Place related to other instances of E53 representing modern country, modern region and modern find spot via property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	n.a.
Year of find	E52 Time Span which is contained within an E7 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when	n.a.
Country	E53 Place related to another instance of E53 representing the museum	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placeName	n.a.
Region		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placeName	n.a.
Place of Conservation		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement	aufbewahrung (Preservation)
Museum	E53 Place related to E84 Information Carrier via P55 has current location	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/repository	



Element Name	CIDOC - CRM	EpiDoc xpath	EDR
Inventory Number	E42 Identifier related to E84 Information Carrier via P1 is identified by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno	n.a.
Inscription			
Object Title	E35 Title related to E84 via P102 has title	/TEI/teiHeader/fileDesc/titleStmt/title	
TM no.( Trismegistos number)	E42 Identifier and related via P1 is identified by	/TEI/teiHeader/fileDesc/publicationStmt/idno	TBA
Type of inscription	E55 Type related to E34 Inscription via P103 was intended for	/TEI/teiHeader/profileDesc/textClass/keywords/terms	i_gattung (Classification of the Inscription)
Engraving technique	E55 Type related to E34 Inscription via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs	scriptura (Script)
Metre	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs	testo_epigr carmen (YES/NO) + typologia
Size Of Epigraphical Field	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/dimensions	n.a.
Paleographic Characteristics	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote	n.a.
Letter size	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote/height	mis_lettere (Height of Letters - cm)



Element Name	CIDOC - CRM	EpiDoc xpath	EDR
Author of inscription			
Honorand			
Political-Social status			
Dedicator			
Names mentioned			
Event of Inscription			
Location mentioned			
Restoration			
Double side			
Erasures			
Spelling errors variations			
Editorial additions			
Other Comments			
Transcription			
Transcription text and language	E62 String related to E31 Document via P3 has note	/TEI/text/body/div/@xml:lang for the language and /TEI/text/body/div/ab for the text	(Text with diacritical mark Marks) / testo_ric (Text without Diacritical Marks) lingua (Languages used in inscription)
Critical Apparatus	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	Apparato (Variants and Commentary)
Commentary	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	

Element Name	CIDOC - CRM	EpiDoc xpath	EDR
Bibliography	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div	Bibliografia (Bibliography)
Translation			
Translation text	E62 String related to the translation E31 Document via P3 has note	/TEI/text/body/div	n.a.
Translation rights	E30 Right and related to the translation E31 document via P104 is subject to		
Translation author	E39 Actor and related to E30 Right via P75B is possessed by		
Publication title	E35 Title and related via P102 has title		
Year of publication	E52 Time Span and related to the E7 publication activity via P4 has time span		
Place of publication	E53 Place and related to the E7 publication activity via P7 took place at		
Publication author	E39 Actor and related to the E7 publication activity via P11 had participant		

Element Name	CIDOC - CRM	EpiDoc xpath	EDR
Visual representation			
Visual representation title	E35 Title and related to E31 Document via P102 has title		
Visual representation URL	E42 Identifier and related E31 Document via P1 is identified by	/TEI/facsimile/graphic@url	
Visual representation type	E55 Type and related to E31 Document via P2 has type		
Format	E62 String and related to E31 Document via P3 has note		
Visual representation inventory number	E42 Identifier related to E31 Document via P1 is identified by		
Visual representation rights	E30 Right and related to E31 Document via P104 is subject to	/TEI/facsimile/desc/ref@type="license" and /TEI/facsimile/desc/ref@target="license url"	
Visual representation author	E39 Actor and related to E30 Right via P75B is possessed by	/TEI/facsimile/desc	
Creation date	E52 Time Span and related to E63 via P4 has time span		
Visual representation ancient findspot	E53 Place related to E31 Document via P67 refers to		



Element Name	CIDOC - CRM	EpiDoc xpath	EDR
Visual representation Roman Province / Italic Region	E53 Place related to the instance of E53 Place that represents the ancient find spot via P89 falls within		
Visual representation modern findspot	E53 Place related to E31 Document via P67 refers to		
Visual representation modern country	E53 Place related to the instance of E53 Place that represents the modern find spot via P89 falls within		
Visual representation description	E62 String and related to E31 Document via P3 has note		
Readable			
Writable			
Acquisition technology			
Processing information			
Horizontal resolution			
Vertical resolution			
Model height			
Model length			
Model width			
Model area			
Model perimeter			
Video duration			
Video resolution			
Video rate			

## MAPPING FOR EPIGRAPHIC DATABASE BARI (UNIBA)

Element Name	CIDOC - CRM	EpiDoc xpath	EDB
General			
Object ID in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Object URI in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Content provider identification and language of metadata	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Metadata rights	Represented by E30 Right related via P104 is subject to	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence	fixed value
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by	/TEI/teiHeader/revisionDesc/change	author
Information Carrier			
Monument type	E55 Type related to E84 Information Carrier via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType	
Material	E57 Type related to E84 Information Carrier via P45 consist of	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material	
Description	E62 String related to E84 Information Carrier via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p	decoration



Element Name	CIDOC - CRM	EpiDoc xpath	EDB
Dimensions	E54 Dimension related to E84 Information Carrier via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions	
Decoration	E62 String related to E84 via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	
State of preservation	E3 Condition State related to E84 via P44 has condition	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	Reuse/Opistograph
Dating	Represented by E52 Time Span which is contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	Dating interval Specific time span from ; Specific time span to; Date in the text
Dating-from		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notBefore	from
Dating-to		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notAfter	to
Dating-arguments		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@evidence	

Element Name	CIDOC - CRM	EpiDoc xpath	EDB
Dating-day			day
Dating-year			year
Dating-uncertainty			
Dating-chronology		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@period	
Dating-Text		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	
Roman Province / Italic Region	E53 Place related through property P89 falls within to another instance of E53 denoting the ancient place	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName/@type	Area Location Position in situ
Ancient find spot	E53 Place contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName	
Modern find spot	E53 Place contained within an E12 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Provenance description	E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance	
Modern Country	E53 Place related to other instances of E53 representing modern region, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	





Element Name	CIDOC - CRM	EpiDoc xpath	EDB
Modern region	E53 Place related to other instances of E53 representing modern country, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Modern Province	E53 Place related to other instances of E53 representing modern country, modern region and modern find spot via property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	n.a.
Year of find	E52 Time Span which is contained within an E7 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when	n.a.
Country	E53 Place related to another instance of E53 representing the museum	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placeName	n.a.
Region		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placeName	n.a.
Place of Conservation		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement	City/Town

Element Name	CIDOC - CRM	EpiDoc xpath	EDB
Museum	E53 Place related to E84 Information Carrier via P55 has current location	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/repository	Location
Inventory Number	E42 Identifier related to E84 Information Carrier via P1 is identified by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno	n.a.
Inscription			
Object Title	E35 Title related to E84 via P102 has title	/TEI/teiHeader/fileDesc/titleStmt/title	
TM no.( Trismegistos number)	E42 Identifier and related via P1 is identified by	/TEI/teiHeader/fileDesc/publicationStmt/idno	TBA
Type of inscription	E55 Type related to E34 Inscription via P103 was intended for	/TEI/teiHeader/profileDesc/textClass/keywords/term	Function
Engraving technique	E55 Type related to E34 Inscription via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/objectDesc/layoutDesc/layout/rs	Executing Technique
Metre	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/objectDesc/layoutDesc/layout/rs	Metrical Text
Size Of Epigraphical Field	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/objectDesc/layoutDesc/layout/dimensions	n.a.



Element Name	CIDOC - CRM	EpiDoc xpath	EDB
Paleographic Characteristics	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote	Paleographic Notes
Letter size	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote/height	Letters Height Minumum ; Letters Height Minumum
Author of inscription			
Honorand			
Political-Social status			
Dedicator			
Names mentioned			
Event of Inscription			
Location mentioned			
Restoration			
Double side			
Erasures			
Spelling errors variations			
Editorial additions			
Other Comments			
Transcription			
Transcription text and language	E62 String related to E31 Document via P3 has note	/TEI/text/body/div/@xml:lang for the language and /TEI/text/body/div/ab for the text	Transcription Greek language and alphabet / Coexistence of latin/greek
Critical Apparatus	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	Critical Apparatus



Element Name	CIDOC - CRM	EpiDoc xpath	EDB
Commentary	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	Transcription different from ICVR; Notes
Bibliography	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div	ICVR Volume ICVR Number ICVR Sub Number Other bibliographic references
Translation			
Translation text	E62 String related to the translation E31 Document via P3 has note	/TEI/text/body/div	n.a.
Translation rights	E30 Right and related to the translation E31 document via P104 is subject to		
Translation author	E39 Actor and related to E30 Right via P75B is possessed by		
Publication title	E35 Title and related via P102 has title		
Year of publication	E52 Time Span and related to the E7 publication activity via P4 has time span		
Place of publication	E53 Place and related to the E7 publication activity via P7 took place at		



Element Name	CIDOC - CRM	EpiDoc xpath	EDB
Publication author	E39 Actor and related to the E7 publication activity via P11 had participant		
Visual representation			
Visual representation title	E35 Title and related to E31 Document via P102 has title		
Visual representation URL	E42 Identifier and related E31 Document via P1 is identified by	/TEI/facsimile/graphic@url	
Visual representation type	E55 Type and related to E31 Document via P2 has type		
Format	E62 String and related to E31 Document via P3 has note		
Visual representation inventory number	E42 Identifier related to E31 Document via P1 is identified by		
Visual representation rights	E30 Right and related to E31 Document via P104 is subject to	/TEI/facsimile/desc/ref@type="license" and /TEI/facsimile/desc/ref@target="license url"	
Visual representation author	E39 Actor and related to E30 Right via P75B is possessed by	/TEI/facsimile/desc	



Element Name	CIDOC - CRM	EpiDoc xpath	EDB
Creation date	E52 Time Span and related to E63 via P4 has time span		
Visual representation ancient findspot	E53 Place related to E31 Document via P67 refers to		
Visual representation Roman Province / Italic Region	E53 Place related to the instance of E53 Place that represents the ancient find spot via P89 falls within		
Visual representation modern findspot	E53 Place related to E31 Document via P67 refers to		
Visual representation modern country	E53 Place related to the instance of E53 Place that represents the modern find spot via P89 falls within		
Visual representation description	E62 String and related to E31 Document via P3 has note		
Readable			
Writable			
Acquisition technology			
Processing information			
Horizontal resolution			
Vertical resolution			
Model height			
Model length			
Model width			
Model area			



Element Name	CIDOC - CRM	EpiDoc xpath	EDB
Model perimeter			
Video duration			
Video resolution			
Video rate			

## MAPPING FOR EPIGRAPHISCHE DATENBANK HEIDELBERG (UHEI)

Element Name	CIDOC - CRM	EpiDoc xpath	EDH
General			
Object ID in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	HD-Nr xxxxxx
Object URI in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Content provider identification and language of metadata	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Metadata rights	Represented by E30 Right related via P104 is subject to	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence	fixed value
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by	/TEI/teiHeader/revisionDesc/change	author
Information Carrier			

Element Name	CIDOC - CRM	EpiDoc xpath	EDH
Monument type	E55 Type related to E84 Information Carrier via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType	Type of monument
Material	E57 Type related to E84 Information Carrier via P45 consist of	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material	material
Description	E62 String related to E84 Information Carrier via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p	n.a.
Dimensions	E54 Dimension related to E84 Information Carrier via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions	height width depth
Decoration	E62 String related to E84 via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	decoration
State of preservation	E3 Condition State related to E84 via P44 has condition	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	n.a.





Element Name	CIDOC - CRM	EpiDoc xpath	EDH
Dating	Represented by E52 Time Span which is contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	Day, month, year from year to
Dating-from		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notBefore	from
Dating-to		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notAfter	to
Dating-arguments		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@evidence	
Dating-day			day
Dating-year			year
Dating-uncertainty			
Dating-chronology		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@period	
Dating-Text		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	
Roman Province / Italic Region	E53 Place related through property P89 falls within to another instance of E53 denoting the ancient place	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName/@type	Province / Italic Region



Element Name	CIDOC - CRM	EpiDoc xpath	EDH
Ancient find spot	E53 Place contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName	Ancient find spot
Modern find spot	E53 Place contained within an E12 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	Modern find spot
Provenance description	E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance	Find spot (village, street, etc.)
Modern Country	E53 Place related to other instances of E53 representing modern region, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	Modern Country
Modern region	E53 Place related to other instances of E53 representing modern country, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	Modern region
Modern Province	E53 Place related to other instances of E53 representing modern country, modern region and modern find spot via property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	n.a.



Element Name	CIDOC - CRM	EpiDoc xpath	EDH
Year of find	E52 Time Span which is contained within an E7 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when	Year of find
Country	E53 Place related to another instance of E53 representing the museum	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placeName	n.a.
Region		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placeName	n.a.
Place of Conservation		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement	Present location
Museum	E53 Place related to E84 Information Carrier via P55 has current location	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/repository	n.a.
Inventory Number	E42 Identifier related to E84 Information Carrier via P1 is identified by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno	n.a.
Inscription			
Object Title	E35 Title related to E84 via P102 has title	/TEI/teiHeader/fileDesc/titleStmt/title	title (only in xml)
TM no.( Trismegistos number)	E42 Identifier and related via P1 is identified by	/TEI/teiHeader/fileDesc/publicationStmt/idno	TM no.



Element Name	CIDOC - CRM	EpiDoc xpath	EDH
Type of inscription	E55 Type related to E34 Inscription via P103 was intended for	/TEI/teiHeader/profileDesc/textClass/keywords/term	Type of inscription
Engraving technique	E55 Type related to E34 Inscription via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/objectDesc/layoutDesc/layout/rs	Engraving technique; Guidelines; Hederae
Metre	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/objectDesc/layoutDesc/layout/rs	Metre Commentary
Size Of Epigraphical Field	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/objectDesc/layoutDesc/layout/dimensions	n.a.
Paleographic Characteristics	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/handDesc/handNote	n.a.
Letter size	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/handDesc/handNote/height	Letter size
Author of inscription			
Honorand			
Political-Social status			
Dedicator			
Names mentioned			
Event of Inscription			
Location mentioned			



Element Name	CIDOC - CRM	EpiDoc xpath	EDH
Restoration			
Double side			
Erasures			
Spelling errors variations			
Editorial additions			
Other Comments			
Transcription			
Transcription text and language	E62 String related to E31 Document via P3 has note	/TEI/text/body/div/@xml:lang for the language and /TEI/text/body/div/ab for the text	Transcription, majuscule Language
Critical Apparatus	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	n.a.
Commentary	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	Commentary
Bibliography	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div	Literature
Translation			
Translation text	E62 String related to the translation E31 Document via P3 has note	/TEI/text/body/div	Translation
Translation rights	E30 Right and related to the translation E31 document via P104 is subject to		

Element Name	CIDOC - CRM	EpiDoc xpath	EDH
Translation author	E39 Actor and related to E30 Right via P75B is possessed by		
Publication title	E35 Title and related via P102 has title		
Year of publication	E52 Time Span and related to the E7 publication activity via P4 has time span		
Place of publication	E53 Place and related to the E7 publication activity via P7 took place at		
Publication author	E39 Actor and related to the E7 publication activity via P11 had participant		
Visual representation			
Visual representation title	E35 Title and related to E31 Document via P102 has title		
Visual representation URL	E42 Identifier and related E31 Document via P1 is identified by	/TEI/facsimile/graphic@url	
Visual representation type	E55 Type and related to E31 Document via P2 has type		
Format	E62 String and related to E31 Document via P3 has note		
Visual representation inventory number	E42 Identifier related to E31 Document via P1 is identified by		



Element Name	CIDOC - CRM	EpiDoc xpath	EDH
Visual representation rights	E30 Right and related to E31 Document via P104 is subject to	/TEI/facsimile/desc/ref@type="license" and /TEI/facsimile/desc/ref@target="license url"	original image
Visual representation author	E39 Actor and related to E30 Right via P75B is possessed by	/TEI/facsimile/desc	
Creation date	E52 Time Span and related to E63 via P4 has time span		Date of photograph
Visual representation ancient findspot	E53 Place related to E31 Document via P67 refers to		ancientfindspot
Visual representation Roman Province / Italic Region	E53 Place related to the instance of E53 Place that represents the ancient find spot via P89 falls within		province region
Visual representation modern findspot	E53 Place related to E31 Document via P67 refers to		modern findspot
Visual representation modern country	E53 Place related to the instance of E53 Place that represents the modern find spot via P89 falls within		modern country
Visual representation description	E62 String and related to E31 Document via P3 has note		Quality
Readable			
Writable			



Element Name	CIDOC - CRM	EpiDoc xpath	EDH
Acquisition technology			
Processing information			
Horizontal resolution			
Vertical resolution			
Model height			
Model length			
Model width			
Model area			
Model perimeter			
Video duration			
Video resolution			
Video rate			

### MAPPING FOR HISPANIA HEPIGRAPHICA ONLINE (UAH)

Element Name	CIDOC - CRM	EpiDoc xpath	HE
General			
Object ID in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	HEpOI xxxxxx
Object URI in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Content provider identification and language of metadata	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	Hispania Epigraphica Online - HEO



Element Name	CIDOC - CRM	EpiDoc xpath	HE
Metadata rights	Represented by E30 Right related via P104 is subject to	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence	fixed value
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by	/TEI/teiHeader/revisionDesc/change	resp
Information Carrier			
Monument type	E55 Type related to E84 Information Carrier via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType	Object Type
Material	E57 Type related to E84 Information Carrier via P45 consist of	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material	Material Rough Definition; Material Refined Definition
Description	E62 String related to E84 Information Carrier via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p	Description
Dimensions	E54 Dimension related to E84 Information Carrier via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions	Size of Object
Decoration	E62 String related to E84 via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	n.a.



Element Name	CIDOC - CRM	EpiDoc xpath	HE
State of preservation	E3 Condition State related to E84 via P44 has condition	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	State of Conservation
Dating	Represented by E52 Time Span which is contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	Dating ; dating from ; dating to ; Chronology ; Dating Arguments
Dating-from		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notBefore	from
Dating-to		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notAfter	to
Dating-arguments		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@evidence	Arguments
Dating-day			day
Dating-year			year
Dating-uncertainty			uncertainty in dating
Dating-chronology		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@period	chronology
Dating-Text		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	

Element Name	CIDOC - CRM	EpiDoc xpath	HE
Roman Province / Italic Region	E53 Place related through property P89 falls within to another instance of E53 denoting the ancient place	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName/@type	Roman Province
Ancient find spot	E53 Place contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName	Placename in Antiquity / Placename in Antiquity (additional information)
Modern find spot	E53 Place contained within an E12 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	Place of Finding (Town (Finding) Town (additional information)
Provenance description	E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance	
Modern Country	E53 Place related to other instances of E53 representing modern region, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Modern region	E53 Place related to other instances of E53 representing modern country, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	

Element Name	CIDOC - CRM	EpiDoc xpath	HE
Modern Province	E53 Place related to other instances of E53 representing modern country, modern region and modern find spot via property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Year of find	E52 Time Span which is contained within an E7 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when	n.a.
Country	E53 Place related to another instance of E53 representing the museum	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placeName	Place and Additional Information; Town (Conservation); Town (additional information)
Region		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placeName	
Place of Conservation		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement	
Museum	E53 Place related to E84 Information Carrier via P55 has current location	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/repository	Museum
Inventory Number	E42 Identifier related to E84 Information Carrier via P1 is identified by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno	Inventory Number
Inscription			

Element Name	CIDOC - CRM	EpiDoc xpath	HE
Object Title	E35 Title related to E84 via P102 has title	/TEI/teiHeader/fileDesc/titleStmt/title	Object Title
TM no.( Trismegistos number)	E42 Identifier and related via P1 is identified by	/TEI/teiHeader/fileDesc/publicationStmt/idno	TBA
Type of inscription	E55 Type related to E34 Inscription via P103 was intended for	/TEI/teiHeader/profileDesc/textClass/keywords/term	Inscription Type Inscription Type (additional information)
Engraving technique	E55 Type related to E34 Inscription via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/objectDesc/layoutDesc/layout/rs	n.a.
Metre	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/objectDesc/layoutDesc/layout/rs	n.a.
Size Of Epigraphical Field	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/objectDesc/layoutDesc/layout/dimensions	Size Of Epigraphical Field
Paleographic Characteristics	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/handDesc/handNote	Paleographic Characteristics
Letter size	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physicsDesc/handDesc/handNote/height	Height Of Letters
Author of inscription			



Element Name	CIDOC - CRM	EpiDoc xpath	HE
Honorand			
Political-Social status			
Dedicator			
Names mentioned			
Event of Inscription			
Location mentioned			
Restoration			
Double side			
Erasures			
Spelling errors variations			
Editorial additions			
Other Comments			
Transcription			
Transcription text and language	E62 String related to E31 Document via P3 has note	/TEI/text/body/div/@xml:lang for the language and /TEI/text/body/div/ab for the text	Text
Critical Apparatus	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	Variants
Commentary	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	n.a.
Bibliography	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div	Bibliography
Translation			

Element Name	CIDOC - CRM	EpiDoc xpath	HE
Translation text	E62 String related to the translation E31 Document via P3 has note	/TEI/text/body/div	Translation
Translation rights	E30 Right and related to the translation E31 document via P104 is subject to		
Translation author	E39 Actor and related to E30 Right via P75B is possessed by		author's name, institution, email
Publication title	E35 Title and related via P102 has title		
Year of publication	E52 Time Span and related to the E7 publication activity via P4 has time span		
Place of publication	E53 Place and related to the E7 publication activity via P7 took place at		
Publication author	E39 Actor and related to the E7 publication activity via P11 had participant		
Visual representation			
Visual representation title	E35 Title and related to E31 Document via P102 has title		
Visual representation URL	E42 Identifier and related E31 Document via P1 is identified by	/TEI/facsimile/graphic@url	Illustration (image URL)

Element Name	CIDOC - CRM	EpiDoc xpath	HE
Visual representation type	E55 Type and related to E31 Document via P2 has type		
Format	E62 String and related to E31 Document via P3 has note		
Visual representation inventory number	E42 Identifier related to E31 Document via P1 is identified by		
Visual representation rights	E30 Right and related to E31 Document via P104 is subject to	/TEI/facsimile/desc/ref@type="license" and /TEI/facsimile/desc/ref@target="license url"	Illustration (Copyrights)
Visual representation author	E39 Actor and related to E30 Right via P75B is possessed by	/TEI/facsimile/desc	
Creation date	E52 Time Span and related to E63 via P4 has time span		
Visual representation ancient findspot	E53 Place related to E31 Document via P67 refers to		
Visual representation Roman Province / Italic Region	E53 Place related to the instance of E53 Place that represents the ancient find spot via P89 falls within		
Visual representation modern findspot	E53 Place related to E31 Document via P67 refers to		





Element Name	CIDOC - CRM	EpiDoc xpath	HE
Visual representation modern country	E53 Place related to the instance of E53 Place that represents the modern find spot via P89 falls within		
Visual representation description	E62 String and related to E31 Document via P3 has note		Illustration (additional information)
Readable			
Writable			
Acquisition technology			
Processing information			
Horizontal resolution			
Vertical resolution			
Model height			
Model length			
Model width			
Model area			
Model perimeter			
Video duration			
Video resolution			
Video rate			

### MAPPING FOR UBI ERAT LUPA (PLUS)

Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
General			

Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
Object ID in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	id
Object URI in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Content provider identification and language of metadata	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Metadata rights	Represented by E30 Right related via P104 is subject to	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence	fixed value
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by	/TEI/teiHeader/revisionDesc/change	author
Information Carrier			
Monument type	E55 Type related to E84 Information Carrier via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType	Objekt_ID + Monument_ID
Material	E57 Type related to E84 Information Carrier via P45 consist of	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material	Material_grob_ID Material_fein_ID
Description	E62 String related to E84 Information Carrier via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p	Ikongrafie

Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
Dimensions	E54 Dimension related to E84 Information Carrier via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions	Breite Hoehe Tiefe
Decoration	E62 String related to E84 via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	
State of preservation	E3 Condition State related to E84 via P44 has condition	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	Erhaltung
Dating	Represented by E52 Time Span which is contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	
Dating-from		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notBefore	Datierung_von
Dating-to		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notAfter	Datierung_bis
Dating-arguments		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@evidence	
Dating-day			day

Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
Dating-year			year
Dating-uncertainty			
Dating-chronology		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@period	Datierung_Phase_ID
Dating-Text		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	Datierung_Begruendung
Roman Province / Italic Region	E53 Place related through property P89 falls within to another instance of E53 denoting the ancient place	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName/@type	provinz_id
Ancient find spot	E53 Place contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName	fundort_antik_pfad
Modern find spot	E53 Place contained within an E12 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	fundort_pfad
Provenance description	E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance	F_Ort_Kommentar
Modern Country	E53 Place related to other instances of E53 representing modern region, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	

Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
Modern region	E53 Place related to other instances of E53 representing modern country, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Modern Province	E53 Place related to other instances of E53 representing modern country, modern region and modern find spot via property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Year of find	E52 Time Span which is contained within an E7 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when	Fundumstaende
Country	E53 Place related to another instance of E53 representing the museum	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placeName	
Region		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placeName	
Place of Conservation		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement	verwharort_pfad + Verwharumstaende

Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
Museum	E53 Place related to E84 Information Carrier via P55 has current location	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/repository	museum_pfad
Inventory Number	E42 Identifier related to E84 Information Carrier via P1 is identified by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno	InvNummer
Inscription			
Object Title	E35 Title related to E84 via P102 has title	/TEI/teiHeader/fileDesc/titleStmt/title	Titel
TM no.( Trismegistos number)	E42 Identifier and related via P1 is identified by	/TEI/teiHeader/fileDesc/publicationStmt/idno	TBA
Type of inscription	E55 Type related to E34 Inscription via P103 was intended for	/TEI/teiHeader/profileDesc/textClass/keywords/term	INSCHRIFT_TYP_ID + INSCHRIFT_TYP_ADDINFO
Engraving technique	E55 Type related to E34 Inscription via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs	
Metre	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs	



Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
Size Of Epigraphical Field	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/dimensions	INSCHRIFT_FELDGROESSE
Paleographic Characteristics	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote	INSCHRIFT_PALAEOGRAPHIE
Letter size	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote/height	INSCHRIFT_BUCHSTABENHOEHE
Author of inscription			
Honorand			
Political-Social status			
Dedicator			
Names mentioned			
Event of Inscription			
Location mentioned			
Restoration			
Double side			
Erasures			
Spelling errors variations			
Editorial additions			
Other Comments			
Transcription			
Transcription text and language	E62 String related to E31 Document via P3 has note	/TEI/text/body/div/@xml:lang for the language and /TEI/text/body/div/ab for the text	Inschrift



Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
Critical Apparatus	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	INSCHRIFT_VARIANTEN
Commentary	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	Kommentar
Bibliography	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div	Literatur + online literature
Translation			
Translation text	E62 String related to the translation E31 Document via P3 has note	/TEI/text/body/div	Uebersetzung
Translation rights	E30 Right and related to the translation E31 document via P104 is subject to		
Translation author	E39 Actor and related to E30 Right via P75B is possessed by		
Publication title	E35 Title and related via P102 has title		
Year of publication	E52 Time Span and related to the E7 publication activity via P4 has time span		



Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
Place of publication	E53 Place and related to the E7 publication activity via P7 took place at		
Publication author	E39 Actor and related to the E7 publication activity via P11 had participant		
Visual representation			
Visual representation title	E35 Title and related to E31 Document via P102 has title		id + monument_id
Visual representation URL	E42 Identifier and related E31 Document via P1 is identified by	/TEI/facsimile/graphic@url	image URL
Visual representation type	E55 Type and related to E31 Document via P2 has type		
Format	E62 String and related to E31 Document via P3 has note		
Visual representation inventory number	E42 Identifier related to E31 Document via P1 is identified by		
Visual representation rights	E30 Right and related to E31 Document via P104 is subject to	/TEI/facsimile/desc/ref@type="license" and /TEI/facsimile/desc/ref@target="license url"	picturecredit_id; picturecredit_detail



Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
Visual representation author	E39 Actor and related to E30 Right via P75B is possessed by	/TEI/facsimile/desc	author_id
Creation date	E52 Time Span and related to E63 via P4 has time span		year
Visual representation ancient findspot	E53 Place related to E31 Document via P67 refers to		
Visual representation Roman Province / Italic Region	E53 Place related to the instance of E53 Place that represents the ancient find spot via P89 falls within		
Visual representation modern findspot	E53 Place related to E31 Document via P67 refers to		
Visual representation modern country	E53 Place related to the instance of E53 Place that represents the modern find spot via P89 falls within		
Visual representation description	E62 String and related to E31 Document via P3 has note		remark
Readable			
Writable			
Acquisition technology			
Processing information			
Horizontal resolution			

Element Name	CIDOC - CRM	EpiDoc xpath	UbiEratLupa
Vertical resolution			
Model height			
Model length			
Model width			
Model area			
Model perimeter			
Video duration			
Video resolution			
Video rate			

## MAPPING FOR ARACHNE (DAI)

Element Name	CIDOC - CRM	EpiDoc xpath	ARACHNE (CIL inscriptions)
General			
Object ID in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Object URI in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Content provider identification and language of metadata	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Metadata rights	Represented by E30 Right related via P104 is subject to	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence	
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by	/TEI/teiHeader/revisionDesc/change	
Information Carrier			



Element Name	CIDOC - CRM	EpiDoc xpath	ARACHNE (CIL inscriptions)
Monument type	E55 Type related to E84 Information Carrier via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType	
Material	E57 Type related to E84 Information Carrier via P45 consist of	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material	
Description	E62 String related to E84 Information Carrier via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p	
Dimensions	E54 Dimension related to E84 Information Carrier via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions	
Decoration	E62 String related to E84 via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	
State of preservation	E3 Condition State related to E84 via P44 has condition	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	



Element Name	CIDOC - CRM	EpiDoc xpath	ARACHNE (CIL inscriptions)
Dating	Represented by E52 Time Span which is contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	
Dating-from		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notBefore	precise date will be expressed giving the same value in both this fields
Dating-to		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notAfter	
Dating-arguments		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@evidence	
Dating-day			
Dating-year			
Dating-uncertainty			
Dating-chronology		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@period	
Dating-Text		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	
Roman Province / Italic Region	E53 Place related through property P89 falls within to another instance of E53 denoting the ancient place	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName/@type	



Element Name	CIDOC - CRM	EpiDoc xpath	ARACHNE (CIL inscriptions)
Ancient find spot	E53 Place contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName	
Modern find spot	E53 Place contained within an E12 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Provenance description	E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance	
Modern Country	E53 Place related to other instances of E53 representing modern region, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Modern region	E53 Place related to other instances of E53 representing modern country, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Modern Province	E53 Place related to other instances of E53 representing modern country, modern region and modern find spot via property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	

Element Name	CIDOC - CRM	EpiDoc xpath	ARACHNE (CIL inscriptions)
Year of find	E52 Time Span which is contained within an E7 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when	
Country	E53 Place related to another instance of E53 representing the museum	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placeName	
Region		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placeName	
Place of Conservation		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement	
Museum	E53 Place related to E84 Information Carrier via P55 has current location	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/repository	
Inventory Number	E42 Identifier related to E84 Information Carrier via P1 is identified by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno	
Inscription			
Object Title	E35 Title related to E84 via P102 has title	/TEI/teiHeader/fileDesc/titleStmt/title	
TM no.( Trismegistos number)	E42 Identifier and related via P1 is identified by	/TEI/teiHeader/fileDesc/publicationStmt/idno	



Element Name	CIDOC - CRM	EpiDoc xpath	ARACHNE (CIL inscriptions)
Type of inscription	E55 Type related to E34 Inscription via P103 was intended for	/TEI/teiHeader/profileDesc/textClass/keywords/term	
Engraving technique	E55 Type related to E34 Inscription via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs	
Metre	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs	
Size Of Epigraphical Field	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/dimensions	
Paleographic Characteristics	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote	
Letter size	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote/height	
Author of inscription			
Honorand			
Political-Social status			





Element Name	CIDOC - CRM	EpiDoc xpath	ARACHNE (CIL inscriptions)
Dedicator			
Names mentioned			
Event of Inscription			
Location mentioned			
Restoration			
Double side			
Erasures			
Spelling errors variations			
Editorial additions			
Other Comments			
Transcription			
Transcription text and language	E62 String related to E31 Document via P3 has note	/TEI/text/body/div/@xml:lang for the language and /TEI/text/body/div/ab for the text	
Critical Apparatus	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	
Commentary	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	
Bibliography	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div	
Translation			

Element Name	CIDOC - CRM	EpiDoc xpath	ARACHNE (CIL inscriptions)
Translation text	E62 String related to the translation E31 Document via P3 has note	/TEI/text/body/div	
Translation rights	E30 Right and related to the translation E31 document via P104 is subject to		
Translation author	E39 Actor and related to E30 Right via P75B is possessed by		
Publication title	E35 Title and related via P102 has title		
Year of publication	E52 Time Span and related to the E7 publication activity via P4 has time span		
Place of publication	E53 Place and related to the E7 publication activity via P7 took place at		
Publication author	E39 Actor and related to the E7 publication activity via P11 had participant		
Visual representation			
Visual representation title	E35 Title and related to E31 Document via P102 has title		1 Titel
Visual representation URL	E42 Identifier and related E31 Document via P1 is identified by	/TEI/facsimile/graphic@url	

Element Name	CIDOC - CRM	EpiDoc xpath	ARACHNE (CIL inscriptions)
Visual representation type	E55 Type and related to E31 Document via P2 has type		10 Objekt 1 / Kategorie
Format	E62 String and related to E31 Document via P3 has note		13 Dateityp Analog/Digital
Visual representation inventory number	E42 Identifier related to E31 Document via P1 is identified by		12 Objekt 3 / Inventar- bzw. Fundnummer
Visual representation rights	E30 Right and related to E31 Document via P104 is subject to	/TEI/facsimile/desc/ref@type="license" and /TEI/facsimile/desc/ref@target="license url"	6 Verantwortlichkeit für das Bild
Visual representation author	E39 Actor and related to E30 Right via P75B is possessed by	/TEI/facsimile/desc	4 Bildautor
Creation date	E52 Time Span and related to E63 via P4 has time span		3 Aufnahmedatum
Visual representation ancient findspot	E53 Place related to E31 Document via P67 refers to		9 Ortsbezeichnung 2 / Unterort
Visual representation Roman Province / Italic Region	E53 Place related to the instance of E53 Place that represents the ancient find spot via P89 falls within		Ortsbezeichnung 1
Visual representation modern findspot	E53 Place related to E31 Document via P67 refers to		



Element Name	CIDOC - CRM	EpiDoc xpath	ARACHNE (CIL inscriptions)
Visual representation modern country	E53 Place related to the instance of E53 Place that represents the modern find spot via P89 falls within		
Visual representation description	E62 String and related to E31 Document via P3 has note		11 Objekt 2 / Beschreibung
Readable			5 Freigabe
Writable			7 Veränderbarkeit
Acquisition technology			
Processing information			
Horizontal resolution			
Vertical resolution			
Model height			
Model length			
Model width			
Model area			
Model perimeter			
Video duration			
Video resolution			
Video rate			

## MAPPING FOR PETRAE (AUSONIUS)

Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
General			

Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
Object ID in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	TBA
Object URI in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	TBA
Content provider identification and language of metadata	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	TBA
Metadata rights	Represented by E30 Right related via P104 is subject to	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence	fixed value (TBA)
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by	/TEI/teiHeader/revisionDesc/change	
Information Carrier			
Monument type	E55 Type related to E84 Information Carrier via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType	support TBA
Material	E57 Type related to E84 Information Carrier via P45 consist of	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material	Matériaux
Description	E62 String related to E84 Information Carrier via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p	Description du champ épigraphique



Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
Dimensions	E54 Dimension related to E84 Information Carrier via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions	Hauteur Largeur Épaisseur
Decoration	E62 String related to E84 via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	Ornementation, décor
State of preservation	E3 Condition State related to E84 via P44 has condition	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	État de conservation
Dating	Represented by E52 Time Span which is contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	datation du text TBU
Dating-from		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notBefore	
Dating-to		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notAfter	
Dating-arguments		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@evidence	



Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
Dating-day			
Dating-year			
Dating-uncertainty			
Dating-chronology		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@period	
Dating-Text		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	paragraph in datation du text
Roman Province / Italic Region	E53 Place related through property P89 falls within to another instance of E53 denoting the ancient place	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName/@type	province romaine (NOT IN THE EPIDOC)
Ancient find spot	E53 Place contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName	site nom antique (with Pleiades URI)
Modern find spot	E53 Place contained within an E12 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	site nom moderne (with geonames URI) + Lieu de decouverte
Provenance description	E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance	
Modern Country	E53 Place related to other instances of E53 representing modern region, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	localisation: values separated with State / region / province / town



Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
Modern region	E53 Place related to other instances of E53 representing modern country, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Modern Province	E53 Place related to other instances of E53 representing modern country, modern region and modern find spot via property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Year of find	E52 Time Span which is contained within an E7 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when	Conditions de découverte
Country	E53 Place related to another instance of E53 representing the museum	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placeName	
Region		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placeName	
Place of Conservation		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement	Lieu de conservation



Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
Museum	E53 Place related to E84 Information Carrier via P55 has current location	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/repository	Institution de conservation
Inventory Number	E42 Identifier related to E84 Information Carrier via P1 is identified by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno	N° inventaire
Inscription			
Object Title	E35 Title related to E84 via P102 has title	/TEI/teiHeader/fileDesc/titleStmt/title	title
TM no.( Trismegistos number)	E42 Identifier and related via P1 is identified by	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Type of inscription	E55 Type related to E34 Inscription via P103 was intended for	/TEI/teiHeader/profileDesc/textClass/keywords/term	
Engraving technique	E55 Type related to E34 Inscription via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs	
Metre	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs	
Size Of Epigraphical Field	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/dimensions	

Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
Paleographic Characteristics	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote	Style écriture
Letter size	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote/height	Hauteur max. lettre Hauteur min. lettre
Author of inscription			
Honorand			
Political-Social status			
Dedicator			
Names mentioned			
Event of Inscription			
Location mentioned			
Restoration			
Double side			
Erasures			
Spelling errors variations			
Editorial additions			
Other Comments			
Transcription			
Transcription text and language	E62 String related to E31 Document via P3 has note	/TEI/text/body/div/@xml:lang for the language and /TEI/text/body/div/ab for the text	text (as in the Epidoc) language
Critical Apparatus	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	apparat critique



Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
Commentary	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	Remarques
Bibliography	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div	éd. + comm. TBU
Translation			
Translation text	E62 String related to the translation E31 Document via P3 has note	/TEI/text/body/div	traduction
Translation rights	E30 Right and related to the translation E31 document via P104 is subject to		
Translation author	E39 Actor and related to E30 Right via P75B is possessed by		
Publication title	E35 Title and related via P102 has title		
Year of publication	E52 Time Span and related to the E7 publication activity via P4 has time span		
Place of publication	E53 Place and related to the E7 publication activity via P7 took place at		

Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
Publication author	E39 Actor and related to the E7 publication activity via P11 had participant		
Visual representation			
Visual representation title	E35 Title and related to E31 Document via P102 has title		
Visual representation URL	E42 Identifier and related E31 Document via P1 is identified by	/TEI/facsimile/graphic@url	
Visual representation type	E55 Type and related to E31 Document via P2 has type		
Format	E62 String and related to E31 Document via P3 has note		
Visual representation inventory number	E42 Identifier related to E31 Document via P1 is identified by		
Visual representation rights	E30 Right and related to E31 Document via P104 is subject to	/TEI/facsimile/desc/ref@type="license" and /TEI/facsimile/desc/ref@target="license url"	
Visual representation author	E39 Actor and related to E30 Right via P75B is possessed by	/TEI/facsimile/desc	



Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
Creation date	E52 Time Span and related to E63 via P4 has time span		
Visual representation ancient findspot	E53 Place related to E31 Document via P67 refers to		
Visual representation Roman Province / Italic Region	E53 Place related to the instance of E53 Place that represents the ancient find spot via P89 falls within		
Visual representation modern findspot	E53 Place related to E31 Document via P67 refers to		
Visual representation modern country	E53 Place related to the instance of E53 Place that represents the modern find spot via P89 falls within		
Visual representation description	E62 String and related to E31 Document via P3 has note		
Readable			
Writable			
Acquisition technology			
Processing information			
Horizontal resolution			
Vertical resolution			
Model height			
Model length			
Model width			
Model area			



Element Name	CIDOC - CRM	EpiDoc xpath	PETRAE
Model perimeter			
Video duration			
Video resolution			
Video rate			

## MAPPING FOR STARC (CYI)

Element Name	CIDOC - CRM	EpiDoc xpath	STARC
General			
Object ID in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Object URI in Data provider repository	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	Digital_Resource_Provenance/Digital_outcomes/Descriptive_data/IsShownAt
Content provider identification and language of metadata	E42 Identifier	/TEI/teiHeader/fileDesc/publicationStmt/idno	Inscription/Record_Information/Server_location Inscription/Record_Information/language
Metadata rights	Represented by E30 Right related via P104 is subject to	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence	
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by	/TEI/teiHeader/revisionDesc/change	Inscription/Record_Information/Editing_date Metadata_editor
Information Carrier			



Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Monument type	E55 Type related to E84 Information Carrier via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType	Inscription/Descriptive_data/Support/support_type
Material	E57 Type related to E84 Information Carrier via P45 consist of	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material	Inscription/Descriptive_data/Support/Material_support
Description	E62 String related to E84 Information Carrier via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p	Inscription/Descriptive_data/Description Inscription/Descriptive_data/Support/reuse_of_support Inscription/Descriptive_data/support_connection
Dimensions	E54 Dimension related to E84 Information Carrier via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions	Inscription/Descriptive_data/Support/Dimensions/Height,Length,Thickness
Decoration	E62 String related to E84 via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	Inscription/Descriptive_data/Support/Decoration_support Inscription/Descriptive_data/decoration_of_inscription
State of preservation	E3 Condition State related to E84 via P44 has condition	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs	Inscription/Descriptive_data/Conservation/Conservation_status Inscription/Descriptive_data/Condition_of_inscription

Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Dating	Represented by E52 Time Span which is contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	Inscription/Descriptive_data/Date
Dating-from		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notBefore	Inscription/Descriptive_data/time_span/terminus_ante_quem
Dating-to		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notAfter	Inscription/Descriptive_data/time_span/terminus_post_quem
Dating-arguments		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@evidence	
Dating-day			Inscription/Descriptive_data/Date
Dating-year			Inscription/Descriptive_data/Date
Dating-uncertainty			
Dating-chronology		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@period	Inscription/Descriptive_data/Period_name
Dating-Text		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate	
Roman Province / Italic Region	E53 Place related through property P89 falls within to another instance of E53 denoting the ancient place	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName/@type	Inscription/Descriptive_data/Discovery/Regio_antiqua



Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Ancient find spot	E53 Place contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName	Inscription/Descriptive_data/Discovery/Ancient_name
Modern find spot	E53 Place contained within an E12 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	Inscription/Descriptive_data/Discovery/Place_of_discovery
Provenance description	E12 Production event related to E84 Information Carrier via P10B was produced by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance	Inscription/Descriptive_data/Discovery/Excavators Inscription/Descriptive_data/Discovery/Condition_of_discovery Inscription/Descriptive_data/Discovery/History_of_discovery Inscription/Descriptive_data/Discovery/First_owner
Modern Country	E53 Place related to other instances of E53 representing modern region, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	Inscription/Descriptive_data/Discovery/Country
Modern region	E53 Place related to other instances of E53 representing modern country, modern province and modern find spot by property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	Inscription/Descriptive_data/Discovery/Region_District



Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Modern Province	E53 Place related to other instances of E53 representing modern country, modern region and modern find spot via property P89 falls within	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName	
Year of find	E52 Time Span which is contained within an E7 Activity event related to E84 Information Carrier via P16B was used for	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when	Inscription/Descriptive_data/Discovery/Discovery_date
Country	E53 Place related to another instance of E53 representing the museum	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placeName	Inscription/Descriptive_data/Conservation/Country_of_conse rvation
Region		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placeName	
Place of Conservation		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement	Inscription/Descriptive_data/Conservation/Place_of_conserv ation
Museum	E53 Place related to E84 Information Carrier via P55 has current location	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/repository	Administrative_data/ External_object_refe rence/Ownership_r ights_institution
Inventory Number	E42 Identifier related to E84 Information Carrier via P1 is identified by	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno	Administrative_data/ External_object_refe rence/External_sour ce_catalogue_num ber
Inscription			

Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Object Title	E35 Title related to E84 via P102 has title	/TEI/teiHeader/fileDesc/titleStmt/title	Inscription/Descriptive_data/Title
TM no.( Trismegistos number)	E42 Identifier and related via P1 is identified by	/TEI/teiHeader/fileDesc/publicationStmt/idno	
Type of inscription	E55 Type related to E34 Inscription via P103 was intended for	/TEI/teiHeader/profileDesc/textClass/keywords/term	Inscription/Descriptive_data/Support/Purpose_of_inscription Inscription/Descriptive_data/Support/Genre
Engraving technique	E55 Type related to E34 Inscription via P2 has type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs	Inscription/Descriptive_data/writing_technique
Metre	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs	Inscription/Descriptive_data/Metre
Size Of Epigraphical Field	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/dimensions	
Paleographic Characteristics	E62 String related to E34 Inscription via P3 has note	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote	Inscription/Descriptive_data/style_of_writing Inscription/Descriptive_data/style_of_letters Inscription/Descriptive_data/Scripture Inscription/Descriptive_data/writing_direction Inscription/Descriptive_data/number_of_signs Inscription/Descriptive_data/number_of_lines

Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Letter size	E54 Dimension related to E34 Inscription via P43 has dimension	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote/height	Inscription/Descriptive_data/size_of_letters
Author of inscription			Inscription/Descriptive_data/Author_of_inscription
Honorand			Inscription/Descriptive_data/Honorand
Political-Social status			Inscription/Descriptive_data/Political_social_status
Dedicator			Inscription/Descriptive_data/AwardedBy_dedicator
Names mentioned			Inscription/Descriptive_data/Other_names
Event of Inscription			Inscription/Descriptive_data/Event_of_inscription
Location mentioned			Inscription/Descriptive_data/Locations_mentioned
Restoration			Inscription/Descriptive_data/Restoration
Double side			Inscription/Descriptive_data/double_side
Erasures			Inscription/Descriptive_data/erasures
Spelling errors variations			Inscription/Descriptive_data/spelling_errors_variations
Editorial additions			Inscription/Descriptive_data/editorial_additions
Other Comments			Inscription/Descriptive_data/other_info
Transcription			
Transcription text and language	E62 String related to E31 Document via P3 has note	/TEI/text/body/div/@xml:lang for the language and /TEI/text/body/div/ab for the text	Inscription/Descriptive_data/Text Inscription/Descriptive_data/Apograph Inscription/Descriptive_data/Language

Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Critical Apparatus	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	Inscription/Descriptive_data/Critical_apparatus
Commentary	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div/p	Inscription/Commentary
Bibliography	E31 Document related to the transcription document via P70B is documented in	/TEI/text/body/div	Inscription/Bibliography Inscription/Descriptive_data/Main_references
Translation			
Translation text	E62 String related to the translation E31 Document via P3 has note	/TEI/text/body/div	Inscription/Descriptive_data/Translation
Translation rights	E30 Right and related to the translation E31 document via P104 is subject to		
Translation author	E39 Actor and related to E30 Right via P75B is possessed by		Inscription/Descriptive_data/Translation/translator
Publication title	E35 Title and related via P102 has title		Inscription/Descriptive_data/Translation/publication
Year of publication	E52 Time Span and related to the E7 publication activity via P4 has time span		Inscription/Descriptive_data/Translation/date



Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Place of publication	E53 Place and related to the E7 publication activity via P7 took place at		
Publication author	E39 Actor and related to the E7 publication activity via P11 had participant		
Visual representation			
Visual representation title	E35 Title and related to E31 Document via P102 has title		
Visual representation URL	E42 Identifier and related E31 Document via P1 is identified by	/TEI/facsimile/graphic@url	
Visual representation type	E55 Type and related to E31 Document via P2 has type		
Format	E62 String and related to E31 Document via P3 has note		
Visual representation inventory number	E42 Identifier related to E31 Document via P1 is identified by		
Visual representation rights	E30 Right and related to E31 Document via P104 is subject to	/TEI/facsimile/desc/ref@type="license" and /TEI/facsimile/desc/ref@target="license url"	Project/Digital_Resource_Provenance/Acquisition/Record_Information/rights Project/Digital_Resource_Provenance/Digital_outcomes/Descriptive_data/rights



Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Visual representation author	E39 Actor and related to E30 Right via P75B is possessed by	/TEI/facsimile/desc	Project/Digital_Resource_Provenance/Acquisition/Operative_info/Operator Project/Digital_Resource_Provenance/Digital_outcomes/Operative_info/Operator
Creation date	E52 Time Span and related to E63 via P4 has time span		Project/Digital_Resource_Provenance/Acquisition/Operative_info/Date Project/Digital_Resource_Provenance/Digital_outcomes/Operative_info/Date Project/Digital_Resource_Provenance/Digital_outcomes/Operative_info/Date
Visual representation ancient findspot	E53 Place related to E31 Document via P67 refers to		
Visual representation Roman Province / Italic Region	E53 Place related to the instance of E53 Place that represents the ancient find spot via P89 falls within		
Visual representation modern findspot	E53 Place related to E31 Document via P67 refers to		Project/Digital_Resource_Provenance/Acquisition/Operative_info/Location Project/Digital_Resource_Provenance/Acquisition/Technology/GPS_data Project/Digital_Resource_Provenance/Digital_outcomes/Operative_info/Location
Visual representation modern country	E53 Place related to the instance of E53 Place that represents the modern find spot via P89 falls within		



Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Visual representation description	E62 String and related to E31 Document via P3 has note		Project/Digital_Resource_Provenance/Digital_outcomes/Descriptive_data/Description Project/Digital_Resource_Provenance/Acquisition/Technology/total_station
Readable			
Writable			
Acquisition technology			Project/Digital_Resource_Provenance/Acquisition/Technology/Photography Project/Digital_Resource_Provenance/Acquisition/Technology/two_D_scanner Project/Digital_Resource_Provenance/Acquisition/Technology/Photogrammetry Project/Digital_Resource_Provenance/Acquisition/Technology/ThreeD_scanning Project/Digital_Resource_Provenance/Acquisition/Technology/PTM_RTI
Processing information			Project/Digital_Resource_Provenance/Processing/Technical_info
Horizontal resolution			Project/Digital_Resource_Provenance/Digital_outcomes/Technical_info/File_specs/PDF_3D/horizontal_resolution
Vertical resolution			Project/Digital_Resource_Provenance/Digital_outcomes/Technical_info/File_specs/PDF_3D/vertical_resolution
Model height			Project/Digital_Resource_Provenance/Digital_outcomes/Technical_info/File_specs/threeD_model/Dimension/height





Element Name	CIDOC - CRM	EpiDoc xpath	STARC
Model length			Project/Digital_Resource_Provenance/Digital_outcomes/Technical_info/File_specs/threeD_model/Dimension/length
Model width			Project/Digital_Resource_Provenance/Digital_outcomes/Technical_info/File_specs/threeD_model/Dimension/width
Model area			Project/Digital_Resource_Provenance/Digital_outcomes/Technical_info/File_specs/threeD_model/Dimension/area
Model perimeter			Project/Digital_Resource_Provenance/Digital_outcomes/Technical_info/File_specs/threeD_model/Dimension/perimeter
Video duration			Project/Digital_Resource_Provenance/Digital_outcomes/Technical_info/File_specs/Video/Duration
Video resolution			Project/Digital_Resource_Provenance/Digital_outcomes/Technical_info/File_specs/Video/Resolution
Video rate			Project/Digital_Resource_Provenance/Digital_outcomes/Technical_info/File_specs/Video/Frame_rate



## ANNEX V - DETAILED MAPPING TABLE FOR EDM

Element Name	CIDOC - CRM	EDM	EpiDoc xpath
General			
Object ID in Data provider repository	E42 Identifier		/TEI/teiHeader/fileDesc/publicationStmt/idno
Object URI in Data provider repository	E42 Identifier	edm:isShownAt	/TEI/teiHeader/fileDesc/publicationStmt/idno
Content provider identification and language of metadata	E42 Identifier	edm:dataProvider	/TEI/teiHeader/fileDesc/publicationStmt/idno
Metadata rights	Represented by E30 Right related via P104 is subject to	edm:rights	/TEI/teiHeader/fileDesc/publicationStmt/availability/licence
Metadata author and modification date	E39 Author related to E30 Right via P75B is possessed by		/TEI/teiHeader/revisionDesc/change
Information Carrier			
Monument type	E55 Type related to E84 Information Carrier via P2 has type	edm:PhysicalThing dc:type	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/objectType
Material	E57 Type related to E84 Information Carrier via P45 consist of		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/material



Element Name	CIDOC - CRM	EDM	EpiDoc xpath
Description	E62 String related to E84 Information Carrier via P3 has note	dc:description	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/p
Dimensions	E54 Dimension related to E84 Information Carrier via P43 has dimension		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/dimensions
Decoration	E62 String related to E84 via P3 has note		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs
State of preservation	E3 Condition State related to E84 via P44 has condition		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/supportDesc/support/rs
Dating	Represented by E52 Time Span which is contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	edm:TimeSpan	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate
Dating-from		edm:begin	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notBefore
Dating-to		edm:end	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@notAfter



Element Name	CIDOC - CRM	EDM	EpiDoc xpath
Dating-arguments			/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@evidence
Dating-day			
Dating-year			
Dating-uncertainty			
Dating-chronology		dcterms:temporal	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate/@period
Dating-Text			/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origDate
Roman Province / Italic Region	E53 Place related through property P89 falls within to another instance of E53 denoting the ancient place	dcterms:isPartOf	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName/@type
Ancient find spot	E53 Place contained within an E12 Production event related to E84 Information Carrier via P10B was produced by	lawd:foundAt	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/origin/origPlace/placeName
Modern find spot	E53 Place contained within an E12 Activity event related to E84 Information Carrier via P16B was used for	lawd:foundAt	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName



Element Name	CIDOC - CRM	EDM	EpiDoc xpath
Provenance description	E12 Production event related to E84 Information Carrier via P10B was produced by	dcterms:provenance	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance
Modern Country	E53 Place related to other instances of E53 representing modern region, modern province and modern find spot by property P89 falls within	dcterms:spatial	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName
Modern region	E53 Place related to other instances of E53 representing modern country, modern province and modern find spot by property P89 falls within	dcterms:spatial	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName
Modern Province	E53 Place related to other instances of E53 representing modern country, modern region and modern find spot via property P89 falls within	dcterms:spatial	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/placeName



Element Name	CIDOC - CRM	EDM	EpiDoc xpath
Year of find	E52 Time Span which is contained within an E7 Activity event related to E84 Information Carrier via P16B was used for	edm:hasMet	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/history/provenance/@when
Country	E53 Place related to another instance of E53 representing the museum		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/country/placeName
Region			/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/region/placeName
Place of Conservation		edm:currentLocation	/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/settlement
Museum	E53 Place related to E84 Information Carrier via P55 has current location		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/epository
Inventory Number	E42 Identifier related to E84 Information Carrier via P1 is identified by		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/msIdentifier/idno
Inscription			
Object Title	E35 Title related to E84 via P102 has title	dc:title	/TEI/teiHeader/fileDesc/titleStmt/title



Element Name	CIDOC - CRM	EDM	EpiDoc xpath
TM no.( Trismegistos number)	E42 Identifier and related via P1 is identified by	owl:sameAs	/TEI/teiHeader/fileDesc/publicationStmt/idno
Type of inscription	E55 Type related to E34 Inscription via P103 was intended for	dc:type	/TEI/teiHeader/profileDesc/textClass/keywords/term
Engraving technique	E55 Type related to E34 Inscription via P2 has type		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs
Metre	E62 String related to E34 Inscription via P3 has note		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/rs
Size Of Epigraphical Field	E54 Dimension related to E34 Inscription via P43 has dimension		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/objectDesc/layoutDesc/layout/dimensions
Paleographic Characteristics	E62 String related to E34 Inscription via P3 has note		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote
Letter size	E54 Dimension related to E34 Inscription via P43 has dimension		/TEI/teiHeader/fileDesc/sourceDesc/msDesc/physDesc/handDesc/handNote/height
Author of inscription			
Honorand			
Political-Social status			
Dedicator			
Names			



Element Name	CIDOC - CRM	EDM	EpiDoc xpath
mentioned			
Event of Inscription			
Location mentioned			
Restoration			
Double side			
Erasures			
Spelling errors variations			
Editorial additions			
Other Comments			
Transcription		edm:type (TEXT)	
Transcription text and language	E62 String related to E31 Document via P3 has note	edm:isShownBy subject for language	/TEI/text/body/div/@xml:lang for the language and /TEI/text/body/div/ab for the text
Critical Apparatus	E31 Document related to the transcription document via P70B is documented in		/TEI/text/body/div/p
Commentary	E31 Document related to the transcription document via P70B is documented in		/TEI/text/body/div/p
Bibliography	E31 Document related to the transcription document via P70B is documented in	dcterms:isReferenced By	/TEI/text/body/div
Translation		edm:type (TEXT)	
Translation text	E62 String related to the translation E31 Document via	edm:hasView	/TEI/text/body/div





Element Name	CIDOC - CRM	EDM	EpiDoc xpath
	P3 has note		
Translation rights	E30 Right and related to the translation E31 document via P104 is subject to		
Translation author	E39 Actor and related to E30 Right via P75B is possessed by		
Publication title	E35 Title and related via P102 has title		
Year of publication	E52 Time Span and related to the E7 publication activity via P4 has time span		
Place of publication	E53 Place and related to the E7 publication activity via P7 took place at		
Publication author	E39 Actor and related to the E7 publication activity via P11 had participant		
Visual representation		edm:type (IMAGE/3D/VIDEO)	
Visual representation title	E35 Title and related to E31 Document via P102 has title	dc:title	

Element Name	CIDOC - CRM	EDM	EpiDoc xpath
Visual representation URL	E42 Identifier and related E31 Document via P1 is identified by	edm:isShownBy edm:object	/TEI/facsimile/graphic@url
Visual representation type	E55 Type and related to E31 Document via P2 has type	dc:type	
Format	E62 String and related to E31 Document via P3 has note	dc:format	
Visual representation inventory number	E42 Identifier related to E31 Document via P1 is identified by		
Visual representation rights	E30 Right and related to E31 Document via P104 is subject to	dc:rights	/TEI/facsimile/desc/ref@type="license" and /TEI/facsimile/desc/ref@target="license url"
Visual representation author	E39 Actor and related to E30 Right via P75B is possessed by	dc:creator	/TEI/facsimile/desc
Creation date	E52 Time Span and related to E63 via P4 has time span	dc:date	
Visual representation ancient findspot	E53 Place related to E31 Document via P67 refers to	dcterms:spatial	



Element Name	CIDOC - CRM	EDM	EpiDoc xpath
Visual representation Roman Province / Italic Region	E53 Place related to the instance of E53 Place that represents the ancient find spot via P89 falls within	dcterms:spatial	
Visual representation modern findspot	E53 Place related to E31 Document via P67 refers to	dcterms:spatial	
Visual representation modern country	E53 Place related to the instance of E53 Place that represents the modern find spot via P89 falls within	dcterms:spatial	
Visual representation description	E62 String and related to E31 Document via P3 has note	dc:description	
Readable			
Writable			
Acquisition technology			
Processing information			
Horizontal resolution			
Vertical resolution			
Model height			
Model length			
Model width			
Model area			
Model perimeter			
Video duration			



Element Name	CIDOC - CRM	EDM	EpiDoc xpath
Video resolution			
Video rate			

## ANNEX VI - MANDATORY EDM ELEMENTS

This part describes the current version of the Europeana Data Model (EDM), highlighting its mandatory elements and comparing them with the previous version (ESE, Europeana Semantic Elements). It will also be of paramount importance when mapping from EAGLE metadata schema to EDM. Since ALL EDM mandatory fields need to appear on the Europeana portal when data will be published (**Europeana will not publish data missing these mandatory fields**), it is strongly recommended that content providers will guarantee well in advance that these will appear in their own schemas, prior the mapping process. During the harmonization procedure it is necessary to allow Providers to map directly into the EAGLE metadata elements, or to choose from a set of constant values (see the elements indicated by the blue arrow).



**Mandatory fields are indicated by the red arrow.**



**Setting constant values for a specific field are indicated by the blue arrow.**

### ESE and EDM

#### Mandatory fields in ESE v3.4<sup>1</sup>

<b>europa:rights</b>	Changed to Mandatory. Clarification of use of this element and dc:rights
<b>europa:dataProvider</b>	Mandatory
<b>dc:language</b>	Mandatory for objects with type TEXT, strongly recommended for other types where appropriate.
<b>dc:title</b> or <b>dc:description</b>	Mandatory to provide one of these two
<b>dc:subject</b> , <b>dc:type</b> , <b>dc:coverage</b> ; <b>dc:terms:spatial</b>	Mandatory to provide one of these four
<b>europa:country</b>	Europeana enters the country name of data provider as part of the ingestion process but can only do this accurately only if Providers (aggregators) provide datasets by country.
<b>europa:isShownAt</b>	Mandatory
<b>europa:isShownBy</b>	Mandatory

<sup>1</sup> Europeana Semantic Elements v3.4.1: <http://pro.europeana.eu/documents/900548/dc80802e-6efb-4127-a98e-c27c95396d57>. The Europeana Semantic Elements (ESE) consist of the 15 original Dublin Core (DC) metadata elements, a subset of the DC terms and a set of thirteen elements which were created to meet Europeana's needs.

The mandatory fields IN EDM are the same as in ESE.

In EDM it is also **mandatory** to provide unique (and preferably persistent) identifiers for the **edm:providedCHO** and **ore:Aggregation** classes.

### EDM mapping guidelines<sup>2</sup>

The guidelines<sup>3</sup> present 7 classes selected for the first implementation of EDM: core classes represent cultural heritage objects and the contextual classes those associated with it.

The **core classes** are:

- The cultural heritage object itself, e.g. a painting, a movie, a music score, a book, etc. (**edm:ProvidedCHO**)
- The web resource where the digital representation of the object is published, e.g. the digital image of the painting (**edm:WebResource**)
- The aggregation that groups classes together and represent the result of the provider's activity (**ore:Aggregation**)

The **contextual classes** are:

- Who (**edm:Agent**)
- Where (**edm:Place**)
- When (**edm:TimeSpan**)
- What (**skos:Concept**)

### The Core EDM classes

Below you will find a description of classes listing all the properties that could be used with that class, according to the model. Only a subset of properties will be implemented at this stage. Properties marked with grey will be used only in a later stage and therefore should NOT be mapped for now.

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<sup>2</sup> Europeana Data Model Mapping Guidelines v1.0.1 <http://pro.europeana.eu/documents/900548/ea68f42d-32f6-4900-91e9-ef18006d652e>

<sup>3</sup> For further information, read the EDM Definition v. 5.2.3 (<http://pro.europeana.eu/documents/900548/bb6b51df-ad11-4a78-8d8a-44cc41810f22>) that gives a full declaration of the classes and properties. It is also possible to refer to the Europeana Semantic Element Specification v 3.4 (<http://pro.europeana.eu/documents/900548/dc80802e-6efb-4127-a98e-c27c95396d57>) that has the full specification for the Dublin Core elements and the ESE elements reused in EDM.

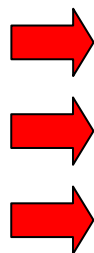
## 1. Properties for the provided cultural heritage objects (edm:ProvidedCHO)

These are the properties that can be used for the class edm:ProvidedCHO. They are the attributes of the cultural heritage object (CHO) itself, **and not** their digital representation.

Property	Note	Value type	Obligation and Occurrence
owl:sameAs	Use to point to your own (linked data) representation of the object, if you have already minted a URI identifier for it. It is also possible to provide URIs minted by third-parties for the object	ref	min 0, max unbounded
rdf:type	Use to indicate if this resource is of a given ‘real world object’ type – it could be edm:PhysicalThing or a more specific class	ref	min 0, max unbounded
dc:contributor	For contributors to the CHO. If possible supply the identifier of the contributor from an authority source	Literal or ref	min 0, max unbounded
dc:coverage	The spatial or temporal topic of the CHO. Use the more precise dcterms:spatial or dcterms:temporal properties if the data will support it. <b>One of dc:coverage or dc:subject or dc:type or dcterms:spatial MUST be provided</b>	Literal or ref	min 0, max unbounded
dc:creator	For the creator of the CHO. If possible supply the identifier of the creator from an authority source	Literal or ref	min 0, max unbounded
dc:date	Use for a significant date in the life of the CHO. Consider the sub-properties of dcterms:issued	Literal or ref	min 0, max unbounded
dc:description	A description of the CHO. <b>Either dc:description or dc:title MUST be provided<sup>4</sup></b>	Literal or ref	min 0, max unbounded
dc:format	Use the format of a born digital cultural heritage objects or for other terms applied to the CHO	Literal or ref	min 0, max unbounded
dc:identifier	An identifier of the original CHO (Use the value ‘3D-PDF’ if appropriate to trigger portal icon display)	Literal	min 0, max unbounded
dc:language	The language of text CHOs and also for other types of CHO if there is a language aspect. <b>Mandatory for TEXT objects,</b>	Literal	min 0, max unbounded

<sup>4</sup> From the guidelines it is **dc:title** or **dc:description**. Although **providing both elements would be preferred if meaningful values can be provided for both** (Europeana technical team suggestion).

	<b>strongly recommended for other object types with a language element</b>		
dc:publisher	The name of the publisher of the CHO. If possible supply the identifier of the publisher from an authority source.	Literal or ref	min 0, max unbounded
dc:relation	The name or identifier of a related resource, generally used for other related CHOs. Cf. Edm:isRelatedTo	Literal or ref	min 0, max unbounded
dc:rights	Use to give the names of the rights holder of the CHO if possible or for more general rights information. Note the difference between this property and the use of the controlled edm:rights property which relates to the digital objects (see WebResource and Aggregation tables)	Literal or ref	min 0, max unbounded
dc:source	The source of the original CHO. This property should no longer be used for the name of the content holder: for this, see edm:dataProvider in the ore:Aggregation table	Literal or ref	min 0, max unbounded
dc:subject	The subject of the CHO. <b>One of dc:subject or dc:coverage or dc:type or dcterms:spatial MUST be provided</b>	Literal or ref	min 0, max unbounded
dc:title	The title of the CHO. <b>Either dc:title or dc:description MUST be provided<sup>5</sup></b>	Literal	min 0, max unbounded
dc:type	The nature or genre of the CHO. Ideally the term(s) will be taken from a controlled vocabulary. <b>One of dc:type or dc:subject or dc:coverage or dcterms:spatial MUST be provided</b>	Literal or ref	min 0, max unbounded
dcterms:alternative	Any alternative title of the CHO including abbreviations or translations	Literal or ref	min 0, max unbounded
dcterms:conformsTo	An established standard to which the CHO conforms	Literal or ref	min 0, max unbounded
dcterms:created	The date of creation of the CHO	Literal or ref	min 0, max unbounded
dcterms:extent	The size or duration of the CHO	Literal or ref	min 0, max unbounded
dcterms:hasFormat	A resource related to the CHO that is substantially the same as the CHO but in another format	Literal or ref	min 0, max unbounded
dcterms:hasPart	A resource that is included either physically or logically in the CHO	Literal or ref	min 0, max unbounded
dcterms:hasVersion	Another resource that is a version, edition or adaptation of the CHO demonstrating	Literal or ref	min 0, max unbounded

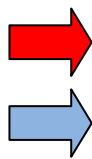


<sup>5</sup> From the guidelines it is **dc:title** or **dc:description**. Although **providing both elements would be preferred if meaningful values can be provided for both** (Europeana technical team suggestion).



	substantive changes in content rather than format		
dcterms:isFormatOf	Another resource that is substantially the same as the CHO but in another format	Literal or ref	min 0, max unbounded
dcterms:isPartOf	A resource in which the CHO is physically or logically included. This property can be used for objects that are part of a hierarchy and will be used to support an appropriate display in the portal. For that purpose it will be necessary to supply an identifier as the value.	Literal or ref	min 0, max unbounded
dcterms:isReferencedBy	Another resource that references, cites or otherwise points to the CHO	Literal or ref	min 0, max unbounded
dcterms:isReplacedBy	Another resource that supplants, displaces, or supersedes the CHO.	Literal or ref	min 0, max unbounded
dcterms:isRequiredBy	Another related resource that requires the CHO to support its function, delivery or coherence	Literal or ref	min 0, max unbounded
dcterms:issued	Date of formal issuances or publication of the CHO.	Literal or ref	min 0, max unbounded
dcterms:isVersionOf	Another resource of which the CHO is a version, edition or adaptation, demonstrating substantive changes in content rather than format.	Literal or ref	min 0, max unbounded
dcterms:medium	The material or physical carrier of the CHO	Literal or ref	min 0, max unbounded
dcterms:provenance	A statement of changes in ownership and custody of the CHO since its creation. Significant for authenticity, integrity and interpretation	Literal or ref	min 0, max unbounded
dcterms:references	Other resources referenced, cited or otherwise pointed to by the CHO.	Literal or ref	min 0, max unbounded
dcterms:replaces	A related resource that is supplanted, displaced, or superseded by the CHO.	Literal or ref	min 0, max unbounded
dcterms:requires	Another resource that is required by the described resource to support its function, delivery or coherence.	Literal or ref	min 0, max unbounded
dcterms:spatial	Spatial characteristics of the CHO (i.e, what the CHO represents or depict in term of space – e.g. location, co-ordinate or place). Either <b>dcterms:spatial or dc:type or dc:subject or dc:coverage MUST be provided</b>	Literal or ref	min 0, max unbounded
dcterms:tableOfContents	A list of sub-units of the CHO	Literal	min 0, max unbounded
dcterms:temporal	Temporal characteristics of the CHO, i.e. what the CHO is about or depicts in term of time (e.g. a period, date or date range)	Literal or ref	min 0, max unbounded





edm:type	The provided object is one of the types accepted by Europeana and will govern which facet it appears under in the portal: <b>TEXT, VIDEO, SOUND, IMAGE, 3D</b> (for 3D see also dc:format)	Literal	Min 1, max 1
edm:unstored		Literal	min 0, max unbounded
edm:currentLocation	The geographic location whose boundaries presently include the CHO. If the name of a repository, building, site or other entity is used then it should include an indication of its geographic location.	ref	min 0, max 1
edm:hasMet	The identifier of an agent, a place, a time period or any other identifiable entity that the CHO may have 'met' in its life	ref	min 0, max unbounded
edm:hasType	The identifier of a concept, or a word or phrase from a controlled vocabulary giving the type of the CHO. E.g. Painting from the AAT thesaurus. This property can be seen as a super-property of e.g. dc:format or dc:type to support 'What' questions.	Ref or literal	min 0, max unbounded
edm:incorporates	The identifier of another resource that is incorporated in the described CHO. E.g. the movie 'A Clockwork Orange' incorporates Rossini's 'La gazza ladra' in its soundtrack.	ref	min 0, max unbounded
edm:isDerivativeOf	The identifier of another resource from which the described CHO has been derived. E.g. the identifier of Moby Dick when the Italian translation is the described CHO.	ref	min 0, max unbounded
edm:isnextInSequence	The identifier of the preceding object where both objects are part of the same overall resource. Use this for objects that are part of a hierarchy or sequence to ensure correct display in the portal.	ref	min 0, max 1
edm:isRelatedTo	The identifier or name of a concept or other resource to which the described CHO is related. E.g. Moby Dick is related to XIX Century literature. Cf. Dc:relation	Ref or literal	min 0, max unbounded
edm:isRepresentationOf	The identifier of another object of which the described CHO is a representation. E.g. the identifier of the statue when the CHO being described is a painting of that statue.	Ref	Min 0, max 1

edm:isSimilarTo	The identifier of another resource to which the described CHO is similar.	Ref	Min 0, max unbounded
edm:isSuccessorOf	The identifier of a resource to which the described CHO is a successor. E.g. issue 53 of 'Le Temps' isSuccessorOf issue 52	Ref	Min 0, max unbounded
edm:realizes	If the CHO described is of type edm:PhysicalThing it may realize an information object. E.g. a copy of the Gutenberg publication realizes the Bible.	Ref	Min 0, max unbounded
edm:wasPresentAt	The identifier of an event at which the described object was present. E.g. the Stone of Scone was present at the coronation of King James I of England	Ref	Min 0, max unbounded

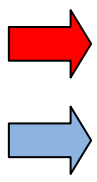
## 2. Properties for the Web Resource (edm:WebResource)

These are the properties that can be used for the class of edm:WebResource. They are the attributes of the digital representation of the provided cultural heritage object, not the cultural heritage object itself.

There could be more than one edm:WebResource for each edm:ProvidedCHO and they will be associated via the ore:Aggregation using edm:isShownAt, edm:isShownBy, edm:hasView or edm:object. Each web resource provided should have its own set of properties.




Property	Note	Value type	Obligation and Occurrence
dc:description	Use for an account or description of this digital representation	Literal or ref	Min 0, max unbounded
dc:format	Use for the format of this digital representation (Use the value '3D-PDF' if appropriate to trigger portal icon display)	Literal or ref	Min 0, max unbounded
dc:rights	Use for the name of the rights holder of this digital representation if possible or for more general right information. Note the difference between this property and the use of the mandatory, controlled edm:rights property below	Literal or ref	Min 0, max unbounded
dc:source	A related resource from which this web resource is derived in whole or in part. This property should no longer be used for the name of the conten holder: for this, see edm:dataProvider in the ore:Aggregation table below	Literal or ref	Min 0, max unbounded
dcterms:extent	The size or duration of the web resource	Literal or ref	Min 0, max unbounded
dcterms:issued	Date of formal issuance or publication of	Literal	Min 0, max

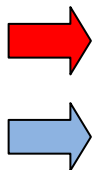
	the web resource		unbounded
dcterms:created	Date of creation of the web resource	Literal or ref	Min 0, max unbounded
dcterms:conformsTo	An established standard to which the web resource conforms	Literal or ref	Min 0, max unbounded
dcterms:isFormatOf	Another resource that is substantially the same as the web resource but in another format	Literal or ref	Min 0, max unbounded
edm:rights	<p>The value in this element will indicate the usage and access rights that apply to this digital representation. For the first implementation of EDM only the rights associated with ore:Aggregation class will be implemented. Later implementations will be able to use the edm:rights associated with individual WebResources so it is <b>strongly recommended</b> that a value is supplied for this property for each instance of a WebResource. See also edm:rights in the ore:Aggregation table.</p> <p><b>The value is a URI in a controlled form. See the Rights guidelines at <a href="http://pro.europeana.eu/technical-requirements">http://pro.europeana.eu/technical-requirements</a></b></p>	ref	Min 0, max 1
dcterms:hasPart	A resource that is included either physically or logically in the web resource	Literal or ref	Min 0, max unbounded
edm:isNextInSequence	Where one CHO has several web resources, shown by multiple instances of the edm:hasView property on the ore:Aggregation, then this property can be used to show the sequence of the objects.	ref	Min 0, max 1



### 3. Properties for the Aggregation (ore:Aggregation)

Property	Note	Value type	Obligation and Occurrence
ore:aggregates	This property exists in principle only as it is stated through edm:aggregatedCHO and edm:hasView statements	ref	Min 0, max unbounded
edm:aggregatedCHO	The identifier of the source object e.g. the Mona Lisa itself. This could be a full linked open data URI or an internal identifier.	Ref	Min 1, max 1

	edm:dataProvider	The name or identifier of the data provider of the object (i.e. the organisation providing data to an aggregator). Identifiers will not be available until Europeana has implemented its Organisation profile.	Literal or ref	Min 1, max 1
	edm:hasView	The URL of a web resource which is a digital representation of the CHO. This may be the source object itself in the case of a born digital cultural heritage object. edm:hasView should only be used where there are several views of the CHO and one (or both) of the mandatory edm:isShownBy properties have already been used. It is for cases where one CHO has several views of the same object.	ref	Min 0, max unbounded
	edm:isShownBy	The URL of a web view of the object. <b>Either edm:isShownAt or edm:isShownBy is mandatory.</b> For the previews rights see edm:rights below.	ref	Min 0, max 1
	edm:isShownAt	The URL of a web view of the object in full information context. <b>Either edm:isShownAt or edm:isShownBy is mandatory.</b> For the previews rights see edm:rights below.	ref	Min 0, max 1
	edm:object	The URL of a representation of the CHO which will be used for generating preview for use in the Europeana portal. This may be the same URL as edm:isShownBy.  See Europeana Portal Image Guidelines ( <a href="http://pro.europeana.eu/technical-requirements">http://pro.europeana.eu/technical-requirements</a> ) for information about previews specifications	ref	Min 0, max 1
	edm:provider	The name or identifier of the provider of the object (i.e. the organisation providing data directly to Europeana), Identifiers will not be available until Europeana has implemented its Organisation profile.	Literal or ref	Min 1, max 1



dc:rights edm:rights	Ideally this should be applied to the edm:WebResource or the edm:ProvidedCHO. This is <b>mandatory</b> property and the value given here should be the rights statement that applies to the digital representation at the URL given in edm:object or edm:isShownAt and edm:isShownBy. The value should be taken from one of those listed in the Europeana Rights Guidelines	Ref	Min 1, max 1
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	<p><a href="http://pro.europeana.eu/technical-requirements">http://pro.europeana.eu/technical-requirements</a>)</p> <p>The rights statement given in this property will also apply to the previews used in the portal and will be the source of: the entry in the Rights facet on the portal; the license badge that appears under the preview on the result page.</p> <p>Where there are several web resources attached to one edm:ProvidedCHO the rights statement given here will be regarded as the 'reference' value for all the web resources so a suitable value should be chosen if the rights statements vary between different resources.</p>		
edm:unstored	Ideally this should be applied to the edm:WebResource or the edm:ProvidedCHO. It is only included here for the conversion of data from ESE.	Literal	Min 0, max unbounded
Edm:UGC	This is a mandatory property for objects that are user generated or created. The property is used to identify such content and only take the value 'true'.	Literal	Min 0, max 1





**Mandatory only for objects that are user generated or user created content.**

### **The Contextual classes**

The contextual classes are:

- Who (edm:Agent)
- Where (edm:Place)
- When (edm:TimeSpan)
- What (skos:Concept)

The contextual classes of edm:Agent, edm:Place, edm:TimeSpan and skos:Concept are provided to allow these entities to be modelled as separate entities from the CHO with their own properties if the data can support this treatment.

When source metadata contains additional details about an entity that is distinct from the CHO (for instance, the date of birth of an author, different language versions of a subject term) then these contextual classes can be used to model that separate entity.

These values are properties of that separate entity, rather than a property of the CHO and the properties can be mapped by creation of an appropriate edm contextual entity. This may be the case where the value in the property is an identifier taken from a thesaurus or authority file which will link to further information related to that entity. For example, the identifier for an Author name in an authority file will give access to fuller information about the Author.



The elements **in grey** are not included in the first implementation.

### 1. Properties for an Agent (edm:Agent)

The class edm:Agent comprises people, individually or groups, who have the potential to perform intentional actions (see EDM Definition 5.2.3 for a fuller definition of the EDM properties)

Property	Note	Value type	Obligation and Occurrence
edm:wasPresentAt	The identifier of an event at which the agent was present	ref	Min 0, max unbounded
edm:hasMet	The identifier of another entity which the agent has 'met' in a broad sense	ref	Min 0, max unbounded
edm:isRelatedTo	The identifier of other entities, particularly other agents, with whom the agent is related in a generic sense	ref	Min 0, max unbounded
skos:prefLabel	The preferred form of the name of the agent	literal	Min 0, max 1 per lang tag
skos:altLabel	Alternative forms of the name of the agent	literal	Min 0, max unbounded
skos:note	A note about the agent, e.g. biographical notes	literal	Min 0, max unbounded
skos:hiddenLabel	Used for non standard forms of the name, such as misspellings, usually in text-based search functions	literal	Min 0, max unbounded
owl:sameAs	The URI of an agent	ref	Min 0, max unbounded
foaf:name	The name of the agent as a simple textual string	literal	Min 0, max unbounded
dc:date	A significant date associated with the agent	ref	Min 0, max unbounded
dc:identifier	An identifier of the agent	ref	Min 0, max unbounded
rdaGr2:dateOfBirth	The date the agent (person) was born	literal	Min 0, max 1
rdaGr2:dateOfDeath	The date the agent (person) died	literal	Min 0, max 1
rdaGr2:dateOfEstablishment	The date on which the agent (group) was established or founded	literal	Min 0, max 1
rdaGr2:dateOfTermination	The date on which the agent (group) was terminated or dissolved	literal	Min 0, max 1
rdaGr3:gender	The gender with which the agent identifies	literal	Min 0, max 1
rdaGr2:professionOrOccupation	The profession or occupation in which the agent works or has	ref	Min 0, max unbounded



	worked		
rdaGr2:biographicalInformation	Information pertaining to the life history of the agent	literal	Min 0, max unbounded
edm:begin	The date the agent was born/established	literal	Min 0, max 1
edm:end	The date the agent died/terminated	literal	Min 0, max 1

## 2. Properties for a Place (edm:Place)

A spatial location identified by the provider and named according to some vocabulary or local convention

Property	Note	Value type	Obligation and Occurrence
wgs84_pos:lat	The latitude of a spatial thing (decimal degrees)	Literal	min 0, max 1
wgs84_pos:long	The longitude of a spatial thing (decimal degrees)	Literal	min 0, max 1
wgs84_pos:alt	The altitude of a spatial thing (decimal metres above the reference)	Literal	min 0, max 1
wgs84_pos:lat_long	A comma separated representation of a latitude, longitude coordinate	Literal	min 0, max 1
skos:prefLabel	The preferred form of the name of the place	Literal	min 0, max 1 per lang tag
skos:altLabel	Alternative forms of the name of the place	Literal	Min 0, max unbounded
skos:note	Information relating to the place	Literal	Min 0, max unbounded
skos:hiddenLabel	Used for non standard forms of the name, such as misspellings, usually in text-based search functions	Literal	Min 0, max unbounded
dc:terms:hasPart	Identifier of a place that is part of the place being described	ref	Min 0, max unbounded
dcterms:isPartOf	Identifier of a place that the described place is part of	ref	Min 0, max unbounded
owl:sameAs	URI of a Place	ref	Min 0, max unbounded

## 2. Properties for a Timespan or Period (edm:TimeSpan)

A period of time having a beginning and end and a duration.

Property	Note	Value type	Obligation and Occurrence

skos:prefLabel	The preferred form of the name of the timespan or period	Literal	min 0, max 1 per lang tag
skos:altLabel	Alternative forms of the name of timespan or period	Literal	Min 0, max unbounded
skos:note	Information relating to the timespan or period	Literal	Min 0, max unbounded
dc:terms:hasPart	The identifier of a timespan which is part of the described timespan	ref	Min 0, max unbounded
dcterms:isPartOf	The identifier of a timespan of which the described timespan is part	ref	Min 0, max unbounded
owl:sameAs	The URI of a timespan	ref	Min 0, max unbounded
crm:P79F.beginning_is_qualified_by	Qualifying information about the start of the timespan, such as degree of certainty, precision, source, etc.	Literal	Min 0, max unbounded
crm:P80F.end_is_qualifies_by	Qualifying information about the end of the timespan, such as degree of certainty, precision, source, etc.	Literal	Min 0, max unbounded
edm:begin	The date the timespan started	Literal	Min 0, max 1
edm:end	The date the timespan finished	Literal	Min 0, max 1

### 3. Properties for a Concept (skos:Concept)

A unit of thought or meaning that comes from an organised knowledge base (such as a subject terms from a thesaurus or controlled vocabulary) where URIs or local identifiers have been created to represent each concept (i.e. in cultural heritage field the AAT)

Property	Note	Value type	Obligation and Occurrence
skos:prefLabel	The preferred form of the name of the concept	Literal	Min 0, max 1 per lang tag
skos:altLabel	Alternative forms of the name of the concept	Literal	Min 0, max unbounded
skos:broader	The identifier of a broader concept in the same thesaurus or controlled vocabulary	ref	Min 0, max unbounded
skos:narrower	The identifier of a narrower concept	ref	Min 0, max unbounded
skos:related	The identifier of a related concept	ref	Min 0, max unbounded
skos:note	Information relating to the concept	Literal	Min 0, max unbounded

skos:hiddenLabel	Used for non standard forms of the name, such as misspellings, usually in text-based search functions	Literal	Min 0, max unbounded
skos:broadMatch skos:narrowMatch skos:relatedMatch	The identifier of a broader, narrower or related matching concepts from other concept schemas	Ref	Min 0, max unbounded
skos:exactMatch skos:closeMatch	The identifier of close or exactly matching concepts from other concept schemas	Ref	Min 0, max unbounded
skos:notation	The notation on which the concept is represented. This may not be words in natural language for some knowledge organisation systems e.g. algebra	String (+ rdf:datatype attribute)	Min 0, max unbounded
skos:inScheme	The URI of a concept scheme	ref	Min 0, max unbounded

**For further information, all the Europeana Data Model Documentation can be consulted at:** <http://pro.europeana.eu/edm-documentation>

## ANNEX VII - XML SCHEMA FOR THE EAGLE AGGREGATOR CONCEPTUAL MODEL

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:eagle="http://www.eagle-network.eu/eagle"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://www.eagle-
network.eu/eagle"
  elementFormDefault="qualified" version="1" id="eagle">

  <xs:element name="eagleObject" type="eagle:eagleEntity">
    <xs:annotation>
      <xs:documentation>
        The EAGLE wrapper object. It contains the following main entities
        (sub-entities): epigraphy, trismegistos, digitalObject.
        Such entities share some common properties like resource identifier in D-Net aggregation
system,
        provenance and original identifier information, Intellectual property right statement.
      </xs:documentation>
    </xs:annotation>
  </xs:element>

  <xs:element name="recordSourceInfo">
    <xs:complexType>
      <xs:simpleContent>
        <xs:extension base="xs:string">
          <xs:attribute name="providerName" type="xs:string"/>
          <xs:attribute name="providerAcronym" type="xs:string"/>
          <xs:attribute name="providerURI" type="xs:anyURI"/>
        </xs:extension>
      </xs:simpleContent>
    </xs:complexType>
  </xs:element>

  <xs:element name="trismegistosCard">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="tmlId" type="xs:string">
          <xs:annotation>
            <xs:documentation>Plain Trismegistos number</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="identifiesInscription" minOccurs="1" maxOccurs="unbounded"
          type="xs:string">
          <xs:annotation>
            <xs:documentation>Relation to an inscription</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="otherRelevantPropertiesFromTrismegistos" minOccurs="0"
          maxOccurs="unbounded" type="eagle:TypedStringType">
          <xs:annotation>
            <xs:documentation>TODO: select information from Trismegistos cards to be put
here</xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
```

```
<xs:element name="artifact">
  <xs:annotation>
    <xs:documentation>Generic artifact in EAGLE domain</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="artefactType">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="monument"/>
            <xs:enumeration value="inscription"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element name="monumentType" minOccurs="1" maxOccurs="unbounded"
        type="eagle:StringWithUriType"/>
      <xs:element name="material" minOccurs="1" maxOccurs="unbounded"
        type="eagle:StringWithUriType"/>
      <xs:element name="dimensions" minOccurs="0" maxOccurs="1"
        type="eagle:ThreeDimensionsType"/>
      <xs:element name="decoration" minOccurs="0" maxOccurs="1"
        type="eagle:StringWithUriType"/>
      <xs:element name="stateOfPreservation" minOccurs="0" maxOccurs="1"
        type="eagle:StringWithUriType"/>
      <xs:element name="originDating" minOccurs="0" maxOccurs="1" type="eagle:DateType"/>
      <xs:element name="yearOfFinding" minOccurs="0" maxOccurs="1" type="xs:integer"/>
      <xs:element ref="eagle:findingSpot" minOccurs="0" maxOccurs="1"/>
      <xs:element ref="eagle:conservationPlace" minOccurs="0" maxOccurs="1"/>
      <xs:sequence>
        <xs:element ref="eagle:monument" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>
              Present when artifactType='monument'.
              This describes an artifact without any inscription on top of it
            </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element ref="eagle:inscription" minOccurs="0" maxOccurs="unbounded">
          <xs:annotation>
            <xs:documentation>
              Present when artifactType='inscription'.
              This describes the inscription present on the artifact.
            </xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="findingSpot">
  <xs:annotation>
    <xs:documentation> structured property locating the place of finding</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:all>
      <xs:element name="romanProvinceltalicRegion" minOccurs="0" maxOccurs="1"
        type="eagle:StringWithUriType"/>
      <xs:element name="ancientFindSpot" minOccurs="0" maxOccurs="1"
        type="eagle:StringWithUriType"/>
    </xs:all>
  </xs:complexType>
</xs:element>
```

```
<xs:element name="modernFindSpot" minOccurs="0" maxOccurs="1"
  type="eagle:StringWithUriType"/>
<xs:element name="modernCountry" minOccurs="0" maxOccurs="1"
  type="eagle:StringWithUriType"/>
<xs:element name="modernRegion" minOccurs="0" maxOccurs="1"
  type="eagle:StringWithUriType"/>
<xs:element name="modernProvince" minOccurs="0" maxOccurs="1"
  type="eagle:StringWithUriType"/>
</xs:all>
</xs:complexType>
</xs:element>
```

```
<xs:element name="conservationPlace">
  <xs:annotation>
    <xs:documentation>Structured property locating the place of conservation (down to position inside
a museum)</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:all>
      <xs:element name="conservationCountry" minOccurs="0" maxOccurs="1"
        type="eagle:StringWithUriType"/>
      <xs:element name="conservationRegion" minOccurs="0" maxOccurs="1"
        type="eagle:StringWithUriType"/>
      <xs:element name="conservationCity" minOccurs="0" maxOccurs="1"
        type="eagle:StringWithUriType"/>
      <xs:element name="museum" minOccurs="0" maxOccurs="1" type="eagle:StringWithUriType"/>
      <xs:element name="position" minOccurs="0" maxOccurs="1" type="xs:string"/>
      <xs:element name="inventoryNumber" minOccurs="0" maxOccurs="1" type="xs:string"/>
    </xs:all>
  </xs:complexType>
</xs:element>
```

```
<xs:element name="inscription">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="eagle:refersTrismegistosCard" minOccurs="0" maxOccurs="1"/>
      <xs:element name="inscriptionType" minOccurs="0" maxOccurs="1"
        type="eagle:StringWithUriType">
        <xs:annotation>
          <xs:documentation>Type of the inscription</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="engravingTechnique" minOccurs="0" maxOccurs="1"
        type="eagle:StringWithUriType">
        <xs:annotation>
          <xs:documentation>Engraving techniques used for the inscription</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element maxOccurs="1" minOccurs="0" name="metre" type="xs:string">
        <xs:annotation>
          <xs:documentation>Metric of the inscription</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="fieldSize" minOccurs="0" maxOccurs="1"
        type="eagle:TwoDimensionsType">
        <xs:annotation>
          <xs:documentation>Dimensions of the epigraphic field</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element maxOccurs="1" minOccurs="0" name="paleographicCharacteristics"
```

```
type="xs:string">
  <xs:annotation>
    <xs:documentation>Paleographic Characteristics of the inscription</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element maxOccurs="1" minOccurs="0" name="letterSize"
  type="eagle:TwoDimensionsType">
  <xs:annotation>
    <xs:documentation>Size of the letter (font)</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element maxOccurs="1" minOccurs="0" name="inscriptionAuthor" type="xs:string">
  <xs:annotation>
    <xs:documentation>
      Author of the inscription, e.g. the creator of the inscription itself,
      or the name of the artist or the name of the artistic/artisan school
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element maxOccurs="1" minOccurs="0" name="honorand">
  <xs:annotation>
    <xs:documentation>
      The person to whom the inscription was dedicated and the political/social role/position of
the honorand
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attribute name="socialStatus" type="xs:string"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
<xs:element maxOccurs="1" minOccurs="0" name="dedicator" type="xs:string">
  <xs:annotation>
    <xs:documentation>name of the person who devotes the inscription</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element maxOccurs="1" minOccurs="0" name="namesMentioned" type="xs:string">
  <xs:annotation>
    <xs:documentation>names of the person(s) mentioned in the
inscription</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element maxOccurs="1" minOccurs="0" name="relatedEvent" type="xs:string">
  <xs:annotation>
    <xs:documentation>description about the event related to the purpose of the
inscription</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element maxOccurs="1" minOccurs="0" name="placesMentioned" type="xs:string">
  <xs:annotation>
    <xs:documentation>Placenames mentioned in the inscription</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element maxOccurs="1" minOccurs="0" name="restorationInfo" type="xs:string">
  <xs:annotation>
    <xs:documentation>information regarding whether the inscription has been restored and
when</xs:documentation>
```



```

    </xs:annotation>
  </xs:element>
  <xs:element maxOccurs="1" minOccurs="0" name="doubleSided" type="xs:string">
    <xs:annotation>
      <xs:documentation>States whether the inscription is double-sided or
not</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element maxOccurs="1" minOccurs="0" name="erasures" type="xs:string">
    <xs:annotation>
      <xs:documentation>It specifies whether the text of the inscription was damaged on
purpose</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element maxOccurs="1" minOccurs="0" name="spellingErrors" type="xs:string">
    <xs:annotation>
      <xs:documentation>It shows if there are any spelling mistakes on the text of the
inscription</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="hasInscriptionVisualRepresentation" type="eagle:StringWithUriType"
minOccurs="0" maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>
        D-net identifier of a related digital representation
        (the uri attribute can be used to point a thumbnail for portal convenience)
      </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="hasTranslation" type="xs:string" minOccurs="0"
maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>Translation resource identifier</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="hasTranscription" type="xs:string" minOccurs="0"
maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>Translation resource identifier</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

<xs:element name="monument">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="hasMonumentVisualRepresentation" type="eagle:StringWithUriType"
minOccurs="0" maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation>
            D-net identifier of a related digital representation
            (the uri attribute can be used to point a thumbnail for portal convenience)
          </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```



```
<xs:element name="refersTrismegistosCard">
  <xs:annotation>
    <xs:documentation>*Recommended* references dnetResourceIdentifier of the related trismegistos
object</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attribute name="tm_id" type="xs:string" use="required">
          <xs:annotation>
            <xs:documentation>the plain trismegistos number</xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>

<xs:element name="documentalManifestation">
  <xs:annotation>
    <xs:documentation>Container for documents describing the inscription (i.e. transcriptions and
translations)</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="documentType">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="transcription"/>
            <xs:enumeration value="translation"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:choice>
        <xs:element ref="eagle:transcription"/>
        <xs:element ref="eagle:translation"/>
      </xs:choice>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="visualRepresentation">
  <xs:annotation>
    <xs:documentation>Digital image representing of an EAGLE artifact/monument or
context</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="representationType" minOccurs="0" maxOccurs="1">
        <xs:annotation>
          <xs:documentation>Image type among {Drawing, Photo, Computer graphics, Digitized
literature, Video}</xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value="Image"/>
            <xs:enumeration value="Drawing"/>
            <xs:enumeration value="Digitizad literature"/>
            <xs:enumeration value="Computer graphic"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:enumeration value="Video"/>
  </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="url" minOccurs="1" maxOccurs="1" type="xs:anyURI"/>
<xs:element name="thumbnail" minOccurs="0" maxOccurs="1" type="xs:anyURI"/>
<xs:element name="author" type="xs:string" minOccurs="0" maxOccurs="1"/>
<xs:element name="visualRepresentationIpr" type="eagle:StringWithUriType"
  minOccurs="1" maxOccurs="1"/>
<xs:element name="creationDate" type="xs:string" minOccurs="0" maxOccurs="1"/>
<xs:element name="quality" type="xs:string" minOccurs="0" maxOccurs="1"/>
<xs:element name="format" type="xs:string" minOccurs="0" maxOccurs="1"/>
<xs:element name="isRepresentationOf" minOccurs="0" maxOccurs="unbounded"
  type="xs:string">
  <xs:annotation>
    <xs:documentation>D-net identifier of a physical object the picture refers
to</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="info3D" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>Present only if the visual representation is a 3D rendering (i.e.
computer graphics)</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="acquisitionTechnology" type="xs:string" minOccurs="0"
        maxOccurs="1"/>
      <xs:element name="processingInfo" type="xs:string" minOccurs="0"
        maxOccurs="1"/>
      <xs:element name="horizontalResolution" type="xs:string" minOccurs="0"
        maxOccurs="1"/>
      <xs:element name="verticalResolution" type="xs:string" minOccurs="0"
        maxOccurs="1"/>
      <xs:element name="modelDimensions" type="eagle:ThreeDimensionsType"
        minOccurs="0" maxOccurs="1"/>
      <xs:element name="modelArea" type="xs:string" minOccurs="0"
        maxOccurs="1"/>
      <xs:element name="modelPerimeter" type="xs:string" minOccurs="0"
        maxOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="infoVideo" minOccurs="0" maxOccurs="1">
  <xs:annotation>
    <xs:documentation>Present only if the visual representation is a video resource (i.e.
video)</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="duration" type="xs:string" minOccurs="0" maxOccurs="1"/>
      <xs:element name="resolution" type="xs:string" minOccurs="0"
        maxOccurs="1"/>
      <xs:element name="rate" type="xs:string" minOccurs="0" maxOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

```

<xs:element name="translation">
  <xs:annotation>
    <xs:documentation>
      Translation page from media wiki.
      Each page contains one or more translations in one or more languages.
      Each page reports the local identifiers of the inscriptions to which is referred.
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="content" type="eagle:StringWithLanguageType"/>
      <xs:element name="url" type="xs:anyURI" minOccurs="0" maxOccurs="1"/>
      <xs:element name="notes" type="xs:string" minOccurs="0" maxOccurs="1"/>
      <xs:element name="author" type="xs:string" minOccurs="0" maxOccurs="1"/>
      <xs:element name="translationIpr" type="eagle:StringWithUriType" minOccurs="1"
        maxOccurs="1"/>
      <xs:element name="publicationTitle" type="xs:string" minOccurs="0" maxOccurs="1"/>
      <xs:element name="publicationYear" type="xs:string" minOccurs="0" maxOccurs="1"/>
      <xs:element name="publicationAuthor" type="xs:string" minOccurs="0" maxOccurs="1"/>
      <xs:element name="publicationPlace" type="xs:string" minOccurs="0" maxOccurs="1"/>
      <xs:element name="isTranslationOf" minOccurs="1" maxOccurs="unbounded"
        type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

<xs:element name="transcription">
  <xs:annotation>
    <xs:documentation>Transcription entity built from information contained inside a given epidoc
file</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="text">
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="xs:string">
              <xs:attribute name="type">
                <xs:documentation>Type of the transcription (sic|expanded|marked-
up)</xs:documentation>
              </xs:attribute>
            </xs:extension>
          </xs:simpleContent>
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="sic"/>
              <xs:enumeration value="expanded-integrated"/>
              <xs:enumeration value="marked-up"/>
            </xs:restriction>
          </xs:simpleType>
          <xs:attribute name="lang" type="xs:string"/>
        </xs:complexType>
      </xs:element>
      <xs:element name="criticalApparatus" minOccurs="0" maxOccurs="unbounded"
        type="xs:string"/>
      <xs:element name="bibliography" minOccurs="0" maxOccurs="unbounded"
        type="eagle:StringWithUriType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

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<xs:element name="commentary" minOccurs="0" maxOccurs="unbounded" type="xs:string"/>
<xs:element name="isTranscriptionOf" minOccurs="1" maxOccurs="unbounded"
  type="xs:string"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:complexType name="eagleEntity">
  <xs:sequence>
    <xs:element maxOccurs="1" minOccurs="1" name="dnetResourceIdentifier" type="xs:string">
      <xs:annotation>
        <xs:documentation>
          Unique resource identifier internal to D-Net infrastructure.
          This property is obtained by concatenating the content provider ID and the
          record ID local to the identifier. (CP_ID::OBJECT_ID)
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element ref="eagle:recordSourceInfo">
      <xs:annotation>
        <xs:documentation>
          Original identifier locally valid at the content provider.
          Additional information about record ownership are provided as attributes (provideURI,
          providerAcronym, providerName).
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="editingInfo" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>Information about metadata editor/curator and time of the last
        modification</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:all>
          <xs:element name="dateEdited" type="xs:date" minOccurs="0" maxOccurs="1"/>
          <xs:element name="metadataEditor" type="xs:string" minOccurs="0"
            maxOccurs="1"/>
        </xs:all>
      </xs:complexType>
    </xs:element>
    <xs:element name="metadataIpr" minOccurs="0" maxOccurs="1"
      type="eagle:StringWithUriType">
      <xs:annotation>
        <xs:documentation>Intellectual property right statement assigned to the content by each
        Content Provider.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="title" minOccurs="0" maxOccurs="unbounded"
      type="eagle:StringWithLanguageType"/>
    <xs:element name="description" minOccurs="0" maxOccurs="unbounded"
      type="eagle:StringWithLanguageType"/>
    <xs:element maxOccurs="1" minOccurs="1" name="entityType">
      <xs:annotation>
        <xs:documentation>Entity type describing the following xs:choice</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="trismegistos card"/>
          <xs:enumeration value="artefact"/>
          <xs:enumeration value="digital representation"/>
          <xs:enumeration value="documental manifestation"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>
```

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    </xs:restriction>
  </xs:simpleType>
</xs:element>
</xs:choice>
  <xs:element ref="eagle:trismegistosCard">
    <xs:annotation>
      <xs:documentation>Trismegistos card entity</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element ref="eagle:visualRepresentation"/>
  <xs:element ref="eagle:artifact"/>
  <xs:element ref="eagle:documentalManifestation" minOccurs="0" maxOccurs="1"/>
</xs:choice>
</xs:sequence>
</xs:complexType>
<xs:complexType name="DateType">
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute use="optional" name="notBefore-custom" type="eagle:CustomDateType">
        <xs:annotation>
          <xs:documentation>Defines lower-end for date ranges</xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attribute use="optional" name="notAfter-custom" type="eagle:CustomDateType">
        <xs:annotation>
          <xs:documentation>Defines upper-end for date ranges</xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attribute name="datingMethod" type="xs:anyURI">
        <xs:annotation>
          <xs:documentation>URI of dating method (e.g. to wikipedia)</xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attribute name="evidence" type="xs:string"/>
      <xs:attribute name="period" type="xs:string">
        <xs:annotation>
          <xs:documentation>URI to Eagle wiki dating period</xs:documentation>
        </xs:annotation>
      </xs:attribute>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

<xs:simpleType name="CustomDateType">
  <xs:restriction base="xs:string">
    <xs:pattern value="\d{4}-\d{2}-\d{2}$"/>
    <xs:pattern value="\d{4}$"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="TwoDimensionsType">
  <xs:annotation>
    <xs:documentation>Defines a type for two dimensional mesures (whenever depth is not taken into
account)</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="width" type="xs:decimal"/>
    <xs:element name="height" type="xs:decimal"/>
  </xs:sequence>
  <xs:attribute name="unit" type="xs:string"/>

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```
</xs:complexType>

<xs:complexType name="ThreeDimensionsType">
  <xs:annotation>
    <xs:documentation>Three dimensional measures: extends 2D dimensions type by adding the
depth measure</xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:extension base="eagle:TwoDimensionsType">
      <xs:sequence>
        <xs:element name="depth" type="xs:decimal"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

<xs:complexType name="StringWithUriType">
  <xs:annotation>
    <xs:documentation>
      Defines the type for an (untyped) string referencing an external URI (e.g. a vocabulary term in
Tematres)
    </xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="uri" type="xs:anyURI"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

<xs:complexType name="StringWithLanguageType">
  <xs:annotation>
    <xs:documentation>Defines the type for any textual element characterized by a language
attribute</xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="lang" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

<xs:complexType name="TypedStringType">
  <xs:annotation>
    <xs:documentation>Defines the type for any textual element characterized by a language
attribute</xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:attribute name="type" type="xs:string"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>

</xs:schema>
```