

LIDO - Lightweight Information Describing Objects

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ARTstor, Bildarchiv Foto Marburg, Collections Trust, Deutscher Museumsbund - Fachgruppe Dokumentation, digiCULT Schleswig-Holstein, Institut für Museumsforschung (SMB-PK), J. Paul Getty Trust, Zuse-Institut Berlin

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Generated from TEI representation of LIDO schema:

Last Modified 2009-08-20

For further comments on revisions etc, see source XML file as above.

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XML Schema for Contributing Content to Cultural Heritage Repositories

ARTstor, Bildarchiv Foto Marburg, Collections Trust, Deutscher Museumsbund -
Fachgruppe Dokumentation, digiCULT Schleswig-Holstein, Institut für
Museumsforschung (SMB-PK), J. Paul Getty Trust, Zuse-Institut Berlin

LIDO current version: 2009-08-20: lido-v0.7.xsd

LIDO v0.7

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2009-08-20: version 0.7. This new schema version is proposed as common, single schema for contributing content to cultural heritage repositories. It meets the requirements articulated by CDWA Lite, museumdat and SPECTRUM

It includes additional concepts to cope with SPECTRUM requirements.

- created a fresh, or converted the following elements, to complex type XXXSet, with subelements displayXXX (repeatable for language variants) and XXX (optional, not repeatable; also a complex type):
 - actor
 - date
 - event
 - materialsTech
 - object
 - objectMeasurements
 - place
 - subject (was indexingSubject)
- changed content model of event (formerly indexingEventSet):
 - added roleInEvent
 - added eventName
 - modified date to eventDate
 - modified location to eventPlace
 - added eventMethod
 - made thingPresent into an instance of object
 - renamed eventRelated to relatedEvent, and made it an instance of relatedEventLink
- the actorInRole element has been created, representing an actor in context within an event, and containing the roleActor, attributionQualifierActor and extentActor elements which were in the previous actorSet, together with an actorSet element
- added placeClassification within place complex type

- displayIndexingSubject added to content model of indexingSubjectWrap to support unstructured content description
- indexingSubjectSet has been renamed to subject, and extended with a number of new elements:
 - subjectActor
 - subjectDate
 - subjectEvent
 - subjectPlace
 - subjectObject
- the inscriptions element within inscriptionsWrap is assigned to the new complex type "textType", which allows a type attribute to qualify text, e.g. to indicate that the text is a transcription of the inscription
- extended rightsWorkSet so that it contains:
 - rightsType
 - rightsDate
 - rightsHolder
 - creditLine
- provided a wrapper element rightsWorkWrap to contain rightsWorkSet for compatibility with other high-level wrapper elements
- improved modelling of relatedWorksWrap and relatedWorksSet so that multiple relationship types can be recorded

LIDO - Lightweight Information Describing Objects v0.6 / museumdat v1.6

Prepared for CDWA Lite/museumdat Working Group and Deutscher Museumsbund - Fachgruppe Dokumentation by: Regine Stein - Bildarchiv Foto Marburg (r.stein@fotomarburg.de), Axel Vitzthum - digiCULT Schleswig-Holstein (avitzthum@digicult.uni-kiel.de)

2009-07-20: version 0.6. This new schema version is drafted as common, single schema that meets the requirements articulated by CDWA Lite, museumdat and subsequent reviews

It is a substantial redesign and enhancement of the CDWA Lite and museumdat schemata based on:

- Recommendations of the CDWA Lite/museumdat Working Group
- Experiences and feedback after a two-year period of practical implementation and use
- Further CIDOC-CRM analysis

This includes

- modified element grouping, moving display elements to corresponding index elements:
 - objectClassificationWrap
 - Object / Work Type

- Classification
- objectIdentificationWrap
 - Title / Name (mandatory)
 - Inscriptions
 - Repository / Location
 - State / Edition
 - Object Description
 - Measurements
- eventWrap
 - eventSet
- objectRelationWrap
 - Subject Set
 - Related Works
- extended content model of event (formerly indexingEventSet):
 - added eventID
 - changed content model for eventType
 - moved culture element into eventSet
 - moved materials/technique element into eventSet
 - added thingRelated
 - added eventRelated
 - added eventDescription
- imported GML namespace
- changed content model of location:
 - added _GML element
 - added partOfLocation
- modified identifier handling:
 - introduced complex type identifier
 - replaced termsource/termsourceID attributes by proper, and repeatable identifier element (elements/sets restructured where necessary)
 - attached identifier element to concept level instead of term or name level (e.g. actorID instead of termsourceID for nameActor)
 - introduced identifier for lido element

History of the schema

museumdat - Harvesting Format for Providing Core Data from Museum Holdings

- museumdat is a harvesting format optimised for retrieval and publication, meant to deliver automatically core data to museum portals.
- museumdat is a CIDOC-CRM compatible generalisation of CDWA Lite - the schema specification is developed from CDWA Lite XML Schema.
- For further information see: <http://www.museumdat.org/index.php?In=en&t=home>

CDWA Lite: XML Schema Content for Contributing Records via the OAI Harvesting Protocol (Version 2.0)

- CDWA Lite is an XML schema to describe core records for works of art and material culture based on the Categories for the Description of Works of Art (CDWA) and Cataloging Cultural Objects: A Guide to Describing Cultural Works and Their Images (CCO).
- For further information see: http://www.getty.edu/research/conducting_research/standards/cdwa/cdwalite.html

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For museumdat: © 2006-2009 Deutscher Museumsbund - Fachgruppe Dokumentation, Bildarchiv Foto Marburg, digiCULT Schleswig-Holstein, Institut für Museumsforschung (SMB-PK), Zuse-Institut Berlin. Prepared for Deutscher Museumsbund - Fachgruppe Dokumentation by: Carlos Saro - Zuse Institute Berlin (saro@zib.de), Regine Stein - Bildarchiv Foto Marburg (r.stein@fotomarburg.de), Axel Vitzthum - digiCULT Schleswig-Holstein (avitzthum@digicult.uni-kiel.de)

For CDWA Lite: © 2005, 2006 ARTstor and J Paul Getty Trust. Prepared for ARTstor and the Getty Research Institute /J Paul Getty Trust by: Ameer Ahmed - ARTstor (aahmed@artstor.org), Joseph Shubitowski - Getty Research Institute (JShubitowski@getty.edu), Karim Boughida - Getty Research Institute (KBoughida@getty.edu)

1 Imports

The following schemas are imported into the lido schema:

1.1 Import: xml.xsd

Import properties

name	xml.xsd
schemaLocation	http://www.w3.org/2001/03/xml.xsd
namespace	http://www.w3.org/XML/1998/namespace

1.2 Import: feature.xsd

Import properties

name	feature.xsd
schemaLocation	http://schemas.opengis.net/gml/3.1.1/base/feature.xsd
namespace	http://www.opengis.net/gml

2 Global elements

The following elements are globally available within the lido schema:

2.1 Element: descriptiveMetadata

Element properties

name	descriptiveMetadata
-------------	---------------------

Content model

Element: objectClassificationWrap

Element properties

ref	lido:objectClassificationWrap
------------	-------------------------------

Element: objectIdentificationWrap

Element properties

ref	lido:objectIdentificationWrap
------------	-------------------------------

Element: eventWrap

Element properties

minOccurs	0
ref	lido:eventWrap

Element: objectRelationWrap

Element properties

minOccurs	0
ref	lido:objectRelationWrap

Attribute: lang

Attribute properties

use	required
ref	xml:lang

2.2 Element: administrativeMetadata

Element properties

name	administrativeMetadata
-------------	------------------------

Content model

Element: rightsWorkWrap

Definition

Information about rights management; may include copyright and other intellectual property statements required for use.

Element properties

maxOccurs	1
minOccurs	0
ref	lido:rightsWorkWrap

creditline to be included in refinement of rights element

Element: recordWrap

Element properties

ref	lido:recordWrap
------------	-----------------

Element: resourceWrap

Element properties

minOccurs	0
ref	lido:resourceWrap

Attribute: lang

Attribute properties

use	required
ref	xml:lang

2.3 Element: objectClassificationWrap

Definition

Wrapper for object classification information.

Element properties

name	objectClassificationWrap
-------------	--------------------------

Content model

Element: objectWorkTypeWrap

Element properties

ref lido:objectWorkTypeWrap

Element: classificationWrap

Element properties

minOccurs 0
ref lido:classificationWrap

2.4 Element: objectIdentificationWrap

Definition

Wrapper for identification information.

Element properties

name objectIdentificationWrap

Content model

Element: titleWrap

Element properties

ref lido:titleWrap

Element: inscriptionsWrap

Element properties

minOccurs 0
ref lido:inscriptionsWrap

Element: repositoryWrap

Element properties

minOccurs 0
ref lido:repositoryWrap

Element: displayStateEditionWrap

Element properties

minOccurs 0

ref lido:displayStateEditionWrap

Element: objectDescriptionWrap

Element properties

minOccurs 0
ref lido:objectDescriptionWrap

Element: objectMeasurementsWrap

Element properties

minOccurs 0
ref lido:objectMeasurementsWrap

2.5 Element: objectRelationWrap

Definition

Wrapper for related subjects or works information.

Element properties

name objectRelationWrap

Content model

Element: subjectWrap

Element properties

minOccurs 0
ref lido:subjectWrap

Element: relatedWorksWrap

Element properties

minOccurs 0
ref lido:relatedWorksWrap

2.6 Element: recordWrap

Definition

A wrapper for information about the record that contains the cataloguing information.

Element properties

name recordWrap

Content model

Element: recordID

Definition

A unique record identification in the contributor's (local) system.

Element properties

name	recordID
maxOccurs	unbounded
type	lido:identifier

Element: recordType

Element properties

name	recordType
type	lido:text

category?

Element: recordSource

Definition

The source of information in this record, generally the repository or other institution.

Element properties

name	recordSource
maxOccurs	unbounded
type	lido:legalBodyRef

Element: recordInfoSet

Element properties

maxOccurs	unbounded
minOccurs	0
ref	lido:recordInfoSet

2.7 Element: resourceWrap

Definition

A wrapper for image information. An identification of an image (visual surrogate) of the work, including digital images, slides, transparencies, photographs, and moving images, but excluding items that are considered works in their own right. For works such as drawings, prints, paintings, or photographs considered art, and other works

that themselves contain representations of other works, use Related Works and/or Subjects.

Element properties

name resourceWrap

Content model

Element: resourceSet

Element properties

maxOccurs unbounded
minOccurs 0
ref lido:resourceSet

2.8 Element: **appellationValue**

Definition

Appellations, e.g. titles, identifying phrases, or names given to an item. For complex works, series, or collections, the title may refer to a discrete unit within the larger entity (a print from a series, a photograph in a collection, a panel from a fresco cycle, a building within a temple complex) or it may identify only the larger entity (series, collection, cycle) itself.

Element properties

name appellationValue

v1.0: title

Content model

Extension

Extension properties

base xsd:string

Attribute: pref

Attribute properties

ref lido:pref

Attribute: type

Attribute properties

ref lido:type

Attribute: lang

Attribute properties

ref	xml:lang
------------	----------

Attribute: encodinganalog

Attribute properties

ref	lido:encodinganalog
------------	---------------------

Attribute: label

Attribute properties

ref	lido:label
------------	------------

2.9 Element: classificationWrap

Definition

A wrapper for classification information - terms used to categorize a work by grouping it together with other works on the basis of similar characteristics, including materials, form, shape, function, region of origin, cultural context, or historical or stylistic period. If the work is assigned to multiple classifications, repeat this element.

Element properties

name	classificationWrap
-------------	--------------------

Content model

Element: classification

Element properties

name	classification
maxOccurs	unbounded
minOccurs	0
type	lido:concept

2.10 Element: displayStateEditionWrap

Definition

A wrapper for Display State Editions

Element properties

name	displayStateEditionWrap
-------------	-------------------------

Content model

Element: displayState

Definition

Repeat this element only for language variants!

A description of the state of the work; used primarily for prints and other multiples

Element properties

name	displayState
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: displayEdition

Definition

Repeat this element only for language variants!

A description of the edition of the work; used primarily for prints and other multiples.

Element properties

name	displayEdition
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: sourceStateEdition

Definition

The published source of the state or edition information.

Element properties

name	sourceStateEdition
maxOccurs	unbounded
minOccurs	0
type	lido:text

2.11 Element: earliestDate

Definition

A year that broadly delimits the beginning of an implied date span

Element properties

name	earliestDate
-------------	--------------

Content model

Extension

Extension properties

base	xsd:string
-------------	------------

Attribute: source

Attribute properties

ref	lido:source
------------	-------------

Attribute: encodinganalog

Attribute properties

ref	lido:encodinganalog
------------	---------------------

Attribute: label

Attribute properties

ref	lido:label
------------	------------

2.12 Element: inscriptionsWrap

Definition

A wrapper for Inscription information. Holds descriptions or transcriptions of any distinguishing or identifying physical lettering, annotations, texts, markings, or labels that are affixed, applied, stamped, written, inscribed, or attached to the work, excluding any mark or text inherent in the materials of which the work is made (record watermarks in Display Materials/Techniques).

Element properties

name	inscriptionsWrap
-------------	------------------

Content model

Element: inscriptions

Element properties

name	inscriptions
maxOccurs	unbounded
minOccurs	0

type lido:textType

2.13 Element: latestDate

Definition

A year that broadly delimits the end of an implied date span.

Element properties

name latestDate

Content model

Extension

Extension properties

base xsd:string

Attribute: source

Attribute properties

ref lido:source

Attribute: encodinganalog

Attribute properties

ref lido:encodinganalog

Attribute: label

Attribute properties

ref lido:label

2.14 Element: measurementsSet

Definition

The dimensions or other measurements for one aspect of a work (e.g., width); may be combined with extent, qualifier, and other sub-elements as necessary.

Element properties

name measurementsSet

Attribute: unit

Attribute properties

use required

type	xsd:string
name	unit

Attribute: type**Attribute properties**

use	required
ref	lido:type

Attribute: value**Attribute properties**

use	required
type	xsd:string
name	value

Attribute: encodinganalog**Attribute properties**

ref	lido:encodinganalog
------------	---------------------

Attribute: label**Attribute properties**

ref	lido:label
------------	------------

2.15 Element: objectDescriptionWrap

Definition

A wrapper for Description/Descriptive Note information.

Element properties

name	objectDescriptionWrap
-------------	-----------------------

Content model**Element: objectDescriptionSet****Element properties**

name	objectDescriptionSet
maxOccurs	unbounded
minOccurs	0
type	lido:descriptiveNote

2.16 Element: objectMeasurementsWrap

Definition

A wrapper for the Measurements.

Element properties

name	objectMeasurementsWrap
-------------	------------------------

Content model

Element: objectMeasurementsSet

Element properties

name	objectMeasurementsSet
maxOccurs	unbounded
minOccurs	0
type	lido:objectMeasurementsSet

2.17 Element: objectWorkTypeWrap

Definition

A wrapper for Object/Work Types. Object Work Types are terms identifying the specific kind of object or work being described. For a collection, include repeating instances for terms identifying all of or the most important items in the collection.

Element properties

name	objectWorkTypeWrap
-------------	--------------------

Content model

Element: objectWorkType

Element properties

name	objectWorkType
maxOccurs	unbounded
type	lido:concept

2.18 Element: relatedWorksWrap

Definition

A wrapper for Related Works information.

Element properties

name relatedWorksWrap

Content model

Element: relatedWorksSet

Element properties

maxOccurs unbounded
minOccurs 0
ref lido:relatedWorksSet

2.19 Element: repositorySet

Definition

A wrapper for the repository name.

Element properties

name repositorySet

Content model

Element: repositoryName

Element properties

name repositoryName
minOccurs 0
type lido:legalBodyRef

Element: workID

Element properties

maxOccurs unbounded
minOccurs 0
ref lido:workID

Element: repositoryLocation

Element properties

name repositoryLocation
minOccurs 0
type lido:place

replaces v1.0 repositoryLocationName

Attribute: repositoryType**Attribute properties**

name	repositoryType
-------------	----------------

Restriction**Restriction properties**

base	xsd:string
-------------	------------

enumeration

- current
- former

2.20 Element: repositoryWrap**Definition**

Wrapper for Repository information.

Element properties

name	repositoryWrap
-------------	----------------

Content model

Element: repositorySet

Element properties

maxOccurs	unbounded
minOccurs	0
ref	lido:repositorySet

2.21 Element: sourceAppellation**Definition**

The source for the appellation, generally a published source.

Element properties

name	sourceAppellation
-------------	-------------------

v1.0: sourceTitle

Content model

Extension

Extension properties

base xsd:string

Attribute: lang

Attribute properties

ref xml:lang

Attribute: encodinganalog

Attribute properties

ref lido:encodinganalog

Attribute: label

Attribute properties

ref lido:label

2.22 Element: titleWrap

Definition

Wrapper for Title information.

Element properties

name titleWrap

Content model

Element: titleSet

Element properties

name titleSet
maxOccurs unbounded
type lido:appellation

2.23 Element: vitalDatesActor

Definition

A description of the lifespan of the person or the existence of the corporate body, using "ca." and any other expressions of uncertainty or nuance. For Birth and Death

date attributes, record years of birth and death, estimated where necessary. For a corporate body, use birthdate and deathdate to record the dates of founding and dissolution.

Element properties

name vitalDatesActor

Content model

Extension

Extension properties

base xsd:string

Attribute: birthDate

Attribute properties

type xsd:string
name birthDate

Attribute: deathDate

Attribute properties

type xsd:string
name deathDate

Attribute: source

Attribute properties

ref lido:source

Attribute: encodinganalog

Attribute properties

ref lido:encodinganalog

Attribute: label

Attribute properties

ref lido:label

2.24 Element: workID

Definition

Any unique numeric or alphanumeric identifier(s) assigned to a work by a repository.

Element properties

name	workID
-------------	--------

Content model

Extension

Extension properties

base	xsd:string
-------------	------------

Attribute: type

Attribute properties

ref	lido:type
------------	-----------

Attribute: encodinganalog

Attribute properties

ref	lido:encodinganalog
------------	---------------------

Attribute: label

Attribute properties

ref	lido:label
------------	------------

2.25 Element: recordInfoSet

Definition

Wrapper for metadata information about this record.

Element properties

name	recordInfoSet
-------------	---------------

Content model

Element: recordInfoID

Element properties

name	recordInfoID
maxOccurs	unbounded
minOccurs	0
type	lido:identifier

Element: recordInfoLink

Definition

Link of the metadata (not the same as link of the object).

Element properties

name	recordInfoLink
maxOccurs	unbounded
minOccurs	0
type	lido:webResource

Element: recordRelID

Definition

Unique ID of the metadata of the related object.

Element properties

name	recordRelID
maxOccurs	unbounded
minOccurs	0
type	lido:identifier

Element: recordMetadataLoc

Definition

Pointer(s) to other metadata (administrative, technical, structural).

Element properties

name	recordMetadataLoc
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: recordMetadataDate

Definition

Creation date or date modified.

Element properties

name	recordMetadataDate
maxOccurs	unbounded
minOccurs	0
type	lido:text

Attribute: type

Attribute properties

ref	lido:type
-----	-----------

2.26 Element: resourceSet

Definition

A wrapper for sets of resource information. If there are multiple resources associated with the object, repeat the Resource Set sub-element.

Element properties

name	resourceSet
------	-------------

Content model

Element: linkResource

Element properties

name	linkResource
maxOccurs	unbounded
minOccurs	0
type	lido:webResource

Element: resourceID

Element properties

name	resourceID
minOccurs	0
type	lido:identifier

Element: resourceRelType

Definition

The relationship of an image or other resource to the work being described.

Element properties

name	resourceRelType
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: resourceType

Definition

The generic identification of the medium of the image or other resource.

Element properties

name	resourceType
maxOccurs	unbounded
minOccurs	0
type	lido:term

Element: rightsResource

Definition

Information about rights regarding the image or other resource. Use this sub-element if the holder of the reproduction rights for the image/resource differs from the holder of rights for the work. See also Rights Work above. (E.g., the work rights are " National Museum of African Art, Smithsonian Institution (Washing DC), " but the image rights are "Photo Frank Khoury.")

Element properties

name	rightsResource
maxOccurs	unbounded
minOccurs	0
type	lido:rights

creditline to be included in refinement of rights element

Element: resourceViewDescription

Definition

A description of the spatial, chronological, or contextual aspects of the work as captured in the view of this particular image or other resource.

Element properties

name	resourceViewDescription
minOccurs	0
type	lido:text

Element: resourceViewType

Definition

The specific vantage point or perspective of the view.

Element properties

name	resourceViewType
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: resourceViewSubjectTerm

Definition

Terms or phrases that characterize the subject matter of the work as it is depicted in a specific image or other resource.

Element properties

name	resourceViewSubjectTerm
maxOccurs	unbounded
minOccurs	0
type	lido:conceptType

Element: resourceViewDate

Element properties

minOccurs	0
ref	lido:resourceViewDate

Element: resourceSource

Definition

Identification of the agency, individual, repository, or publication from which the image or other resource was obtained, including a bibliographic citation in the case of copy photography. Include this sub-element when the source of the image/resource differs from the source named in Record Source.

Element properties

name	resourceSource
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: linkRelatedResource

Element properties

maxOccurs	unbounded
minOccurs	0
ref	lido:linkRelatedResource

Element: resourceMetadataLoc

Definition

Pointer(s) to other metadata (administrative, technical, structural).

Element properties

name	resourceMetadataLoc
maxOccurs	unbounded
minOccurs	0
type	lido:text

2.27 Element: resourceViewDate

Definition

A date or range of dates associated with the creation or production of the image. This is not necessarily the same as the date of production of the resource (e.g., a print of a negative may be made years after the image was first captured on film). For the date of the resource, use Resource Date.

Element properties

name	resourceViewDate
-------------	------------------

Content model

Extension

Extension properties

base	xsd:string
-------------	------------

Attribute: earliestdate

Attribute properties

type	xsd:string
name	earliestdate

Attribute: latestdate

Attribute properties

type	xsd:string
name	latestdate

Attribute: encodinganalog

Attribute properties

ref	lido:encodinganalog
------------	---------------------

Attribute: label

Attribute properties

ref

lido:label

2.28 Element: linkRelatedResource

Definition

A reference to an image or other resource that is related to the resource in this Resource Set, generally linking a group or collection of images or other resources to members of the group or collection. For multiple related resources, repeat this element.

Element properties

name linkRelatedResource

Content model

Element: relatedResourceRelType

Definition

A term describing the nature of the relationship between the resource at hand and the related resource.

Element properties

name relatedResourceRelType
minOccurs 0
type lido:text

Element: labelRelatedResource

Definition

An identification of the related image or other resource that will be meaningful to end-users.

Element properties

name labelRelatedResource
maxOccurs unbounded
minOccurs 0
type lido:text

Attribute: linkscheme

Attribute properties

ref	lido:linkscheme
-----	-----------------

2.29 Element: rightsWorkSet

Definition

Information about rights management; may include copyright and other intellectual property statements required for use.

Element properties

name	rightsWorkSet
------	---------------

Content model

Element: rightsType

Element properties

name	rightsType
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: rightsDate

Element properties

name	rightsDate
maxOccurs	unbounded
minOccurs	0
type	lido:date

Element: rightsHolder

Element properties

name	rightsHolder
maxOccurs	unbounded
minOccurs	0
type	lido:legalBodyRef

2.30 Element: rightsWorkWrap

Definition

Wrapper for rights information.

Element properties

name rightsWorkWrap

Content model

Element: rightsWorkSet

Element properties

name	rightsWorkSet
maxOccurs	unbounded
minOccurs	0
type	lido:rights

2.31 Element: eventWrap

Definition

A wrapper for a number of event descriptions.

Element properties

name eventWrap

Content model

Element: eventSet

Element properties

name	eventSet
maxOccurs	unbounded
minOccurs	0
type	lido:eventSet

2.32 Element: relatedWorksSet

Definition

A set of Related Works information.

Element properties

name relatedWorksSet

Content model

Element: relatedWork

Element properties

name	relatedWork
maxOccurs	unbounded
minOccurs	0
type	lido:objectSet

Element: relatedWorkRelType

Definition

A term describing the nature of the relationship between the work at hand and the related entity.

Element properties

name	relatedWorkRelType
minOccurs	0
type	lido:text

2.33 Element: subjectWrap

Definition

A wrapper for Subject Indexing information about the work, group, collection, or series that is being catalogued.

Element properties

name	subjectWrap
-------------	-------------

Content model

Element: subjectSet

Element properties

maxOccurs	unbounded
minOccurs	0
ref	lido:subjectSet

2.34 Element: subjectSet

Definition

A single set of subject indexing information, together with its textual equivalent.

Element properties

name subjectSet

Content model

Element: displaySubject

Definition

A free-text description of the subject matter represented by/in the object.

Repeat this element only for language variants!

Element properties

name displaySubject
maxOccurs unbounded
minOccurs 0
type lido:text

Element: subject

Element properties

maxOccurs unbounded
minOccurs 0
ref lido:subject

2.35 Element: subject

Definition

A wrapper for one set of Subject Indexing information. If a work has multiple parts or otherwise has separate, multiple subjects, repeat this element with Extent Subject. This element may also be repeated to distinguish between subjects that reflect what a work is **of** (description and identification) from what it is **about** (interpretation).

[At present the content model consists largely of elements, but we agreed that these should mostly be complex types. This requires the elements in question to be re-defined as complex types.]

Element properties

name subject

Content model

Element: extentSubject

Definition

When there are multiple subjects, a term indicating the part of the work to which these subject terms apply.

Element properties

name	extentSubject
minOccurs	0
type	lido:text

Element: subjectConcept

Element properties

name	subjectConcept
maxOccurs	unbounded
minOccurs	0
type	lido:conceptType

Element: subjectActor

Element properties

name	subjectActor
maxOccurs	unbounded
minOccurs	0
type	lido:actorSet

Element: subjectDate

Element properties

name	subjectDate
maxOccurs	unbounded
minOccurs	0
type	lido:dateSet

Element: subjectEvent

Element properties

name	subjectEvent
maxOccurs	unbounded
minOccurs	0
type	lido:eventSet

Element: subjectPlace

Element properties

name	subjectPlace
maxOccurs	unbounded
minOccurs	0
type	lido:placeSet

Element: subjectObject

Element properties

name	subjectObject
maxOccurs	unbounded
minOccurs	0
type	lido:objectSet

Attribute: type

Attribute properties

ref	lido:type
------------	-----------

2.36 Element: category

Definition

CIDOC CRM domain of the described item.

Preferably the source attribute refers to a CRM RDF version, e.g. http://cidoc.ics.forth.gr/rdfs/cidoc_crm_v5.0.1.rdfs

Element properties

name	category
-------------	----------

Content model

Extension

Extension properties

base	xsd:string
-------------	------------

Attribute: ref

Attribute properties

ref	lido:source
------------	-------------

2.37 Element: lidoWrap

Definition

Holds a collection of lido records

Element properties

name	lidoWrap
-------------	----------

Content model

Element: lido

Element properties

maxOccurs	unbounded
ref	lido:lido

Attribute: relatedencoding

Attribute properties

type	xsd:string
name	relatedencoding

2.38 Element: lido

Definition

Holds the metadata for an item

Element properties

name	lido
-------------	------

Content model

Element: lidoRecID

Definition

A unique lido record identification, preferably composed of an identifier for the contributor and a record identification in the contributor's (local) system.

Element properties

name	lidoRecID
maxOccurs	unbounded
type	lido:identifier

Element: category

Definition

The CRM category of which this item is an instance.

Element properties

minOccurs	0
ref	lido:category

Element: descriptiveMetadata

Definition

For fully multi-lingual resources, repeat this element once for each language represented.

Element properties

maxOccurs	unbounded
ref	lido:descriptiveMetadata

Element: administrativeMetadata

Definition

For fully multi-lingual resources, repeat this element once for each language represented.

Element properties

maxOccurs	unbounded
ref	lido:administrativeMetadata

3 Complex types

The following complex types are globally available within the lido schema:

3.1 Complex type: eventSet

Definition

Wrapper for any event-mediated information.

Content model

Element: displayEvent

Definition

Repeat this element only for language variants!

Element properties

name	displayEvent
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: event

Element properties

name	event
minOccurs	0
type	lido:event

3.2 Complex type: actorSet

Definition

Complex type for actor information. If there are multiple actors, repeat actorSet.

v1.0: indexingActorSet

Content model

Element: displayActor

Definition

Repeat this element only for language variants!

The name, brief biographical information, and roles (if necessary) of the named actors, 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

Element properties

name	displayActor
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: actor

Element properties

name	actor
minOccurs	0
type	lido:actor

3.3 Complex type: dateSet

Definition

A wrapper for one set of years in the proleptic Gregorian calendar delimiting the span of time during which the described event took place.

Content model

Element: displayDate

Definition

Repeat this element only for language variants!

A concise description of the date or range of dates associated with the event, presented in a syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance.

Element properties

name	displayDate
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: date

Element properties

name	date
minOccurs	0
type	lido:date

3.4 Complex type: materialsTech

Definition

Materials and techniques; if multiple parts of the work require separate materials and techniques, or if you are recording media and support separately, repeat this element qualifying the extent sub-element.

Content model

Element: termMaterialsTech

Element properties

name	termMaterialsTech
maxOccurs	unbounded
minOccurs	0
type	lido:conceptType

Element: extentMaterialsTech

Definition

An explanation of the part of the work to which the materials or technique are applicable; included when necessary for clarity.

Element properties

name	extentMaterialsTech
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: sourceMaterialsTech

Definition

The source of the information about materials and technique, often used when citing a published source of watermarks.

Element properties

name	sourceMaterialsTech
maxOccurs	unbounded
minOccurs	0
type	lido:text

3.5 Complex type: term

Content model

Extension

Extension properties

base xsd:string

Attribute: pref

Attribute properties

ref lido:pref

Attribute: addedSearchTerm

Attribute properties

ref lido:addedSearchTerm

Attribute: lang

Attribute properties

ref xml:lang

Attribute: encodinganalog

Attribute properties

ref lido:encodinganalog

Attribute: label

Attribute properties

ref lido:label

3.6 Complex type: event

Definition

Complex type for one event related with the work and its related information. If there is more than one event described, repeat the Event Set element.

Content model

Element: eventID

Element properties

name	eventID
maxOccurs	unbounded
minOccurs	0
type	lido:identifier

Element: eventType

Definition

Qualifier of the event, e.g. creation, discovery, ... Data values to be controlled.
Recommended: Defined list of subclasses of CRM entity E5 Event.

Element properties

name	eventType
type	lido:concept

Element: roleInEvent

Definition

The role played within this event by the object being recorded. This is an instance of CRM property P16.1 mode of use.

Element properties

name	roleInEvent
maxOccurs	unbounded
minOccurs	0
type	lido:concept

Element: eventName

Element properties

name	eventName
maxOccurs	unbounded
minOccurs	0
type	lido:appellation

Element: eventActor

Element properties

name	eventActor
maxOccurs	unbounded
minOccurs	0
type	lido:actorInRoleSet

Element: culture

Element properties

name	culture
maxOccurs	unbounded
minOccurs	0
type	lido:concept

Element: eventDate

Element properties

name	eventDate
minOccurs	0
type	lido:dateSet

Element: eventPlace

Element properties

name	eventPlace
minOccurs	0
type	lido:placeSet

Element: eventMethod

Definition

The method by which the event is carried out. Used e.g. for SPECTRUM Units of Information "field collection method", "acquisition method".

Element properties

name	eventMethod
maxOccurs	1
minOccurs	0
type	lido:concept

Element: eventMaterialsTech

Element properties

name	eventMaterialsTech
maxOccurs	unbounded
minOccurs	0
type	lido:materialsTechSet

Element: thingPresent

Element properties

name	thingPresent
maxOccurs	unbounded
minOccurs	0

type lido:objectSet

Element: relatedEvent

Definition

An event which is linked in some way to this event, e.g. a field trip within which this object was collected.

Element properties

name	relatedEvent
maxOccurs	unbounded
minOccurs	0
type	lido:eventSet

Element: eventDescriptionSet

Element properties

name	eventDescriptionSet
maxOccurs	unbounded
minOccurs	0
type	lido:descriptiveNote

v1.0: indexingEventSet

3.7 Complex type: identifier

Definition

There is no controlled list of identifier types. Suggested values include, but are not limited to the following:

- 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)
- local
- permalink
- purl (Persistent Uniform Resource Locator)
- url (Uniform Resource Locator)
- urn (Uniform Resource Name)

Content model

Extension

Extension properties

base xsd:string

Attribute: pref

Attribute properties

ref lido:pref

Attribute: type

Attribute properties

use required
ref lido:type

Attribute: source

Attribute properties

ref lido:source

Attribute: encodinganalog

Attribute properties

ref lido:encodinganalog

Attribute: label

Attribute properties

ref lido:label

3.8 Complex type: legalBodyRef

Definition

Reference information to a legal body

Content model

legalBodyID is identifier for actor as instance of E39 Actor, legalBodyName holds identifier for the name as instance of E82 Actor Appellation

Element: legalBodyID

Element properties

name	legalBodyID
maxOccurs	unbounded
minOccurs	0
type	lido:identifier

Element: legalBodyName

Element properties

name	legalBodyName
maxOccurs	unbounded
minOccurs	0
type	lido:appellation

Element: legalBodyWeblink

Element properties

name	legalBodyWeblink
maxOccurs	unbounded
minOccurs	0
type	lido:webResource

3.9 Complex type: text

Definition

Simple text element with encodinganalog and label attribute

Content model

Extension

Extension properties

base	xsd:string
-------------	------------

Attribute: lang

Attribute properties

ref	xml:lang
------------	----------

Attribute: encodinganalog

Attribute properties

ref	lido:encodinganalog
------------	---------------------

Attribute: label

Attribute properties

ref lido:label

3.10 Complex type: webResource

Definition

A uri/url reference to a web resource that describes / represents the item, e.g. a metadata record. Note that it differs from an identifier for the item itself.

Content model

Extension

Extension properties

base xsd:string

Attribute: pref

Attribute properties

ref lido:pref

Attribute: lang

Attribute properties

ref xml:lang

Attribute: formatResource

Attribute properties

type xsd:string
name formatResource

3.11 Complex type: placeSet

Definition

A wrapper for a place description and index terms.

Content model

Element: displayPlace

Definition

Repeat this element only for language variants!

Element properties

name	displayPlace
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: place

Element properties

name	place
minOccurs	0
type	lido:place

3.12 Complex type: appellation

Definition

Wrapper for a name for the item, e.g. a title, and its related information. If there is more than one name, repeat the Appellation element.

Content model

Element: appellationValue

Element properties

ref	lido:appellationValue
------------	-----------------------

v1.0: title

Element: sourceAppellation

Element properties

maxOccurs	unbounded
minOccurs	0
ref	lido:sourceAppellation

v1.0: sourceTitle

v1.0: titleSet

3.13 Complex type: descriptiveNote

Content model

Element: descriptiveNoteValue

Element properties

name	descriptiveNoteValue
minOccurs	0
type	lido:text

Element: sourceDescriptiveNote

Element properties

name	sourceDescriptiveNote
maxOccurs	unbounded
minOccurs	0
type	lido:text

Attribute: type

Attribute properties

ref	lido:type
------------	-----------

3.14 Complex type: place

Definition

An index set for the place name - only to repeat for indexing purposes (import of broader place entities).

An event can take place only in one place!

Content model

placeID is identifier for place as instance of E53 Place

Element: placeID

Element properties

name	placeID
maxOccurs	unbounded
minOccurs	0
type	lido:identifier

Element: namePlaceSet

Definition

The name of the geographic place where the event took place. If there are different names of the same place, e.g. today's and historical names, repeat this element.

Element properties

name	namePlaceSet
maxOccurs	unbounded
minOccurs	0
type	lido:appellation

Element: _GML

Definition

GML-conformant Content, instantiation to be included

Element properties

minOccurs	0
ref	gml:_GML

Element: partOfPlace

Definition

Allows for indexing larger geographical entities.

Element properties

name	partOfPlace
maxOccurs	unbounded
minOccurs	0
type	lido:place

Element: placeClassification

Definition

A classification of the place, e.g. by geological complex, stratigraphic unit or habitat type.

Element properties

name	placeClassification
maxOccurs	unbounded
minOccurs	0
type	lido:conceptType

Attribute: politicalEntity

Attribute properties

ref	lido:politicalEntity
-----	----------------------

Attribute: geographicalEntity

Attribute properties

ref	lido:geographicalEntity
-----	-------------------------

3.15 Complex type: concept

Definition

Set for identifiers and terms of a concept.

Used for: roleActor, culture, roleCulture

Content model

Element: conceptID

Element properties

name	conceptID
minOccurs	0
type	lido:identifier

Element: term

Element properties

name	term
maxOccurs	unbounded
minOccurs	0
type	lido:term

3.16 Complex type: conceptType

Definition

Set for identifiers and terms of a concept, qualified by a type.

Used for: materialsTech, subject, placeClassification, conceptTerm, iconography, eventName, personalName, corporateBodyName, geographicName

Content model

Element: conceptID

Element properties

name	conceptID
minOccurs	0
type	lido:identifier

Element: term

Element properties

name	term
maxOccurs	unbounded
minOccurs	0
type	lido:term

Attribute: type

Attribute properties

ref	lido:type
------------	-----------

3.17 Complex type: textType

Definition

Text element with encodinganalog, label and type attribute

Content model

Extension

Extension properties

base	xsd:string
-------------	------------

Attribute: lang

Attribute properties

ref	xml:lang
------------	----------

Attribute: encodinganalog

Attribute properties

ref	lido:encodinganalog
------------	---------------------

Attribute: label

Attribute properties

ref	lido:label
------------	------------

Attribute: type

Attribute properties

name	type
type	xsd:string

3.18 Complex type: rights

Definition

Information about rights management; may include copyright and other intellectual property statements required for use.

Content model

Element: rightsType

Element properties

name	rightsType
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: rightsDate

Element properties

name	rightsDate
maxOccurs	unbounded
minOccurs	0
type	lido:date

Element: rightsHolder

Element properties

name	rightsHolder
maxOccurs	unbounded
minOccurs	0
type	lido:legalBodyRef

Element: creditLine

Definition

Repeat this element only for language variants.

Element properties

name	creditLine
maxOccurs	unbounded
minOccurs	0
type	lido:text

3.19 Complex type: objectSet

Definition

An object which is related in some way to the work being documented.

Content model

Element: displayObject

Definition

Repeat this element only for language variants!

Element properties

name	displayObject
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: object

Element properties

name	object
maxOccurs	1
minOccurs	0
type	lido:object

v1.0 relatedWorkSet: linkRelatedWork -> relatedItemWebresource,
locRelatedWork deprecated

3.20 Complex type: actor

Definition

Complex type for indexing actor information. If there are multiple actors, repeat the containing actor element.

v1.0: indexingActorSet

Content model

actorID is identifier for actor as instance of E39 Actor

Element: actorID

Element properties

name	actorID
maxOccurs	unbounded
minOccurs	0
type	lido:identifier

Element: nameActorSet

Definition

The names, appellations, or other identifiers assigned to an individual, group of people, firm or other corporate body, or other entity that has contributed to the design, creation, production, manufacture, or alteration of the work.

Element properties

name	nameActorSet
maxOccurs	unbounded
type	lido:appellation

Element: nationalityActor

Element properties

name	nationalityActor
maxOccurs	unbounded
minOccurs	0
type	lido:concept

Element: vitalDatesActor

Element properties

maxOccurs	1
minOccurs	0
ref	lido:vitalDatesActor

Element: genderActor

Definition

The sex of the individual. Not applicable for corporate bodies.

Element properties

name	genderActor
-------------	-------------

minOccurs	0
type	lido:text

Attribute: actorType

Attribute properties

name	actorType
-------------	-----------

Restriction

Restriction properties

base	xsd:string
-------------	------------

enumeration

- person
- corporation
- group

3.21 Complex type: date

Definition

A wrapper for one set of years in the proleptic Gregorian calendar delimiting the span of time during which the described event took place. If the event took place in a single year, repeat the same year in earliest and latest dates. For ca. and other uncertain or approximate dates, estimate the greatest possible span for indexing, as recommended in CCO and CDWA. But if e.g. different parts of the work were done at different times, or if different activities in the production of the work were done at different times, repeat the containing event element.

Replaces v1.0: indexingDates

Content model

Element: earliestDate

Element properties

ref	lido:earliestDate
------------	-------------------

Element: latestDate

Element properties

ref	lido:latestDate
------------	-----------------

Element: periodName

Definition

A period name defining the range of dates associated with the event.

Element properties

name	periodName
maxOccurs	1
minOccurs	0
type	lido:concept

3.22 Complex type: object

Definition

Indexing terms for an object which is related in some way to the work being documented.

Content model

Element: objectWebResource

Element properties

name	objectWebResource
maxOccurs	unbounded
minOccurs	0
type	lido:webResource

Element: objectID

Element properties

name	objectID
maxOccurs	unbounded
minOccurs	0
type	lido:identifier

Element: objectNote

Definition

A descriptive identification of the object that will be meaningful to end-users, including some or all of the following information, as necessary for clarity and if known: title, object/work type, important actor, date and/or place information, potentially place of the object.

Element properties

name	objectNote
maxOccurs	unbounded

minOccurs	0
type	lido:text

v1.0 relatedWorkSet: linkRelatedWork -> relatedItemWebresource, locRelatedWork deprecated

3.23 Complex type: materialsTechSet

Definition

Materials and techniques.

Content model

Element: displayMaterialsTech

Definition

Repeat this element only for language variants!

An indication of the substances or materials used in the creation of a work, as well as any implements, production or manufacturing techniques, processes, or methods incorporated in its fabrication, presented in a syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance. For works on paper, descriptions of watermarks may also be included. (For marks applied to the work or support by the artist or subsequently by another person, see Inscriptions.)

Element properties

name	displayMaterialsTech
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: materialsTech

Element properties

name	materialsTech
maxOccurs	1
minOccurs	0
type	lido:materialsTech

3.24 Complex type: objectMeasurements

Definition

The dimensions, size, shape, scale, format, or storage configuration of the work, including volume, weight, area or running time. Measurements are formatted to allow

retrieval; preferably in metric units where applicable; if multiple parts of the work are measured, repeat the Indexing Measurements element.

Content model

Element: measurementsSet

Element properties

maxOccurs	unbounded
minOccurs	0
ref	lido:measurementsSet

Element: extentMeasurements

Definition

An explanation of the part of the work being measured; included when necessary for clarity.

Element properties

name	extentMeasurements
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: qualifierMeasurements

Definition

A word or phrase that elaborates on the nature of the measurements of the work when necessary, as when the measurements are approximate.

Element properties

name	qualifierMeasurements
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: formatMeasurements

Definition

The configuration of a work, including technical formats, used as necessary.

Element properties

name	formatMeasurements
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: shapeMeasurements

Definition

The shape of a work, used for unusual shapes (e.g., an oval painting).

Element properties

name	shapeMeasurements
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: scaleMeasurements

Definition

An expression of the ratio between the size of the representation of something and that thing (e.g., the size of the drawn structure and the actual built work). Used for studies, record drawings, models, and other representations drawn or constructed to scale.

Element properties

name	scaleMeasurements
maxOccurs	unbounded
minOccurs	0
type	lido:text

3.25 Complex type: objectMeasurementsSet

Definition

The dimensions, size, shape, scale, format, or storage configuration of the work, including volume, weight, area or running time. Measurements are formatted to allow retrieval; preferably in metric units where applicable; if multiple parts of the work are measured, repeat the Indexing Measurements element.

Content model

Element: displayObjectMeasurements

Definition

Repeat this element only for language variants!

Information about the dimensions, size, or scale of the work, presented in a syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance. It may include the scale of the work. It may also include the number of the parts of a complex work, series, or collection.

Element properties

name	displayObjectMeasurements
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: objectMeasurements

Element properties

name	objectMeasurements
maxOccurs	1
minOccurs	0
type	lido:objectMeasurements

3.26 Complex type: actorInRole

Definition

Element describing the role played by one or more actors in one event related to the work.

Content model

Element: actor

Element properties

name	actor
type	lido:actor

Element: roleActor

Element properties

name	roleActor
maxOccurs	unbounded
minOccurs	0
type	lido:concept

Element: attributionQualifierActor

Definition

A qualifier used when the attribution is uncertain, is in dispute, when there is more than one actor, when there is a former attribution, or when the attribution otherwise requires explanation.

Element properties

name	attributionQualifierActor
maxOccurs	unbounded

minOccurs	0
type	lido:text

Element: extentActor

Definition

When there are multiple actors in the same event, a term indicating the part this actor was involved in.

Element properties

name	extentActor
maxOccurs	unbounded
minOccurs	0
type	lido:text

v1.0: indexingEventSet

3.27 Complex type: actorInRoleSet

Definition

Complex type for information about an actor playing a role within an event. If there are multiple actors/roles, repeat actorInRoleSet.

v1.0: indexingActorSet

Content model

Element: displayActorInRole

Definition

Repeat this element only for language variants!

The role(s) and name, brief biographical information of the named actors, 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

Element properties

name	displayActorInRole
maxOccurs	unbounded
minOccurs	0
type	lido:text

Element: actorInRole

Element properties

name	actorInRole
-------------	-------------

minOccurs	0
type	lido:actorInRole

4 Global attributes

The following attributes are globally available to all elements within the lido schema:

4.1 Attribute: **encodinganalog**

Attribute properties

type	xsd:string
name	encodinganalog

4.2 Attribute: **geographicalEntity**

Attribute properties

type	xsd:string
name	geographicalEntity

4.3 Attribute: **addedSearchTerm**

Attribute properties

default	no
name	addedSearchTerm

Restriction

Restriction properties

base	xsd:string
-------------	------------

enumeration

- yes
- no

4.4 Attribute: **label**

Attribute properties

type	xsd:string
name	label

4.5 Attribute: **linkscheme**

Attribute properties

type	xsd:string
name	linkscheme

4.6 Attribute: politicalEntity

Attribute properties

type	xsd:string
name	politicalEntity

4.7 Attribute: pref

Attribute properties

name	pref
-------------	------

Restriction

Restriction properties

base	xsd:string
-------------	------------

enumeration

- preferred
- alternate

4.8 Attribute: source

Attribute properties

type	xsd:string
name	source

4.9 Attribute: type

Attribute properties

type	xsd:string
name	type