I. Identify desired metadata elements for the collection

Source Data Structure Standard	XML Element Name	Requirement (Mandatory/Optional? Repeatable?) M, O, R.	Element Parts & Level of Requirement	Explanation and Description of the Element
MODS 3.7	titleInfo	M, R	title (M) nonSort (O)	A word, phrase, character, or group of characters, normally appearing in a resource, that names it or the work contained in it.
MODS 3.7	relatedItem	O, R	titleInfo (M) identifier (O)	Information that identifies other resources related to the one being described.
CDWA Lite	objectWorkType	M, R		The kind of object or work described.
MODS 3.7	typeOfResource	M, R		A term that specifies the characteristics and general type of content of the resource.
MODS 3.7	originInfo	M, R	place (O, R) dateIssued (O, R) issuance (O, R) publisher (O, R)	Information about the origin of the resource, including place of origin or publication, publisher/originator, and dates associated with the resource.

UNCG	imageRef	M, R	imageTitle (M) imageType (O, R) imageFormat (M) imageDate (O) imageColor (M) worksDepicted (M, R) imageCopyright (O) imageCopyrightHolder (O, R) relatedImage (O, R)	An identification of the images that depict the work being cataloged. Adopted from CDWA Related Visual Documentation category.
MODS 3.7	location	O, R	physicalLocation (O, R) url (O, R)	Identifies the institution or repository holding the resource, the physical location of the resource, and/or the electronic location in the form of the digital resource in the form of a URL.
CDWA Lite	displayCreator	R		The name, brief biographical information, and roles (if necessary) of the named creator or creators in the design and production of the work, 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 creator, make a reference to the presumed culture or nationality of the unknown creator.

CDWA Lite	displayCreationDate	R		A concise description of the date or range of dates associated with the creation, design, production, presentation, performance, construction, or alteration of the work or its components, presented in a syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance.
CDWA Lite	indexingCreatorSet	M, R	nameCreatorSet (M, R) vitalDatesCreator (O, R) roleCreator (M, R) nationalityCreator (O, R)	A wrapper for creator indexing elements. The elements refer to the creation, design, execution, or production of a work of art or architecture and its components, including all those responsible for the creation of the work or items in the group, the dates of that activity, and where the creation took place.
CDWA Lite	inscriptions	O, R		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.
LIDO 1.0	objectMeasurementsSet	O, R	displayObjectMeasurements (O, R) objectMeasurements (O) extentMeasurements(O)	A wrapper for display and index elements for dimensions, or other measurements, of the object/work in focus. Repeated to record measurements of different parts of the

				object/work. Contained in objectMeasurementsWrap.
LIDO 1.0	eventMaterialsTech	O, R	displayMaterialsTech (O, R) materialsTech (O, R)	Structured information about the materials and techniques used for or incorporated in the object/work in focus.
MODS 3.7	classification	O, R		A designation applied to a resource that indicates the subject by applying a formal system of coding and organizing resources according to subject areas.
MODS 3.7	identifier	M, R		Contains a unique standard number or code that distinctively identifies a resource.
MODS 3.7	language	O, R	languageTerm (M, R) scriptTerm (M, R)	A designation of the language in which the content of a resource is expressed.
MODS 3.7	note	O, R		General textual information relating to a resource.
MODS 3.7	subject	O, R	topic (O, R) geographic (O, R) temporal (O, R) name (O, R)	A term or phrase representing the primary topic(s) on which a work is focused.
CDWA Lite	culture	O, R		The name of the culture, people, or nationality from which the work originated
MODS 3.7	abstract	O, R		A summary of the content of the resource.

UNCG	copyright	M, R	copyrightStatement (M, R) coprightHolderName (O) copyrightCitations (O, R) copyrightRemarks (O,R)	An identification of the individual or group that holds the rights to use, exhibit, or reproduce a work along with an indication of any existing restrictions on its reproduction, exhibition, or use.
MODS 3.7	recordInfo	O	recordContentSource (O) recordCreationDate (O) recordChangeDate (O) recordIdentifier (O) recordOrigin (O) descriptionStandard (O)	Information about the record, typically for administrative purposes.

I. Selection Explanation

1. **Data Structure Standard:** MODS 3.7
   XML Element Name: titleInfo
   Subelements: title, nonSort

   This element was selected because it captures the most important and basic information about the entry.

2. **Data Structure Standard:** MODS 3.7
   XML Element Name: relatedItem
   Subelements: titleInfo, identifier

   This element was selected because it allows us to capture any other items in the collection related to the one being described.

3. **Data Structure Standard:** CDWA Lite
   XML Element Name: objectWorkType
   Subelements: N/A

   This element was selected because it defines the work itself as distinct from the image and the record.

4. **Data Structure Standard:** MODS 3.7
   XML Element Name: typeofResource
   Subelements: N/A

   This element was selected because it characterizes the physical or digital format of the original resource, which is separate from the objectWorkType element. This element also allows for attributes to define the displayLabel for how the information will appear in the item record.

5. **Data Structure Standard:** MODS 3.7
   XML Element Name: originInfo
   Subelements: place, dateIssued, issuance, publisher

   This element was selected to provide information related to original creation or production of the work.

6. **Data Structure Standard:** UNCG
   XML Element Name: imageRef
   Subelements: imageTitle, imageType, imageFormat, imageDate, imageColor,　　worksDepicted, imageCopyright, imageCopyrightHolder, relatedImage

   This element was selected because it allows us to define the image(s) of the work separately from the work itself (described by objectWorkType). We chose to change the name from imageReference used by CDWA to make the purpose of the element clearer.

7. **Data Structure Standard:** MODS 3.7
   XML Element Name: location
   Subelements: physicalLocation, url

   This element was selected because it is able to capture the location of both the object and the record.

8. **Data Structure Standard:** CDWA Lite
   XML Element Name: displayCreator
   Subelements: N/A

   This element was selected because it provides the end user with the necessary information related to the creator of the work without the extra complexity that the indexing elements provide.

9. **Data Structure Standard:** CDWA Lite

XML Element Name: displayCreationDate
Subelements: N/A

This element was selected because it captures information about the creation date for the object or work in a simplified manner.

10. **Data Structure Standard:** CDWA Lite
    XML Element Name: indexingCreatorSet
    Subelements: nameCreatorSet, vitalDatesCreator, roleCreator, nationalityCreator

    This element was selected because it captures data about the different levels of creation involved in the object.

11. **Data Structure Standard:** CDWA Lite
    XML Element Name: inscriptions
    Subelements: N/A

    This element was selected because it allows for the inclusion of any text included on the object itself that isn't captured in the record.

12. **Data Structure Standard:** LIDO 1.0
    XML Element Name: objectMeasurementsSet
    Subelements: displayObjectMeasurements, objectMeasurements, extentMeasurements
    This element was selected to provide structured indexed information related to the object or work's measurements, and to ensure the display of this information is user friendly.

13. **Data Structure Standard:** LIDO 1.0
    XML Element Name: eventMaterialsTech
    Subelements: displayMaterialsTech, materialsTech

    This element was selected to encompass structured information related to the materials and techniques used to create the object or work being cataloged. The subelements provide controlled information related to the materials and techniques used to create the object or work.

14. **Data Structure Standard:** MODS 3.7
    XML Element Name: classification
    Subelements: N/A

    This element was selected because it allows us to apply a formal system for organizing the resource by the subject or collection it belongs to.

15. **Data Structure Standard:** MODS 3.7
    XML Element Name: identifier
    Subelements: N/A

    This element was selected because it includes a wide range of identifier options to apply to a resource for greater discoverability and accessibility.

16. **Data Structure Standard:** MODS 3.7
    XML Element Name: language
    Subelements: languageTerm, scriptTerm

    This element was selected because it easily defines and applies the language(s) of a resource.

17. **Data Structure Standard:** MODS 3.7
    XML Element Name: note
    Subelements: N/A

    This element was selected because it directly corresponds with the 'note' field in the LOC exhibit.

18. **Data Structure Standard:** MODS 3.7
    XML Element Name: subject
    Subelements: topic, geographic, temporal, name

This element was selected because it assigns a formal subject heading of the cataloger's choosing and then allows the use of subelements to make the main subject more specific as needed.

19. **Data Structure Standard:** CDWA Lite
XML Element Name: culture
Subelements: N/A

This element was selected because it gives a separate field to recognize and classify a work's cultural heritage.

20. **Data Structure Standard:** MODS 3.7
XML Element Name: abstract
Subelements: N/A

This element was selected because it allows us to provide a brief description about the resource and allows us to change the display label to an alternative term that works best with our collection.

21. **Data Structure Standard:** UNCG
XML Element Name: copyright
Subelements: copyrightStatement, coprightHolderName, copyrightCitations, copyrightRemarks

This element was selected because it easily and clearly captures information about the copyright information for the object and any manifestations.

22. **Data Structure Standard:** MODS 3.7
XML Element Name: recordInfo
Subelements: recordContentSource, recordCreationDate, recordChangeDate, recordIdentifier, recordOrigin, descriptionStandard

This element was selected because it captures information at the catalogue level, including museum-specific information about how the item is defined and classified.

II. Decision for value spaces: content and value specifications, vocabularies

XML Element Name	Value controlled? (Yes or No, and How)	Value/Explanation
titleInfo	No	Capitalize the first word and all nouns, pronouns, adjectives, verbs, adverbs, and subordinate conjunctions. If multiple titles are recorded, repeat <titleInfo><title> for each title. <titleInfo> is also repeated for each type attribute value.
relatedItem	No	All MODS subelements can appear as subelements. Follow the guidelines from MODS relatedItem element specifications for designating the type of relationship for the related work.
objectWorkType	Yes, controlled vocabularies	Recommended AAT
typeOfResource	Yes, controlled vocabularies	Recommended best practice is to consult the Library of Congress Resource Types Scheme.
originInfo	Yes, controlled vocabularies	Use an authority file or controlled vocabulary list as needed.
imageRef	Yes, controlled vocabularies	Consult controlled vocabularies and authority files for each subelement used as necessary.
location	No	When using the authority attribute, the recommended best practice is to use the appropriate authority for each value from the Library of Congress Organization Code Source Codes. Capitalize proper nouns.
displayCreator	Yes, data content rules	Best practice would be to consult CDWA or CCO for displaying a creator's name. List the name in natural order if possible, but inverted order of the name is also acceptable.
displayCreationDate	Yes, data content rules	Best practice would be to consult CDWA or CCO for display

		dates.
indexingCreatorSet	Yes, controlled vocabularies	Consult controlled vocabularies and authority files for each subelement used as necessary.
inscriptions	Yes, content standards	Created based on data content rules by CCO and CDWA.
objectMeasurementsSet	Yes, controlled vocabularies	Consult controlled vocabularies and authority files for each subelement used as necessary.
eventMaterialsTech	Yes, controlled vocabularies	Consult controlled vocabularies and authority files for each subelement used as necessary.
classification	Yes, classification scheme	Use the authority attribute to specify what classification scheme was used.This field is also used to display the physical location of the work listed. The AuthorityURI attribute may also be used to include a link to the classification scheme.
language	Yes, encoding standards	ISO 639-2 is recommended for <languageTerm>, and ISO15924 is recommended for <scriptTerm>. Specify the authority of the code using the authority attribute.
note	No	Use for information that is not encoded in another MODS element. Recommended to use the MODS Note Types list for interoperability.
subject	Yes, controlled vocabularies	Must use the authority or authorityURI attribute to indicate what authoritative list was used. Recommended to consult the LOC Subject Heading and Term Source Codes for proper citing.
culture	Yes, controlled vocabularies	Recommended best practice is to use controlled vocabularies, such as the Art & Architecture Thesaurus (AAT) or the Getty Thesaurus of Geographic Names (TGN).
abstract	No	This element should be used to provide description information

		that was provided with the work. For additional descriptive text about the work, use the <note> element.
identifier	No	Repeat this element for each recorded identifier. The suggested best practice is to use values from the LOC Standard Identifier Source Codes to record the type of identifier that is provided.
copyright	No	List copyright information as it is provided. If nothing is listed, put "No known restrictions on publication"
recordInfo	Yes, encoding and authority standards	This element should be used to provide information relevant to the managing institution. Subelements should specify the authority or encoding standard using corresponding attributes.

II. Decision for value spaces: content and value specifications, vocabularies

XML expressions for each element including all sub-elements and attributes

---

XML Element Name: titleInfo

```
<titleInfo>
        <title>Ichikawa ebijūrō no sangobei</title>
</titleInfo>
<titleInfo type="translated"  displayLabel="Title Translation" lang="eng">
        <nonSort>The</nonSort>
        <title>actor Ichikawa Ebijūrō in the role of Sangobei</title>
</titleInfo>
```

XML Element Name: relatedItem

```
<relatedItem type="host" displayLabel="Source Collection">
        <titleInfo>
                <title>Chadbourne collection of Japanese prints (Library of Congress)</title>
        </titleInfo>
        <identifier type="local">(DLC) 89711080</identifier>
</relatedItem>
```

XML Element Name: objectWorkType

```
<cdwalite:objectWorkType termsource="AAT" termsourceID="aat300215302">digital image</cdwalite:objectWorkType>
<cdwalite:objectWorkType termsource="AAT" termsourceID= "aat300041405">woodcut (print)</cdwalite:objectWorkType>
```

XML Element Name: typeOfResource

<typeOfResource>still image</typeOfResource>

XML Element Name: originInfo

<originInfo eventType="creation"
        <place>
                <placeTerm type="code" authority="marccountry">ja</placeTerm>
        </place>
        <issuance>monographic</issuance>
        <dateIssued type="approximate">between 1818 and 1825</dateIssued>
</originInfo>

XML Element Name: imageRef

<uncg:imageRef>

        <uncg:imageTitle>Ichikawa ebijūrō no sangobei</uncg:imageTitle>
        <uncg:imageType>photograph</uncg:imageType>
        <uncg:imageFormat>PNG</uncg:imageFormat>
        <uncg:imageColor>color</uncg:imageColor>
        <uncg:worksDepicted>Ichikawa ebijūrō no sangobei; woodcut; Toyokuni Utagawa; 1818/1825</uncg:worksDepicted>

</uncg:imageRef>

XML Element Name: location

<location>
        <physicalLocation>Library of Congress Prints and Photographs Division Washington, D.C. 20540 USA</physicalLocation>

```
        <physicalLocation>xmlns:xlink="http://www.w3.org/1999/xlink"
xlink:href="http://hdl.loc.gov/loc.pnp/pp.print">http://hdl.loc.gov/loc.pnp/pp.print </physicalLocation>
</location>
```

```
<location>
        <url displayLabel="digital file from original print" usage="primary display">http://hdl.loc.gov/loc.pnp/jpd.02195</url>
</location>
```

XML Element Name: displayCreator

```
<cdwalite:displayCreator>Utagawa, Toyokuni, approximately 1777-1835, artist</cdwalite:displayCreator>
```

XML Element Name: displayCreationDate

```
<cdwalite:displayCreationDate>[between 1818 and 1825]</cdwalite:displayCreationDate>
```

XML Element Name: indexingCreatorSet

```
<cdwalite:indexingCreatorWrap>
        <cdwalite:indexingCreatorSet>
                <cdwalite:nameCreatorSet>
                        <cdwalite:nameCreator type="personalName" termsource="ULAN" termsourceID="ulan500081100">Utagawa
Toyokuni</cdwalite:nameCreator>
                </cdwalite:nameCreatorSet>
                <cdwalite:vitalDatesCreator birthdate="1777" deathdate="1835">1777-1835</cdwalite:vitalDatesCreator>
                <cdwalite:roleCreator termsource="AAT" termsourceID="aat300025103">artist (visual arts)</cdwalite:roleCreator>
                <cdwalite:nationalityCreator>Japanese</cdwalite:nationalityCreator>
        </cdwalite:indexingCreatorSet>
```

</cdwalite:indexingCreatorWrap>

XML Element Name: inscriptions

<cdwalite:inscriptionsWrap>
        <cdwalite:inscriptions> Inscribed in pencil on lower left corner of paper mount: Kano (or Kuno) Dec. 1878. From figure in "Kuwacho Sansui Dzushiki" [i.e., Kachō sansui zushiki]. Fig. 11. Insert any where.</cdwalite:inscriptions>
</cdwalite:inscriptionsWrap>

XML Element Name: objectMeasurementsSet

<lido:objectMeasurementsSet>
        <lido:displayObjectMeasurements lido:lang="EN"> 37.3 x 25 cm (block), 34.5 x 23 cm. (sheet)</lido:displayObjectMeasurements>
        <lido:objectMeasurements>
                <lido:measurementsSet>
                        <lido:measurementType>height</lido:measurementType>
                        <lido:measurementUnit>cm</lido:measurementUnit>
                        <lido:measurementValue>37.3</lido:measurementValue>
                </lido:measurementSet>
                <lido:measurementsSet>
                        <lido:measurementType>width</lido:measurementType>
                        <lido:measurementUnit>cm</lido:measurementUnit>
                        <lido:measurementValue>25</lido:measurementValue>
                </lido:measurementSet>
                <lido:extentMeasurements>block</lido:extentMeasurements>

XML Element Name: eventMaterialsTech

```
<lido:event>
        <lido:eventMaterialsTech>
                <lido:displayMaterialsTech>1 print on hosho paper : woodcut, color</lido:displayMaterialsTech>
                <lido:materialsTech>
                        <lido:termMaterialsTech>
                                <lido:conceptID lido:type="support" lido:source="AAT">300041405</lido:conceptID>
                                <lido:term>woodcuts (prints)</lido:term>
                        </lido:termMaterialsTech>
                        <lido:termMaterialsTech>
                                <lido:conceptID lido:type="medium" lido:source="AAT">300126356</lido:conceptID>
                                <lido:term>colored ink</lido:term>
                        </lido:termMaterialsTech>
                        <lido:termMaterialsTech>
                                <lido:conceptID lido:type="technique" lido:source="AAT">300195853</lido:conceptID>
                                <lido:term>printing</lido:term>
                        </lido:termMaterialsTech>
                        <lido:termMaterialsTech>
                                <lido:conceptID lido:type="support" lido:source="AAT">300183813</lido:conceptID>
                                <lido:term>hosho</lido:term>
                        </lido:termMaterialsTech>
                </lido:materialsTech>
        </lido:eventMaterialsTech>
</lido:event>
```

XML Element Name: classification

```
<classification authority="lcc" authorityURI="http://id.loc.gov/vocabulary/classSchemes/lcc"" >FP 2 - JPD, no. 1859</classification
```

XML Element Name: identifier

<identifier type="lccn">2002700113</identifier>
<identifier type="stock number" displayLabel="(color film copy transparency)">LC-USZC4-10372 DLC</identifier>
<identifier type="hdl">hdl:loc.pnp/cph.3g10372</identifier>

XML Element Name: language

<language>
        <languageTerm type="code" authority="iso639-2b">eng</languageTerm>
</language>

<language>
        <languageTerm type="code" authority="iso639-2b">jpn</languageTerm>
        <scriptTerm type="code" authority="iso15924">Kana</scriptTerm>
</language>

XML Element Name: note

<note> Earlier control number: 9942.25-19.</note>
<note type="acquisition">Gift; Mrs. E. Crane Chadbourne; 1930; (DLC/PP-1930:47623a).</note>

XML Element Name: subject

<subject authority="lcsh">
        <name type="personal">
                <namePart>Sugawara, Michizane,</namePart>
                <namePart type="date">845-903</namePart>
        </name>
</subject>

```
<subject authority="lctgm">
        <topic>Nobility</topic>
        <geographic>Japan</geographic>
        <temporal>870-910</temporal>
</subject>
```

XML Element Name: culture

```
<cdwalite:culture>Korean</cdwalite:culture>
```

```
<cdwalite:culture termsource="AAT" termsourceID= "aat300018519">Japanese</cdwalite:culture>
```

XML Element Name: abstract

```
<abstract displayLabel="Subject">Japanese pentaptych print shows an American ship in the harbor at Yokohama, Japan; small boats ferry cargo
which is being carried up a gangplank contributing to the bustle of activity on the main deck
.</abstract>
```

XML Element Name: copyright

```
<uncg:copyright>

        <uncg:copyrightStatement>no known restrictions on publication</uncg:copyrightStatement>
        <uncg:copyrightCitations>Utagawa, Toyokuni, Approximately, Artist. Ichikawa Ebijūrō No Sangobei. Japan, None. [Between 1818 and
1825] Photograph.https://www.loc.gov/item/2008660777/.</uncg:copyrightCitations>
                <uncg:copyrightRemarks>Chicago citation style</uncg:copyrightRemarks>
```

<uncg:copyrightCitations>Utagawa, T. Ichikawa Ebijūrō No Sangobei. Japan, None. [Between 1818 and 1825] [Photograph] Retrieved from the Library of Congress, https://www.loc.gov/item/2008660777/.</uncg:copyrightCitations>
   <uncg:copyrightRemarks>APA citation style</uncg:copyrightRemarks>

   <uncg:copyrightCitations>Utagawa, Toyokuni, Approximately , Artist. Ichikawa Ebijūrō No Sangobei. [Between 1818 and 1825] Photograph. Retrieved from the Library of Congress, <www.loc.gov/item/2008660777/>.</uncg:copyrightCitations>
   <uncg:copyrightRemarks>MLA citation style</uncg:copyrightRemarks>

<uncg:copyright>

XML Element Name: recordInfo

<recordInfo>
  <descriptionStandard>aacr</descriptionStandard>
  <descriptionStandard>gihc</descriptionStandard>
  <recordContentSource authority="marcorg">DLC</recordContentSource>
  <recordCreationDate encoding="marc">010504</recordCreationDate>
  <recordChangeDate encoding="iso8601">20171107112749.0</recordChangeDate>
  <recordIdentifier>12963897</recordIdentifier>
  <recordOrigin>Converted from MARCXML to MODS version 3.7 using MARC21slim2MODS3-7.xsl (Revision 1.140 20200717)</recordOrigin>
</recordInfo>

III. Establish an Application Profile

XML Element Name	MODS 3.7 Element and Qualifier	CDWA Lite Qualifier	LIDO Element and Qualifier	Un-matched Element and

				Qualifier
titleInfo	mods.titleInfo			
relatedItem	mods.relatedItem			
objectWorkType		cdwalite.objectWorkType		
typeOfResource	mods.typeOfResource			
originInfo	mods.originInfo			
imageRef				uncg.imageRef
location	mods.location			
displayCreator		cdwalite.displayCreator		
displayCreationDate		cdwalite:displayCreationDate		
indexingCreatorSet		cdwalite.indexingCreatorSet		
inscriptions		cdwalite.inscriptions		
objectMeasurementsSet			lido.objectMeasurementsSet	
eventMaterialsTech			lido.eventMaterialsTech	
classification	mods.classification			
identifier	mods.identifier			
language	mods.language			

note	mods.note			
subject	mods.subject			
culture		cdwalite.culture		
abstract	mods.abstract			
copyright		uncg.copyright		
recordInfo	mods.recordInfo			

IV. Create Crosswalks

Group 4 Application profile	Dublin Core Simple Element	MODS-Lite Element
mods.titleInfo	title	<titleInfo><title>
mods.relatedItem	relation	<relatedItem>
cdwalite.objectWorkType	type	<genre>
mods.typeOfResource	type	<typeOfResource>
mods.originInfo	date AND publisher	<originInfo>
uncg.imageRef	format	<relatedItem type="otherFormat">
mods.location		<location>
cdwalite.displayCreator	contributor AND creator	<name><displayForm>
cdwalite.displayCreationDate	date	<originInfo><dateCreated>
cdwalite.indexingCreatorSet	contributor AND creator	<name type= > <namePart> <role>

cdwalite.inscriptions		<physicalDescription><note type="marks">
lido.objectMeasurementsSet	format	<physicalDescription><extent>
lido.eventMaterialsTech	format	<physicalDescription><form>
mods.classification	subject	<classification>
mods.identifier	identifier	<identifier>
mods.language	language	<language><languageTerm>
mods.note	description	<note>
mods.subject	subject	<subject>
cdwalite.culture	coverage	<subject>
mods.abstract	description	
uncg.copyright	rights	<accessCondition>
mods.recordInfo		<recordInfo>

For Reference:
Dublin Core Simple

[MODS Lite](#)

V. Write a Specification for the Complete element set

This table describes each element within the schema, guidelines for use, and recommendations for structure. Required subelements will have two red stars at the of the subelement name in the table.

Element Name: titleInfo **REQUIRED** | **REPEATABLE** **XML name:** mods.titleInfo | **Attributes:** *type, displayLabel, lang*

Definition: A word, phrase, character, or group of characters, normally appearing in a resource, that names it or the work contained in it. This is a container element for the title information of an object or work.

XML Subelements	attributes
mods.title**	
mods.nonSort	

Rules, Authorities, or Controlled Values: This is not value controlled, but it is recommended to use CCO or CDWA for content standards and formatting rules.

Comments and Guidelines:
Recommended to follow Capitalize the first word and all nouns, pronouns, adjectives, verbs, adverbs, and subordinate conjunctions.
If multiple titles are recorded, repeat <titleInfo><title> for each title. <titleInfo> is also repeated for each type attribute value.

Use the <nonSort> subelement to define any spaces, characters, or punctuations that should be ignored when indexing an object or work.

Element Name: relatedItem
REPEATABLE
XML name: mods.relatedItem | *Attributes: type, otherType displayLabel, xlink:href*

Definition: Information that identifies other resources related to the one being described.

XML Subelements	*attributes*
mods.titleInfo**	- *displayLabel* - *type*
mods.identifier	- *type*

Rules, Authorities, or Controlled Values: Follow the guidelines from **MODS relatedItem** element specifications.

Comments and Guidelines: Use any necessary subelements and corresponding attributes as needed. All MODS elements can appear as subelements. It is recommended to specify the relationship of the related work using the *type* attribute. A controlled list of values for the attribute are included with the schema. The *otherType* attribute can be used to specify a type of relationship that is not included under the *type* attribute list of values.
Repeat this element for each known related item.

Element Name: objectWorkType
REQUIRED | REPEATABLE
XML name: cdwalite.objectWorkType | *Attributes: termsource, termsourceID*

Definition: The kind of object or work described.

Rules, Authorities, or Controlled Values: Controlled vocabulary, AAT recommended. Follow content standards from CCO or CDWA.

Comments and Guidelines: It is recommended to use the *termsource* and *termsourceID* attributes to reference which authority file was consulted for controlled vocabulary values. List work types in lowercase unless the type of work is a proper noun.

Element Name: typeOfResource
REQUIRED | REPEATABLE
XML name: mods.typeOfResource | ***Attributes:*** *displayLabel*

Definition: A term that specifies the characteristics and general type of content of the resource.

Rules, Authorities, or Controlled Values: Recommended best practice is to consult the **Library of Congress Resource Types Scheme**.

Comments and Guidelines: This element is used to describe the original item, not manifestations or reproductions.

Element: originInfo
REPEATABLE
XML name: mods.originInfo | ***Attributes:*** *eventType*

Definition: Information about the origin of the resource, including place of origin or publication, publisher/originator, and dates associated with the resource.

XML Subelements	attributes

mods.place
      mods.placeTerm
	placeTerm:
	   - *type*
	   - *authority*

mods.dateIssued	- *encoding*
mods.issuance	

mods.publisher	
Rules, Authorities, or Controlled Values: Consult the **MARC Code List for Countries** for encoding place terms, and **ISO 8601** for formatting dates and years. For <issuance>, consult **MODS value entry guidelines** for issuance. **Comments and Guidelines:** Use <place> to define where the object or work was created. Record the date as specific as possible. If the precise date is unknown, preface the year with *ca.* (e.g. ca.1924) or place brackets around the year (e.g. [1924]).	

Element: imageRef
REQUIRED | REPEATABLE
XML name: uncg.imageRef

Definition: An identification of the images that depict the work being cataloged. Adopted from CDWA Related Visual Documentation category to identify representations and manifestations of an object or work.

XML Subelements	Attributes
uncg.imageTitle**	
uncg.imageType	
uncg.imageFormat**	
uncg.imageDate	
uncg.imageColor**	
uncg.worksDepicted**	
uncg.imageCopyright	
uncg.imageCopyrightHolder	
uncg.relatedImage	

Rules, Authorities, or Controlled Values: Controlled vocabulary, AAT recommended. Recommended to use the **Internet Media Types (IMT)** for format specifications when possible.

Comments and Guidelines: For imageType, record the type in singular form, lowercase (unless there is a proper noun), and avoid abbreviations. Repeat this element for each manifestation or representation.

Element: location
REPEATABLE
XML name: mods.location | ***Attributes:*** *authority*

Definition: Identifies the institution or repository holding the resource, the physical location of the resource, and/or the electronic location in the form of the digital resource in the form of a URL.

XML Subelements	*attributes*
mods.physicalLocation	
mods.url	- *displayLabel* - *usage*

Rules, Authorities, or Controlled Values: This is not value controlled, but the recommended best practice is to consult the Library of Congress **MARC Code List for Organizations Organization** when using the *authority* attribute.

Comments and Guidelines: Capitalize proper nouns. Repeat this element for each location specified or known.

Element: displayCreator
REQUIRED
XML name: cdwalite.displayCreator

Definition: The name, brief biographical information, and roles (if necessary) of the named creator or creators in the design and production of the work, 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 creator, make a reference to the presumed culture or nationality of the unknown creator.

Rules, Authorities, or Controlled Values: Use CCO or CDWA for content standards and format rules.

Comments and Guidelines: Best practice would be to consult CDWA or CCO for proper display of the creator's name and relevant information. List the name in natural order if possible, but inverted order of the name is also acceptable.

Element: displayCreationDate
REQUIRED
XML name: cdwalite.displayCreationDate

Definition: A concise description of the date or range of dates associated with the creation, design, production, presentation, performance, construction, or alteration of the work or its components, presented in a syntax suitable for display to the end-user and including any necessary indications of uncertainty, ambiguity, and nuance.

Rules, Authorities, or Controlled Values: Use CCO or CDWA for content standards and format rules.

Comments and Guidelines: Record the date as specific as possible. When there is uncertainty regarding the date an object or work was created, follow the Creation Date category's **rules for uncertainty** specified by CDWA.

Element: indexingCreatorSet
REQUIRED | **REPEATABLE**
XML name: cdwalite.indexingCreatorSet

Definition: A wrapper for creator indexing elements. The elements refer to the creation, design, execution, or production of a work of art or architecture and its components, including all those responsible for the creation of the work or items in the group, the dates of that activity, and where the creation took place.

XML Subelements	attributes

cdwalite.nameCreator**	- *termsource* - *termsourceID* - *type*
cdwalite.vitalDatesCreator	- *birthdate* - *deathdate*
cdwalite.roleCreator**	- *termsource* - *termsourceID*
cdwalite.nationalityCreator	

Rules, Authorities, or Controlled Values: Consult AAT or ULAN for controlled vocabulary.

Comments and Guidelines: Birth dates and death dates are required. If these dates are unknown or the exact date is uncertain, express the uncertainty with a question mark at the end of the year you are uncertain of, place brackets around the year, or place *ca.* at the beginning of the year to indicate the date is approximate.

Element: inscriptions
REPEATABLE
XML name: cdwalite.inscriptions

Definition: A description or transcription of any distinguishing or identifying physical lettering, annotations, texts, markings, or labels that are affixed, applied, stamped, written, inscribed, or attached to the work, excluding any mark or text inherent in the materials of which the work is made.

XML Subelements	*attributes*

Rules, Authorities, or Controlled Values: Use CDWA or CCO for content standards and preferred terms for **Inscriptions/Marks**.

Comments and Guidelines: Record terms in lowercase and record all inscriptions that are present. Specify the type of inscription and the location of the inscription when possible (e.g. inscribed on the front).

<table>
<tr><td colspan="2" align="center">Element: objectMeasurementsSet
REPEATABLE
XML name: lido.objectMeasurementSet | <i>Attributes:</i> <i>sortorder</i>

Definition: A wrapper for display and index elements for dimensions, or other measurements, of the object/work in focus. Repeated to record measurements of different parts of the object/work. Contained in objectMeasurementsWrap.</td></tr>
</table>

XML Subelements	attributes
lido.displayObjectMeasurements	

lido.objectMeasurements
      lido.measurementType**
      lido.measurementUnit**
      lido.measurementValue**	

lido.extentMeasurements	

Rules, Authorities, or Controlled Values: Follow CCO or CDWA content standard guidelines.

Comments and Guidelines: List measurements in metric units and U.S. customary units when possible, but always include metric units. Use lowercase for type, extent, and unit. For metric units, list the value in decimal for; for U.S. customary units, use whole numbers and fractions.

<table>
<tr><td colspan="2" align="center">**Element:** eventMaterialsTech
REPEATABLE
XML name: lido.eventMaterialsTech | ***Attributes:*** *sortorder*

Definition: Structured information about the materials and techniques used for or incorporated in the object/work in focus.</td></tr>
<tr><td>**XML Subelements**</td><td>***attributes***</td></tr>
<tr><td>lido.displayMaterialsTech</td><td></td></tr>
<tr><td>lido.materialsTech
    lido:termMaterialsTech
        lido:conceptID
        lido:term
    lido:extentMaterialsTech</td><td>conceptID:
  - *type*
  - *source*</td></tr>
<tr><td colspan="2">**Rules, Authorities, or Controlled Values:** Consult AAT for controlled vocabularies

Comments and Guidelines: Recommended use of AAT for *type* and *source* attributes when listing materials, techniques, and processes. Use lowercase for these entries unless the entry is a proper noun.</td></tr>
</table>

Element: classification
REPEATABLE
XML name: mods.classification | ***Attributes:*** *authority, authorityURI*

Definition: A designation applied to a resource that indicates the subject by applying a formal system of coding and organizing resources according to subject areas.

Rules, Authorities, or Controlled Values: Must use a classification scheme, such as the Library of Congress Classification Scheme.

Comments and Guidelines: Use the *authority* attribute to specify what classification scheme was used.This field is also used to display the physical location of the work listed. The *AuthorityURI* attribute may also be used to include a link to the classification scheme.

Element: identifier
REQUIRED | **REPEATABLE**
XML name: mods.identifier | ***Attributes:*** *type, displayLabel*

Definition: Contains a unique standard number or code that distinctively identifies a resource.

Rules, Authorities, or Controlled Values: This is not value controlled, but the recommended best practice is to use values from the **LOC Standard Identifier Source Codes** to record the type of identifier that is provided.

Comments and Guidelines: Repeat this element for each recorded identifier.

Element: language
REPEATABLE
XML name: mods.language | *Attributes: type, authority*

Definition: A designation of the language in which the content of a resource is expressed.

XML Subelements	*attributes*
mods.languageTerm**	- *type* - *authority*
mods.scriptTerm**	- *type* - *authority*

Rules, Authorities, or Controlled Values: Consult ISO 639-2 and ISO-15924 for value entries.

Comments and Guidelines: **ISO 639-2** is recommended for <languageTerm>, and **ISO-15924** is recommended for <scriptTerm>. Specify the authority of the code using the *authority* attribute.

Element: note
REPEATABLE
XML name: mods.note | *Attributes: type*

Definition: General textual information relating to a resource.

Rules, Authorities, or Controlled Values: Recommended to use the **MODS Note Types** list for interoperability.

Comments and Guidelines: Use this element for information that is not encoded in another MODS element. When applicable, use the *type* attribute to specify the type of note being listed (i.e. acquisition).

Element: subject
REPEATABLE
XML name: mods.subject | *Attributes: authority*

Definition: A term or phrase representing the primary topic(s) on which a work is focused.

XML Subelements	*attributes*
mods.topic	- *type* - *authority*
mods.geographic	- *type* - *authority*
mods.temporal	- *encoding*
mods.name	

Rules, Authorities, or Controlled Values: Recommended to consult the **LOC Subject Heading and Term Source Codes** for proper citing. May also use other controlled subject schemes.

Comments and Guidelines: Must use the *authority* or *authorityURI* attribute to indicate what authoritative list was used. Use this element for classifying the work with an authoritative scheme.

Element: culture
REPEATABLE
XML name: cdwalite.culture | *Attributes: termsource, termsourceID*

Definition: The name of the culture, people, or nationality from which the work originated.

Rules, Authorities, or Controlled Values: Recommended best practice is to use controlled vocabularies, such as the Art & Architecture Thesaurus (AAT) or the Getty Thesaurus of Geographic Names (TGN).

Comments and Guidelines: Use *termsource* and *termsourceID* to indicate the authority file that was consulted.

Element: abstract
REPEATABLE
XML name: mods.abstract | ***Attributes:*** *type*

Definition: A summary of the content of the resource.

Rules, Authorities, or Controlled Values: Use description information provided with the object or work for this element.

Comments and Guidelines: This element should be used to provide description information that was provided with the work. For additional descriptive text about the work, use the <note> element.

Element: copyright
REQUIRED | **REPEATABLE**
XML name: uncg.copyright | ***Attributes:*** *type*

Definition: An identification of the individual or group that holds the rights to use, exhibit, or reproduce a work along with an indication of any existing restrictions on its reproduction, exhibition, or use.

XML Subelements	*attributes*
uncg.copyrightStatement**	
uncg.copyrightHolderName	
uncg.copyrightCitations	
uncg.copyrightRemarks	

Rules, Authorities, or Controlled Values: Not value controlled

Comments and Guidelines: Provide known copyright restrictions as they are listed.

<table>
<tr><td colspan="2" align="center">Element: recordInfo
XML name: mods.recordInfo

Definition: Information about the record, typically for administrative purposes.</td></tr>
<tr><td>XML Subelements</td><td><i>attributes</i></td></tr>
<tr><td>mods.recordContentSource</td><td>-   <i>authority</i></td></tr>
<tr><td>mods.recordCreationDate</td><td>-   <i>encoding</i></td></tr>
<tr><td>mods.recordChangeDate</td><td>-   <i>encoding</i></td></tr>
<tr><td>mods.recordIdentifier</td><td></td></tr>
<tr><td>mods.recordOrigin</td><td></td></tr>
<tr><td>mods.descriptionStandard</td><td></td></tr>
<tr><td colspan="2">Rules, Authorities, or Controlled Values: Follow ISO 8601 for date formatting and consult a controlled list, such as the MARC Code List for Organizations, for the source of the record.

Comments and Guidelines: This element should be used to provide information relevant to the managing institution, and is used for administrative purposes only. Subelements should specify the authority or encoding standard using corresponding attributes. It is recommended to list the description standard that the record followed, such as AACR2 or CCO.</td></tr>
</table>

Content Standards:

Cataloging Cultural Objects (CCO) Description Standards

Categories for the Descriptions of Works of Art (CDWA) Standards

Schemes Used:

MODS 3.7 xsd

CDWA Lite V.1.0 xsd

LIDO V.1 xsd *Please Note: This schema references an out-of-date file that will display an error message when validating the xsd or xml file*