

## LIDO mandatory elements

When you start your mapping using the Linked Heritage ingestion server (<http://mint-projects.image.ntua.gr/linkedheritage/>), you will see that the sets containing mandatory fields are bordered in **RED**, while the mandatory fields are written in **RED**.

The screenshot displays the LIDO mapping interface. On the left, under the 'Mappings' tab, several elements are listed. The 'lido:titleWrap:' element is expanded to show 'lido:titleSet:' (structural) and its sub-elements: 'lido:appellationValue:' (unmapped) and 'lido:sourceAppellation:' (unmapped). The 'lido:appellationValue:' and 'lido:sourceAppellation:' elements are highlighted in red, indicating they are mandatory. A red arrow points to the 'lido:appellationValue:' element. On the right, under the 'Target Schema' tab, a list of schema options is shown. The 'Object Identification' option is highlighted in blue, and a red arrow points to it. Other options include 'Template', 'Object Classification', 'Object Relation', 'Event', 'Rights Work', 'Record', and 'Resource'.

**NB:** mandatory metadata elements are supplied to Europeana **WITH CC0**. The thumbnail as digital object is not supplied with CC0, it keeps the rights assigned in the lido:rightsResource (=europeana:rights) field. However, the URL to the thumbnail (being a text string) is supplied with CC0.

In general: structural elements cannot hold proper data values, it's always a sub-element which then holds the proper data. With the "@" icon you can open the attributes attached to an element. Note that the attributes always have a qualifying or specifying character, they do not hold proper data for their element. For some elements they are preallocated in the tool for Linked Heritage purposes.

Elements with Linked Heritage specific preallocated attributes or with a Linked Heritage specific fixed value list for their proper (sub-)element data have in brackets "(europeana)"

## DESCRIPTIVE METADATA

### Object Identification

#### **lido:titleSet**

You have to put the proper data value into the sub-element `appellationValue` (results in `dc:title`)

The screenshot shows the 'Mappings' panel on the left and the 'Target Schema' panel on the right. In the 'Mappings' panel, the `lido:titleSet` element is expanded, showing sub-elements `lido:appellationValue` and `lido:sourceAppellation`, both marked as 'unmapped'. A red arrow points to `lido:appellationValue`. In the 'Target Schema' panel, the 'Object Identification' button is highlighted in blue, with a red arrow pointing to it.

### Object Classification

#### **lido:objectWorkType**

You have to supply either the sub-element `conceptID` to a controlled vocabulary or the sub-element `term` (results in `dc:type`)

**lido:classification (europeana)** (attribute `lido:type="europeana:type"` is preallocated) with fixed value list for the sub-element `lido:term` TEXT or IMAGE or SOUND or VIDEO (results in `europeana:type`)

The screenshot shows the 'Mappings' panel on the left and the 'Target Schema' panel on the right. In the 'Mappings' panel, the `lido:objectWorkTypeWrap` and `lido:classificationWrap` elements are expanded. Under `lido:objectWorkType`, the sub-elements `lido:conceptID` and `lido:term` are shown as 'unmapped'. A red arrow points to `lido:conceptID`. Under `lido:classification (europeana)`, the sub-element `lido:term` is shown as 'unmapped (enumerated)'. A red arrow points to `lido:term`. In the 'Target Schema' panel, the 'Object Classification' button is highlighted in blue, with a red arrow pointing to it.

## ADMINISTRATIVE METADATA

### Record

**lido:recordID** and **lido:recordType**: they are indeed mandatory in the LIDO schema, but not in the ESE schema, so they are needed for LH, but not necessarily delivered to Europeana.

#### **lido:recordID**

This is the identifier for the described object. Currently we include it as part of the mandatory set of metadata elements to be supplied to Europeana in order to allow for tracing back to the object also from subsequent use of the data.

#### **lido:recordType**

You have to supply either the sub-element conceptID to a controlled vocabulary or the sub-element term. Example values (taken from the LIDO spec) for the term are: item, collection, series, group, volume, fonds.

**lido:recordSource (europeana)** (attribute **lido:type="europeana:dataProvider"** is preallocated)

You have to supply either the sub-element legalBodyID or the sub-element legalBodyName with appellationValue (results in europeana:dataProvider)

The screenshot displays a metadata mapping tool interface. On the left, a table lists various LIDO elements and their mappings. On the right, a 'Target Schema' panel shows a hierarchy of metadata categories. Red arrows highlight specific elements and the 'Record' category.

Mappings		Toggle namespaces	
<i>lido:recordID:</i>	unmapped	+	🌐
<i>lido:recordType:</i>			🌐
<i>lido:conceptID:</i>	unmapped	+	🌐
<i>lido:term:</i>	unmapped	+	🌐
<i>lido:recordSource (europeana):</i>	structural	+	🌐
<i>lido:legalBodyID:</i>	unmapped	+	🌐
<i>lido:legalBodyName:</i>	structural	+	🌐
<i>lido:appellationValue:</i>	unmapped	+	🌐
<i>lido:sourceAppellation:</i>	unmapped	+	🌐
<i>lido:legalBodyWeblink:</i>	unmapped	+	🌐
<i>lido:recordSource:</i>	structural	+	🌐
<i>lido:recordRights (europeana):</i>	structural	+	🌐
<i>lido:recordRights:</i>	structural	+	🌐
<i>lido:recordInfoSet:</i>	structural	+	🌐

**Target Schema**

- Template
- Descriptive Metadata**
  - Object Identification
  - Object Classification
  - Object Relation
  - Event
- Administrative Metadata**
  - Rights Work
  - Record**
  - Resource

Whenever possible supply **lido:recordInfoSet/lido:recordInfoLink** (results in europeana:isShownAt).

The screenshot shows two panels: 'Mappings' and 'Target Schema'. The 'Mappings' panel lists various LIDO elements and their mappings. A red arrow points to the 'lido:recordInfoLink' entry, which is currently unmapped. The 'Target Schema' panel shows a hierarchy of metadata types. A red arrow points to the 'Record' button under the 'Administrative Metadata' section.

Element	Mapping
<i>lido:recordID:</i>	unmapped
<i>lido:recordType:</i>	
<i>lido:recordSource (europeana):</i>	structural
<i>lido:legalBodyID:</i>	unmapped
<i>lido:legalBodyName:</i>	structural
<i>lido:appellationValue:</i>	unmapped
<i>lido:sourceAppellation:</i>	unmapped
<i>lido:legalBodyWeblink:</i>	unmapped
<i>lido:recordSource:</i>	structural
<i>lido:recordRights (europeana):</i>	structural
<i>lido:recordRights:</i>	structural
<i>lido:recordInfoSet:</i>	structural
<i>lido:recordInfoID:</i>	unmapped
<i>lido:recordInfoLink:</i>	unmapped
<i>lido:recordMetadataDate:</i>	unmapped

Target Schema:

- Template
- Descriptive Metadata
  - Object Identification
  - Object Classification
  - Object Relation
  - Event
- Administrative Metadata
  - Rights Work
  - Record
  - Resource

## Resource

You must provide the following elements:

**lido:resourceRepresentation (thumb)** (attribute **lido:type="image\_thumb"** is preallocated) (results in europeana:object)

The **lido:resourceRepresentation** element should be removed if no URL is provided.

The screenshot shows two panels: 'Mappings' and 'Target Schema'. The 'Mappings' panel lists various LIDO elements. A red arrow points to the 'lido:resourceRepresentation (thumb)' entry, which is currently unmapped. The 'Target Schema' panel shows a hierarchy of metadata types. A red arrow points to the 'Resource' button under the 'Administrative Metadata' section.

Element	Mapping
<i>lido:resourceSet (europeana):</i>	structural
<i>lido:resourceID:</i>	unmapped
<i>lido:resourceRepresentation (master):</i>	structural
<i>lido:linkResource (master):</i>	unmapped
<i>lido:resourceMeasurementsSet:</i>	structural
<i>lido:resourceRepresentation (thumb):</i>	structural
<i>lido:linkResource (thumb):</i>	unmapped
<i>lido:resourceMeasurementsSet:</i>	structural
<i>lido:resourceRepresentation:</i>	structural
<i>lido:resourceType:</i>	
<i>lido:resourceRelType:</i>	structural
<i>lido:resourcePerspective:</i>	structural
<i>lido:resourceDescription:</i>	unmapped
<i>lido:resourceDateTaken:</i>	
<i>lido:resourceSource:</i>	structural
<i>lido:rightsResource (europeana):</i>	structural

Target Schema:

- Template
- Descriptive Metadata
  - Object Identification
  - Object Classification
  - Object Relation
  - Event
- Administrative Metadata
  - Rights Work
  - Record
  - Resource

## **lido:rightsResource**

The Europeana-specific sub-element `lido:rightsType/lido:term` holds the rights information for the digital surrogate of your object. This is an enumeration of fixed values (results in `europaena:rights`)

The screenshot shows the 'Mappings' table on the left and the 'Target Schema' on the right. A red arrow points to the `lido:rightsResource (europaena):` row in the Mappings table, which is expanded to show its sub-elements: `lido:rightsType (europaena):` (structural), `lido:conceptID:` (unmapped), `lido:term (europaena):` (unmapped (enumerated)), `lido:rightsDate:` (structural), `lido:rightsHolder:` (structural), and `lido:creditLine:` (unmapped). In the Target Schema, the 'Resource' button under 'Administrative Metadata' is highlighted in blue, with a red arrow pointing to it.

Mappings		Toggle namespaces
<code>lido:resourceRepresentation (thumb):</code>	structural	+ @
<code>lido:resourceRepresentation:</code>	structural	+ @
<code>lido:resourceType:</code>		+ @
<code>lido:resourceRelType:</code>	structural	+ @
<code>lido:resourcePerspective:</code>	structural	+ @
<code>lido:resourceDescription:</code>	unmapped	+ @
<code>lido:resourceDateTaken:</code>		+ @
<code>lido:resourceSource:</code>	structural	+ @
<code>lido:rightsResource (europaena):</code>	structural	+ @
<code>lido:rightsType (europaena):</code>	structural	+ @
<code>lido:conceptID:</code>	unmapped	+ @
<code>lido:term (europaena):</code>	unmapped (enumerated)	+ @
<code>lido:rightsDate:</code>		+ @
<code>lido:rightsHolder:</code>	structural	+ @
<code>lido:creditLine:</code>	unmapped	+ @
<code>lido:resourceSet:</code>	structural	+ @

Target Schema

Template

Descriptive Metadata

Object Identification

Object Classification

Object Relation

Event

Administrative Metadata

Rights Work

Record

Resource

Moreover you must provide with the "mandatory-only" option **at least one** of the following elements:

EITHER

**lido:recordInfoSet** (results in `europaena:isShownAt`)

The screenshot shows the 'Mappings' table on the left and the 'Target Schema' on the right. A red arrow points to the `lido:recordInfoSet:` row in the Mappings table, which is expanded to show its sub-elements: `lido:recordInfoID:` (unmapped), `lido:recordInfoLink:` (unmapped), and `lido:recordMetadataDate:` (unmapped). In the Target Schema, the 'Record' button under 'Administrative Metadata' is highlighted in blue, with a red arrow pointing to it.

Mappings		Toggle namespaces
<code>lido:recordID:</code>	unmapped	+ @
<code>lido:recordType:</code>		+ @
<code>lido:recordSource (europaena):</code>	structural	+ @
<code>lido:recordSource:</code>	structural	+ @
<code>lido:recordRights (europaena):</code>	structural	+ @
<code>lido:recordRights:</code>	structural	+ @
<code>lido:recordInfoSet:</code>	structural	+ @
<code>lido:recordInfoID:</code>	unmapped	+ @
<code>lido:recordInfoLink:</code>	unmapped	+ @
<code>lido:recordMetadataDate:</code>	unmapped	+ @

Target Schema

Template

Descriptive Metadata

Object Identification

Object Classification

Object Relation

Event

Administrative Metadata

Rights Work

Record

Resource

OR

**lido:resourceRepresentation (master)** (attribute `lido:type="image_master"` is preallocated) (results in `europa:isShownBy`)

The `lido:resourceRepresentation` element should be removed if no URL is provided.

The screenshot displays a software interface with two main panels: 'Mappings' and 'Target Schema'.

**Mappings Panel:** This panel lists various elements and their types. A red arrow points to the entry for `lido:resourceRepresentation (master)`, which is listed as 'structural' and 'unmapped'. Below it, the `lido:linkResource (master)` entry is also listed as 'unmapped'. Other entries include `lido:resourceSet (europa:)`, `lido:resourceMeasurementsSet`, `lido:resourceRepresentation (thumb)`, `lido:resourceRepresentation`, `lido:resourceType`, `lido:resourceRelType`, `lido:resourcePerspective`, `lido:resourceDescription`, `lido:resourceDateTaken`, `lido:resourceSource`, `lido:rightsResource (europa:)`, and `lido:resourceSet`.

**Target Schema Panel:** This panel shows a hierarchy of metadata categories. A red arrow points to the 'Resource' button, which is highlighted in blue. The categories are: 'Template', 'Descriptive Metadata' (containing 'Object Identification', 'Object Classification', 'Object Relation', and 'Event'), and 'Administrative Metadata' (containing 'Rights Work', 'Record', and 'Resource').