LIDO - Lightweight Information Describing Objects

Version 0.9

July 2010

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CIDOC Working Group Data Harvesting and Integration

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LIDO v0.9

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2010-07-15: version 0.9. This 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 is a substantial redesign and enhancement of the CDWA Lite and museumdat schemas based on recommendations of the CDWA Lite/museumdat Working Group, community feedback and further CIDOC-CRM analysis. It includes additional concepts to cope with SPECTRUM requirements.

For most recent information on LIDO please refer to: http://www.lido-schema.org

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LIDO – Lightweight Information Describing Objects

1 How to use this document

This guide to LIDO gives the user a number of ways to gain an understanding of the schema:

Global overview

Within the introduction section you will find the "Outline of LIDO" (section 2.2): It shows how the schema was designed and the semantic information groups it holds.

Hierarchical view

An XML schema is fundamentally hierarchical. Therefore it is naturally described in that way. The hierarchical view begins with:
- Global wrapper elements (section 3).

These are the major structural elements of a LIDO record.

Within these you will find the elements containing the main areas of information in a LIDO record:
- Object Classification elements (section 4);
- Object Identification elements (section 5);
- Event elements (section 6);
- Relation elements (section 7);
- Rights for Work elements (section 8);
- Record elements (section 9);
- Resource elements (section 10);

Each section provides an overview of the next sub-level which corresponds to the main semantic information groups of LIDO. Subsequently all these information groups are listed with their full sub-element hierarchy. Each entry in the hierarchical listing is a hyperlink to the respective element description in the alphabetical listing.

Alphabetical list of elements

Each element is listed with two parts:

A **Description** with:
- Short **title;**
- **General** scope note;
- **How to record** contents of the element;
- **Notes** (for some elements).

A **Technical** definition with:
- **Tag-name;**
- **Attributes** (with hyperlink to their descriptions);
- If **required** (within its super-element);
- If **repeatable;**
- **Super-elements** - those it can appear within (with hyperlinks);

- **Sub-elements** - those that can appear within it (with hyperlinks);
- **Used in elements** - for attribute definitions (with hyperlinks);
- **Equivalents** to the schemas on which LIDO is based: CDWA Lite, museumdat, and SPECTRUM. (Equivalent CIDOC-CRM paths will eventually be included as well.)

Practical hints for using PDF with the Adobe Acrobat Reader

Clicking on an element name (a hypertext link) in the hierarchical view in sections 3-10 will take you to the appropriate description in the alphabetical list of elements. To go back where you were in the hierarchical view you can use the

- **Alt + Left arrow** key combination.

In a similar way using the

- **Alt + Right arrow** key combination

will take you back to the alphabetical list of elements.

2 Introduction

2.1 Why LIDO?

Organizations need to provide information on their objects to many portals including thematic, cross domain, regional, national and international, and web applications. The difficulty is that the object information is in the providers' own collections management systems and cataloguing databases. Each of these has potentially a different metadata format. This means that it is both time-consuming and costly to integrate information from all those organizations wanting to participate. To overcome this situation LIDO has been developed.

2.2 Outline of LIDO

LIDO is a schema intended for delivering metadata, for use in a variety of online services, from an organization's online collections database to portals of aggregated resources, as well as exposing, sharing and connecting data on the web. LIDO is not intended to be used as a basis for a collection management system or to support loan and acquisition activities. Its strength lies in its ability to support the full range of descriptive information about museum objects. It can be used for all kinds of object, e.g. art, cultural, technology and natural science. It supports multilingual portal environments.

LIDO defines 14 groups of information of which only three are mandatory. This allows for as large a variety of completeness of information as possible. Organizations can decide which data they want provide to a portal and publish online.

It is made up of a nested set of 'wrapper' and 'set' elements which structure records in culturally significant ways. An important part of its design is the concept of events taken from the CIDOC CRM. For example the creation, collection, and use of an object are defined as events that have associated entities such as dates, places and actors. These can all be represented in a consistent way.

LIDO also allows an organization to provide (in different parts of the schema):
● Indexing information – optimized for searching and retrieval;
● Display information – optimized for presenting information online to the user of the portal.

The structural elements of LIDO contain 'data elements' which hold the information that is being harvested and is delivered to the user of the service environment.

LIDO also allows the recording of information about the sources for data (e.g. in a book) and controlled terminology (e.g. the identification code for a term in a thesaurus).

Conceptually the information in a LIDO record is organized in 7 areas, of which 4 have descriptive and 3 administrative character:

Descriptive Information

Object Classification - information about the type of the object:

- Object type [mandatory];
- Other classification terms for the object – e.g. style, form, age, sex, phase, etc.

Object Identification - basic information about the object:

- Title (or object name if no title) [mandatory];
- Inscriptions – transcript and/or description;
- Repository – the organizations that holds the physical object and its identifier;
- Display and edition information – especially for prints;
- Description – descriptive text;
- Measurements.

Event - events that the object has taken part in.

Of specific importance are: Acquisition, Creation, Finding, Modification, Use.

Further event types include: Collecting, Designing, Destruction, Excavation, Exhibition, Loss, Move, Order, Part addition, Part removal, Performance, Planning, Production, Provenance, Publication, Restoration, Transformation, Type assignment, Type creation.

For each event, register information, if relevant, about:

- Event ID;
- Event type;
- Object's role in the event;
- Event name;
- Actors (persons and organisations);
- Cultures involved;
- Date;
- Period;
- Places;
- Event method;
- Materials and techniques used;
- Other objects present at the event;
- Related events;
- Description of the event.

Relation - relations of the object to:

- Its subject (content or visual) – concepts, actors, events, dates, places, events, and objects;
- Other objects directly related to the object at hand.

Administrative Information

Rights Work - information about the rights associated with the object:

- Rights type;
- Rights holder;
- Rights dates;
- Credit line.

Record - basic information about the record:

- Record ID [mandatory];
- Record Type [mandatory];
- Record Source [mandatory];
- Record rights – of the metadata where different from the object;
- Metadata references for the presented information.

Resource - information about digital resource being supplied to the service environment:

- Link – URL of the resource;
- Resource ID;
- Relationship type – e.g. conservation, historical, reconstruction;
- Resource type – its medium (e.g. x-ray);
- Resource rights – of the resource where different from the object;
- View description;
- View type – vantage point of the resource;
- View date;
- Resource source – if not from the holding organisation;
- Related resources;
- Resource metadata location – pointer to other information about the resource.

2.3 History of the schema

LIDO is the result of a joint effort of the CDWA Lite, museumdat, SPECTRUM and CIDOC CRM communities. The schema combines the CDWA Lite and museumdat schemas and is informed by SPECTRUM concepts. It is CIDOC CRM compliant and can be used to submit information about of all kinds of cultural heritage objects.

CDWA Lite is an XML schema for encoding core records for works of art and material culture based on the data elements and guidelines in Categories for the Description of Works of Art (CDWA) and following the data content standard Cataloging Cultural Objects (CCO), provided by the J. Paul Getty Trust and ARTstor. It is intended as a low-barrier way to enable institutions to contribute their collections information to union catalogs using the Open Archives Initiatives Protocol for Metadata Harvesting (OAI/PMH). For more information see: http://getty.art.museum/research/conducting_research/standards/cdwa/cdwalite.html

museumdat is an XML schema, created by the Documentation Committee of the German Museums Association, which builds on CDWA Lite but goes beyond its focus on art. This is achieved by a reconfiguration of elements that uses the event-oriented multi-disciplinary

approach of the CIDOC Conceptual Reference Model. For more information see: http://www.museumdat.org/index.php?ln=en

CIDOC CRM provides definitions and a formal structure for describing the implicit and explicit concepts and relationships used in cultural heritage documentation. It is intended to be a common language for domain experts and implementers to formulate requirements for information systems and to serve as a guide for good practice of conceptual modeling. Work is carried out through the CIDOC CRM Special Interest Group. For more information see: http://www.cidoc-crm.org

SPECTRUM XML schema is based on the UK and international standard for collections management with the same name from the Collections Trust. It provides a format for exchanging object records between different collections management systems and aggregating data. For more information see: http://www.collectionstrust.org.uk/schema

2.4 Other Copyright Information

For LIDO:

© 2009-2010, ARTstor, Collections Trust, Deutscher Museumsbund - Fachgruppe Dokumentation, Deutsches Dokumentationszentrum für Kunstgeschichte - Bildarchiv Foto Marburg, digiCULT Schleswig-Holstein, Institut für Museumsforschung (SMB-PK), J. Paul Getty Trust, Zuse-Institut Berlin.

Prepared for the CIDOC Working Group Data Harvesting and Interchange, CDWA Lite/museumdat Working Group, Collections Trust and Deutscher Museumsbund - Fachgruppe Dokumentation by: Erin Coburn (ecoburn@getty.edu), Richard Light (richard@light.demon.co.uk), Gordon McKenna (gordon@collectionstrust.org.uk), Regine Stein (r.stein@fotomarburg.de), Axel Vitzthum (avitzthum@digicult.uni-kiel.de)

For museumdat:

© 2006-2009 Deutscher Museumsbund - Fachgruppe Dokumentation, Deutsches Dokumentationszentrum für Kunstgeschichte - Bildarchiv Foto Marburg, digiCULT Schleswig-Holstein, Institut für Museumsforschung (SMB-PK), Zuse-Institut Berlin.

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For CDWA Lite:

© 2005, 2006 ARTstor and J Paul Getty Trust.

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2.5 Acknowledgements

LIDO is the result of an international collaborative effort to create a common solution for contributing cultural heritage content to portals including thematic, cross domain, regional, national and international, and to other union resources and repositories.

The work began when a team of colleagues at the J. Paul Getty Trust and ARTstor set out to develop CDWA Lite, an XML schema for describing cultural materials and their visual surrogates to provide an easier and more sustainable model for contributing to union resources. It advanced with the Working Group Data Exchange of the German Museum Association's development of museumdat, a harvesting format optimized for retrieval and publication for delivering automatically core data to museum portals, which is a CIDOC CRM compatible generalization of CDWA Lite.

The process concluded with a charge from the CDWA Lite Advisory Committee to create a single schema that meets the requirements articulated by CDWA-Lite and museumdat, which resulted in LIDO, a joint effort of the CDWA Lite, museumdat, SPECTRUM and CIDOC CRM communities.

LIDO combines the CDWA Lite and museumdat schemas and is informed by SPECTRUM. Being CIDOC CRM compliant, it aims at contributing information of all kinds of cultural heritage objects for resource discovery.

Special thanks go to:
- Kenneth Hamma for his early leadership with CDWA Lite, and his sustained support over the years as developments with CDWA Lite manifested into what has today become LIDO;
- Regine Stein for recognizing the potential in CDWA Lite and leading efforts to expand upon its foundation to create museumdat, a schema more accommodating to natural and cultural history collections, and compliant with the international standard CIDOC CRM;
- All the international committees and working groups who diligently worked over the last few years to combine CDWA Lite and museumdat into the common solution LIDO, and expanded its meaning to include SPECTRUM and to make it compliant with CIDOC CRM.

The names of individuals who participated in efforts with LIDO, museumdat, and CDWA Lite are listed below with their respective working groups, committees, or the schemas they helped create. However there are a few people whose commitment to developing LIDO deserves mention: Erin Coburn, Robb Detlefs, Martin Doerr, Jay Hoffman, Monika Hagedorn-Saupe, Richard Light, Gordon McKenna, Regine Stein, Axel Vitzthum, and Bill Ying. Additional thanks to Rob Lancefield for conceiving the name LIDO (Lightweight Information Describing Objects).

Finally LIDO would not have been possible without the generous support of the institutions and organizations that allowed their staff to work on this international collaborative effort. Special thanks is given to those who hosted committee meetings or provided support for

convenings that advanced the development of LIDO: ATHENA Project, CIDOC, The Getty Foundation; Institut für Museumsforschung (SMB-PK); and The Museum Computer Network.

The information and activities that are related to LIDO are centralized under the Data Harvesting and Interchange Working Group in CIDOC. The Working Group serves as the source for the most up-to-date information about advancements with LIDO, and serve as a place to evaluate its progress, implementations and understanding within the greater community.

LIDO: Schema for Contributing Content to Cultural Heritage Repositories (Version 0.9)

CDWA Lite Advisory Committee

Erin Coburn, J. Paul Getty Museum;
Monika Hagedorn-Saupe, Institut für Museumsforschung SMB-PK – IfM;
Kenneth Hamma, Information Consultant to Non-Profit Collections;
Jay Hoffman, Gallery Systems;
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Jenn Riley, Indiana University;
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Dustin Wees, ARTstor.

CDWA Lite – museumdat Working Group

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The Documentation Committee of the German Museums Association; Working Group Data Exchange of the German Museum Association (DMB)

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Mikael Vakkari, National Board of Antiquities, Finland;
Axel Vitzthum, digicult Schleswig-Holstein;
Roxanne Wyns, Royal Museums of Art and History, Belgium.

museumdat – Harvesting Format for Providing Core Data from Museum Holdings (Version 1.0)

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Axel Vitzthum, digicult Schleswig-Holstein.

CDWA Lite: XML Schema Content for Contributing Records via the OAI Harvesting Protocol (Version 1.1)

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Erin Coburn, J. Paul Getty Museum;
Ted Dancescu, J. Paul Getty Trust;
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Kenneth Hamma, J. Paul Getty Trust;
Patricia Harpring, Getty Research Institute;
Deb Lenert, Getty Research Institute;
Eric Li, ARTstor;
Jack Ludden, J. Paul Getty Trust;
Emerson Morgan, ARTstor;
Joe Shubitowski, Getty Research Institute;
Dustin Wees, ARTstor;
Bill Ying, ARTstor.

3 Global wrapper elements

These define the first three levels of a LIDO XML document:

Wrapper for the whole document (lidoWrap)
    Wrapper for an object record (lido)
        (contents listed below)

Wrapper for an object record (lido)
    LIDO Metadata Record-ID (lidoRecID)
    Category (category)
        Concept Identifier (conceptID)
        Term / Label (term)
    Descriptive Metadata (descriptiveMetadata)
        (contents listed below)
    Administrative Metadata (administrativeMetadata)
        (contents listed below)

Descriptive Metadata (descriptiveMetadata)
    Object Classification Wrapper (objectClassificationWrap)
        (see Object Classification elements section)
    Object Identification Wrapper (objectIdentificationWrap)
        (see Object Identification elements section)
    Event Wrapper (eventWrap)
        (see Event elements section)
    Relation Wrapper (objectRelationWrap)
        (see Relation elements section)

Administrative Metadata (administrativeMetadata)
    Rights for Work Wrapper (rightsWorkWrap)
        (see Rights for Work elements section)
    Record Wrapper (recordWrap)
        (see Record elements section)
    Resource Wrapper (resourceWrap)
        (see Resource elements section)

4 Object Classification elements

All classifying information about an object / work, such as: object / work type, style, genre, form, age, sex, and phase, or by how holding organization structures its collection (e.g. fine art, decorative art, prints and drawings, natural science, numismatics, or local history).

Object Classification Wrapper (objectClassificationWrap)
    Object/Work Type Wrapper (objectWorkTypeWrap)
      (contents listed below)
    Classification Wrapper (classificationWrap)
      (contents listed below)

Object/Work Type Wrapper (objectWorkTypeWrap)
    Object/Work Type (objectWorkType)
      Concept Identifier (conceptID)
      Term / Label (term)

Classification Wrapper (classificationWrap)
    Classification (classification)
      Concept Identifier (conceptID)
      Term / Label (term)

5 Object Identification elements

Information that identifies an object / work, for example: names, descriptions, and repository information.

Object Identification Wrapper (objectIdentificationWrap)
    Title or Object Name Wrapper (titleWrap)
      (contents listed below)
    Inscriptions and other Marks Wrapper (inscriptionsWrap)
      (contents listed below)
    Custody/Repository Location (Wrapper) (repositoryWrap)
      (contents listed below)
    Display State/Edition Wrapper (displayStateEditionWrap)
      (contents listed below)
    Object Description/Descriptive Note Wrapper (objectDescriptionWrap)
      (contents listed below)
    Object Measurements Wrapper (objectMeasurementsWrap)
      (contents listed below)

Title or Object Name Wrapper (titleWrap)
    Title or Object Name Set (titleSet)
      Appellation Value (appellationValue)
      Source Appellation (sourceAppellation)

Inscriptions and other Marks Wrapper (inscriptionsWrap)
    Inscriptions (inscriptions)

Custody/Repository Location (Wrapper) (repositoryWrap)
    Custody/Repository Location Set (repositorySet)
      Custody: Institution / Person (repositoryName)
        Legal Body ID (legalBodyID)
        Legal Body Name (legalBodyName)
          Appellation Value (appellationValue)
          Source Appellation (sourceAppellation)
        Legal Body Weblink (legalBodyWeblink)
      Custody: Identification number (workID)
      Location (repositoryLocation)
        Place Identifier (placeID)
        Place Name Set (namePlaceSet)
          Appellation Value (appellationValue)
          Source Appellation (sourceAppellation)
        GML (gml)
        Part of Geographical Entity (partOfPlace)
          Place Identifier (placeID)
          Place Name Set (namePlaceSet)

        Appellation Value (appellationValue)
        Source Appellation (sourceAppellation)
    GML (gml)
    Part of Geographical Entity (partOfPlace)
        ... etc. (partOfPlace can contain itself)
    Place Classification (placeClassification)
        Concept Identifier (conceptID)
        Term / Label (term)
  Place Classification (placeClassification)
      Concept Identifier (conceptID)
      Term / Label (term)

Display State/Edition Wrapper (displayStateEditionWrap)

    Display State (displayState)
    Display Edition (displayEdition)
    Source Display State/Edition (sourceStateEdition)

Object Description/Descriptive Note Wrapper (objectDescriptionWrap)

    Description/Descriptive Note Set (objectDescriptionSet)
      Description/Descriptive Note (descriptiveNoteValue)
      Source Description/Descriptive Note (sourceDescriptiveNote)

Object Measurements Wrapper (objectMeasurementsWrap)

    Object Measurements Set (objectMeasurementsSet)
      Display Object Measurement (displayObjectMeasurements)
      Object Measurement (objectMeasurements)
        Measurements Set (measurementsSet)
        Extent Measurements (extentMeasurements)
        Qualifier Measurements (qualifierMeasurements)
        Format Measurements (formatMeasurements)
        Shape Measurements (shapeMeasurements)
        Scale Measurements (scaleMeasurements)

6 Event elements

Information about an event that an object / work took part for example its: creation / production, find, use, modification, and acquisition. Events have dates, places and actors associated with them.

Event Wrapper (eventWrap)
    Event Set (eventSet)
        Display Event (displayEvent)
        Event (event)
            Event Identifier (eventID)
            Event Type (eventType)
                Concept Identifier (conceptID)
                Term / Label (term)
            Role in Event (roleInEvent)
                Concept Identifier (conceptID)
                Term / Label (term)
            Event Name (eventName)
                Appellation Value (appellationValue)
                Source Appellation (sourceAppellation)
            Event Actor (eventActor)
                Display Actor in Role (displayActorInRole)
                Actor in Role (actorInRole)
                    Actor (actor)
                        Actor Identifier (actorID)
                        Name Actor Set (nameActorSet)
                            Appellation Value (appellationValue)
                            Source Appellation (sourceAppellation)
                        Nationality Actor (nationalityActor)
                            Concept Identifier (conceptID)
                            Term / Label (term)
                        Vital Dates Actor (vitalDatesActor)
                        Gender Actor (genderActor)
                    Role Actor (roleActor)
                        Concept Identifier (conceptID)
                        Term / Label (term)
                    Attribution Qualifier Actor (attributionQualifierActor)
                    Actor: Extent of participation (extentActor)
            Cultural context (culture)
                Concept Identifier (conceptID)
                Term / Label (term)
            Event Date (eventDate)
                Display Date (displayDate)
                Date (date)
                    Earliest Date (earliestDate)

      Latest Date (latestDate)
Period (periodName)
  Concept Identifier (conceptID)
  Term / Label (term)
Event Place (eventPlace)
  Display Place (displayPlace)
  Place (place)
    Place Identifier (placeID)
    Place Name Set (namePlaceSet)
      Appellation Value (appellationValue)
      Source Appellation (sourceAppellation)
    GML (gml)
    Part of Geographical Entity (partOfPlace)
      Place Identifier (placeID)
      Place Name Set (namePlaceSet)
        Appellation Value (appellationValue)
        Source Appellation (sourceAppellation)
      GML (gml)
      Part of Geographical Entity (partOfPlace)
        ... etc. (partOfPlace can contain itself)
      Place Classification (placeClassification)
        Concept Identifier (conceptID)
        Term / Label (term)
    Place Classification (placeClassification)
      Concept Identifier (conceptID)
      Term / Label (term)
Event Method (eventMethod)
  Concept Identifier (conceptID)
  Term / Label (term)
Event Materials/Technique (eventMaterialsTech)
  Display Materials Technique (displayMaterialsTech)
  Materials Technique (materialsTech)
    Term Materials Techniques (termMaterialsTech)
      Concept Identifier (conceptID)
      Term / Label (term)
    Extent Materials Techniques (extentMaterialsTech)
    Source Materials Techniques (sourceMaterialsTech)
Thing Present (thingPresent)
  Display Object (displayObject)
  Object (object)
    Object: Webresource (objectWebResource)
    Object Identifier (objectID)
    Object Note (objectNote)
Related Event (relatedEventSet)

Related Event (relatedEvent)
    Display Event (displayEvent)
    Event (event)
        ... etc. (event can contain itself)
    Related Event Relationship Type (relatedEventRelType)
        Concept Identifier (conceptID)
        Term / Label (term)
Event Description (eventDescriptionSet)
    Description/Descriptive Note (descriptiveNoteValue)
    Source Description/Descriptive Note (sourceDescriptiveNote)

7 Relation elements

For describing any related entities to an object / work. This may be the visual content (e.g. of a painting or photograph) or associated concepts and activities from its history. Direct relationships to other objects / works are indicated here, e.g. between an object / work and its components.

Relation Wrapper (objectRelationWrap)
    Subject Wrapper (subjectWrap)
        (contents listed below)
    Related Works Wrapper (relatedWorksWrap)
        (contents listed below)

Subject Wrapper (subjectWrap)
    Subject Set (subjectSet)
        Display Subject (displaySubject)
        Subject (subject)
            Extent Subject (extentSubject)
            Subject Term (subjectConcept)
                Concept Identifier (conceptID)
                Term / Label (term)
            Subject Actor Set (subjectActor)
                Display Actor (displayActor)
                Actor (actor)
                    Actor Identifier (actorID)
                    Name Actor Set (nameActorSet)
                        Appellation Value (appellationValue)
                        Source Appellation (sourceAppellation)
                    Nationality Actor (nationalityActor)
                        Concept Identifier (conceptID)
                        Term / Label (term)
                    Vital Dates Actor (vitalDatesActor)
                    Gender Actor (genderActor)
            Subject Date Set (subjectDate)
                Display Date (displayDate)
                Date (date)
                    Earliest Date (earliestDate)
                    Latest Date (latestDate)
            Subject Event Set (subjectEvent)
                Display Event (displayEvent)
                Event (event)
                    Event Identifier (eventID)
                    Event Type (eventType)
                      Concept Identifier (conceptID)
                    Term / Label (term)

Role in Event (roleInEvent)
   Concept Identifier (conceptID)
   Term / Label (term)
Event Name (eventName)
   Appellation Value (appellationValue)
   Source Appellation (sourceAppellation)
Event Actor (eventActor)
   Display Actor in Role (displayActorInRole)
   Actor in Role (actorInRole)
      Actor (actor)
         Actor Identifier (actorID)
         Name Actor Set (nameActorSet)
            Appellation Value (appellationValue)
            Source Appellation (sourceAppellation)
         Nationality Actor (nationalityActor)
            Concept Identifier (conceptID)
            Term / Label (term)
         Vital Dates Actor (vitalDatesActor)
         Gender Actor (genderActor)
      Role Actor (roleActor)
         Concept Identifier (conceptID)
         Term / Label (term)
      Attribution Qualifier Actor (attributionQualifierActor)
      Actor: Extent of participation (extentActor)
Cultural context (culture)
   Concept Identifier (conceptID)
   Term / Label (term)
Event Date (eventDate)
   Display Date (displayDate)
   Date (date)
      Earliest Date (earliestDate)
      Latest Date (latestDate)
Period (periodName)
   Concept Identifier (conceptID)
   Term / Label (term)
Event Place (eventPlace)
   Display Place (displayPlace)
   Place (place)
      Place Identifier (placeID)
      Place Name Set (namePlaceSet)
         Appellation Value (appellationValue)
         Source Appellation (sourceAppellation)
      GML (gml)
      Part of Geographical Entity (partOfPlace)

Place Identifier (placeID)
Place Name Set (namePlaceSet)
    Appellation Value (appellationValue)
    Source Appellation (sourceAppellation)
GML (gml)
Part of Geographical Entity (partOfPlace)
    ... etc. (partOfPlace can contain itself)
Place Classification (placeClassification)
    Concept Identifier (conceptID)
    Term / Label (term)
Place Classification (placeClassification)
    Concept Identifier (conceptID)
    Term / Label (term)
Event Method (eventMethod)
    Concept Identifier (conceptID)
    Term / Label (term)
Event Materials/Technique (eventMaterialsTech)
    Display Materials Technique (displayMaterialsTech)
    Materials Technique (materialsTech)
        Term Materials Techniques (termMaterialsTech)
            Concept Identifier (conceptID)
            Term / Label (term)
    Extent Materials Techniques (extentMaterialsTech)
    Source Materials Techniques (sourceMaterialsTech)
Thing Present (thingPresent)
    Display Object (displayObject)
    Object (object)
        Object: Webresource (objectWebResource)
        Object Identifier (objectID)
        Object Note (objectNote)
Related Event (relatedEventSet)
    Related Event (relatedEvent)
        Display Event (displayEvent)
        Event (event)
            ... etc. (event can contain itself)
    Related Event Relationship Type (relatedEventRelType)
        Concept Identifier (conceptID)
        Term / Label (term)
Event Description (eventDescriptionSet)
    Description/Descriptive Note (descriptiveNoteValue)
    Source Description/Descriptive Note (sourceDescriptiveNote)
Subject Place Set (subjectPlace)
    Display Place (displayPlace)
    Place (place)

              Place Identifier (placeID)
              Place Name Set (namePlaceSet)
                  Appellation Value (appellationValue)
                  Source Appellation (sourceAppellation)
              GML (gml)
              Part of Geographical Entity (partOfPlace)
                  Place Identifier (placeID)
                  Place Name Set (namePlaceSet)
                      Appellation Value (appellationValue)
                      Source Appellation (sourceAppellation)
                  GML (gml)
                  Part of Geographical Entity (partOfPlace)
                    ... etc. (partOfPlace can contain itself)
                  Place Classification (placeClassification)
                      Concept Identifier (conceptID)
                      Term / Label (term)
              Place Classification (placeClassification)
                  Concept Identifier (conceptID)
                  Term / Label (term)
            Subject Object (subjectObject)
              Display Object (displayObject)
               Object (object)
                  Object: Webresource (objectWebResource)
                  Object Identifier (objectID)
                  Object Note (objectNote)

Related Works Wrapper (relatedWorksWrap)
    Related Work Set (relatedWorksSet)
        Related Work (relatedWork)
            Display Object (displayObject)
            Object (object)
                Object: Webresource (objectWebResource)
                Object Identifier (objectID)
                Object Note (objectNote)
        Related Work Relationship Type (relatedWorkRelType)
            Concept Identifier (conceptID)
            Term / Label (term)

8 Rights for Work elements

Information about rights management of an object / work. This may include copyright, or other intellectual property statements, required for its use.

Rights for Work Wrapper (rightsWorkWrap)
    Rights for Work Set (rightsWorkSet)
        Rights Type (rightsType)
        Rights Date (rightsDate)
            Earliest Date (earliestDate)
            Latest Date (latestDate)
        Rights Holder (rightsHolder)
            Legal Body ID (legalBodyID)
            Legal Body Name (legalBodyName)
                Appellation Value (appellationValue)
                Source Appellation (sourceAppellation)
            Legal Body Weblink (legalBodyWeblink)
        Creditline (creditLine)

9 Record elements

Information about the catalogue record itself, for example its: ID, type, source, and rights. Some of this information may not be stored as data in a collection management system but is implicit.

Record Wrapper (recordWrap)
    Record ID (recordID)
    Record Type (recordType)
    Record Source (recordSource)
        Legal Body ID (legalBodyID)
        Legal Body Name (legalBodyName)
            Appellation Value (appellationValue)
            Source Appellation (sourceAppellation)
        Legal Body Weblink (legalBodyWeblink)
    Rights for Record (recordRights)
        Rights Type (rightsType)
        Rights Date (rightsDate)
            Earliest Date (earliestDate)
            Latest Date (latestDate)
        Rights Holder (rightsHolder)
            Legal Body ID (legalBodyID)
            Legal Body Name (legalBodyName)
                Appellation Value (appellationValue)
                Source Appellation (sourceAppellation)
            Legal Body Weblink (legalBodyWeblink)
        Creditline (creditLine)
    Record Metadata Information Set (recordInfoSet)
        Record Info ID (recordInfoID)
        Record Info Link (recordInfoLink)
        Record Relationship ID (recordRelID)
        Record Metadata Location (recordMetadataLoc)
        Record Metadata Date (recordMetadataDate)

10 Resource elements

For describing resources that are surrogates for an object / work, including digital images, videos or audio files that represent it in an online service.

Resource Wrapper (resourceWrap)
 Resource Set (resourceSet)
  Link Resource (linkResource)
  Resource Identification Number (resourceID)
  Resource Relationship Type (resourceRelType)
  Resource Type (resourceType)
   Concept Identifier (conceptID)
   Term / Label (term)
  Rights for Resource (rightsResource)
   Rights Type (rightsType)
   Rights Date (rightsDate)
    Earliest Date (earliestDate)
    Latest Date (latestDate)
   Rights Holder (rightsHolder)
    Legal Body ID (legalBodyID)
    Legal Body Name (legalBodyName)
     Appellation Value (appellationValue)
     Source Appellation (sourceAppellation)
    Legal Body Weblink (legalBodyWeblink)
   Creditline (creditLine)
  Resource View Description (resourceViewDescription)
  Resource View Type (resourceViewType)
   Concept Identifier (conceptID)
   Term / Label (term)
  Resource View Subject Term (resourceViewSubjectTerm)
   Concept Identifier (conceptID)
   Term / Label (term)
  Resource View Date (resourceViewDate)
  Resource Source (resourceSource)
  Link Related Resource (linkRelatedResource)
   Related Resource Relationship Type (relatedResourceRelType)
   Label for Related Resource (labelRelatedResource)
  Resource Metadata Location (resourceMetadataLoc)

Alphabetical list of elements

Element actor	
Description	
Title	Actor
General	Describes and identifies an actor, i.e. a person, corporation or group. Consists of the sub-elements displayActor which is a free-text description of the actor, and actor as structured sub-element for indexing and identification references.
Technical	
Tag-name	actor
Attributes	actorType
Required?	No
Repeatable?	No
Super-elements	subjectActor, actorInRole
Sub-elements	actorID, nameActorSet, nationalityActor, vitalDatesActor, genderActor
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element actorID	
Description	
Title	Actor Identifier
General	A unique identifier for the actor.
How to record	Preferably taken from a published authority file.
Technical	
Tag-name	actorID
Attributes	pref; type; source; encodinganalog; label

Required?	No
Repeatable?	Yes
Super-elements	actor, actor
Sub-elements	-
Equivalents	CDWA Lite nameCreator [attributes 'termsource' and 'termsourceID'] [creator generalized into actor]
	museumdat nameActor [attributes 'termsource' and 'termsourceID']
	SPECTRUM Organisation's reference number; Person's reference number

Element actorInRole

Description

Title	Actor in Role
General	Describes an actor with role and (if necessary) attributions in a structured way, consisting of the sub-elements actor, its role, attribution and extent.

Technical

Tag-name	actorInRole
Attributes	-
Required?	No
Repeatable?	No
Super-elements	eventActor
Sub-elements	actor, roleActor, attributionQualifierActor, extentActor
Equivalents	CDWA Lite indexingCreatorSet [creator generalized into actor]
	museumdat indexingActorSet
	SPECTRUM [none]

Element administrativeMetadata

Description

Title	Administrative Metadata
General	Holds the administrative metadata of an object record.
How to record	The attribute xml:lang is mandatory and specifies the language of the administrative metadata. For fully multi-lingual resources, repeat this element once for each language represented. If only a few data fields (e.g. creditline) are provided in more than one language, the respective text elements may be repeated specifying the lang attribute on the text level.

Technical	
Tag-name	administrativeMetadata
Attributes	xml:lang
Required?	Yes
Repeatable?	Yes
Super-elements	lido
Sub-elements	rightsWorkWrap, recordWrap, resourceWrap
Equivalents	CDWA Lite administrativeMetadata
	museumdat administrativeMetadata
	SPECTRUM [none]

Element appellationValue

Description	
Title	Appellation Value
General	Appellations, e.g. titles, identifying phrases, or names given to an item, but also name of a person or corporation, also place name etc.

Technical	
Tag-name	appellationValue
Attributes	-
Required?	Yes
Repeatable?	No

Super-elements	eventName, legalBodyName, namePlaceSet, nameActorSet
Sub-elements	-
Equivalents	CDWA Lite title; nameCreator; locationName [for example]
	museumdat title; repositoryName; nameActor; nameLocation [for example]
	SPECTRUM Object name [if no title only]; Title; Object production place; Field collection event name; Content - event name; Content - place; Associated event name; Associated event place; Associated place; Ownership place; Right holder; Exhibition title; Organisation's additions to name; Person's additions to name; Person's forenames; Person's surname; Person's title; Place name;

Element attributionQualifierActor

Description

Title	Attribution Qualifier Actor
General	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.
How to record	Example values: attributed to, studio of, workshop of, atelier of, office of, assistant of, associate of, pupil of, follower of, school of, circle of, style of, after copyist of, manner of...

Technical

Tag-name	attributionQualifierActor
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	actorInRole
Sub-elements	-
Equivalents	CDWA Lite attributionQualifierCreator
	museumdat attributionQualifierActor
	SPECTRUM [none]

Element category	
Description	
Title	Category
General	Indicates the CIDOC-CRM category of which this item is an instance, preferably referring to CRM concept definitions given at http://www.cidoc-crm.org/crm-concepts/
Technical	
Tag-name	category
Attributes	-
Required?	No
Repeatable?	No
Super-elements	lido
Sub-elements	conceptID, term
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element classification	
Description	
Title	Classification
General	Term used to categorize a work by grouping it together with other works on the basis of similar characteristics.
How to record	The category belongs to a systematic scheme (classification) which groups objects of similar characteristics according to uniform aspects. This grouping / classification may be done according to material, form, shape, function, region of origin, cultural context, or historical or stylistic period. In addition to this systematic grouping it may also be done according to organizational divisions within a museum (e.g., according to the collection structure of a museum). If the work is assigned to multiple classifications, repeat this element.

Technical	
Tag-name	classification
Attributes	type
Required?	No
Repeatable?	Yes
Super-elements	classificationWrap
Sub-elements	conceptID, term
Equivalents	CDWA Lite classification
	museumdat classification
	SPECTRUM [none]

Element classificationWrap

Description	
Title	Classification Wrapper
General	A wrapper for classification information.

Technical	
Tag-name	classificationWrap
Attributes	-
Required?	No
Repeatable?	No
Super-elements	objectClassificationWrap
Sub-elements	classification
Equivalents	CDWA Lite classificationWrap
	museumdat classificationWrap
	SPECTRUM [none]

Element conceptID

Description

Title	Concept Identifier
General	A unique identifier for the concept.
How to record	Preferably taken from and linking to a published controlled vocabulary.

Technical	
Tag-name	conceptID
Attributes	pref; type; source; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	category, objectWorkType, resourceType, resourceViewType, relatedWorkRelType, subjectConcept, eventType, roleInEvent, culture, periodName, eventMethod, nationalityActor, roleActor, relatedEventRelType
Sub-elements	-
Equivalents	CDWA Lite attributes 'termsource' and 'termsourceID' for terms related to controlled vocabulary (e.g. objectWorkType, classification, culture etc.)
	museumdat attributes 'termsource' and 'termsourceID' for terms related to controlled vocabulary (e.g. objectWorkType, classification, culture, eventType etc.)
	SPECTRUM [none]

Element creditLine	
Description	
Title	Creditline
General	Acknowledgement of the rights associated with the physical and/ or digital object.
How to record	Repeat this element only for language variants.
Technical	
Tag-name	creditLine
Attributes	xml:lang; encodinganalog; label

Required?	No
Repeatable?	Yes
Super-elements	rightsWorkSet, recordRights, rightsResource
Sub-elements	-
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM Credit line [referring to copyright in general]

Element culture

Description

Title	Cultural context
General	Name of a culture, people, or nationality participating in the event.
How to record	Controlled.

Technical

Tag-name	culture
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	event
Sub-elements	conceptID, term
Equivalents	CDWA Lite culture
	museumdat culture
	SPECTRUM [none]

Element date

Description

Title	Date
General	Contains a date specification by providing a set of years as earliest and latest date delimiting the respective span of time.

Technical

Tag-name	date
Attributes	-
Required?	No
Repeatable?	No
Super-elements	subjectDate, eventDate
Sub-elements	earliestDate, latestDate
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element descriptiveMetadata

Description

Title	Descriptive Metadata
General	
How to record	The attribute xml:lang is mandatory and specifies the language of the descriptive metadata. For fully multi-lingual resources, repeat this element once for each language represented. If only a few data fields (e.g. title) are provided in more than one language, the respective text elements may be repeated specifying the lang attribute on the text level.

Technical

Tag-name	descriptiveMetadata
Attributes	xml:lang
Required?	Yes
Repeatable?	Yes
Super-elements	lido
Sub-elements	objectClassificationWrap, objectIdentificationWrap, eventWrap, objectRelationWrap
Equivalents	CDWA Lite descriptiveMetadata

	museumdat descriptiveMetadata
	SPECTRUM [none]

Element descriptiveNoteValue

Description

Title	Description/Descriptive Note
General	Usually a relatively brief essay-like text that describes the entity.

Technical

Tag-name	descriptiveNoteValue
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	No
Super-elements	objectDescriptionSet, eventDescriptionSet
Sub-elements	-
Equivalents	CDWA Lite descriptiveNote
	museumdat descriptiveNote
	SPECTRUM Brief description; Comments; Distinguishing features; Number of objects; Physical description; Association note; Object history note

Element displayActor

Description

Title	Display Actor
General	Display element for an actor, corresponding to the following actor element.
How to record	May include name, brief biographical information of the named actor, presented in a syntax suitable for display to the end-user. If there is no known actor, make a reference to the presumed culture or nationality of the unknown actor. May be concatenated from the respective 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 e.g.: "unknown," "unknown Chinese," "Chinese," or "unknown 15th century Chinese." Repeat this element only for language variants.
Technical	
Tag-name	displayActor
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	subjectActor
Sub-elements	-
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM Content - organisation [simple string]; Content - person [simple string]

Element displayActorInRole

Description	
Title	Display Actor in Role
General	Display element for an actor, corresponding to the following actor element.
How to record	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. May be concatenated from the respective 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 e.g.: "unknown," "unknown Chinese," "Chinese," or "unknown 15th century Chinese." Repeat this element only for language variants.
Technical	
Tag-name	displayActorInRole

Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	eventActor
Sub-elements	-
Equivalents	CDWA Lite displayCreator [partly]
	museumdat displayCreator [partly]
	SPECTRUM Object production organisation [single string]; Object production person [single string]; Field collector [single string]; Associated event organisation [single string]; Associated event person [single string]; Associated organisation [single string]; Owner [single string]; Venue

Element displayDate

Description

Title	Display Date
General	Display element for a date specification, corresponding to the following date element.
How to record	It is a concise description of the date, presented in a 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.

Technical

Tag-name	displayDate
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	subjectDate, eventDate
Sub-elements	-
Equivalents	CDWA Lite displayCreationDate [partly]
	museumdat displayCreationDate [partly]

	SPECTRUM Object production date [single string]; Field collection date [single string]; Field collection place [single string]; Content - date [simple string]; Associated date [single string]; Associated event date [single string]; Ownership dates [single string]; Acquisition date [single string]

Element displayEdition

Description

Title	Display Edition
General	A description of the edition of the work; used primarily for prints and other multiples.
How to record	Formulated according to rules. For Edition, include impression number, edition size, and edition number, or edition name, as appropriate. Repeat this element only for language variants.

Technical

Tag-name	displayEdition
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	displayStateEditionWrap
Sub-elements	-
Equivalents	CDWA Lite displayEdition
	museumdat displayEdition
	SPECTRUM Copy number; Edition number; Catalogue number

Element displayEvent

Description

Title	Display Event
General	Display element for an event, corresponding to the following event element.

How to record	Repeat this element only for language variants.

Technical

Tag-name	displayEvent
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	eventSet, subjectEvent, relatedEvent
Sub-elements	-
Equivalents	CDWA Lite [none]
	museumdat displayEvent [partly]
	SPECTRUM [none]

Element displayMaterialsTech

Description

Title	Display Materials Technique
General	Display element for materials/technique, corresponding to the following materialsTech element.
How to record	It is presented in a 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.

Technical

Tag-name	displayMaterialsTech
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	eventMaterialsTech
Sub-elements	-
Equivalents	CDWA Lite displayMaterialsTech [partly]
	museumdat displayMaterialsTech [partly]

	SPECTRUM	[none]

Element displayObject

Description

Title	Display Object
General	A free-text description of the object, corresponding to the following object element
How to record	Repeat this element only for language variants.

Technical

Tag-name	displayObject	
Attributes	xml:lang; encodinganalog; label	
Required?	No	
Repeatable?	Yes	
Super-elements	relatedWork, subjectObject, thingPresent	
Sub-elements	-	
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	Associated object

Element displayObjectMeasurements

Description

Title	Display Object Measurement
General	Display element for one object measurement, corresponding to the following objectMeasurement element.
How to record	Repeat this element only for language variants.

Technical

Tag-name	displayObjectMeasurements
Attributes	xml:lang; encodinganalog; label
Required?	No

Repeatable?	Yes
Super-elements	objectMeasurementsSet
Sub-elements	-
Equivalents	CDWA Lite displayMeasurements [partly]
	museumdat displayMeasurements [partly]
	SPECTRUM [single string for dimensions]

Element displayPlace

Description

Title	Display Place
General	Display element for a place specification, corresponding to the following place element.
How to record	Repeat this element only for language variants.

Technical

Tag-name	displayPlace
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	subjectPlace
Sub-elements	-
Equivalents	CDWA Lite [none]
	museumdat Correponds partly to displayLocation.
	SPECTRUM Object production place [single string]; Content - place [simple string]; Associated event place [single string]; Associated place [single string]; Ownership place [single string]

Element displayState

Description

Title	Display State

General	A description of the state of the work; used primarily for prints and other multiples
How to record	Formulated according to rules. For State, include state identification and known states, as appropriate. Repeat this element only for language variants.

Technical	
Tag-name	displayState
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	displayStateEditionWrap
Sub-elements	-
Equivalents	CDWA Lite displayState
	museumdat displayState
	SPECTRUM [none]

Element displayStateEditionWrap

Description	
Title	Display State/Edition Wrapper
General	A wrapper for Display State Editions

Technical	
Tag-name	displayStateEditionWrap
Attributes	-
Required?	No
Repeatable?	No
Super-elements	objectIdentificationWrap
Sub-elements	displayState, displayEdition, sourceStateEdition
Equivalents	CDWA Lite displayStateEditionWrap
	museumdat displayStateEditionWrap
	SPECTRUM [none]

Element displaySubject

Description

Title	Display Subject
General	A free-text description of the subject matter represented by/in the object, corresponding to the following subject element
How to record	Repeat this element only for language variants.

Technical

Tag-name	displaySubject	
Attributes	xml:lang; encodinganalog; label	
Required?	No	
Repeatable?	Yes	
Super-elements	subjectSet	
Sub-elements	-	
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	Content - description; Content - note; Content note

Element earliestDate

Description

Title	Earliest Date
General	A year or exact date that broadly delimits the beginning of an implied date span.
How to record	Format: YYYY[-MM[-DD]]

Technical

Tag-name	earliestDate
Attributes	-
Required?	Yes
Repeatable?	No

Super-elements	date, rightsDate
Sub-elements	-
Equivalents	CDWA Lite earliestDate
	museumdat earliestDate
	SPECTRUM Object production date [earliest date]; Field collection date [earliest date]; Content - date [earliest]; Associated date [earliest]; Associated event date [earliest]; Ownership dates [earliest date]; Right begin date; Exhibition begin date; Date - earliest/single; Acquisition date [earliest]

Element event

Description

Title	Event
General	Identifying, descriptive and indexing information for the events in which the object participated, e.g. creation, excavation, collection, and use.
Notes	All information related to the creation of an object: creator, creation date, creation place, the material and techniques used are recorded here, qualified by the event type "creation".

Technical

Tag-name	event
Attributes	-
Required?	No
Repeatable?	No
Super-elements	eventSet, subjectEvent, relatedEvent
Sub-elements	eventID, eventType, roleInEvent, eventName, eventActor, culture, eventDate, periodName, eventPlace, eventMethod, eventMaterialsTech, thingPresent, relatedEventSet, eventDescriptionSet
Equivalents	CDWA Lite [none]
	museumdat indexingEventSet [subset of]
	SPECTRUM [none]

Element eventActor

Description

Title	Event Actor
General	Wrapper for display and index elements for an actor with role information (participating in the event).
How to record	For multiple actors repeat the element.

Technical

Tag-name	eventActor
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	event
Sub-elements	displayActorInRole, actorInRole
Equivalents	CDWA Lite [none]
	museumdat Corresponds to indexingActorSet (without displayActor)
	SPECTRUM [none]

Element eventDate

Description

Title	Event Date
General	Date specification of the event.

Technical

Tag-name	eventDate
Attributes	-
Required?	No
Repeatable?	No
Super-elements	event
Sub-elements	displayDate, date

Equivalents	CDWA Lite	[none]
	museumdat displayDate)	Corresponds to indexingDates (without
	SPECTRUM	[none]

Element eventDescriptionSet

Description

Title	Event Description
General	

Technical

Tag-name	eventDescriptionSet
Attributes	type
Required?	No
Repeatable?	Yes
Super-elements	event
Sub-elements	descriptiveNoteValue, sourceDescriptiveNote
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element eventID

Description

Title	Event Identifier
General	A unique identifier for the event.
How to record	Preferably taken from and linking to a published resource describing the event.

Technical

Tag-name	eventID
Attributes	pref; type; source; encodinganalog; label

Required?	No
Repeatable?	Yes
Super-elements	event
Sub-elements	-
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM Field collection event reference number; Exhibition reference number

Element eventMaterialsTech

Description

Title	Event Materials/Technique
General	Indicates the substances or materials used within the event (e.g. the creation of a work), as well as any implements, production or manufacturing techniques, processes, or methods incorporated.

Technical

Tag-name	eventMaterialsTech
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	event
Sub-elements	displayMaterialsTech, materialsTech
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element eventMethod

Description

Title	Event Method
General	The method by which the event is carried out.

Notes	Used e.g. for SPECTRUM Units of Information "field collection method", "acquisition method".
Technical	
Tag-name	eventMethod
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	event
Sub-elements	conceptID, term
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element eventName

Description	
Title	Event Name
General	An appellation for the event, e.g. a title, identifying phrase, or name given to it.
Technical	
Tag-name	eventName
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	event
Sub-elements	appellationValue, sourceAppellation
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element eventPlace

Description

Title	Event Place
General	Place specification of the event.

Technical

Tag-name	eventPlace
Attributes	type
Required?	No
Repeatable?	Yes
Super-elements	event
Sub-elements	displayPlace, place
Equivalents	CDWA Lite [none]
	museumdat Corresponds to indexingLocationSet (without displayPlace)
	SPECTRUM [none]

Element eventSet

Description

Title	Event Set
General	Wrapper for the display and index elements for events (e.g. creation, find, and use), in which the object participated.
How to record	For multiple events repeat the element.

Technical

Tag-name	eventSet
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	eventWrap
Sub-elements	displayEvent, event

Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element eventType

Description

Title	Event Type
General	Qualifier of the event, e.g. creation, find, ...
How to record	Data values to be controlled. Recommended: Defined list of subclasses of CRM entity E5 Event. Basic event types include: Acquisition, Collecting, Creation, Designing, Destruction, Event (non-specified), Excavation, Exhibition, Finding, Loss, Modification, Move, Order, Part addition, Part removal, Performance, Planning, Production, Provenance, Publication, Restoration, Transformation, Type assignment, Type creation, Use.

Technical

Tag-name	eventType	
Attributes	-	
Required?	Yes	
Repeatable?	No	
Super-elements	event	
Sub-elements	conceptID, term	
Equivalents	CDWA Lite	Corresponds to qualifier elements: dateQualifier, indexingLocationSet@type
	museumdat	eventType
	SPECTRUM	[none]

Element eventWrap

Description

Title	Event Wrapper

General	Wrapper for event sets.

Technical	
Tag-name	eventWrap
Attributes	-
Required?	No
Repeatable?	No
Super-elements	descriptiveMetadata
Sub-elements	eventSet
Equivalents	CDWA Lite [none]
	museumdat indexingEventWrap
	SPECTRUM [none]

Element extentActor

Description	
Title	Actor: Extent of participation
General	Extent of the actor's participation in the event, if there are several actors.
How to record	Example values: design, execution, with additions by, figures, renovation by, predella, embroidery, cast by, printed by, ...

Technical	
Tag-name	extentActor
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	actorInRole
Sub-elements	-
Equivalents	CDWA Lite extentCreator
	museumdat extentActor
	SPECTRUM [none]

Element extentMaterialsTech

Description

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

Technical

Tag-name	extentMaterialsTech	
Attributes	xml:lang; encodinganalog; label	
Required?	No	
Repeatable?	Yes	
Super-elements	materialsTech	
Sub-elements	-	
Equivalents	CDWA Lite	extentMaterialsTech
	museumdat	extentMaterialsTech
	SPECTRUM	[none]

Element extentMeasurements

Description

Title	Extent Measurements
General	An explanation of the part of the work being measured; included when necessary for clarity.
How to record	Example values: overall, components, sheet, plate mark, chain lines, pattern repeat, lid, base, laid lines, folios, leaves, columns per page, lines per page, tessera, footprint, panel, interior, mat, window of mat, secondary support, frame, mount, ...

Technical

Tag-name	extentMeasurements
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes

Super-elements	objectMeasurements	
Sub-elements	-	
Equivalents	CDWA Lite	extentMeasurements
	museumdat	extentMeasurements
	SPECTRUM	Dimension measured part

Element extentSubject

Description

Title	Extent Subject
General	When there are multiple subjects, a term indicating the part of the work to which these subject terms apply.
How to record	Example values: recto, verso, side A, side B, main panel, predella, ...

Technical

Tag-name	extentSubject	
Attributes	xml:lang; encodinganalog; label	
Required?	No	
Repeatable?	No	
Super-elements	subject	
Sub-elements	-	
Equivalents	CDWA Lite	extentSubject
	museumdat	extentSubject
	SPECTRUM	Content - position

Element formatMeasurements

Description

Title	Format Measurements
General	The configuration of a work, including technical formats, used as necessary.
How to record	Example values: Vignette, VHS, IMAX, DOS ...

Technical	
Tag-name	formatMeasurements
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	objectMeasurements
Sub-elements	-
Equivalents	CDWA Lite formatMeasurements
	museumdat formatMeasurements
	SPECTRUM [none]

Element genderActor

Description	
Title	Gender Actor
General	The sex of the individual.
How to record	Data values: male, female, unknown, not applicable.
Notes	Not applicable for corporate bodies.

Technical	
Tag-name	genderActor
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	No
Super-elements	actor, actor
Sub-elements	-
Equivalents	CDWA Lite genderCreator
	museumdat genderActor
	SPECTRUM Person's gender

Element gml

Description	
Title	GML
General	Georeferences of the place using to the GML specification. [none]

Technical	
Tag-name	gml
Attributes	xml:lang
Required?	No
Repeatable?	No
Super-elements	repositoryLocation, place, partOfPlace
Sub-elements	gml:Point, gml:LineString, gml:Polygon
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element inscriptions

Description	
Title	Inscriptions
General	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 work, excluding any mark or text inherent in the materials of which the work is made.
How to record	Record watermarks in Display Materials/Techniques.
Notes	The assigned type attribute allows the qualification of the text, e.g. to indicate that the text is a transcription of the inscription

Technical	
Tag-name	inscriptions
Attributes	type
Required?	No

Repeatable?	Yes	
Super-elements	inscriptionsWrap	
Sub-elements	-	
Equivalents	CDWA Lite	inscriptions [with a newly assigned type attribute]
	museumdat	inscriptions [with a newly assigned type attribute]
	SPECTRUM	Inscription content; Inscription description

Element inscriptionsWrap

Description

Title	Inscriptions and other Marks Wrapper
General	A wrapper for information about inscriptions and other marks.

Technical

Tag-name	inscriptionsWrap	
Attributes	-	
Required?	No	
Repeatable?	No	
Super-elements	objectIdentificationWrap	
Sub-elements	inscriptions	
Equivalents	CDWA Lite	inscriptionsWrap
	museumdat	inscriptionsWrap
	SPECTRUM	[none]

Element labelRelatedResource

Description

Title	Label for Related Resource
General	An identification of the related image or other resource that will be meaningful to end-users.

Technical

Tag-name	labelRelatedResource

Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	linkRelatedResource
Sub-elements	-
Equivalents	CDWA Lite labelRelatedResource
	museumdat labelRelatedResource
	SPECTRUM [none]

Element latestDate

Description

Title	Latest Date
General	A year or exact date that broadly delimits the end of an implied date span.
How to record	Format: YYYY[-MM[-DD]]

Technical

Tag-name	latestDate
Attributes	-
Required?	Yes
Repeatable?	No
Super-elements	date, rightsDate
Sub-elements	-
Equivalents	CDWA Lite latestDate
	museumdat latestDate
	SPECTRUM Object production date [latest date]; Field collection date [latest date]; Content - date [latest]; Associated date [latest]; Associated event date [latest]; Ownership dates [latiest date]; Right end date; Exhibition end date; Date - latest; Acquisition date [latest]

Element legalBodyID

Description	
Title	Legal Body ID
General	Unambiguous identification of the institution or person.

Technical	
Tag-name	legalBodyID
Attributes	pref; type; source; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	recordSource, repositoryName, rightsHolder
Sub-elements	-
Equivalents	CDWA Lite
	museumdat Attributes termsource and termsourceID for legal body references, e.g. repositoryName
	SPECTRUM [none]

Element legalBodyName

Description	
Title	Legal Body Name
General	Appellation of the institution or person.

Technical	
Tag-name	legalBodyName
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	recordSource, repositoryName, rightsHolder
Sub-elements	appellationValue, sourceAppellation
Equivalents	CDWA Lite [none]
	museumdat E.g. recordSource, repositoryName

SPECTRUM	[none]

Element legalBodyWeblink

Description

Title	Legal Body Weblink
General	Weblink of the institution or person.

Technical

Tag-name	legalBodyWeblink
Attributes	pref; formatResource; xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	recordSource, repositoryName, rightsHolder
Sub-elements	-
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element lido

Description

Title	Wrapper for an object record
General	Holds the metadata of an object.

Technical

Tag-name	lido
Attributes	-
Required?	Yes
Repeatable?	Yes
Super-elements	lidoWrap
Sub-elements	lidoRecID, category, descriptiveMetadata, administrativeMetadata

Equivalents	CDWA Lite	cdwalite
	museumdat	museumdat
	SPECTRUM	[none]

Element lidoRecID

Description

Title	LIDO Metadata Record-ID
General	A unique lido record identification, preferably composed of an identifier for the contributor and a record identification in the contributor's (local) system.

Technical

Tag-name	lidoRecID	
Attributes	pref; type; source; encodinganalog; label	
Required?	Yes	
Repeatable?	Yes	
Super-elements	lido	
Sub-elements	-	
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element lidoWrap

Description

Title	Wrapper for the whole document
General	Holds one or multiple object records.

Technical

Tag-name	lidoWrap
Attributes	relatedencoding
Required?	Yes

Repeatable?	No	
Super-elements	-	
Sub-elements	lido	
Equivalents	CDWA Lite	cdwaliteWrap
	museumdat	museumdatWrap
	SPECTRUM	[none]

Element linkRelatedResource

Description

Title	Link Related Resource
General	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.
How to record	For multiple related resources, repeat this element.

Technical

Tag-name	linkRelatedResource	
Attributes	linkscheme	
Required?	No	
Repeatable?	Yes	
Super-elements	resourceSet	
Sub-elements	relatedResourceRelType, labelRelatedResource	
Equivalents	CDWA Lite	linkRelatedResource
	museumdat	linkRelatedResource
	SPECTRUM	[none]

Element linkResource

Description

Title	Link Resource

General	A uri/url reference that is universal in the worldwide web environment.
Technical	
Tag-name	linkResource
Attributes	type
Required?	No
Repeatable?	No
Super-elements	resourceSet
Sub-elements	-
Equivalents	CDWA Lite linkResource
	museumdat linkResource
	SPECTRUM [none]

Element materialsTech

Description	
Title	Materials Technique
General	Materials and techniques data used for indexing.
Technical	
Tag-name	materialsTech
Attributes	-
Required?	No
Repeatable?	No
Super-elements	eventMaterialsTech
Sub-elements	termMaterialsTech, extentMaterialsTech, sourceMaterialsTech
Equivalents	CDWA Lite indexingMaterialsTechSet
	museumdat indexingMaterialsTechSet
	SPECTRUM [none]

Element measurementsSet

Description	
Title	Measurements Set
General	The dimensions or other measurements for one aspect of a work (e.g., width).
How to record	May be combined with extent, qualifier, and other sub-elements as necessary. The attributes "unit", "value" and "type" are mandatory.

Technical		
Tag-name	measurementsSet	
Attributes	unit; type; value; xml:lang; encodinganalog; label	
Required?	No	
Repeatable?	Yes	
Super-elements	objectMeasurements	
Sub-elements	-	
Equivalents	CDWA Lite	measurementsSet
	museumdat	measurementsSet
	SPECTRUM	[none]

Element nameActorSet

Description	
Title	Name Actor Set
General	A wrapper for name elements.
How to record	if there exists more than one name for a single actor, repeat Name Actor Set.
Notes	Indicates names, appellations, or other identifiers assigned to an individual, group of people, firm or other corporate body, or other entity.

Technical	
Tag-name	nameActorSet
Attributes	-

Required?	Yes	
Repeatable?	Yes	
Super-elements	actor, actor	
Sub-elements	appellationValue, sourceAppellation	
Equivalents	CDWA Lite	nameCreatorSet
	museumdat	nameActorSet
	SPECTRUM	[none]

Element namePlaceSet

Description

Title	Place Name Set	
General	The name of the geographic place.	
How to record	If there are different names of the same place, e.g. today's and historical names, repeat this element.	

Technical

Tag-name	namePlaceSet	
Attributes	-	
Required?	No	
Repeatable?	Yes	
Super-elements	repositoryLocation, place, partOfPlace	
Sub-elements	appellationValue, sourceAppellation	
Equivalents	CDWA Lite	locationName [partly]
	museumdat	nameLocationSet
	SPECTRUM	[none]

Element nationalityActor

Description

Title	Nationality Actor

General	National or cultural affiliation of the person or corporate body. Controlled.
Technical	
Tag-name	nationalityActor
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	actor, actor
Sub-elements	conceptID, term
Equivalents	CDWA Lite nationalityCreator
	museumdat nationalityActor
	SPECTRUM [none]

Element object

Description	
Title	Object
General	A reference to another object by providing sub-elements for identifiers.
Notes	Links to web resources and a descriptive note about the object.
Technical	
Tag-name	object
Attributes	-
Required?	No
Repeatable?	No
Super-elements	relatedWork, subjectObject, thingPresent
Sub-elements	objectWebResource, objectID, objectNote
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element objectClassificationWrap

Description

Title	Object Classification Wrapper
General	

Technical

Tag-name	objectClassificationWrap	
Attributes	-	
Required?	Yes	
Repeatable?	No	
Super-elements	descriptiveMetadata	
Sub-elements	objectWorkTypeWrap, classificationWrap	
Equivalents	CDWA Lite	[none]
	museumdat	objectClassificationWrap
	SPECTRUM	[none]

Element objectDescriptionSet

Description

Title	Description/Descriptive Note Set
General	A wrapper for a descriptive note and its sources. If there is more than one descriptive note, repeat this sub-element.
How to record	Includes usually a relatively brief essay-like text that describes the content and context of the work, including comments and an interpretation that may supplement, qualify, or explain the physical characteristics, subject, circumstances of creation or discovery, or other information about the work.

Technical

Tag-name	objectDescriptionSet
Attributes	type
Required?	No
Repeatable?	Yes

Super-elements	objectDescriptionWrap
Sub-elements	descriptiveNoteValue, sourceDescriptiveNote
Equivalents	CDWA Lite descriptiveNoteSet
	museumdat descriptiveNoteSet
	SPECTRUM [none]

Element objectDescriptionWrap

Description

Title	Object Description/Descriptive Note Wrapper
General	A wrapper for Description/Descriptive Note information.

Technical

Tag-name	objectDescriptionWrap
Attributes	-
Required?	No
Repeatable?	No
Super-elements	objectIdentificationWrap
Sub-elements	objectDescriptionSet
Equivalents	CDWA Lite descriptiveNoteWrap
	museumdat descriptiveNoteWrap
	SPECTRUM [none]

Element objectID

Description

Title	Object Identifier
General	Unique identifier of the referenced object.

Technical

Tag-name	objectID
Attributes	pref; type; source; encodinganalog; label

Required?	No	
Repeatable?	Yes	
Super-elements	object	
Sub-elements	-	
Equivalents	CDWA Lite	locRelatedWork@relWorkID
	museumdat	locRelatedWork@relWorkID
	SPECTRUM	Related object number

Element objectIdentificationWrap

Description

Title	Object Identification Wrapper
General	A Wrapper for information that identifies the object.

Technical

Tag-name	objectIdentificationWrap	
Attributes	-	
Required?	Yes	
Repeatable?	No	
Super-elements	descriptiveMetadata	
Sub-elements	titleWrap, inscriptionsWrap, repositoryWrap, displayStateEditionWrap, objectDescriptionWrap, objectMeasurementsWrap	
Equivalents	CDWA Lite	[none]
	museumdat	identificationWrap
	SPECTRUM	[none]

Element objectMeasurements

Description

Title	Object Measurement

General	Structured measurement information about the dimensions, size, or scale of the work. It may also include the parts of a complex work, series, or collection.

Technical	
Tag-name	objectMeasurements
Attributes	-
Required?	No
Repeatable?	No
Super-elements	objectMeasurementsSet
Sub-elements	measurementsSet, extentMeasurements, qualifierMeasurements, formatMeasurements, shapeMeasurements, scaleMeasurements
Equivalents	CDWA Lite indexingMeasurementsSet
	museumdat indexingMeasurementsSet
	SPECTRUM [none]

Element objectMeasurementsSet

Description	
Title	Object Measurements Set
General	Wrapper for display and index elements for object measurements.
How to record	If multiple parts of the work are measured repeat this element.

Technical	
Tag-name	objectMeasurementsSet
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	objectMeasurementsWrap
Sub-elements	displayObjectMeasurements, objectMeasurements
Equivalents	CDWA Lite [none]
	museumdat [none]

	SPECTRUM [none]

Element objectMeasurementsWrap

Description

Title	Object Measurements Wrapper
General	A wrapper for the Measurements.

Technical

Tag-name	objectMeasurementsWrap	
Attributes	-	
Required?	No	
Repeatable?	No	
Super-elements	objectIdentificationWrap	
Sub-elements	objectMeasurementsSet	
Equivalents	CDWA Lite	indexingMeasurementsWrap
	museumdat	indexingMeasurementsWrap
	SPECTRUM	[none]

Element objectNote

Description

Title	Object Note
General	
How to record	

Technical

Tag-name	objectNote
Attributes	type
Required?	No
Repeatable?	Yes
Super-elements	object

Sub-elements	-
Equivalents	CDWA Lite labelRelatedWork
	museumdat labelRelatedWork
	SPECTRUM [none]

Element objectRelationWrap

Description

Title	Relation Wrapper
General	Wrapper for indexing related topics and works, collections, etc.

Technical

Tag-name	objectRelationWrap
Attributes	-
Required?	No
Repeatable?	No
Super-elements	descriptiveMetadata
Sub-elements	subjectWrap, relatedWorksWrap
Equivalents	CDWA Lite [none]
	museumdat relationWrap
	SPECTRUM [none]

Element objectWebResource

Description

Title	Object: Webresource
General	A Uri/Url-Reference representing the object in the worldwide web environment.

Technical

Tag-name	objectWebResource
Attributes	pref; formatResource; xml:lang; encodinganalog; label
Required?	No

Repeatable?	Yes
Super-elements	object
Sub-elements	-
Equivalents	CDWA Lite linkRelatedWork
	museumdat linkRelatedWork
	SPECTRUM [none]

Element objectWorkType

Description

Title	Object/Work Type
General	The specific kind of object or work being described.
How to record	For a collection, include repeating instances for identifying all of or the most important items in the collection.

Technical

Tag-name	objectWorkType
Attributes	-
Required?	Yes
Repeatable?	Yes
Super-elements	objectWorkTypeWrap
Sub-elements	conceptID, term
Equivalents	CDWA Lite objectWorkType
	museumdat objectWorkType
	SPECTRUM [none]

Element objectWorkTypeWrap

Description

Title	Object/Work Type Wrapper
General	A wrapper for Object/Work Types.

Technical

Tag-name	objectWorkTypeWrap	
Attributes	-	
Required?	Yes	
Repeatable?	No	
Super-elements	objectClassificationWrap	
Sub-elements	objectWorkType	
Equivalents	CDWA Lite	objectWorkTypeWrap
	museumdat	objectWorkTypeWrap
	SPECTRUM	[none]

Element partOfPlace

Description

Title	Part of Geographical Entity
General	Allows for indexing larger geographical entities.

Technical

Tag-name	partOfPlace	
Attributes	politicalEntity; geographicalEntity	
Required?	No	
Repeatable?	Yes	
Super-elements	repositoryLocation, place, partOfPlace	
Sub-elements	placeID, namePlaceSet, gml, partOfPlace, placeClassification	
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element periodName

Description

Title	Period

General	A period defining the range of dates. Data values should be controlled.
Technical	
Tag-name	periodName
Attributes	-
Required?	No
Repeatable?	No
Super-elements	event
Sub-elements	conceptID, term
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element place

Description	
Title	Place
General	Contains structured identifying and indexing information for a place.
Technical	
Tag-name	place
Attributes	politicalEntity; geographicalEntity
Required?	No
Repeatable?	No
Super-elements	subjectPlace
Sub-elements	placeID, namePlaceSet, gml, partOfPlace, placeClassification
Equivalents	CDWA Lite locationSet [partly]
	museumdat indexingLocationWrap
	SPECTRUM [none]

Element placeClassification

Description	
Title	Place Classification
General	A classification of the place, e.g. by geological complex, stratigraphic unit or habitat type.

Technical	
Tag-name	placeClassification
Attributes	type
Required?	No
Repeatable?	Yes
Super-elements	repositoryLocation, place, partOfPlace
Sub-elements	conceptID, term
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element placeID

Description	
Title	Place Identifier
General	A unique identifier for the place.
How to record	Preferably taken from a published authority file.

Technical	
Tag-name	placeID
Attributes	pref; type; source; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	repositoryLocation, place, partOfPlace
Sub-elements	-

Equivalents	CDWA Lite	[none]
	museumdat nameLocation	termsource and termsourceID attributes for
	SPECTRUM	Place reference number

Element qualifierMeasurements

Description

Title	Qualifier Measurements
General	A word or phrase that elaborates on the nature of the measurements of the work when necessary, as when the measurements are approximate.
How to record	Example values: approximate, sight, maximum, larges, smallest, average, variable, assembled, before restoration, before restoration, at corners, rounded, framed, with base, ...

Technical

Tag-name	qualifierMeasurements
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	objectMeasurements
Sub-elements	-
Equivalents	CDWA Lite	qualifierMeasurements
	museumdat	qualifierMeasurements
	SPECTRUM	Dimension value qualifier

Element recordID

Description

Title	Record ID
General	A unique record identification in the contributor's (local) system.

Technical

Tag-name	recordID
Attributes	pref; type; source; encodinganalog; label
Required?	Yes
Repeatable?	Yes
Super-elements	recordWrap
Sub-elements	-
Equivalents	CDWA Lite recordID
	museumdat recordID
	SPECTRUM [none]

Element recordInfoID

Description

Title	Record Info ID
General	Unique ID of the metadata.
How to record	Record Info ID has the same definition as Record ID but out of the context of original local system, such as a persistent identifier or an oai identifier (e.g., oai1:getty.edu:paintings/00001234 attribute type= oai).

Technical

Tag-name	recordInfoID
Attributes	pref; type; source; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	recordInfoSet
Sub-elements	-
Equivalents	CDWA Lite recordInfoID
	museumdat recordInfoID
	SPECTRUM [none]

Element recordInfoLink

Description	
Title	Record Info Link
General	Link of the metadata, e.g., to the object data sheet (not the same as link of the object).

Technical	
Tag-name	recordInfoLink
Attributes	pref; formatResource; xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	recordInfoSet
Sub-elements	-
Equivalents	CDWA Lite recordInfoLink
	museumdat recordInfoLink
	SPECTRUM [none]

Element recordInfoSet

Description	
Title	Record Metadata Information Set
General	Wrapper for metadata information about this record.

Technical	
Tag-name	recordInfoSet
Attributes	type
Required?	No
Repeatable?	Yes
Super-elements	recordWrap
Sub-elements	recordInfoID, recordInfoLink, recordRelID, recordMetadataLoc, recordMetadataDate
Equivalents	CDWA Lite recordInfoWrap
	museumdat recordInfoSet

	SPECTRUM [none]

Element recordMetadataDate

Description

Title	Record Metadata Date
General	Creation date or date modified of the metadata record. Format will vary depending upon implementation.

Technical

Tag-name	recordMetadataDate	
Attributes	type; source	
Required?	No	
Repeatable?	Yes	
Super-elements	recordInfoSet	
Sub-elements	-	
Equivalents	CDWA Lite	recordMetadataDate
	museumdat	recordMetadataDate
	SPECTRUM	[none]

Element recordMetadataLoc

Description

Title	Record Metadata Location
General	Pointer(s) to other metadata (administrative, technical, structural).

Technical

Tag-name	recordMetadataLoc
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	recordInfoSet
Sub-elements	-

Equivalents	CDWA Lite	recordMetadataLoc
	museumdat	recordMetadataLoc
	SPECTRUM	[none]

Element recordRelID

Description

Title	Record Relationship ID
General	Unique ID of the metadata of the related object.

Technical

Tag-name	recordRelID	
Attributes	pref; type; source; encodinganalog; label	
Required?	No	
Repeatable?	Yes	
Super-elements	recordInfoSet	
Sub-elements	-	
Equivalents	CDWA Lite	recordRelID
	museumdat	recordRelID
	SPECTRUM	[none]

Element recordRights

Description

Title	Rights for Record
General	Information about rights regarding the metadata provided in this record.

Technical

Tag-name	recordRights
Attributes	-
Required?	No
Repeatable?	Yes

Super-elements	recordWrap	
Sub-elements	rightsType, rightsDate, rightsHolder, creditLine	
Equivalents	CDWA Lite	recordRights [partly]
	museumdat	recordRights [partly]
	SPECTRUM	[none]

Element recordSource

Description

Title	Record Source
General	The source of information in this record, generally the repository or other institution.

Technical

Tag-name	recordSource	
Attributes	-	
Required?	Yes	
Repeatable?	Yes	
Super-elements	recordWrap	
Sub-elements	legalBodyID, legalBodyName, legalBodyWeblink	
Equivalents	CDWA Lite	recordSource
	museumdat	recordSource
	SPECTRUM	[none]

Element recordType

Description

Title	Record Type
General	Term establishing whether the record represents an individual item or a collection, series, or group of works.
How to record	Mandatory. Example values: item, collection, series, group, volume, fonds.

Technical	
Tag-name	recordType
Attributes	xml:lang; encodinganalog; label
Required?	Yes
Repeatable?	No
Super-elements	recordWrap
Sub-elements	-
Equivalents	CDWA Lite recordType
	museumdat recordType
	SPECTRUM [none]

Element recordWrap

Description	
Title	Record Wrapper
General	A wrapper for information about the record that contains the cataloguing information.

Technical	
Tag-name	recordWrap
Attributes	-
Required?	Yes
Repeatable?	No
Super-elements	administrativeMetadata
Sub-elements	recordID, recordType, recordSource, recordRights, recordInfoSet
Equivalents	CDWA Lite recordWrap
	museumdat recordWrap
	SPECTRUM [none]

Element relatedEvent

Description

Title	Related Event

Technical	
Tag-name	relatedEvent
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	relatedEventSet
Sub-elements	displayEvent, event

Element relatedEventRelType

Description	
Title	Related Event Relationship Type
General	A term describing the nature of the relationship between the described event and the related event.
How to record	Example values: sub-event of, related to.
Notes	For implementation of the data, note that relationships are conceptually reciprocal, but the Relationship Type is often different on either side of the relationship.

Technical		
Tag-name	relatedEventRelType	
Attributes	-	
Required?	No	
Repeatable?	No	
Super-elements	relatedEventSet	
Sub-elements	conceptID, term	
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element relatedEventSet

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

Technical	
Tag-name	relatedEventSet
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	event
Sub-elements	relatedEvent, relatedEventRelType
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element relatedResourceRelType

Description	
Title	Related Resource Relationship Type
General	A term describing the nature of the relationship between the resource at hand and the related resource.
How to record	Example values: part of, larger context for, related to, ...

Technical	
Tag-name	relatedResourceRelType
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	No
Super-elements	linkRelatedResource
Sub-elements	-
Equivalents	CDWA Lite relatedResourceRelType

	museumdat	relatedResourceRelType
	SPECTRUM	[none]

Element relatedWork

Description

Title	Related Work
General	Wrapper for the display and reference elements of a related work or object.

Technical

Tag-name	relatedWork
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	relatedWorksSet
Sub-elements	displayObject, object
Equivalents	CDWA Lite Corresponds partly to relatedWorkSet (without display).
	museumdat Corresponds partly to relatedWorkSet (without display).
	SPECTRUM [none]

Element relatedWorkRelType

Description

Title	Related Work Relationship Type
General	A term describing the nature of the relationship between the work at hand and the related entity.
How to record	Example values: part of, larger context for, model of, model for, study of, study forrendering of, copy of, related to.
Notes	For implementation of the data, note that relationships are conceptually reciprocal, but the Relationship Type is often different on either side of the relationship (e.g., one work is part

	of a second work, but from the point of view of the second record, the first work is the larger context for the second work). Whether or not relationships are physically reciprocal as implemented in systems is a local decision.

Technical	
Tag-name	relatedWorkRelType
Attributes	-
Required?	No
Repeatable?	No
Super-elements	relatedWorksSet
Sub-elements	conceptID, term
Equivalents	CDWA Lite　　　relatedWorkRelType
	museumdat　　　relatedWorkRelType
	SPECTRUM　　[none]

Element relatedWorksSet

Description	
Title	Related Work Set
General	A wrapper for a work, group, collection, or series that is directly related to the work being recorded.

Technical	
Tag-name	relatedWorksSet
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	relatedWorksWrap
Sub-elements	relatedWork, relatedWorkRelType
Equivalents	CDWA Lite　　　relatedWorkSet [semantically, however the structure is different]
	museumdat　　　relatedWorkSet [semantically, however the structure is different]

	SPECTRUM [none]

Element relatedWorksWrap

Description

Title	Related Works Wrapper
General	A wrapper for Related Works information.

Technical

Tag-name	relatedWorksWrap
Attributes	-
Required?	No
Repeatable?	No
Super-elements	objectRelationWrap
Sub-elements	relatedWorksSet
Equivalents	CDWA Lite relatedWorksWrap
	museumdat relatedWorksWrap
	SPECTRUM [none]

Element repositoryLocation

Description

Title	Location
General	Location of the object, especially relevant for architecture and archaeological sites.

Technical

Tag-name	repositoryLocation
Attributes	politicalEntity; geographicalEntity
Required?	No
Repeatable?	No
Super-elements	repositorySet
Sub-elements	placeID, namePlaceSet, gml, partOfPlace, placeClassification

Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element repositoryName

Description

Title	Custody: Institution / Person
General	Unambiguous identification, designation and weblink of the institution of custody.

Technical

Tag-name	repositoryName
Attributes	-
Required?	No
Repeatable?	No
Super-elements	repositorySet
Sub-elements	legalBodyID, legalBodyName, legalBodyWeblink
Equivalents	CDWA Lite	locationName [partly]
	museumdat	repositoryName
	SPECTRUM	[none]

Element repositorySet

Description

Title	Custody/Repository Location Set
General	Wrapper for designation and identification of the institution of custody, and possibly an indication of the exact location of the object.

Technical

Tag-name	repositorySet
Attributes	repositoryType

Required?	No
Repeatable?	Yes
Super-elements	repositoryWrap
Sub-elements	repositoryName, workID, repositoryLocation
Equivalents	CDWA Lite [none]
	museumdat repositorySet [with extended sub-elements]
	SPECTRUM [none]

Element repositoryWrap

Description

Title	Custody/Repository Location (Wrapper)
General	Wrapper for Repository/ Location information.

Technical

Tag-name	repositoryWrap
Attributes	-
Required?	No
Repeatable?	No
Super-elements	objectIdentificationWrap
Sub-elements	repositorySet
Equivalents	CDWA Lite locationWrap [partly]
	museumdat repositoryWrap [see repositoryName and repositoryLocation]
	SPECTRUM [none]

Element resourceID

Description

Title	Resource Identification Number
General	The unique numeric or alphanumeric identification of the resource.

Technical	
Tag-name	resourceID
Attributes	pref; type; source; encodinganalog; label
Required?	No
Repeatable?	No
Super-elements	resourceSet
Sub-elements	-
Equivalents	CDWA Lite resourceID
	museumdat resourceID
	SPECTRUM [none]

Element resourceMetadataLoc

Description	
Title	Resource Metadata Location
General	Pointer(s) to other metadata (administrative, technical, structural).

Technical	
Tag-name	resourceMetadataLoc
Attributes	type
Required?	No
Repeatable?	Yes
Super-elements	resourceSet
Sub-elements	-
Equivalents	CDWA Lite resourceMetadataLoc
	museumdat resourceMetadataLoc
	SPECTRUM [none]

Element resourceRelType

Description

Title	Resource Relationship Type
General	The relationship of an image or other resource to the work being described.
How to record	Example values: conservation image, documentary image, contextual image, historical image, reconstruction, installation image...

Technical	
Tag-name	resourceRelType
Attributes	type
Required?	No
Repeatable?	Yes
Super-elements	resourceSet
Sub-elements	-
Equivalents	CDWA Lite resourceRelType
	museumdat resourceRelType
	SPECTRUM [none]

Element resourceSet

Description	
Title	Resource Set
General	Contains sub-elements for a structured resource description.

Technical	
Tag-name	resourceSet
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	resourceWrap
Sub-elements	linkResource, resourceID, resourceRelType, resourceType, rightsResource, resourceViewDescription, resourceViewType, resourceViewSubjectTerm, resourceViewDate, resourceSource, linkRelatedResource, resourceMetadataLoc

Equivalents	CDWA Lite	resourceSet
	museumdat	resourceSet
	SPECTRUM	[none]

Element resourceSource

Description

Title	Resource Source
General	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.
How to record	Include this sub-element when the source of the image/resource differs from the source named in Record Source.

Technical

Tag-name	resourceSource	
Attributes	type	
Required?	No	
Repeatable?	Yes	
Super-elements	resourceSet	
Sub-elements	-	
Equivalents	CDWA Lite	resourceSource
	museumdat	resourceSource
	SPECTRUM	[none]

Element resourceType

Description

Title	Resource Type
General	The generic identification of the medium of the image or other resource.
How to record	Controlled. Example values: digital image, photograph, slide, videotape, X-ray photograph, negative.

Technical	
Tag-name	resourceType
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	resourceSet
Sub-elements	conceptID, term
Equivalents	CDWA Lite resourceType
	museumdat resourceType
	SPECTRUM [none]

Element resourceViewDate

Description	
Title	Resource View Date
General	A date or range of dates associated with the creation or production of the image.
Notes	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. Format will vary depending upon implementation.

Technical	
Tag-name	resourceViewDate
Attributes	-
Required?	No
Repeatable?	No
Super-elements	resourceSet
Sub-elements	-
Equivalents	CDWA Lite resourceViewDate
	museumdat resourceViewDate

	SPECTRUM Content - date

Element resourceViewDescription

Description

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

Technical

Tag-name	resourceViewDescription
Attributes	type
Required?	No
Repeatable?	No
Super-elements	resourceSet
Sub-elements	-
Equivalents	CDWA Lite resourceViewDescription
	museumdat resourceViewDescription
	SPECTRUM [none]

Element resourceViewSubjectTerm

Description

Title	Resource View Subject Term
General	Terms or phrases that characterize the subject matter of the work as it is depicted in a specific image or other resource.
How to record	Controlled. Example values: IconClass, museumsvokabular.de, SWD, AAT.

Technical

Tag-name	resourceViewSubjectTerm
Attributes	type
Required?	No

Repeatable?	Yes
Super-elements	resourceSet
Sub-elements	conceptID, term
Equivalents	CDWA Lite resourceViewSubjectTerm
	museumdat resourceViewSubjectTerm
	SPECTRUM [none]

Element resourceViewType

Description

Title	Resource View Type
General	The specific vantage point or perspective of the view.

Technical

Tag-name	resourceViewType
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	resourceSet
Sub-elements	conceptID, term
Equivalents	CDWA Lite resourceViewType
	museumdat resourceViewType
	SPECTRUM [none]

Element resourceWrap

Description

Title	Resource Wrapper
General	A wrapper for image information.
Notes	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.

Technical	
Tag-name	resourceWrap
Attributes	-
Required?	No
Repeatable?	No
Super-elements	administrativeMetadata
Sub-elements	resourceSet
Equivalents	CDWA Lite resourceWrap
	museumdat resourceWrap
	SPECTRUM [none]

Element rightsDate

Description	
Title	Rights Date
General	The date on which a right is or was current.

Technical	
Tag-name	rightsDate
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	rightsWorkSet, recordRights, rightsResource
Sub-elements	earliestDate, latestDate
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element rightsHolder	
Description	
Title	Rights Holder
General	The holder of the right.
Technical	
Tag-name	rightsHolder
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	rightsWorkSet, recordRights, rightsResource
Sub-elements	legalBodyID, legalBodyName, legalBodyWeblink
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element rightsResource	
Description	
Title	Rights for Resource
General	Information about rights regarding the image or other resource.
How to record	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 Instituition (Washing DC), " but the image rights are "Photo Frank Khoury.")
Technical	
Tag-name	rightsResource
Attributes	-
Required?	No
Repeatable?	Yes

Super-elements	resourceSet	
Sub-elements	rightsType, rightsDate, rightsHolder, creditLine	
Equivalents	CDWA Lite	rightsResource [partly]
	museumdat	rightsResource [partly]
	SPECTRUM	[none]

Element rightsType

Description

Title	Rights Type
General	The specific type of right being recorded.
How to record	For example: copyright, publication right, data protection right, trademark.

Technical

Tag-name	rightsType	
Attributes	xml:lang; encodinganalog; label	
Required?	No	
Repeatable?	Yes	
Super-elements	rightsWorkSet, recordRights, rightsResource	
Sub-elements	-	
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	Right type

Element rightsWorkSet

Description

Title	Rights for Work Set
General	Information about rights management; may include copyright and other intellectual property statements required for use of the metadata.

Technical	
Tag-name	rightsWorkSet
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	rightsWorkWrap
Sub-elements	rightsType, rightsDate, rightsHolder, creditLine
Equivalents	CDWA Lite rightsWork / rightsResource [semantics of the simple text elements]
	museumdat rightsWork / rightsResource [semantics of the simple text elements]
	SPECTRUM [none]

Element rightsWorkWrap

Description	
Title	Rights for Work Wrapper
General	Wrapper for rights information.

Technical	
Tag-name	rightsWorkWrap
Attributes	-
Required?	No
Repeatable?	No
Super-elements	administrativeMetadata
Sub-elements	rightsWorkSet
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element roleActor

Description	
Title	Role Actor
General	Role of the Actor in the event.
How to record	Controlled.

Technical		
Tag-name	roleActor	
Attributes	-	
Required?	No	
Repeatable?	Yes	
Super-elements	actorInRole	
Sub-elements	conceptID, term	
Equivalents	CDWA Lite	roleCreator
	museumdat	roleActor
	SPECTRUM	[none]

Element roleInEvent

Description	
Title	Role in Event
General	The role played within this event by the object being recorded.

Technical		
Tag-name	roleInEvent	
Attributes	-	
Required?	No	
Repeatable?	Yes	
Super-elements	event	
Sub-elements	conceptID, term	
Equivalents	CDWA Lite	[none]
	museumdat	[none]

	SPECTRUM	[none]

Element scaleMeasurements

Description

Title	Scale Measurements
General	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.
How to record	Example values for scale: numeric (e.g., 1 inch = 1 foot), full-size, life-size, half size,monumental. and others as recommended in CCO and CDWA. Combine this tag with Measurement Sets for numeric scales. For measurementsSet type for Scale, use "base" for the left side of the equation, and "target" for the right side of the equation).

Technical

Tag-name	scaleMeasurements	
Attributes	xml:lang; encodinganalog; label	
Required?	No	
Repeatable?	Yes	
Super-elements	objectMeasurements	
Sub-elements	-	
Equivalents	CDWA Lite	scaleMeasurements
	museumdat	scaleMeasurements
	SPECTRUM	[none]

Element shapeMeasurements

Description

Title	Shape Measurements
General	The shape of a work, used for unusual shapes (e.g., an oval painting).
How to record	Example values: oval, round, square, rectangular, irregular, ...

Technical	
Tag-name	shapeMeasurements
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	objectMeasurements
Sub-elements	-
Equivalents	CDWA Lite shapeMeasurements
	museumdat shapeMeasurements
	SPECTRUM [none]

Element sourceAppellation

Description	
Title	Source Appellation
General	The source for the appellation, generally a published source.

Technical	
Tag-name	sourceAppellation
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	eventName, legalBodyName, namePlaceSet, nameActorSet
Sub-elements	-
Equivalents	CDWA Lite e.g. sourceTitle, sourceNameCreator
	museumdat e.g. sourceTitle, sourceNameActor
	SPECTRUM [none]

Element sourceDescriptiveNote

Description

Title	Source Description/Descriptive Note
General	
Technical	
Tag-name	sourceDescriptiveNote
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	objectDescriptionSet, eventDescriptionSet
Sub-elements	-
Equivalents	CDWA Lite sourceDescriptiveNote
	museumdat sourceDescriptiveNote
	SPECTRUM [none]

Element sourceMaterialsTech

Description	
Title	Source Materials Techniques
General	The source of the information about materials and technique, often used when citing a published source of watermarks.
Technical	
Tag-name	sourceMaterialsTech
Attributes	xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes
Super-elements	materialsTech
Sub-elements	-
Equivalents	CDWA Lite sourceMaterialsTech
	museumdat sourceMaterialsTech
	SPECTRUM [none]

Element sourceStateEdition

Description

Title	Source Display State/Edition
General	The published source of the state or edition information.

Technical

Tag-name	sourceStateEdition	
Attributes	xml:lang; encodinganalog; label	
Required?	No	
Repeatable?	Yes	
Super-elements	displayStateEditionWrap	
Sub-elements	-	
Equivalents	CDWA Lite	sourceStateEdition
	museumdat	sourceStateEdition
	SPECTRUM	[none]

Element subject

Description

Title	Subject
General	Contains sub-elements for a structured subject description. These identify, describe, and/or interpret what is depicted in and by a work or what the work is about.

Technical

Tag-name	subject
Attributes	type
Required?	No
Repeatable?	Yes
Super-elements	subjectSet
Sub-elements	extentSubject, subjectConcept, subjectActor, subjectDate, subjectEvent, subjectPlace, subjectObject

Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element subjectActor

Description

Title	Subject Actor Set
General	A person, group, or institution depicted in or by an object, or the object is about.

Technical

Tag-name	subjectActor
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	subject
Sub-elements	displayActor, actor
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element subjectConcept

Description

Title	Subject Term
General	Subject terms.
How to record	May include iconography, themes from literature, or generic terms describing the material world, or topics (e.g., concepts, themes, or issues). However, references to people, events, places are indicated in the the respective sub-elements Subject: Actor, Subject: Event, Subject: Place. Data values should be controlled, e.g. Iconclass, AAT, museumsvokabular.de, SWD.

Technical	
Tag-name	subjectConcept
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	subject
Sub-elements	conceptID, term
Equivalents	CDWA Lite subjectTerm [but restricted to concepts - cf. new sub-elements subjectActor, subjectEvent, subjectPlace]
	museumdat subjectTerm [but restricted to concepts - cf. new sub-elements subjectActor, subjectEvent, subjectPlace]
	SPECTRUM [none]

Element subjectDate

Description	
Title	Subject Date Set
General	A time specification or period depicted in or by an object, or the object is about.

Technical	
Tag-name	subjectDate
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	subject
Sub-elements	displayDate, date
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM [none]

Element subjectEvent

Description	
Title	Subject Event Set
General	An event depicted in or by an object, or the object is about.

Technical		
Tag-name	subjectEvent	
Attributes	-	
Required?	No	
Repeatable?	Yes	
Super-elements	subject	
Sub-elements	displayEvent, event	
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element subjectObject

Description	
Title	Subject Object
General	An object - e.g. a building or a work of art depicted in or by an object, or the object is about.

Technical		
Tag-name	subjectObject	
Attributes	-	
Required?	No	
Repeatable?	Yes	
Super-elements	subject	
Sub-elements	displayObject, object	
Equivalents	CDWA Lite	[none]
	museumdat	[none]

	SPECTRUM	[none]

Element subjectPlace

Description

Title	Subject Place Set
General	A place depicted in or by an object, or the object is about.

Technical

Tag-name	subjectPlace	
Attributes	-	
Required?	No	
Repeatable?	Yes	
Super-elements	subject	
Sub-elements	displayPlace, place	
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element subjectSet

Description

Title	Subject Set
General	Wrapper for display and index elements for one set of subject information.

Technical

Tag-name	subjectSet
Attributes	-
Required?	No
Repeatable?	Yes
Super-elements	subjectWrap
Sub-elements	displaySubject, subject

Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element subjectWrap

Description

Title	Subject Wrapper
General	A wrapper for Subject information.

Technical

Tag-name	subjectWrap
Attributes	-
Required?	No
Repeatable?	No
Super-elements	objectRelationWrap
Sub-elements	subjectSet
Equivalents	CDWA Lite	indexingSubjectWrap [partly]
	museumdat	indexingSubjectWrap [partly]
	SPECTRUM	[none]

Element term

Description

Title	Term / Label
General	A name for the concept, used for indexing.

Technical

Tag-name	term
Attributes	pref; addedSearchTerm; xml:lang; encodinganalog; label
Required?	No
Repeatable?	Yes

Super-elements	category, objectWorkType, resourceType, resourceViewType, relatedWorkRelType, subjectConcept, eventType, roleInEvent, culture, periodName, eventMethod, nationalityActor, roleActor, relatedEventRelType
Sub-elements	-
Equivalents	CDWA Lite [none]
	museumdat [none]
	SPECTRUM Object name; Object production date [period]; Object production people; Technique; [SPECTRUM event type term]; Field collection date [Date - period]; Object status; Phase; Sex; Field collection method; Geological complex name; Habitat; Stratigraphic unit name; Age; Colour; Content - activity; Content - concept; Content - date [period]; Content - object; Content - other; Content - people; Form; Material; Style; Associated activity; Associated concept; Association type; Associated cultural affinity; Associated date [period]; Associated event date [period]; Associated event people; Associated people; Ownership dates [period]; Acquisition method; Date - period; Organisation's foundation place; Person's association; Person's group; Person's nationality

Element termMaterialsTech

Description

Title	Term Materials Techniques
General	A term to index materials and/or technique.
How to record	Example values: technique, material, implement, mark (e.g., watermark or other mark inherent in the material)

Technical

Tag-name	termMaterialsTech
Attributes	type
Required?	No
Repeatable?	Yes
Super-elements	materialsTech
Sub-elements	conceptID, term

Equivalents	CDWA Lite	termMaterialsTech
	museumdat	termMaterialsTech
	SPECTRUM	[none]

Element thingPresent

Description

Title	Thing Present
General	References another object that was present at this same event.

Technical

Tag-name	thingPresent	
Attributes	-	
Required?	No	
Repeatable?	Yes	
Super-elements	event	
Sub-elements	displayObject, object	
Equivalents	CDWA Lite	[none]
	museumdat	[none]
	SPECTRUM	[none]

Element titleSet

Description

Title	Title or Object Name Set
General	Wrapper for one title or object name and its related information.
How to record	If there is more than one title, repeat the Title Set element. [none]

Technical

Tag-name	titleSet
Attributes	type
Required?	Yes

Repeatable?	Yes	
Super-elements	titleWrap	
Sub-elements	appellationValue, sourceAppellation	
Equivalents	CDWA Lite	titleSet
	museumdat	titleSet
	SPECTRUM	[none]

Element titleWrap

Description

Title	Title or Object Name Wrapper
General	Wrapper for Object name / Title information.

Technical

Tag-name	titleWrap	
Attributes	-	
Required?	Yes	
Repeatable?	No	
Super-elements	objectIdentificationWrap	
Sub-elements	titleSet	
Equivalents	CDWA Lite	titleWrap
	museumdat	titleWrap
	SPECTRUM	[none]

Element vitalDatesActor

Description

Title	Vital Dates Actor
General	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.
How to record	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.
Although this is not a mandatory field the use of birth date and death date is strongly recommended in the case of artists.
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. |

Technical	
Tag-name	vitalDatesActor
Attributes	-
Required?	No
Repeatable?	No
Super-elements	actor, actor
Sub-elements	-
Equivalents	CDWA Lite vitalDatesCreator
	museumdat vitalDatesActor
	SPECTRUM Organisation's foundation date [attribute birthDate]; Organisation's dissolution date [attribute deathDate]; Person's birth date [attribute birthDate]; Person's death date [attribute deathDate]

Element workID	

Description	
Title	Custody: Identification number
General	An unambiguous numeric or alphanumeric identification number, assigned to the object by the institution of custody.

Technical	
Tag-name	workID
Attributes	-
Required?	No
Repeatable?	Yes

Super-elements	repositorySet
Sub-elements	-
Equivalents	CDWA Lite workID
	museumdat workID
	SPECTRUM Object number; Other number [type attribute='Other number type']; Field collection number [type attribute='Field-collection-number']

Alphabetical list of attributes

Attribute actorType	
Description	
General	Indicates if the actor is an individual, a group of individuals or a corporation (firm or other corporate body).
Technical	
Attribute name	actorType
Used in elements	actor, actor
Equivalents	CDWA Lite nameCreator@type
	museumdat nameActor@type
	SPECTRUM [none]

Attribute addedSearchTerm	
Description	
How to record	Has the two values: "yes" or "no". "yes" indicates, that the term is an additional term which is derived from an underlying controlled vocabulary (eg. synonym, generic term, superordinate term) and should be used only for retrieval. "no" is default.
Technical	
Attribute name	addedSearchTerm
Used in elements	term,
Equivalents	CDWA Lite [none]
	museumdat @imported
	SPECTRUM [none]

Attribute birthDate	
Description	

How to record	If actor is a person, their year of birth. If actor is a corporation or group, the year of founding.

Technical	
Attribute name	birthDate
Used in elements	vitalDatesActor
Equivalents	CDWA Lite vitalDatesCreator@birthDate [creator generalized into actor]
	museumdat vitalDatesActor@birthDate
	SPECTRUM Person's birth date; Organisation's foundation date

Attribute deathDate

Description	
How to record	If actor is a person, year of death. If actor is a corporation or group, year of dissolution.

Technical	
Attribute name	deathDate
Used in elements	vitalDatesActor
Equivalents	CDWA Lite vitalDatesCreator@deathDate [creator generalized into actor]
	museumdat vitalDatesActor@deathDate
	SPECTRUM Person's death date; Organisation's dissolution date

Attribute earliestdate

Description	
General	Year that delimits the view date associated with the creation or production of the resource as earliest point in time.

Technical	
Attribute name	earliestdate

Used in elements	resourceViewDate	
Equivalents	CDWA Lite	resourceViewDate@earliestdate
	museumdat	resourceViewDate@earliestdate
	SPECTRUM	Date - earliest/single

Attribute encodinganalog

Description

How to record	Elements with data values are accompanied by the attributes encodinganalog and label to indicate the format of the data source from which the data were migrated. The attribute encodinganalog refers to the internal field label of the source database. The source format is indicated in the attribute relatedencoding of the lidoWrap

Technical

Attribute name	encodinganalog	
Used in elements	workID, resourceViewDate, term, lidoRecID, recordID, recordInfoID, recordRelID, resourceID, eventID, legalBodyID, placeID, conceptID, actorID, objectID, displayState, displayEdition, sourceStateEdition, recordType, recordMetadataLoc, relatedResourceRelType, labelRelatedResource, displaySubject, extentSubject, displayEvent, displayActor, displayDate, extentMaterialsTech, sourceMaterialsTech, displayPlace, descriptiveNoteValue, sourceDescriptiveNote, rightsType, creditLine, displayObject, genderActor, displayMaterialsTech, extentMeasurements, qualifierMeasurements, formatMeasurements, shapeMeasurements, scaleMeasurements, displayObjectMeasurements, attributionQualifierActor, extentActor, displayActorInRole, recordInfoLink, legalBodyWeblink, objectWebResource, appellationValue, sourceAppellation, vitalDatesActor, earliestDate, latestDate, measurementsSet,	
Equivalents	CDWA Lite	[none]
	museumdat	encodinganalog
	SPECTRUM	[none]

Attribute formatResource

Description	
General	Indicates the internet media type, e.g. the file format of the given web resource.
How to record	Data values should be taken from the official IANA list (see http://www.iana.org/assignments/media-types/). Includes: text/html, text/xml, image/jpeg, audio/mpeg, video/mpeg, application/pdf.

Technical		
Attribute name	formatResource	
Used in elements	recordInfoLink, legalBodyWeblink, objectWebResource	
Equivalents	CDWA Lite	formatResource
	museumdat	formatResource
	SPECTRUM	[none]

Attribute geographicalEntity

Description	
General	Qualifies the type of the given place entity according to geographical structures.
How to record	Data values can include: natural environment, landscape.

Technical		
Attribute name	geographicalEntity	
Used in elements	repositoryLocation, place, partOfPlace,	
Equivalents	CDWA Lite	[none]
	museumdat	geographicalEntity
	SPECTRUM	Place feature type

Attribute label

Description	
How to record	Elements with data values are accompanied by the attributes encodinganalog and label, to indicate the format of the data source from which the data were migrated. The attribute label

	refers to the external label of a data field at the visible user interface. The source format is indicated in the attribute
Technical	
Attribute name	label
Used in elements	workID, resourceViewDate, term, lidoRecID, recordID, recordInfoID, recordRelID, resourceID, eventID, legalBodyID, placeID, conceptID, actorID, objectID, displayState, displayEdition, sourceStateEdition, recordType, recordMetadataLoc, relatedResourceRelType, labelRelatedResource, displaySubject, extentSubject, displayEvent, displayActor, displayDate, extentMaterialsTech, sourceMaterialsTech, displayPlace, descriptiveNoteValue, sourceDescriptiveNote, rightsType, creditLine, displayObject, genderActor, displayMaterialsTech, extentMeasurements, qualifierMeasurements, formatMeasurements, shapeMeasurements, scaleMeasurements, displayObjectMeasurements, attributionQualifierActor, extentActor, displayActorInRole, recordInfoLink, legalBodyWeblink, objectWebResource, appellationValue, sourceAppellation, vitalDatesActor, earliestDate, latestDate, measurementsSet,
Equivalents	CDWA Lite [none]
	museumdat label
	SPECTRUM [none]

Attribute latestdate	
Description	
General	Year that delimits the view date associated with the creation or production of the resource as latest point in time.
Technical	
Attribute name	latestdate
Used in elements	resourceViewDate
Equivalents	CDWA Lite resourceViewDate@latestdate
	museumdat resourceViewDate@latestdate

	SPECTRUM	Date - latest

Attribute linkscheme

Description		
How to record	Format of the source schema if the link provides a metadata record.	

Technical		
Attribute name	linkscheme	
Used in elements	linkRelatedResource,	
Equivalents	CDWA Lite	linkscheme
	museumdat	linkscheme
	SPECTRUM	[none]

Attribute politicalEntity

Description		
General	Qualifies the type of the given place entity according to political structures.	
How to record	Data values can include: city, county, country, civil parish.	

Technical		
Attribute name	politicalEntity	
Used in elements	repositoryLocation, place, partOfPlace,	
Equivalents	CDWA Lite	[none]
	museumdat	politicalEntity
	SPECTRUM	Place name type

Attribute pref

Description	
General	Qualifies the value as a preferred or alternative variant.
How to record	Data values: "preferred" or "alternate"

Technical	
Attribute name	pref
Used in elements	term, lidoRecID, recordID, recordInfoID, recordRelID, resourceID, eventID, legalBodyID, placeID, conceptID, actorID, objectID, recordInfoLink, legalBodyWeblink, objectWebResource, appellationValue,
Equivalents	CDWA Lite pref [but value list restricted]
	museumdat pref
	SPECTRUM [none]

Attribute relatedencoding

Description

How to record	Indicates the format of the data source from which the data were migrated. For each sub-element with data values then the related source data fields can be referenced through the attributes encodinganalog and label.

Technical

Attribute name	relatedencoding
Used in elements	lidoWrap
Equivalents	CDWA Lite [none]
	museumdat museumdatWrap@relatedencoding
	SPECTRUM [none]

Attribute repositoryType

Description

General	Qualifies the repository as a former or the current repository.
How to record	Data values: "current" or "former"

Technical

Attribute name	repositoryType
Used in elements	repositorySet

Equivalents	CDWA Lite	[none]
	museumdat	repositorySet@type
	SPECTRUM	[none]

Attribute source

Description

| *General* | Source of the information given in the holding element. |

Technical

Attribute name	source
Used in elements	recordMetadataDate, lidoRecID, recordID, recordInfoID, recordRelID, resourceID, eventID, legalBodyID, placeID, conceptID, actorID, objectID, vitalDatesActor, earliestDate, latestDate,
Equivalents	CDWA Lite	termsource
	museumdat	termsource
	SPECTRUM	Unit of information scheme

Attribute type

Description

| *General* | Qualifies the type of information given in the holding element. |
| *How to record* | Will generally have to be populated with a given value list. |

Technical

| *Attribute name* | type |
| *Used in elements* | classificationWrap, titleWrap, inscriptionsWrap, workID, recordMetadataDate, recordInfoSet, linkResource, resourceRelType, resourceViewDescription, resourceViewSubjectTerm, resourceSource, resourceMetadataLoc, subject, termMaterialsTech, eventPlace, lidoRecID, recordID, recordInfoID, recordRelID, resourceID, eventID, legalBodyID, placeID, conceptID, actorID, objectID, objectDescriptionSet, eventDescriptionSet, placeClassification, objectNote, measurementsSet, |

Equivalents	CDWA Lite	type
	museumdat	type
	SPECTRUM	[none]

Attribute unit

Description

| *General* | The unit of the measurement. |
| *How to record* | E.g. cm, mm, m, g, kg, kb, Mb or Gb. |

Technical

Attribute name	unit
Used in elements	measurementsSet
Equivalents	CDWA Lite	measurementsSet@unit
	museumdat	measurementsSet@unit
	SPECTRUM	Dimension measurement unit

Attribute value

Description

| *General* | The value of the measurement. |
| *How to record* | E.g. a numeric value. |

Technical

Attribute name	value
Used in elements	measurementsSet
Equivalents	CDWA Lite	measurementsSet@value
	museumdat	measurementsSet@value
	SPECTRUM	Dimension value