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MIMO

Specifications of the Common Data Model for the Description of Musical Instruments

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¹ OJ L 79, 24.3.2005, p. 1.

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1 Foreword

This document is the synthesis of MIMO's WP2 first 4 months of work. It is providing the specification of the data model that will be used to describe Musical Instruments on MIMO's aggregator.

We used the following method to identify and agree on a data model:

- 1- Analysis of common data models and standards used in various Museums database software, such as MUSEUM DAT, CDWA Lite, Spectrum, CIDOC CRM led us to LIDO, a new model currently designed by *eContentplus* project ATHENA (see: <http://www.athenaeurope.org>).
- 2- Workshops were organized with all MIMO content providers in order to test the use of LIDO specifically in the field of Musical Instruments.
- 3- Outcomes of these workshops helped us to delimit a framework for the use of LIDO in MIMO's platform. This framework defines
 - Applicable fields
 - Specific lists of terms (ie: list of Event Types)
 - Missing fields.

We still have small issues to solve, such as specifying the terms of the controlled lists.

All MIMO's specificities and issues to solve appear in blue in this document.

This delivery provides the version 1.2 of MIMO's data model. There could be small evolutions in the next months of the project.

2 Presentation of the document

This document specifies the data model which describes the musical instruments present in the collections of the institutions participating to MIMO project.

The MIMO data model is based on **LIDO** (Lightweight Information Describing Objects) **version 0.9 draft**, the XML schema for contributing content to cultural heritage repositories. In this version of the document, all specified elements are extracted from the LIDO data model.

Some elements will have to be specially defined in order to cope with MIMO project specific needs.

Each element is described as follows:

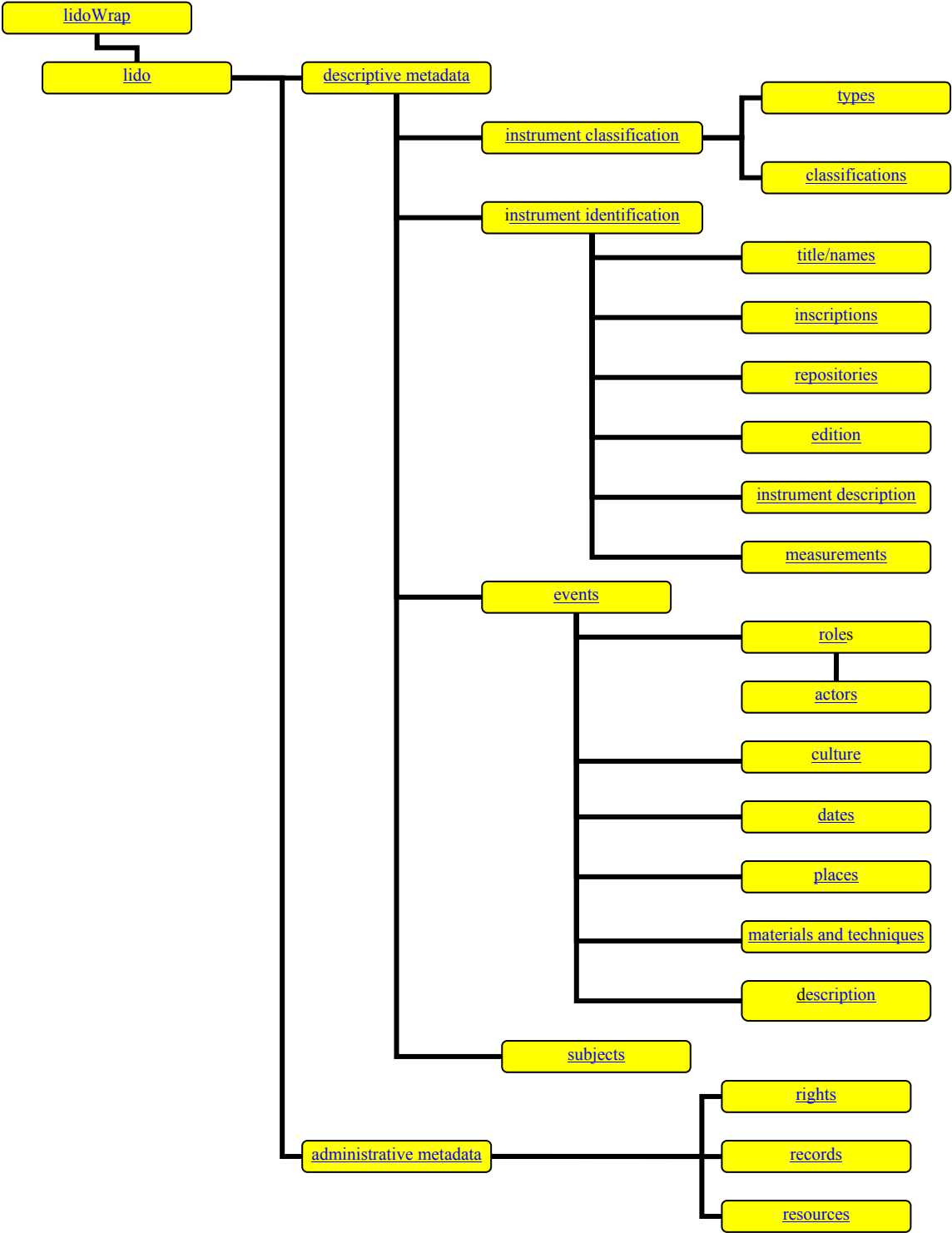
Name	<i>the name of the element</i>		
Name space	<i>lido or mimo depending on whether the element belongs to LIDO model or has been specially designed for MIMO needs.</i>		
Definition	<i>the definition of the element (based on the lido definition for those directly taken from this model).</i>		
Attributes	Name	Obligation	Value
	<i>attribute 1 name</i> ... <i>attribute n name</i>	optional / mandatory ... optional / mandatory	<i>value(s) for attribute 1</i> ... <i>value(s) for attribute n</i>
Sub-elements	Name	Obligation	Occurrence
	<i>element 1 name</i> ... <i>element n name</i>	optional / mandatory ... optional / mandatory	repeatable / not repeatable ... repeatable / not repeatable
Value	<i>specification of a format, list (controlled or not) of values, examples...</i>		

Lines "Attributes", "Sub-elements", "Value" appear only if the described element owns attributes, sub-elements and/or values.

NB: in the description of an element, we have chosen to list only the attributes and sub-elements belonging to this element, which are necessary for MIMO data model and not all the attributes and sub-elements as they are specified in LIDO model.

When possible, element description is illustrated with an example.

3 MIMO data model organization



Ctrl+click on text inside box to go to the corresponding chapter

4 Main element : lidoWrap

This element is the main one. It contains all the metadata related to a set of musical instruments, each instrument is described within a lido element.

NB: in this document, when we speak about "instrument", it may refer to a complete musical instrument or to a part of a musical instrument (see [objectWorkType](#)).

Name	lidoWrap		
Name space	lido		
Definition	Holds one or multiple instrument metadata records.		
Attributes	Name	Obligation	Value
	xsi:schemaLocation xmlns:lido xmlns:xsi	mandatory mandatory mandatory	see example below
Sub-elements	Name	Obligation	Occurrence
	lido:lido	mandatory	repeatable

Example:

<lido:lidoWrap>

```
xsi:schemaLocation="http://www.lido-schema.org lido-draft-v0.9.xsd"  
xmlns:lido="http://www.lido-schema.org"  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

... description of all instrument records ...

```
<lido:lido>
```

... instrument X record ...

```
</lido:lido>
```

...

```
<lido:lido>
```

... instrument Y record ...

```
</lido:lido>
```

...

</lido:lidoWrap>

The values given to the three attributes `xsi:schemaLocation`, `xmlns:lido`, `xmlns:lido` are those allowing the link the XML specifications of LIDO model.

5 Instrument metadata container : lido element

This element is the one including all the metadata related to one instrument.

Each instrument is characterized by:

- its identifier (lidoRecID element)
- its descriptive metadata (descriptiveMetadata element)
- its administrative metadata (administrativeMetadata element)

5.1 lido element

Name	lido		
Name space	lido		
Definition	Holds metadata record related to one specific instrument.		
Sub-elements	Name	Obligation	Occurrence
	lido:lidoRecID	mandatory	repeatable
	lido:descriptiveMetadata	mandatory	repeatable
	lido:administrativeMetadata	mandatory	repeatable

Example:

```
<lido:lido>
  <lido:lidoRecID lido:type="local">
    CM:0162260
  </lido:lidoRecID>

  <lido:descriptiveMetadata xml:lang="fr">
    ... record CM:0162260 descriptive metadata (using French language) ...
  </lido:descriptiveMetadata>

  <lido:administrativeMetadata xml:lang="fr">
    ... record CM:0162260 administrative metadata (using French language) ...
  </lido:administrativeMetadata>
</lido:lido>
```

5.2 lidoRecID element

Name	lidoRecID
Name space	lido
Definition	Unique record identification.

Attributes	Name	Obligation	Value
	lido:type	mandatory	"local"
Value	The identifier given to the record.		

This identifier should be built using the following pattern:

<contributor identifier>":"<record identifier>

where <record identifier> is the unique identifier of the record in the contributor's local system and <contributor identifier> a prefix that identify the institution from which the record originates.

Each institution participating to the MIMO project has to determine its own contributor identifier. We suggest using the participant short names:

University of Edinburgh	UEDIN
Germanisches Nationalmuseum, Nürnberg	GNM
University of Leipzig, Museum für Musikinstrumente	ULEI
Africamuseum, Tervuren	RMCA
Associazione "Amici del Museo degli Strumenti Musicali", Firenze	AF
Università degli Studi di Firenze , Florence	UF
Cité de la Musique, Paris	CM
Musical Instrument Museum, Brussels	MIM-BE
Horniman Museum, London	HML
Stiftung Preußischer Kulturbesitz, Ethnologisches Museum	SPK
The Stockholm Music Museum	SMS-MM

Example:

```
<lido:lidoRecID lido:type="local">
  CM:0162260
</lido:lidoRecID>
```

In this example, the identifier is composed of two elements, the prefix CM which stands for "Cité de la Musique", and a numeric string, "0162260", which is the identifier of the notice from which information is taken to build the record.

The string giving the identifier of the record in the contributor's local system may be alphanumeric but should not contain the ":" character.

6 Descriptive metadata

6.1 *descriptiveMetadata* element

This element is the one used to specify the descriptive metadata of an instrument.

Descriptive metadata are divided in:

- types and classifications metadata (objectClassificationWrap element)
- identification metadata (objectIdentificationWrap element)
- events metadata (eventWrap element)

- subjects metadata (objectRelationWrap element)

Name	descriptiveMetadata		
Name space	lido		
Definition	Holds the descriptive metadata of an instrument record. The attribute xml:lang is mandatory and specifies the main language of the descriptive metadata.		
Attributes	Name	Obligation	Value
	xml:lang	mandatory	"de", "en", "fr", "it", "nl", "sv"
Sub-elements	Name	Obligation	Occurrence
	lido:objectClassificationWrap	mandatory	not repeatable
	lido:objectIdentificationWrap	mandatory	not repeatable
	lido:eventWrap	optional	not repeatable
	lido:objectRelationWrap	optional	not repeatable

Management of translations in multiple languages:

when data fields (eg. title) are provided in more than one language, the respective text elements may be repeated specifying the xml:lang attribute on the text level.

The list of language codes will be completed as other institutions using different languages join the project.

Example:

specification of descriptive metadata mainly in French

<lido:descriptiveMetadata xml:lang="fr">

...

<displayObjectMeasurements>

Longueur totale : 2250 mm - Largeur du clavier : 815 mm

</displayObjectMeasurements>

translation in English

<displayObjectMeasurements xml:lang="en">

Total length: 2250 mm - Keyboard width: 815 mm

</displayObjectMeasurements>

...

</lido:descriptiveMetadata>

7 Administrative metadata

7.1 administrativeMetadata element

This element is the one used to specify the administrative metadata of an instrument.

Administrative metadata are divided in:

- rights metadata (rightsWorkWrap element)
- cataloguing information metadata (recordWrap element)

- resources metadata (resourceWrap element)

Name	DescriptiveMetadata		
Name space	lido		
Definition	Holds the administrative metadata of an object record. The attribute xml:lang is mandatory and specifies the language of the administrative metadata.		
Attributes	Name	Obligation	Value
	xml:lang	mandatory	"de", "en", "fr", "it", "nl", "sv"
Sub-elements	Name	Obligation	Occurrence
	lido:rightsWorkWrap	optional	not repeatable
	lido:recordWrap	mandatory	not repeatable
	lido:resourceWrap	optional	not repeatable

Management of translations of administrative metadata follows the same rule as for the descriptive metadata.

The list of language codes will be completed as other institutions using different languages join the project.

Example:

```
<lido:administrativeMetadata xml:lang="nl">
  ... specification of administrative metadata in Dutch ...
</lido:administrativeMetadata>
```

8 Instrument types and classifications

All information related to the types and classes an instrument belongs to is described within an objectClassificationWrap element.

This information is divided in:

- types related information (objectWorkTypeWrap and objectWorkType elements)
- classifications related information (classificationWrap and classification elements)

8.1 objectClassificationWrap

Name	objectClassificationWrap
Name space	lido
Definition	Wrapper for data classifying the instrument.

Sub-elements	Name	Obligation	Occurrence
	lido:objectWorkTypeWrap lido:classificationWrap	mandatory mandatory (MIMO specificity)	not repeatable not repeatable

Example:

</lido:objectClassificationWrap>

```

<lido:objectWorkTypeWrap>
  <lido:objectWorkType>
    <lido:term>
      musical instruments
    </lido:term>
  </lido:objectWorkType>
</lido:objectWorkTypeWrap>

```

```

<lido:classificationWrap>
  <lido:classification>
    <lido:term>
      Arghul
    </lido:term>
  </lido:classification>
</lido:classificationWrap>

```

</lido:objectClassificationWrap>

8.2 objectWorkTypeWrap

Name	objectWorkTypeWrap		
Name space	lido		
Definition	Wrapper for instrument types.		
Sub-elements	Name	Obligation	Occurrence
	lido:objectWorkType	mandatory	not repeatable (MIMO specificity)

8.3 objectWorkType

Name	objectWorkType
Name space	lido
Definition	Identifies the specific kind of objects being described. In MIMO context, there are only two types: <i>musical instruments</i> or <i>parts of musical instruments</i> .

Sub-elements	Name	Obligation	Occurrence
	lido:term	mandatory	not repeatable (MIMO specificity)

The value of the objectWorkType element has to be specified in the lido:term element.

Name	term
Name space	lido
Value	"musical instruments" or "parts of musical instruments"

[\(see Concept for complete description\)](#)

Example 1:

```
<lido:objectWorkTypeWrap>
  <lido:objectWorkType>
    <lido:term>
      musical instruments
    </lido:term>
  </lido:objectWorkType>
</lido:objectWorkTypeWrap>
```

Example 2:

```
<lido:objectWorkTypeWrap>
  <lido:objectWorkType>
    <lido:term>
      parts of musical instruments
    </lido:term>
  </lido:objectWorkType>
</lido:objectWorkTypeWrap>
```

8.4 classificationWrap element

Name	classification		
Name space	lido		
Definition	Wrapper for classification information. Contains all the classifications an instrument belongs to.		
Sub-elements	Name	Obligation	Occurrence
	lido:classification	mandatory	repeatable

8.5 classification element

Name	classification		
Name space	lido		
Definition	Term used to categorize an instrument by grouping it together with other instruments on the basis of similar characteristics. The category belongs to a systematic scheme (classification). If the instrument is assigned to multiple classifications, repeat this element.		
Attributes	Name	Obligation	Value
	lido:type	optional	
Sub-elements	Name	Obligation	Occurrence
	lido:conceptID lido:term	optional mandatory (MIMO specificity)	not repeatable not repeatable (MIMO specificity)

The values describing the classification of an instrument have to be specified in lido:conceptID and lido:term elements:

- the category identifier in the lido:conceptID element

Name	conceptID		
Name space	lido		
Attributes	Name	Obligation	Value
	lido:type	mandatory	"SH_Class"
Value	The classification category identifier.		

[\(see Concept for complete description\)](#)

- the category name in the lido:term element

Name	term		
Name space	lido		
Attributes	Name	Obligation	Value
	lido:pref xml:lang	optional optional	"preferred" or "alternate" "de", "en", "fr", "it", "nl", "sv"
Value	The classification category name.		

[\(see Concept for complete description\)](#)

At least one category name has to be associated with an instrument. This name must be the keyword that designates in a unique way the instrument in the MIMO's instruments list.

Other category names can be used at the same time (classification element can be repeated). If so, the lido:pref attribute of the lido:term element containing the keyword must be set to "preferred" and the lido:pref attribute of the lido:term elements storing the other category names must be set to "alternate".

If the Sachs-Hornbostel classification is used, the number of the category can be stored in the lido:conceptID element and the category name in the lido:term element. The lido:type attribute of the lido:conceptID element must be set to "SH_Class".

Examples:

A first example giving the minimal classification information about an instrument

```
<lido:classification>
  <lido:term>
    Arghul
  </lido:term>
</lido:classification>
```

A second example giving several classifications of the same instrument

```
<lido:classification>
  <lido:term lido:pref="preferred">
    Accordion
  </lido:term>
</lido:classification>
<lido:classification>
  <lido:conceptID lido:type="SH_Class">
    412.13
  </lido:conceptID>
  <lido:term lido:pref="alternate">
    Free reeds aerophones
  </lido:term>
</lido:classification>
<lido:classification>
  <lido:term lido:pref="alternate">
    Wind
  </lido:term>
</lido:classification>
```

9 Instrument identification

The identification of an instrument is given by:

- its name(s)
- the inscriptions found on the instrument
- the repository the instrument belongs to
- its description notes
- its measurements

9.1 *objetIdentificationWrap*

Name	objetIdentificationWrap		
Name space	lido		
Definition	Wrapper for instrument identification information.		
Sub-elements	Name	Obligation	Occurrence
	lido:titleWrap lido:inscriptionsWrap lido:repositoryWrap lido:objectDescriptionWrap lido:objectDisplayStateEditionWrap lido:objectMeasurementsWrap	mandatory optional mandatory optional optional optional	not repeatable not repeatable not repeatable not repeatable not repeatable not repeatable

Example:

```

<lido:objetIdentificationWrap>
  <lido:titleWrap>
    <lido:titleSet>
      <lido:appellationValue>
        Harpe arquée "kundi"
      </lido:appellationValue>
    </lido:titleSet>
  </lido:titleWrap>

  <lido:repositoryWrap>
    <lido:repositorySet lido:repositoryType="current">
      <lido:workID lido:type="Inventory Number">
        E.999.10.1
      </lido:workID>
      <lido:repositoryName>
        <lido:legalBodyName>
          <lido:appellationValue>
            Musée de la musique
          </lido:appellationValue>
        </lido:legalBodyName>
      </lido:repositoryName>
    </lido:repositorySet>
  </lido:repositoryWrap>

```

```

        </lido:repositoryName>
    </lido:repositoySet>
</lido:repositoryWrap>
</lido:objetIdentificationWrap>

```

9.2 titleWrap

Name	titleWrap		
Name space	lido		
Definition	Wrapper for instrument name(s) information.		
Sub-elements	Name	Obligation	Occurrence
	lido:titleSet	mandatory	repeatable

9.3 titleSet

Name	titleSet		
Name space	lido		
Definition	Wrapper for the instrument name and its related information. If there is more than one name, repeat this element.		
Attributes	Name	Obligation	Value
	lido:type	optional	
Sub-elements	Name	Obligation	Occurrence
	lido:appellationValue lido:sourceAppellation	mandatory optional	not repeatable repeatable

The instrument name is stored inside the lido:appellationValue element.

If several names are specified, the lido:pref attribute of lido:appellationValue element has to be set to "preferred" for the main name and to "alternate" for the other names.

The source from where the appellation is taken can be specified in the lido:sourceAppellation element.

The translation of the instrument name can be specified repeating lido:appellation element with the language specification set into the xml:lang attribute.

Name	appellationValue
Name space	lido

Attributes	Name	Obligation	Value
	lido:pref xml:lang	optional optional	"preferred" or "alternate" "de", "en", "fr", "it", "nl", "sv"
Value	The name of the instrument.		

[\(see Appellation for complete description\)](#)

Example:

```
<lido:titleSet>
  <lido:appellationValue>
    Harpe arquée "kundi"
  </lido:appellationValue>
</lido:titleSet>
```

9.4 *inscriptionsWrap*

Name	inscriptionsWrap		
Name space	lido		
Definition	Wrapper for information about inscriptions and other marks.		
Sub-elements	Name	Obligation	Occurrence
	lido:inscriptions	optional	repeatable

9.5 *inscriptions*

Name	inscriptions		
Name space	lido		
Definition	A description or transcription of any distinguishing or identifying physical lettering, annotations, texts, markings, or labels that are affixed, applied, stamped, written, inscribed, or attached to the instrument, excluding any mark or text inherent in the materials of which the instrument is made. The location of the inscription on the instrument may appear in this description (MIMO specificity)		
Attributes	Name	Obligation	Value
	lido:type xml:lang	optional optional	"de", "en", "fr", "it", "nl" or "sv"
Value	The text of the inscription.		

Example:

```
<lido:inscriptionsWrap>
  <lido:inscriptions>
    Antonio Stradivarius Cremonensis / Faciebat Anno 1708
  </lido:inscriptions>
</lido:inscriptionsWrap>
```

10 Legal body

A legal body is defined by:

- its identifier
- its name
- the address of its web site when it exists

In LIDO model, a legal body is described with a sequence of three elements (legalBodyID, legalBodyName and legalBodyWeblink).

This sequence may be part of the following elements:

- [repositoryName](#)
- [rightsHolder](#)
- [recordSource](#)

10.1 legalBodyID element

Name	legalBodyID		
Name space	lido		
Definition	Unambiguous identification of an institution or person.		
Attributes	Name	Obligation	Value
	lido:pref lido:type lido:source	optional mandatory optional	"local"
Value	The identifier given to the legal body.		

10.2 legalBodyName element

Name	legalBodyName
Name space	lido
Definition	Appellation of an institution or person.

Sub-elements	Name	Obligation	Occurrence
	lido:appellationValue lido:sourceAppellation	mandatory optional	not repeatable repeatable

The name of the legal body is stored in the lido:appellationValue element. If several names are specified, the lido:pref attribute of lido:appellationValue element has to be set to "preferred" for the main name and to "alternate" for the other names.

Name	appellationValue		
Name space	lido		
Attributes	Name	Obligation	Value
	lido:type	optional	"preferred" or "alternate"
Value	The name of the legal body.		

[\(see Appellation for complete description\)](#)

Example:

```
<lido:legalBodyName>
  <lido:appellationValue>
    Collection Geneviève Thibaud de Chambure
  </lido:appellationValue>
</lido:legalBodyName>
```

10.3 legalBodyWeblink element

Name	legalBodyWeblink		
Name space	lido		
Definition	Weblink of an institution or person.		
Attributes	Name	Obligation	Value
	lido:pref	optional	"preferred" or "alternate"
Value	An URL reference to the web site of the institution or person.		

Several links may be specified. If so, the lido:pref attribute of lido:legalBodyWeblink element has to be set to "preferred" for the main link and to "alternate" for the others.

Example:

```
<lido:legalBodyWeblink>
  http://www.cite-musique.fr
```

</lido:legalBodyWeblink>

11 Repository

A repository is characterized by:

- its type (current or former)
- its name which always refers to a legal body (institution of custody)

11.1 repositoryWrap

Name	repositoryWrap		
Name space	lido		
Definition	Wrapper for repository information.		
Sub-elements	Name	Obligation	Occurrence
	lido:repositorySet	optional	repeatable

Example:

```
<lido:repositoryWrap>
  <lido:repositorySet lido:repositoryType="current">
    <lido:workID lido:type="inventory number">
      E.979.2.1
    </lido:workID>
    <lido:repositoryName>
      <lido:legalBodyName>
        <lido:appellationValue>
          Musée de la musique
        </lido:appellationValue>
      </lido:legalBodyName>
    </lido:repositoryName>
  </lido:repositorySet>

  <lido:repositorySet lido:repositoryType="former">
    <lido:repositoryName>
      <lido:legalBodyName>
        <lido:appellationValue>
          Collection Geneviève Thibaud de Chambure
        </lido:appellationValue>
      </lido:legalBodyName>
    </lido:repositoryName>
  </lido:repositorySet>
</lido:repositoryWrap>
```


11.2 repositorySet

Name	repositorySet		
Name space	lido		
Definition	Wrapper for designation and identification of the institution of custody. If there are several designations known, for instance, a current one and former ones (see repositoryType attribute), repeat the element.		
Attributes	Name	Obligation	Value
	lido:repositoryType	optional	"current" or "former"
Sub-elements	Name	Obligation	Occurrence
	lido:repositoryName lido:workID	optional optional	not repeatable repeatable

The lido:repositoryType attribute allows to distinguish several designations known of a repositorySet: the current repository name and former ones.

Example:

```

<lido:repositorySet lido:repositoryType="current">
  <lido:workID lido:type="inventory number">
    E.979.2.1
  </lido:workID>
  <lido:repositoryName>
    <lido:legalBodyName>
      <lido:appellationValue>
        Musée de la musique
      </lido:appellationValue>
    </lido:legalBodyName>
  </lido:repositoryName>
</lido:repositorySet>
<lido:repositorySet lido:repositoryType="former">
  <lido:repositoryName>
    <lido:legalBodyName>
      <lido:appellationValue>
        Collection Geneviève Thibaud de Chambure
      </lido:appellationValue>
    </lido:legalBodyName>
  </lido:repositoryName>
</lido:repositorySet>

```

11.3 repositoryName

Name	repositoryName		
Name space	lido		
Definition	Unambiguous identification, designation and weblink of the institution of custody. The institution is described as a legal body.		
Sub-elements	Name	Obligation	Occurrence
	lido:legalBodyID lido:legalBodyName lido:legalBodyWeblink	optional optional optional	repeatable repeatable repeatable

[\(see Legal body description paragraph\)](#)

Example:

```
<lido:repositoryName>
  <lido:legalBodyName>
    <lido:appellationValue>
      Musée de la musique
    </lido:appellationValue>
  </lido:legalBodyName>
  <lido:legalBodyWeblink>
    http://www.cite-musique.fr
  </lido:legalBodyWeblink>
</lido:repositoryName>
```

11.4 workID

Name	workID		
Name space	lido		
Definition	An unambiguous numeric or alphanumeric identification number, assigned to the instrument by the institution of custody.		
Attributes	Name	Obligation	Value
	lido:type	optional	"inventory number"
Value	The identifier given to the instrument by the contributor.		

Example:

```
<lido:workID lido:type="inventory number">
  E.979.2.1
</lido:workID>
```

12 Instrument edition information

This set of elements may be used to index information related to one specific copy of an instrument like serial number, etc...

12.1 *displayStateEditionWrap*

Name	displayStateEditionWrap		
Name space	lido		
Definition	Wrapper for Display State Editions.		
Sub-elements	Name	Obligation	Occurrence
	lido:displayEdition	optional	repeatable

12.2 *displayEdition*

Name	displayEdition		
Name space	lido		
Definition	Description of the edition of the instrument. Repeat this element for language variants.		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	The text of the edition description.		

Example:

```
<lido:titleWrap>
  <lido:titleSet>
    <lido:appellationValue>
      Piano droit à pédalier
    </lido:appellationValue>
  </lido:titleSet>
</lido:titleWrap>
```

```

...
<lido:displayStateEditionWrap>
  <lido:displayEdition>
    numéro de série : 80360
  </lido:displayEdition>
</lido:displayStateEditionWrap>

```

13 Instrument description

The description of an instrument is given by:

- the descriptive notes that have been written about the instrument
- the source from which the content of the notes comes

13.1 *objectDescriptionWrap*

Name	objectDescriptionWrap		
Name space	lido		
Definition	Wrapper for description of an instrument.		
Sub-elements	Name	Obligation	Occurrence
	lido:objectDescriptionSet	optional	repeatable

Example:

```

<lido:objectDescriptionWrap>
  <lido:objectDescriptionSet type="general description">
    <lido:descriptiveNoteValue>
      Fond en 1 pièce d'érable...
    </lido:descriptiveNoteValue>
    <lido:sourceDescriptiveNote>
      Musée instrumental du CNSM : La facture instrumentale européenne,
      1985
    </lido:sourceDescriptiveNote>
  </lido:objectDescriptionSet>
</lido:objectDescriptionWrap>

```

13.2 *objectDescriptionSet*

Name	objectDescriptionSet
Name space	lido

Definition	Wrapper for a descriptive note and its sources. If there is more than one descriptive note, repeat this element.		
Attributes	Name	Obligation	Value
	lido:type	optional	see list below
Sub-elements	Name	Obligation	Occurrence
	lido:descriptiveNoteValue lido:sourceDescriptiveNote	optional optional	not repeatable repeatable

Depending on what the description refers to, the objectDescriptionSet may be typed.
The values of the lido:type attribute can be:

- "general description"
- "context" (to describe, for instance, the sociological context of the use of a non-european instrument)
- "decorative features"
- "literature references"
- "performance characteristics" (to give the advices or comments of the instrument players)
- "inscriptions locations"

If no type is specified, the description has to be considered as a general description.

Example:

```
<lido:objectDescriptionSet type="general description">
  <lido:descriptiveNoteValue>
    Fond en 1 pièce d'érable...
  </lido:descriptiveNoteValue>
  <lido:sourceDescriptiveNote>
    Musée instrumental du CNSM : La facture instrumentale européenne, 1985
  </lido:sourceDescriptiveNote>
</lido:objectDescriptionSet>
```

13.3 descriptiveNoteValue

Name	descriptiveNoteValue		
Name space	lido		
Definition	Usually a relatively brief essay-like text that describes the instrument.		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	The text of the description.		

Example:

<lido:descriptiveNoteValue>

Fond en 1 pièce d'érable * Table en 2 pièces de sapin ou d'épicéa * Eclisses en érable * Tête entée * Manche enté * Cordier et touche en ébène * 4 chevilles en palissandre, bouton doré * Avec mentonnière * Vernis doré orangé * Etiquette originale imprimée et collée sur le fond sous l'ouïe gauche : "Antonio Stradivarius Cremonensis / Faciebat Anno 1708", suivi du motif A+S imprimé entouré d'un double cercle

</lido:descriptiveNoteValue>

13.4 sourceDescriptiveNote

Name	sourceDescriptiveNote		
Name space	lido		
Definition	The source for the descriptive note, generally a published source.		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	The specification of the source.		

Example:

<lido:sourceDescriptiveNote>

Musée instrumental du CNSM : La facture instrumentale européenne, 1985

</lido:sourceDescriptiveNote>

14 Measurements

Two elements are used to store the measurements of an instrument:

- the displayObjectMeasurements element which holds this information in a way which is directly readable by the end-user
- the measurementsSet element used to index measurements and where the measurement itself is split into elementary attributes (type, value, unit)

14.1 objectMeasurementsWrap

Name	objectMeasurementsWrap
Name space	lido
Definition	Wrapper for the measurements: the dimensions, size, shape, scale, format, or

	storage configuration of the instrument, including volume, weight... Measurements are formatted to allow retrieval; preferably in metric units where applicable.		
Sub-elements	Name	Obligation	Occurrence
	lido:objectMeasurementsSet	optional	repeatable

Example:

```

<lido:objectMeasurementWrap>
  <lido:objectMeasurementSet>
    <lido:displayObjectMeasurements>
      Total length: 2250 mm - Keyboard width: 815 mm
    </lido:displayObjectMeasurements>
    <lido:objectMeasurements>
      <lido:measurementsSet
        lido:unit="mm"
        lido:type="Total length"
        lido:value="2250">
      </lido:measurementsSet>
      <lido:measurementsSet
        lido:unit="mm"
        lido:type="Keyboard width"
        lido:value="815">
      </lido:measurementsSet>
    </lido:objectMeasurements>
  </lido:objectMeasurementSet>
</lido:objectMeasurementWrap>

```

14.2 objectMeasurementsSet

Name	objectMeasurementsSet		
Name space	lido		
Definition	Wrapper for display and index elements for instrument measurements. If multiple parts of the instrument are measured, repeat the element.		
Sub-elements	Name	Obligation	Occurrence
	lido:displayObjectMeasurements	optional	repeatable
	lido:objectMeasurements	optional	not repeatable

Example:

```

<lido:objectMeasurementSet>
  <lido:displayObjectMeasurements>
    Total length: 2250 mm - Keyboard width: 815 mm
  </lido:displayObjectMeasurements>
  <lido:objectMeasurements>

```

```

    <lido:measurementsSet>
      lido:unit="mm"
      lido:type="Total length"
      lido:value="2250">
    </lido:measurementsSet>
    <lido:measurementsSet
      lido:unit="mm"
      lido:type="Keyboard width"
      lido:value="815">
    </lido:measurementsSet>
  </lido:objectMeasurements>
</lido:objectMeasurementSet>

```

14.3 displayObjectMeasurements

Name	displayObjectMeasurements		
Name space	lido		
Definition	Display element for measurements of one instrument. Repeat this element only for language variants.		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	Free text. Can be the concatenation of information described in the measurementsSet elements.		

Example:

```

<lido:displayObjectMeasurements>
  Total length: 2250 mm - Keyboard width: 815 mm
</lido:displayObjectMeasurements>

```

The same measurements translated into French

```

<lido:displayObjectMeasurements>
  Total length: 2250 mm - Keyboard width: 815 mm
</lido:displayObjectMeasurements>
<lido:displayObjectMeasurements xml:lang="fr">
  Longueur totale : 2250 mm - Largeur du clavier : 815 mm
</lido:displayObjectMeasurements>

```

14.4 objectMeasurements

Name	objectMeasurements
Name space	lido

Definition	Set for describing measurements of an instrument.		
Sub-elements	Name	Obligation	Occurrence
	lido:measurementsSet	optional	repeatable

Example:

```

<lido:objectMeasurements>
  <lido:measurementsSet
    lido:unit="mm"
    lido:type="Total length"
    lido:value="2250">
  </lido:measurementsSet>
  <lido:measurementsSet
    lido:unit="mm"
    lido:type="Keyboard width"
    lido:value="815">
  </lido:measurementsSet>
</lido:objectMeasurements>

```

14.5 measurementsSet element

Name	measurementsSet		
Name space	lido		
Definition	The dimension or other measurement for one aspect of an instrument (width for example).		
Attributes	Name	Obligation	Value
	lido:unit lido:type lido:value	mandatory mandatory mandatory	see attributes description below.

Example:

```

<lido:measurementsSet lido:unit="mm" lido:type="Total length" lido:value="2250">
</lido:measurementsSet>

```

14.6 unit attribute

Name	unit
Name space	lido
Definition	the unit used to specify one measurement.
Value	metric unit : "m", "cm", "mm", etc...

Example:

```
<lido:measurementsSet lido:unit="mm" lido:type="Total length" lido:value="2250">
</lido:measurementsSet>
```

14.7 type attribute

Name	type
Name space	lido
Definition	the physical characteristic which is measured.
Value	"width", "height", "length", "total length" etc...

Example:

```
...
<lido:measurementsSet lido:unit="mm" lido:type="Total length" lido:value="2250">
</lido:measurementsSet>
```

14.8 value attribute

Name	value
Name space	lido
Definition	the value of the measure.
Value	numerical value.

Example:

```
<lido:measurementsSet lido:unit="mm" lido:type="Total length" lido:value="2250">
</lido:measurementsSet>
```

15 Place

Place description takes part to event description.

A place is characterized by:

- the kind of political entity it is
- the kind of geographical entity it is
- its identifier
- its name

A place can be a part of larger place.

The existence of each place names will be verified in GeoNames thesaurus.

The values of the attributes specifying the types of political and/or geographical entity associated to a place will be used to interrogate GeoNames.

15.1 place element

Name	place		
Name space	lido		
Definition	Set to describe a place.		
Attributes	Name	Obligation	Value
	lido:politicalEntity lido:geographicalEntity	optional optional	
Sub-elements	Name	Obligation	Occurrence
	lido:placeID	optional	repeatable
	lido:placeNameSet	optional	repeatable
	lido:partOfPlace	optional	repeatable

Example:

```
<lido:place lido:politicalEntity="town">
  <lido:namePlaceSet>
    <lido:appellationValue>
      Anvers
    </lido:appellationValue>
  </lido:namePlaceSet>
  <lido:partOfPlace lido:politicalEntity="country">
    <lido:namePlaceSet>
      <lido:appellationValue>
        Flandres
      </lido:appellationValue>
    </lido:namePlaceSet>
  </lido:partOfPlace>
</lido:place>
```

15.2 politicalEntity attribute

Name	politicalEntity
Name space	lido
Definition	The kind of political entity a place is.
Value	"country", "region" or "town".

Example:

```
<lido:partOfPlace lido:politicalEntity="country">
  <lido:namePlaceSet>
    <lido:appellationValue>
      France
    </lido:appellationValue>
  </lido:namePlaceSet>
</lido:partOfPlace>
```

15.3 geographicalEntity attribute

Name	geographicalEntity
Name space	lido
Definition	The kind of geographical entity a place is.
Value	"continent" or "area".

Example:

```
<lido:place lido:geographicalEntity="area">
  <lido:namePlaceSet>
    <lido:appellationValue>
      The Alps
    </lido:appellationValue>
  </lido:namePlaceSet>
</lido:place>
```

15.4 placeID element

Name	placeID		
Name space	lido		
Definition	Identifier of a place.		
Attributes	Name	Obligation	Value
	lido:pref lido:type lido:source	optional mandatory optional	"local"
Value	The identifier given to the place.		

Example:

```
<lido:placeID lido:type="local">
  0900710
</lido: placeID>
<lido:placeNameSet>
  <lido:appellationValue>
    Europe
  <lido:appellationValue>
</lido:placeNameSet>
```

15.5 placeNameSet element

Name	placeNameSet		
Name space	lido		
Definition	The name of a geographic place. If there are different names of the same place, for instance, today's and historical names, repeat this element.		
Sub-elements	Name	Obligation	Occurrence
	lido:appellationValue lido:sourceAppellation	mandatory optional	not repeatable repeatable

The name of the place is stored in the lido:appellationValue element. The name of the thesaurus can be stored in the lido:sourceAppellation element.

Name	appellationValue		
Name space	lido		
Attributes	Name	Obligation	Value
	lido:pref xml:lang	optional optional	"preferred" or "alternate" "de", "en", "fr", "it", "nl" or "sv"
Value	The name of the place.		

[\(see Appellation for complete description\)](#)

Example:

```
<lido:namePlaceSet>
  <lido:appellationValue>
    Anvers
  </lido:appellationValue>
</lido:namePlaceSet>
```

15.6 partOfPlace element

Name	partOfPlace		
Name space	lido		
Definition	allows for indexing larger geographical entities.		
Attributes	Name	Obligation	Value
	lido:politicalEntity lido:geographicalEntity	optional optional	see attributes description
Sub-elements	Name	Obligation	Occurrence
	lido:placeID lido:placeNameSet lido:partOfPlace lido:placeClassification	optional optional optional optional	repeatable repeatable repeatable repeatable

Example:

```

<lido:place lido:politicalEntity="town">
  <lido:namePlaceSet>
    <lido:appellationValue>
      Anvers
    </lido:appellationValue>
  </lido:namePlaceSet>
  <lido:partOfPlace lido:politicalEntity="country">
    <lido:namePlaceSet>
      <lido:appellationValue>
        Flandres
      </lido:appellationValue>
    </lido:namePlaceSet>
  </lido:partOfPlace>
</lido:place>

```

16 Date and period name

Date and period name description takes part to event description.

A date is characterized by:

- a beginning
- an end

A period name defines a range of dates. This should be a controlled value.

16.1 *earliestDate* element

Name	earliestDate
Name space	lido
Definition	A year or exact date that broadly delimits the beginning of an implied date span.
Value	Format: YYYY[-MM[-DD]]

Example:

```
<lido:earliestDate>  
  1880  
</lido:earliestDate>
```

16.2 *latestDate* element

Name	latestDate
Name space	lido
Definition	A year or exact date that broadly delimits the end of an implied date span.
Value	Format: YYYY[-MM[-DD]]

Example:

```
<lido:latestDate>  
  1890  
</lido:latestDate>
```

16.3 *periodName* element

Name	periodName		
Name space	lido		
Definition	A period name defining the range of dates.		
Sub-elements	Name	Obligation	Occurrence
	lido:conceptID lido:term	optional optional	not repeatable repeatable

The period name has to be specified in the lido:term element

Name	term		
Name space	lido		
Attributes	Name	Obligation	Value
	lido:pref xml:lang	optional optional	"preferred" or "alternate" "de", "en", "fr", "it", "nl" or "sv"
Value	The period name.		

Example:

```
<lido:periodName>  
  <lido:term xml:lang="fr">  
    vers 1882  
  </lido:term>  
</lido:periodName>
```

17 Materials and techniques

Materials and techniques description takes part to event description.

17.1 *displayMaterialsTech* element

Name	displayMaterialsTech
Name space	lido
Definition	Display element for a materials and techniques specification. It is presented in syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance. Repeat this element only for language variants.

Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	Free text. Can be the concatenation of information described in the termMaterialsTech elements.		

Example:

```
<lido:displayMaterialsTech xml:lang="fr">
  Ivoire, Ebène
</lido:displayMaterialsTech>
```

17.2 materialsTech element

Name	materialsTech		
Name space	lido		
Definition	Set to index materials and techniques. Contains all materials and techniques related to an instrument.		
Sub-elements	Name	Obligation	Occurrence
	lido:termMaterialsTech	optional	repeatable

Example:

```
<lido:MaterialsTech>
  <lido:termMaterialsTech lido:type="Material">
    <lido:term>
      Ivoire
    </lido:term>
  </lido:termMaterialsTech>
  <lido:termMaterialsTech lido:type="Material">
    <lido:term>
      Ebène
    </lido:term>
  </lido:termMaterialsTech>
</lido:MaterialsTech>
```

17.3 termMaterialsTech element

Name	termMaterialsTech
Name space	lido

Definition	Element to index a material or a technique related to an instrument. If there are different materials and/or techniques used, repeat this element.		
Attributes	Name	Obligation	Value
	lido:type	optional	"material" or "technique"
Sub-elements	Name	Obligation	Occurrence
	lido:conceptID lido:term	optional optional	not repeatable repeatable

The value of the termMaterialsTech element has to be specified in the lido:term element.

Name	term		
Name space	lido		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	The material or technique name or description.		

[\(see Concept for complete description\)](#)

Example:

```
<lido:termMaterialsTech lido:type="material">
  <lido:term xml:lang="fr">
    Ivoire
  </lido:term>
</lido:termMaterialsTech>
```

18 Actor

Actor description takes part to event description.

An actor is characterized by:

- his identifier
- his name
- his nationality
- his vital dates
- his gender

18.1 actor element

Name	actor		
Name space	lido		
Definition	Contains identifying, indexing actor information.		
Attributes	Name	Obligation	Value
	lido:actorType	optional	"person", "corporate" or "family"
Sub-elements	Name	Obligation	Occurrence
	lido:actorID	optional	repeatable
	lido:nameActorSet	mandatory	repeatable
	lido:nationalityActor	optional	repeatable
	lido:vitalDatesActor	optional	not repeatable
	lido:genderActor	optional	not repeatable

The actorType attribute indicates if the actor is an individual, a group of individuals or a corporate body (a firm, for instance), or a family of instruments makers.

Example:

```
<lido:actor lido:actorType="person">
  <lido:actorID lido:type="local">
    0466189
  </lido:actorID>
  <lido:nameActorSet>
    <lido:appellationValue>
      Ruckers, Andreas
    </lido:appellationValue>
  </lido:nameActorSet>
</lido:actor>
```

18.2 actorID element

Name	actorID		
Name space	lido		
Definition	Identifier of an actor.		
Attributes	Name	Obligation	Value
	lido:pref	optional	
	lido:type	mandatory	"local"
	lido:source	optional	
Value	The actor identifier.		

Example:

```
<lido:actor lido:actorType="person">
  <lido:actorID lido:type="local">
    0466189
  </lido:actorID>

  <lido:nameActorSet>
    <lido:appellationValue>
      Ruckers, Andreas
    </lido:appellationValue>
  </lido:nameActorSet>
  ...
</lido:actor>
```

18.3 actorNameSet element

Name	actorNameSet		
Name space	lido		
Definition	Names or other identifiers assigned to an individual, group of people, firm or other corporate body, or family of instruments makers or other entity implied in an event.		
Sub-elements	Name	Obligation	Occurrence
	lido:appellationValue lido:sourceAppellation	mandatory optional	not repeatable repeatable

The actor's name has to be specified in the lido:appellationValue element.

Name	appellationValue		
Name space	lido		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	The actor's name.		

[\(see Appellation for complete description\)](#)

A controlled list giving the names of instrument makers will be available. For other kinds of actors, there is no control on their name.

Example:

```
<lido:nameActorSet>
  <lido:appellationValue>
    Pleyel
  </lido:appellationValue>
</lido:nameActorSet>
```

18.4 nationalityActor element

Name	nationalityActor		
Name space	lido		
Definition	Element indicating the national or cultural affiliation of a person or corporate body or family of instruments makers.		
Sub-elements	Name	Obligation	Occurrence
	lido:conceptID lido:term	optional optional	not repeatable repeatable

The value of the nationality has to be specified in the lido:term element.

Name	term		
Name space	lido		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	The nationality.		

[\(see Concept for complete description\)](#)

Example:

```
<lido:nationalityActor>
  <lido:term>
    French
  </lido:term>
</lido:nationalityActor>
```

18.5 birthDate attribute

Name	birthDate
Name space	lido

Definition	Specifies the birth date of an artist or the date of founding of a corporate body or the date of beginning of activity for a family of instruments makers.
Value	Format (YYYY[-MM-[DD]]) preferred, other formats authorized

Example:

```
<lido:actor lido:actorType="person">
  <lido:nameActorSet>
    <lido:appellationValue>
      Monteverdi, Claudio
    </lido:appellationValue>
  </lido:nameActorSet>
  <lido:vitalDatesActor lido:birthDate="1567-05" lido:deathDate="1643-11-29">
    1567-1643
  </lido:vitalDatesActor>
</lido:actor>
```

18.6 deathDate attribute

Name	deathDate
Name space	lido
Definition	Specifies the death date of an artist or the date of founding of a corporate body the date of end of activity for a family of instruments makers.
Value	Format (YYYY[-MM-[DD]]) preferred, other formats authorized

Example:

```
<lido:actor lido:actorType="person">
  <lido:nameActorSet>
    <lido:appellationValue>
      Monteverdi, Claudio
    </lido:appellationValue>
  </lido:nameActorSet>
  <lido:vitalDatesActor lido:birthDate="1567-05" lido:deathDate="1643-11-29">
    1567-1643
  </lido:vitalDatesActor>
</lido:actor>
```

18.7 vitalDatesActor element

Name	vitalDatesActor
Name space	lido

Definition	<p>Description of the lifespan of a person or the existence of a corporate body or of the activity of a family of instruments makers, using “ca.” and any other expressions of uncertainty or nuance.</p> <p>For birth and death date attributes, record years of birth and death, estimated where necessary.</p> <p>For a corporate body, use birthdate and deathdate to record the dates of founding and dissolution.</p> <p>For a family, use birthdate and deathdate to record the dates of beginning and end of activity.</p> <p>Although this is not a mandatory field the use of birth date and death date is strongly recommended in the case of artists.</p> <p>If only a reference period (not the exact period of life) of a person is known, and the event in which the person took part cannot be exactly dated, then the reference period should be taken as the dating of the event.</p>		
Attribute	Name	Obligation	Value
	lido:birthDate lido:deathDate lido:source xml:lang	optional optional optional optional	see above "de", "en", "fr", "it", "nl" or "sv"
Value	Free text.		

Example:

```
<lido:vitalDatesActor lido:birthDate="1567-05" lido:deathDate="1643-11-29">
  1567-1643
</lido:vitalDatesActor>
```

18.8 genderActor element

Name	actor		
Name space	lido		
Definition	The sex of an individual. Not applicable for corporate bodies and families.		
Attribute	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	"male", "female", "unknown", "not applicable"		

Example:

```
<lido:genderActor>
  male
</lido:genderActor>
```

19 Role

Role description takes part to event description.

19.1 *displayActorInRole* element

Name	displayActorInRole		
Name space	lido		
Definition	<p>Display element for an actor playing a role in an event. May include name, brief biographical information, and roles (if necessary) of the named actor, presented in a syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance. If there is no known actor, make a reference to the presumed culture or nationality of the unknown actor.</p> <p>May be concatenated from the respective lido:actor element. The name should be in natural order, if possible, although inverted order is acceptable. Include nationality and life dates. For unknown actors, use expressions like "unknown," "unknown Chinese," "Chinese," or "unknown 15th century Chinese.</p> <p>Repeat this element only for language variants.</p>		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	Free text.		

Example:

```
<lido:displayActorInRole xml:lang="fr">  
  Andreas Ruckers (1607-1655), facteur  
</lido:displayActorInRole>
```

```
<lido:displayActorInRole xml:lang="en">  
  Andreas Ruckers (1607-1655), instrument maker  
</lido:displayActorInRole>
```

19.2 *actorInRole* element

Name	actorInRole
Name space	lido
Definition	A set to describe an actor and its roles.

Sub-elements	Name	Obligation	Occurrence
	lido:actor	mandatory	not repeatable
	lido:roleActor	optional	repeatable

Example:

```

<lido:actorInRole>
  <lido:actor lido:actorType="person">
    <lido:actorID lido:type="local">
      0466189
    </lido:actorID>
    <lido:nameActorSet>
      <lido:appellationValue>
        Ruckers, Andreas
      </lido:appellationValue>
    </lido:nameActorSet>
  </lido:actor>
  <lido:roleActor>
    <lido:term xml:lang="fr">
      Facteur
    </lido:term>
  </lido:roleActor>
</lido:actorInRole>

```

19.3 roleActor element

Name	roleActor		
Name space	lido		
Definition	Role of an actor in the event. Belongs to a controlled list.		
Sub-elements	Name	Obligation	Occurrence
	lido:conceptID	optional	not repeatable
	lido:term	optional	repeatable

The actor's role has to be specified in the lido:term element.

Name	term		
Name space	lido		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	The description of the role.		

[\(see Concept for complete description\)](#)

Example:

```
<lido:roleActor>
  <lido:term xml:lang="fr">
    Facteur
  </lido:term>
</lido:roleActor>
```

20 Event

An event is composed of:

- an identifier
- a name
- a type
- the actor(s) involved
- the nationality or cultural belonging of these actors
- the dates of the event
- the period name attached to the event
- the place of the event
- the materials and techniques possibly used

20.1 eventWrap element

Name	eventWrap		
Name space	lido		
Definition	A wrapper for event sets. Contains all the events related to an instrument.		
Sub-elements	Name	Obligation	Occurrence
	lido:eventSet	optional	not repeatable

20.2 eventSet element

Name	eventSet		
Name space	lido		
Definition	Set for display and index elements for an event in which the described instrument is implied in. For multiple events repeat this element.		
Sub-elements	Name	Obligation	Occurrence
	lido:displayEvent lido:event	optional optional	repeatable not repeatable

20.3 displayEvent

Name	displayEvent		
Name space	lido		
Definition	Display element for an event. Repeat this element only for language variants.		
Attribute	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"

Example:

```

<lido:eventWrap>
  <lido:eventSet>
    <lido:displayEvent>
      Fabriqué par Andreas Ruckers à Anvers en 1646
    </lido:displayEvent>
    <lido:event>
      ...
    </lido:event>
  </lido:eventSet>
</lido:eventWrap>

```

20.4 event element

Name	event		
Name space	lido		
Definition	Set containing information describing and indexing an event.		
Sub-elements	Name	Obligation	Occurrence
	lido:eventID	optional	repeatable
	lido:eventType	mandatory	not repeatable
	lido:eventName	optional	repeatable
	lido:eventActor	optional	repeatable
	lido:culture	optional	repeatable
	lido:eventDate	optional	not repeatable
	lido:periodName	optional	not repeatable
	lido:eventPlace	optional	repeatable
lido:eventMaterialsTech	optional	repeatable	

Example:

```
<lido:event>
  <lido:eventType>
    <lido:term>
      Fabrication
    </lido:term>
  </lido:eventType>
  <lido:eventActor>
    <lido:displayActorInRole>
      Andreas Ruckers (1607-1655), facteur
    </lido:displayActorInRole>
    <lido:actorInRole>
      <lido:actor lido:actorType="person">
        <lido:actorID lido:type="local">
          0466189
        </lido:actorID>
        <lido:nameActorSet>
          <lido:appellationValue>
            Ruckers, Andreas
          </lido:appellationValue>
        </lido:nameActorSet>
      </lido:actor>
      <lido:roleActor>
        <lido:term>
          Facteur
        </lido:term>
      </lido:roleActor>
    </lido:actorInRole>
  </lido:eventActor>
  <lido:culture>
    <lido:term>
      Flamand
    </lido:term>
  </lido:culture>
  <lido:eventDate lido:type="local">
    <lido:displayDate>
      année de fabrication : 1646
    </lido:displayDate>
    <lido:date>
      <lido:earliestDate>
        1646
      </lido:earliestDate>
      <lido:latestDate>
        1646
      </lido:latestDate>
    </lido:date>
  </lido:eventDate>
  <lido:eventPlace>
    <lido:displayPlace>
```

```

    Anvers, Flandres
  </lido:displayPlace>
  <lido:place lido:politicalEntity="town">
    <lido:namePlaceSet>
      <lido:appellationValue>
        Anvers
      </lido:appellationValue>
    </lido:namePlaceSet>
    <lido:partOfPlace lido:politicalEntity="country">
      <lido:namePlaceSet>
        <lido:appellationValue>
          Flandres
        </lido:appellationValue>
      </lido:namePlaceSet>
    </lido:partOfPlace>
  </lido:place>
</lido:eventPlace>
<lido:eventMaterialsTech>
  <lido:displayMaterialsTech>
    Ivoire, Ebène
  </lido:displayMaterialsTech>
  <lido:materialsTech>
    <lido:termMaterialsTech lido:type="Material">
      <lido:term>
        Ivoire
      </lido:term>
    </lido:termMaterialsTech>
    <lido:termMaterialsTech lido:type="Material">
      <lido:term>
        Ebène
      </lido:term>
    </lido:termMaterialsTech>
  </lido:materialsTech>
</lido:eventMaterialsTech>
</lido:event>
...

```

20.5 eventID element

Name	eventID		
Name space	lido		
Definition	Identifier of an event.		
Attributes	Name	Obligation	Value
	lido:pref lido:type lido:source	optional mandatory optional	"local"

Value	The identifier given to the event by the contributor.
-------	---

20.6 eventName element

Name	eventName		
Name space	lido		
Definition	The name of an event.		
Sub-elements	Name	Obligation	Occurrence
	lido:appellationValue lido:sourceAppellation	mandatory optional	not repeatable repeatable

The name of the event is stored in the lido:appellationValue element.

Name	appellationValue		
Name space	lido		
Attributes	Name	Obligation	Value
	lido:pref xml:lang	optional optional	"preferred" or "alternate" "de", "en", "fr", "it", "nl" or "sv"
Value	The name of the event.		

[\(see Appellation for complete description\)](#)

20.7 eventType element

Name	eventType		
Name space	lido		
Definition	Qualifier of the event: "creation", "find", "making"... Data values should be controlled and translated. LIDO recommended: defined list of subclasses of CIDOC-CRM entity E5 Event. List to be analysed. Values foreseen for MIMO: making; repairing; ownership; playing (by)...		
Sub-elements	Name	Obligation	Occurrence
	lido:conceptID lido:term	optional optional	not repeatable repeatable

The type has to be specified in the lido:term element.

Name	term		
Name space	lido		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	The description of the role.		

[\(see Concept for complete description\)](#)

Example:

```
<lido:eventType>
  <lido:term>
    Making
  </lido:term>
</lido:eventType>
```

20.8 eventActor

Name	eventActor		
Name space	lido		
Definition	Set describing information about an actor and its role(s) in an event.		
Sub-elements	Name	Obligation	Occurrence
	lido:displayActorInRole lido:actorInRole	optional optional	repeatable not repeatable

Example:

```
<lido:eventActor>
  <lido:displayActorInRole>
    Andreas Ruckers (1607-1655), facteur
  </lido:displayActorInRole>
  <lido:actorInRole>
    <lido:actor lido:actorType="person">
      <lido:actorID lido:type="local">
        0466189
      </lido:actorID>
      <lido:nameActorSet>
        <lido:appellationValue>
          Ruckers, Andreas
        </lido:appellationValue>
      </lido:nameActorSet>
    </lido:actor>
  </lido:actorInRole>
  <lido:roleActor>
```

```

        <lido:term>
            Facteur
        </lido:term>
    </lido:roleActor>
</lido:actorInRole>
</lido:eventActor>

```

20.9 culture element

Name	culture		
Name space	lido		
Definition	Name of a culture, people, or nationality participating in an event.		
Sub-elements	Name	Obligation	Occurrence
	lido:conceptID lido:term	optional optional	not repeatable repeatable

The specification of the culture is stored in the lido:term element and is taken from a thesaurus (list of ethnonyms).

Name	term		
Name space	lido		
Attributes	Name	Obligation	Value
	lido:pref xml:lang	optional optional	"preferred" or "alternate" de", "en", "fr", "it", "nl" or "sv"
Value	The description of the role.		

[\(see Concept for complete description\)](#)

Example:

```

<lido:culture>
    <lido:term>
        Mangbetu
    </lido:term>
</lido:culture>

```


20.10 eventDate element

Name	eventDate		
Name space	lido		
Definition	A set containing information describing and indexing the date of an event.		
Sub-elements	Name	Obligation	Occurrence
	lido:displayDate lido:date	optional optional	repeatable not repeatable

Example:

```
<lido:eventDate>  
  <lido:displayDate>  
    année de fabrication : 1646  
  </lido:displayDate>  
  <lido:date>  
    <lido:earliestDate>  
      1646  
    </lido:earliestDate>  
    <lido:latestDate>  
      1646  
    </lido:latestDate>  
  </lido:date>  
</lido:eventDate>
```

20.11 periodName element

Name	periodName		
Name space	lido		
Definition	A period defining the range of dates. Data values should be controlled.		
Sub-elements	Name	Obligation	Occurrence
	lido:conceptID lido:term	optional optional	not repeatable repeatable

20.12 eventPlace element

Name	eventPlace		
Name space	lido		
Definition	A set containing information describing and indexing the place of an event.		

Attributes	Name	Obligation	Value
		lido:type	optional
Sub-elements	Name	Obligation	Occurrence
		lido:displayPlace lido:place	optional optional

Example:

```

<lido:eventPlace>
  <lido:displayPlace>
    Anvers, Flandres
  </lido:displayPlace>
  <lido:place lido:politicalEntity="town">
    <lido:namePlaceSet>
      <lido:appellationValue>
        Anvers
      </lido:appellationValue>
    </lido:namePlaceSet>
    <lido:partOfPlace lido:politicalEntity="country">
      <lido:namePlaceSet>
        <lido:appellationValue>
          Flandres
        </lido:appellationValue>
      </lido:namePlaceSet>
    </lido:partOfPlace>
  </lido:place>
</lido:eventPlace>

```

20.13 eventMaterialsTech element

Name	eventMaterialsTech		
Name space	lido		
Definition	A set containing information describing and indexing the materials and/or techniques used in an event.		
Sub-elements	Name	Obligation	Occurrence
		lido:displayMaterialsTech lido:materialsTech	optional optional

Example:

```

<lido:eventMaterialsTech>
  <lido:displayMaterialsTech xml:lang="fr">
    Ivoire, Ebène
  </lido:displayMaterialsTech>
  <lido:materialsTech>
    <lido:termMaterialsTech lido:type="Material">
      <lido:term>
        Ivoire
      </lido:term>
    </lido:termMaterialsTech>
    <lido:termMaterialsTech lido:type="Material">
      <lido:term>
        Ebène
      </lido:term>
    </lido:termMaterialsTech>
  </lido:materialsTech>
</lido:eventMaterialsTech>

```

20.14 eventDescriptionSet element

Name	eventDescriptionSet		
Name space	lido		
Definition	A set containing information describing an event.		
Sub-elements	Name	Obligation	Occurrence
	lido:descriptiveNoteValue lido:sourceDescriptiveNote	optional optional	not repeatable repeatable

Example:

```

<lido:eventDescriptionSet>
  <lido:descriptiveNoteValue xml:lang="fr">
    Sautereaux de registre de peau de buffle * Sautereaux de l'extrême fa *
    Allongement dans l'aigu des sillons et chevalets de 4'et 8' * Mécanisme de
    genouillères * Barrage de caisse refait * Epaissement des éclisses de 14 à 25
    mm * Décor et piètement
  </lido:descriptiveNoteValue>
  <lido:sourceDescriptiveNote>
    Musée instrumental du CNSM : La facture instrumentale européenne, 1985
  </lido:sourceDescriptiveNote>
</lido:eventDescriptionSet>

```

(See paragraphs 13.3 and 13.4 for a description of lido:descriptiveNoteValue and lido:sourceDescriptiveNote elements).

21 Subjects

A subject describes what is depicted in the paintings or any kind of decoration we may find on an instrument.

21.1 *objectRelationWrap* element

Name	objectRelationWrap		
Name space	lido		
Definition	Wrapper for subjects or related objects information.		
Sub-elements	Name	Obligation	Occurrence
	lido:subjectWrap	optional	not repeatable

21.2 *subjectWrap* element

Name	subjectWrap		
Name space	lido		
Definition	Wrapper for subject's information.		
Sub-elements	Name	Obligation	Occurrence
	lido:subjectSet	optional	repeatable

21.3 *subjectSet* element

Name	subjectSet		
Name space	lido		
Definition	Set for display and index a subject. For multiple subjects repeat this element.		
Sub-elements	Name	Obligation	Occurrence
	lido:displaySubject	optional	repeatable

21.4 displaySubject element

Name	displaySubject		
Name space	lido		
Definition	Description of the subject matter represented on the instrument.		
Attribute	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	A free-text description of the subject matter represented on the instrument.		

22 Rights

The rights described in this set of elements are those regarding the metadata themselves and their use.

22.1 rightsWorkWrap element

Name	rightsWorkWrap		
Name space	lido		
Definition	Wrapper for rights information.		
Sub-elements	Name	Obligation	Occurrence
	lido:rightsWorkSet	optional	repeatable

Example:

```
<lido:rightsWorkWrap>
  <lido:rightsWorkSet>
    <lido:rightsType>
      copyrights
    </lido:rightsType>
    <lido:rightsHolder>
      <lido:legalBodyName>
        <lido:appellationValue>
          Germanisches Nationalmuseum Nürnberg
        </lido:appellationValue>
      </lido:legalBodyName>
    </lido:rightsHolder>
  </lido:rightsWorkSet>
</lido:rightsWorkWrap>
```

22.2 *rightsWorkSet* element

Name	rightsWorkSet		
Name space	lido		
Definition	Information about rights management; may include copyright and other intellectual property statements required for use of the metadata.		
Sub-elements	Name	Obligation	Occurrence
	lido:rightsType	optional	repeatable
	lido:rightsDate	optional	repeatable
	lido:rightsHolder	optional	repeatable
	lido:creditLine	optional	repeatable

Example:

```

<lido:rightsWorkSet>
  <lido:rightsType>
    copyrights
  </lido:rightsType>
  <lido:rightsHolder>
    <lido:legalBodyName>
      <lido:appellationValue>
        Germanisches Nationalmuseum Nürnberg
      </lido:appellationValue>
    </lido:legalBodyName>
  </lido:rightsHolder>
</lido:rightsWorkSet>

```

22.3 *rightsType* element

Name	rightsType		
Name space	lido		
Definition	Information about rights types.		
Attribute	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	"copyrights", "trademark", "registered", etc... (open list)		

Example:

```
<lido:rightsType>  
  copyrights  
</lido:rightsType>
```

22.4 rightsDate element

Name	rightsDate		
Name space	lido		
Definition	Information about rights dates.		
Sub-elements	Name	Obligation	Occurrence
	lido:earliestDate lido:latetstDate	mandatory mandatory	not repeatable not repeatable

([see Date description paragraph](#))

22.5 rightsHolder element

Name	rightsHolder		
Name space	lido		
Definition	Information about rights holder.		
Sub-elements	Name	Obligation	Occurrence
	lido:legalBodyID lido:legalBodyName lido:legalBodyWeblink	optional optional optional	repeatable repeatable repeatable

([see Legal body description paragraph](#))

Example:

```
<lido:rightsHolder>  
  <lido:legalBodyName>  
    <lido:appellationValue>  
      Germanisches Nationalmuseum Nürnberg  
    </lido:appellationValue>  
  </lido:legalBodyName>  
</lido:rightsHolder>
```

22.6 creditLine element

Name	creditLine		
Name space	lido		
Definition	Naming specification for rights holder. Repeat this element only for language variants.		
Attribute	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"

23 Record

This set of elements is used to index information about the record that contains cataloguing information.

23.1 recordWrap element

Name	recordWrap		
Name space	lido		
Definition	Wrapper for information about the record that contains the cataloguing information.		
Sub-elements	Name	Obligation	Occurrence
	lido:recordID lido:recordType lido:recordSource	mandatory mandatory mandatory	repeatable not repeatable repeatable

23.2 recordID element

Name	recordID		
Name space	lido		
Definition	A unique record identification in the contributor's (local) system.		
Attribute	Name	Obligation	Value
	lido:pref lido:type lido:source	optional mandatory optional	"local"
Value	The identifier given to the record by the contributor.		

23.3 recordType element

Name	recordType		
Name space	lido		
Definition	Term establishing whether the record represents an individual item or a collection, series, or group of instruments.		
Attribute	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	"item", "collection", "series", "group of works", etc...		

23.4 recordSource element

Name	recordSource		
Name space	lido		
Definition	The source (legal body) of information in this record, generally the repository or other institution.		
Sub-elements	Name	Obligation	Occurrence
	lido:legalBodyID lido:legalBodyName lido:legalBodyWeblink	optional optional optional	repeatable repeatable repeatable

(see [Legal body description paragraph](#))

In this context, at least the legalBodyID has to be completed with the "contributor identifier" (the prefix that identify the institution – see [§5.2 lidoRecID element](#)).

24 Resource

A resource is an image, a movie or a sound recording related to the recorded instrument.

24.1 resourceWrap element

Name	resourceWrap
Name space	lido

Definition	Wrapper for audiovisual information identifying an image of the instrument (including digital images, slides, transparencies, photographs, and moving images) or a sound recording, but excluding items that are considered works in their own right.		
Sub-elements	Name	Obligation	Occurrence
	lido:resourceSet	optional	repeatable

Example :

```

...
<lido:resourceWrap>
  <lido:resourceSet>
    <lido:linkResource>
      http://mediatheque.cite-musique.fr/masc/play.asp?ID=0250599
    </lido:linkResource>
    <lido:resourceID lido:type="local">
      CMIM000015238.jpg
    </lido:resourceID>
    <lido:resourceType lido:type="local">
      digital image
    </lido:resourceType>
  </lido:resourceSet>
</lido:resourceWrap>
...

```

24.2 resourceSet element

Name	resourceSet		
Name space	lido		
Definition	Set for information about a resource. If there are multiple resources associated with the instrument, repeat this element.		
Sub-elements	Name	Obligation	Occurrence
	lido:linkResource lido:resourceID lido:resourceType lido:rightsResource lido:resourceViewDescription	optional optional optional optional optional	repeatable not repeatable repeatable repeatable not repeatable

24.3 linkResource element

Name	linkResource
Name space	lido
Definition	Weblink to the resource.
Value	An URL reference to the resource.

Example:

```

...
<lido:linkResource>
    http://mediatheque.cite-musique.fr/masc/play.asp?ID=0250599
</lido:linkResource>
...

```

24.4 resourceID element

Name	resourceID		
Name space	lido		
Definition	The unique numeric or alphanumeric identification of the resource.		
Attribute	Name	Obligation	Value
	lido:pref	mandatory for one - and only one - of the images described among the resources (MIMO specificity)	"preferred"
	lido:type	mandatory	"local"
	lido:source	optional	
Value	The identifier given to the resource by the contributor.		

Example:

```

...
<lido:resourceID lido:type="local">
    CMIM000015238.jpg
</lido:resourceID>
...

```

One of the images described in the resources must be pointed out as the "preferred" image (due to Europeana necessity).

This is done by setting the lido:pref attribute of the lido:resourceID element to "preferred".

Example:

```

...
<lido:resourceID lido:type="local" lido:pref="preferred">
  CMIM000022709.jpg
</lido:resourceID>
...

```

24.5 resourceType element

Name	resourceType		
Name space	lido		
Definition	The generic identification of the medium of the image or other resource.		
Attribute	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	"digital image", "video", "sound recording", etc... (open list) ??? TEXT, IMAGE, SOUND or VIDEO as in Europeana???		

Example:

```

...
<lido:resourceType>
  digital image
</lido:resourceType>
...

```

24.6 rightsResource element

Name	rightsResource		
Name space	lido		
Definition	Information about rights regarding the image or other resource. Use this sub-element if the holder of the reproduction rights for the resource differs from the holder of rights for the instrument.		
Sub-elements	Name	Obligation	Occurrence
	lido:rightsType lido:rightsDate lido:rightsHolder lido:creditLine	optional optional optional optional	repeatable repeatable repeatable repeatable

[\(see rightsWorkSet element description paragraph\)](#)

24.7 resourceViewDescription element

Name	resourceViewDescription		
Name space	lido		
Definition	A description of a resource.		
Attribute	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	A free text giving information about the resource (such as the legend of an image, the title of a piece of music, etc...)		

25 Concept

A concept is a sequence of an optional identifier (conceptID) followed by optional terms.

A concept sequence is always included in one of the following elements:

- [objectWorkType](#)
- [classification](#)
- [periodName](#)
- [termMaterialsTech](#)
- [nationalityActor](#)
- [roleActor](#)
- [eventType](#)
- [culture](#)

25.1 conceptID element

Name	conceptID		
Name space	lido		
Definition	Identifier of a concept.		
Attributes	Name	Obligation	Value
	lido:pref	optional	"preferred" or "alternate"
	lido:type	mandatory	"SH_Class" for classification other values?
	lido:source	optional	
Value	<p>There is no controlled list of identifiers. Suggested values include but are not limited to the following :</p> <ul style="list-style-type: none"> - doi (Digital Objects Identifier) - guid (Globally Unique Identifier) - hdl (Handle) - isbn (International Standard Book Number) - ismn (International Standard Music Number) - isrc (International Standard Recording Code) - issn (International Standard Serials Number) - purl (Persistent Uniform Resource Locator) - url (Uniform Resource Locator) - urn (Uniform Resource Name) - permalink - local ... 		

Example:

```
<lido:conceptID lido:type="SH_Class">
  412.13
</lido:conceptID>
<lido:term>
  Free reeds aerophones
</lido:term>
```

25.2 addedSearchTerm attribute

Name	addedSearchTerm
Name space	lido
Definition	When present and set to “yes”, this attribute indicates that the term to which it is associated, is derived from the “preferred” term and should be used only for retrieval.
Value	"no" (default value) or "yes"

Example:

```
...
<lido:classification>
  <lido:term lido:addedSearchTerm="no">
    harpsichord
  </lido: term>
</lido:classification>
<lido:classification>
  <lido:term lido:addedSearchTerm="yes">
    keyboard
  </lido: term>
</lido:classification>
...
```

25.3 term element

Name	term		
Name space	lido		
Definition	Word or expression defining a concept.		
Attributes	Name	Obligation	Value
	lido:pref lido:addedSearchTerm	optional optional	"preferred" or "alternate" "no" or "yes"

	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	Free text. Could belong to a controlled list.		

Example:

```
<lido:conceptID lido:type="SH_Class">
  412.13
</lido:conceptID>
<lido:term>
  Free reeds aerophones
</lido:term>
```


26 Appellation

An appellation is a sequence of a mandatory proper name (appellationValue) followed by optional sources (sourceAppellation).

An appellation sequence is always included in one of the following elements:

- [titleSet](#)
- [legalBodyName](#)
- [placeNameSet](#)
- [actorNameSet](#)
- [eventName](#)

26.1 appellationValue element

Name	appellationValue		
Name space	lido		
Definition	Appellations, titles, identifying phrases, or names given to an item, but also name of a person or corporation, a place name etc...		
Attributes	Name	Obligation	Value
	lido:pref lido:type xml:lang	optional optional optional	"preferred" or "alternate" ????? "de", "en", "fr", "it", "nl" or "sv"
Value	Free text. Could belong to a controlled list.		

Example :

```
<lido:appellationValue>
  Musée de la musique
</lido:appellationValue>
```

26.2 sourceAppellation element

Name	sourceAppellation		
Name space	lido		
Definition	The source for an appellation value, generally a published source.		
Attributes	Name	Obligation	Value
	xml:lang	optional	"de", "en", "fr", "it", "nl" or "sv"
Value	Free text.		

Example:

<lido:sourceAppellation>

Musée instrumental du CNSM : La facture instrumentale européenne, 1985

</lido:sourceAppellation>

27 Generic attributes

27.1 *pref*

Name	pref
Name space	lido
Definition	When specified inside an element, indicates if the element value is the one that should be preferably used ("preferred") or if it's a synonym ("alternate").
Value	"preferred" (default value) or "alternate"

Example:

```
<lido:nameActorSet>
  <lido:appellationValue lido:pref="preferred">
    Stradivari, Antonio
  </lido:appellationValue>
</lido:nameActorSet>
<lido:nameActorSet>
  <lido:appellationValue lido:pref="alternate">
    Stradivarius
  </lido:appellationValue>
</lido:nameActorSet>
```

27.2 *type*

Name	type
Name space	lido
Definition	Indicates the type of the information to which the attribute is attached.
Value	Free text.

Example:

```
<lido:workID lido:type="Inventory Number">
  E.979.2.1
</lido:workID>
```

27.3 source

Name	source
Name space	lido
Definition	Indicates the source from which the information contained in the element comes.
Value	?????

27.4 lang

Name	lang
Name space	xml
Definition	Indicates the language used to specified the information.
Value	"fr", "en", "de", "nl", "it", "sv"... Should belong to a controlled list of language identifiers (RFC 3066).

Example:

```
<lido:classification>  
  <lido:term xml:lang="fr">  
    Clavecin  
  </lido:term>  
</lido:classification>
```