MSU Libraries

MODS Application Profile

Change History

2019-03-13: First release

Table of Contents

1.0 About this Application Profile

1.1 About the MODS Standard

MODS is the Metadata Object Description Schema, an XML metadata schema maintained by the Library of Congress. It was designed to describe bibliographic resources, though it has been adapted to describe many different types of resources in libraries, particularly resources in digital repository systems.

MODS has fewer fields than MARC and significantly more fields than Dublin Core.

This application profile is intended to supplement the LOC MODS guidelines and materials, not replace them.

MODS namespace: http://www.loc.gov/standards/mods/v3/
MODS 3.7 XSD: http://www.loc.gov/standards/mods/v3/mods-3-7.xsd
LOC MODS guidelines: http://www.loc.gov/standards/mods/userguide/generalapp.html
MODS transformations: http://www.loc.gov/standards/mods/mods-conversions.html

1.2 Purpose of this Application Profile

The MSUL MODS Application Profile is intended for anyone creating, transforming, or working with MODS XML descriptive metadata at the Michigan State University Libraries. It supersedes the MSUL MODS Guidelines.

MODS is used in two systems at MSUL:
- As the primary descriptive metadata schema in the Islandora repository sites
- As the schema for contributing metadata to the Digital Public Library of America.

The requirements of these two systems (Islandora and DPLA) take precedent in these MODS guidelines, but potential future re-uses in other systems are also considered whenever possible.

MODS records in Islandora will come from some or all of the following sources:
- XSL transformations from MARC that originated in a library catalog
- XSL transformations from non-MODS XML schemas (e.g., EAD)
- XML built from a spreadsheet via XSL

This document is a set of evolving "best practice" recommendations. Comments and changes are welcome; please contact Lisa Lorenzo, Metadata Librarian (lorenzo7@msu.edu).

1.3 Levels of Requirement

Code	Level	Description
M	Mandatory	All records must have this element to be considered complete. Search, display, and management depend on useful values in this field.
R	Recommended	Use of this element is recommended wherever it is applicable. Values from this element are frequently displayed in interfaces, are useful for search and discovery, or are used to manage objects.
O	Optional	This element is optional, and can be included if applicable. Values in this element may be of limited use in interfaces, or may be primarily used for specific object types or collections.

1.4 XML Schema

The MSUL MODS Schema is located in GitLab. It is compatible with MODS versions 3.5, 3.6, and 3.7. Instructions for how to run the schema validation in OxygenXML, see the General Metadata Workflow for Digital Repository Collections.

2.0 General Metadata Entry Guidance

2.1 Date Encoding

The MSUL MODS date best practices are a local implementation of the Extended Date Time Format (EDTF) pre-submission recommendation from the Library of Congress. This means that all dates in the MODS will comply with the EDTF standard, but not all functionality in the EDTF standard is used in the MSUL MODS. *This version of the EDTF recommendation has been superseded, and changes to MSUL practices to comply with the current specification are forthcoming.*

EDTF: http://www.loc.gov/standards/datetime/pre-submission.html

2.1.1 MSUL MODS Date Guidelines

- ☑ Whenever possible, format dates as YYYY, YYYY-MM, or YYYY-MM-DD
- ☑ Uncertain dates: place **?** at the end of the entire date or range
  - 2014/2015?
  - Use with date ranges (e.g., if you know a resource is from the academic year 2014-15 but you aren't sure which calendar year is correct)
- ☑ Approximate dates: place **~** at the end of the entire date
  - 2014~
  - Use in place of ca. or circa
- ☑ For intervals or ranges, use / and format dates as normal.
  - 2014-03/2014-06
  - Use ? or ~ at the end of each date in a range if necessary
  - Use "unknown" for an unknown start or endpoint in a range
  - Use "open" for an ongoing endpoint in a range
- ☑ For decade or century-level dates, use "x" or "xx" at the end of dates
  - Century: 19xx
    - o Do not use "20th century" in a date field.
  - Decade: 196x
    - o Do not use "1960s"

Though the following date encodings are supported by some levels of EDTF, avoid them in MSUL MODS:

- ☐ Do not use "uu" or "u" at the end of dates to indicate that the information will be entered later.
  - Enter dates with as much specificity as possible when creating the MODS record.

- Do not use numeric codes or words to represent seasons, semesters, or issues of journals (e.g., Spring 2003).
  - 2003-01/2003-05 for the spring semester.
  - 2003-03/2003-05 for the North American season spring.
  - For journal articles, enter a numerical date that is as specific as possible. Journal volume and issue information are recorded in mods:partNumber (e. g., "Spring/Summer 2003").
- Do not use anything from Level 2 of the EDTF standard (except masked precision for decades [196x]).
- Do not use brackets or other special punctuation for inferred dates (enter dates normally).

2.2 Punctuation

- When converting from MARC, remove brackets [ ] from field values.
- When converting from MARC, remove ISBD punctuation from the ends of fields.
- Do not include a period at the end of field values unless those values are complete sentences.

3.0 Condensed Guidelines

This table describes required and recommended descriptive elements for MODS records and gives brief guidance on metadata entry.

Field	MODS Mapping	Guidelines
Title	mods:titleInfo	The title is a brief, descriptive statement about the object that should be as unique as possible within a collection. The title may also include a part number or part name (for example, periodical titles that are issued with series numbers).
Creator(s) and/or contributor(s)	mods:name	If known, the name of any person or organization responsible for creating or contributing to the resource. If possible, use names from the Library of Congress Name Authority File.
Date	mods:originInfo/mods:dateIssued -OR- mods:originInfo/mods:dateCreated	A date that describes when the resource was first available. This could be a publication or copyright date for published materials or a creation date for unpublished materials. Whenever possible, enter dates in YYYY-MM-DD format.
Language	mods:language	The language(s) of the resource, either written or spoken. It's best practice to take language names from ISO 639-2. Items without linguistic content can be labeled "No linguistic content."
Description	mods:abstract	The abstract is used for a general description of the item and its content.
Genre	mods:genre	The genre describes the nature or material of the resource. It's best practice to use genre terms from a controlled vocabulary, such as Dublin Core Metadata Initiative (DCMI) Type Vocabulary or the Getty Art and Architecture Thesaurus (AAT).
Resource type	mods:typeOfResource	A term that specifies the characteristics and general type of content of the resource. This is less specific than a resource's genre. Use a term from the following list included in the MODS metadata standard.
Subject(s)	mods:subject	At least one term that describes what the resource is about. If possible, use terms from the Library of Congress Subject Headings.
Copyright	mods:accessCondition	A statement describing copyright or access-related information about the resource. Use a statement from rightsstatements.org if possible.

4.0 MODS MAP by Top-Level Element

4.0.0 mods:mods (Mandatory, Non-Repeatable, Root Element)

4.0.1 Element and attributes

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:mods	Use as the parent element for the MODS record.	mods:mods is a container element.	M	N
@xmlns:mods	Use for the URL for the MODS namespace.	● http://www.loc.gov/mods/v3	M	N
@xmlns:xlink	Use for the URL for the XLINK namespace.	● http://www.w3.org/1999/xlink	M	N
@version	Use to specify the version of MODS used for the record.	● 3.5 ● 3.6 ● 3.7	R	N

4.1.0 mods:titleInfo (Mandatory, Repeatable)

4.1.1 Element, attributes, and subelements

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:titleInfo	Use to provide the title of the resource described in the MODS record.	mods:titleInfo is a container element. See below for subelements.	M	Y
@type	Use to specify uniform or alternative titles. Do not use on the primary title. TIC journals must have a mods:titleInfo[@type="alternative"] element with the title entered	● uniform ● alternative	O	N

	in title case.			
@authority	Use for uniform titles with an authority record, such as the [LOC Name Authority File]().		O	N
@authorityURI	Use for uniform titles with an authority record.	Use the URI provided by the controlled vocabulary.	O	N
@valueURI	URI for an authority record associated with a uniform title.	Use the URI provided by the controlled vocabulary.	O	N
mods:title	The title is a brief, descriptive statement about the object that should be as unique as possible within a collection. Titles are displayed prominently and may be the only descriptive metadata shown about the resource in search results or other displays. Titles are typically entered following RDA Appendix A.4 (i.e. capitalize only the first word of the title and proper nouns and abbreviations). Do not enclose supplied titles in square brackets.		M	N
mods:subTitle	Use when a subtitle is present in a bibliographic resource.		O	N
mods:partName	Use when a part number is present in a bibliographic resource (for example, an episode number or an audio or video clip of a digital item).		O	N
mods:partNumber	Use when a part name is present in a bibliographic resource (for example, a chapter title, episode name, or an audio or video clip).		O	N

4.1.2 Unsupported attributes and subelements

- @usage
- @xlink
- @otherType
- mods:nonSort
- See also: [Appendix A. Attributes Not Supported Throughout the Schema]()

4.1.3 Example

```
<mods:mods>
```

```
        ...
        <mods:titleInfo>
                <mods:title>The Grange visitor</mods:title>
                <mods:partNumber>Vol. 1, no. 3 (1875 June)</mods:partNumber>
        </mods:titleInfo>
        <mods:titleInfo type="uniform">
                <mods:title>Grange visitor (Schoolcraft, Mich.)</mods:title>
                <mods:partNumber>Vol. 1, no. 3 (1875 June)</mods:partNumber>
        </mods:titleInfo>
        ...
</mods:mods>
```

4.2.0 <mods:name> (Recommended, Repeatable)

4.2.1 Element, attributes, and subelements

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:name	Use to provide the name of a person or organization responsible for creating or contributing to the resource.	mods:name is a container element. See below for subelements.	R	Y
@usage	When there are multiple names in a record and you want to identify one as the most significant, use value "primary."	● primary	O	N
@type	Use to specify the type of name.	● personal ● corporate ● conference	M	N
@authority	Provide the source code for the controlled vocabulary used. Preferably use the LOC Name Authority File whenever possible.	● naf	R	N
@authorityURI	Provide the URI for the vocabulary from which the name is taken.	● http://id.loc.gov/authorities/names	R	N
@valueURI	Provide the URI for the name.	Use the URI provided by the controlled vocabulary.	R	N

mods:namePart	Format names as "Family, Given M." Do not enter "Unknown" or "Anonymous" (leave element unused).		M	Y
mods:namePart/ @type	Use a separate mods:namePart element with @type="date" for dates associated with a name. Use a separate mods:namePart element with @type="termsOfAddress" for terms of address associated with a name.	● date ● termsOfAddress	M (if applicable)	N
mods:nameIdentifier	A unique identifier associated with a name that identified the object itself (RWO). Include mods:nameIdentifier especially if no LCNAF authority exists for the name. Preferably take name identifiers from ISNI. Only valid in MODS 3.6 or later.		O	N
mods:nameIdentifier/ @type	Use to specify the type or source of the name identifier.	● isni		
mods:affiliation	An organizational or institutional affiliation associated with a name. Typically not used at MSUL.		O	N
mods:role	Parent element for mods:roleTerm	mods:role is a container element. See below for subelements.	R	Y
mods:role/ mods:roleTerm	Roles are strongly recommended for use with names. Use the most specific roles available. Each name may have more than one role. Preferably use terms already in use in the repository, but other terms from the marcrelator list or from RDA may also be used if necessary.	Use a term from the subset of the marcrelator list included in Appendix B to ensure that names are included on item pages in the repository.	R	Y
mods:role/ mods:roleTerm/ @type	Include the text version of the role term and optionally the code version if converting from MARC. If including both, the text and code versions of the role term should be in the same mods:role element.	● text ● code	M	N
mods:role/ mods:roleTerm/ @authority	Provide the source code for the vocabulary from which the role term is taken.	● marcrelator ● rda	M	N
mods:role/	Provide the URI for the vocabulary from which the role term	● http://id.loc.gov/vocabula	M	N

| mods:roleTerm/
@authorityURI | is taken. | ry/relators
● http://rdaregistry.info/Ele
ments/u | | |
| mods:role/
mods:roleTerm/
@valueURI | Provide the URI for the role term used. For terms from the marcrelator list, the URI format is http://id.loc.gov/vocabulary/relators/{relator code}. | Use the URI provided by the controlled vocabulary. | M | N |

4.2.2 Unsupported attributes and subelements

- @xlink
- @script
- @transliteration
- @etal
- mods:nameIdentifier/@typeURI
- mods:displayForm
- mods:description
- mods:etal
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.2.3 Example

```xml
<mods:mods>
    ...
    <mods:name authority="naf" authorityURI="http://id.loc.gov/authorities/names" type="corporate"
        valueURI="http://id.loc.gov/authorities/names/no00084952">
        <mods:namePart>Australian Golf Course Superintendents Association</mods:namePart>
        <mods:role>
            <mods:roleTerm authority="marcrelator" authorityURI="http://id.loc.gov/vocabulary/relators"
                type="text" valueURI="http://id.loc.gov/vocabulary/relators/pbl">publisher</mods:roleTerm>
        </mods:role>
        <mods:role>
            <mods:roleTerm authority="marcrelator" authorityURI="http://id.loc.gov/vocabulary/relators"
                type="text" valueURI="http://id.loc.gov/vocabulary/relators/cph">copyright holder</mods:roleTerm>
        </mods:role>
    </mods:name>
    ...
</mods:mods>
```

4.3.0 <mods:typeOfResource> (Mandatory, Repeatable)

4.3.1 Element

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:typeOfResource	Describes the general format of the resource. For digitized materials, choose a term that describes the resource's original format.	Use a term from the list provided in the MODS User Guidelines.	M	N

4.3.2 Unsupported attributes

- @authority
- @authorityURI
- @collection
- @manuscript
- @usage
- @valueURI
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.3.3 Example

```
<mods:mods>
    ...
    <mods:typeOfResource>text</mods:typeOfResource>
    ...
</mods:mods>
```

4.4.0 <mods:genre> (Mandatory, Repeatable)

4.4.1 Element and attributes

Element/Attribute	Usage	Values	Requirement	Repeatable

mods:genre	Describes the nature or genre of the resource and is more specific than mods:typeOfResource.	Use at least one term from the Getty AAT and one term from DCMI Type. Optionally, include additional terms from other vocabularies.	M	Y
@authority	Provide the source code for the vocabulary from which the role term is taken.	Use a code from the LOC Genre/Form Code and Term Source Codes or the LOC Subject Heading and Term Source Codes.	M	N
@authorityURI	Provide the URI for the vocabulary from which the role term is taken.	Use the URI provided by the controlled vocabulary.	M	N
@valueURI	Provide the URI for the role term used.	Use the URI provided by the controlled vocabulary.	M	N

4.4.2 Unsupported attributes

- @type
- @usage
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.4.3 Example

```
<mods:mods>
      ...
      <mods:genre authority="dct" authorityURI="http://purl.org/dc/terms/DCMIType"
      valueURI="http://purl.org/dc/dcmitype/Sound">Sound</mods:genre>
      <mods:genre authority="aat" authorityURI="http://vocab.getty.edu/aat"
      valueURI="http://vocab.getty.edu/aat/300028633">Sound recordings</mods:genre>
      ...
</mods:mods>
```

4.5.0 <mods:originInfo> (Mandatory, Non-Repeatable)

4.5.1 Element, attributes, and subelements

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:originInfo	Use to provide information about the origin of the resource (i.e. publication or creation). All origin information should be included in a single top-level mods:originInfo element.	mods:originInfo is a container element. See below for subelements.	M	N
@eventType	Use to specify the type of origin described in mods:originInfo.	● distribution ● manufacture ● production ● publication	R	N
mods:place	Use to provide information about where the resource was published, created, or distributed. If providing both the code and text form of the place in mods:placeTerm, these should be enclosed in a single mods:place element.	mods:place is a container element. See below for subelements.	R	Y
mods:place/ mods:placeTerm	Information about where the original format of the resource was published, created, or distributed. For published resources, follow guidelines for MARC 260/264 $a but do not include punctuation such as brackets. For unpublished resources, use a City, State format for US locations, and City, Country format for non-US locations		R	Y
mods:place/ mods:placeTerm/@type	Typically only include "text" type. Optionally include "code" for records converted from MARC.	● text ● code	R	N
mods:publisher	Name of the publisher or distributor of the original resource.		R	Y
mods:publisher/ @authority	Use to specify the source code for the controlled vocabulary used. Preferably use the LOC Name Authority File if possible. Only valid in MODS 3.7.		O	N
mods:publisher/ @authorityURI	Use to specify the URI for the controlled vocabulary used. Preferably use the LOC Name Authority File if possible. Only valid in MODS 3.7.		O	N
mods:publisher/	Use to specify the URI for the value used. Only valid		O	N

@valueURI	in MODS 3.7.			
mods:dateIssued	Either mods:dateIssued or mods:dateCreated is required. Use dateIssued for the date that a resource was published or made available. If the work is a printed or published work that only has a copyright date, use the copyright date in this field.		M	N
mods:dateIssued/ @encoding	Use to specify the type of encoding used for the date.	● edtf	M	
mods:dateIssued/ @keyDate	One date must be encoded as a keyDate.	● yes	R	N
mods:dateCreated	Either mods:dateIssued or mods:dateCreated is required. Use dateCreated for unpublished works that have a date on them (e.g., personal letters or photographs)		M	N
mods:dateCreated/ @encoding	Use to specify the type of encoding used for the date.	● edtf	M	
mods:dateCreated/ @keyDate	One date must be encoded as a keyDate.	● yes	R	N
mods:copyrightDate	Optionally record a copyright date if different from the publication date.		O	N
mods:copyrightDate/ @encoding	Use to specify the type of encoding used for the date.	● edtf	O	N
mods:dateOther	Use dateOther[@type="year"] for all works, published or unpublished, to record only the year of issuance or creation. This field is used for facets in the digital repository.		M	Y
mods:dateOther/ @encoding	Use to specify the type of encoding used for the date.	● edtf		
mods:dateOther/@type	Use to specify the type of date expressed in mods:dateOther.	● year	M	N

mods:edition	Use to record an edition or version statement if it appears on the resource.		R	Y
mods:issuance	Use to describe how a resource is issued.	● monographic ● single unit ● multipart monograph ● continuing ● serial ● integrating resource	O	N
mods:frequency	Use to describe how often a resource is published.	Use a value from the marcfrequency list.	R	N

4.5.2 Unsupported attributes and subelements

- @calendar
- mods:dateModified
- mods:dateValid
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.5.3 Example

```
<mods:mods>
    ...
    <mods:originInfo eventType="publication">
    <mods:place>
            <mods:placeTerm type="text">Schoolcraft, Michigan</mods:placeTerm>
    </mods:place>
    <mods:publisher>Patrons of Husbandry, Michigan State Grange</mods:publisher>
    <mods:dateIssued keyDate="yes" encoding="edtf">1875-06</mods:dateIssued>
    <mods:dateOther type="year" encoding="edtf">1875</mods:dateOther>
    </mods:originInfo>
    ...
</mods:mods>
```

4.6.0 <mods:language> (Mandatory, Repeatable)

4.6.1 Element, attributes, and subelements

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:language	Use to describe languages that are used in a significant proportion of the resource, either written or spoken.	mods:language is a container element. See below for subelements.	M	Y
mods:languageTerm	Use to provide the language term or code. Each individual language should be enclosed in its own mods:language element, but a code and text form of the same language should be enclosed in a single mods:language element.	Use a value from ISO639-2b.	M	Y
mods:languageTerm/ @type	Use to specify the type of value in mods:languageTerm. Include both the text and code form for each language. Use ISO639-2b for terms and codes.	● text ● code	M	N
mods:languageTerm/ @authority	Use to specify the source code for the controlled vocabulary used.	● iso639-2b	M	N
mods:languageTerm/ @authorityURI	Use to specify the URI for the controlled vocabulary used.	● http://id.loc.gov/vocabulary/iso639-2	M	N
mods:languageTerm/ @valueURI	Use to specify the URI for the language term or code used. The format for the ISO-639-2b valueURI is http://id.loc.gov/vocabulary/iso639-2/{language code}.	Use the URI provided by the controlled vocabulary.	M	N

4.6.2 Unsupported attributes and subelements

- @usage
- @objectPart
- mods:scriptTerm
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.6.3 Example

```
<mods:mods>
    ...
    <mods:language>
```

```xml
        <mods:languageTerm type="code" authority="iso639-2b"
        authorityURI="http://id.loc.gov/vocabulary/iso639-2"
        valueURI="http://id.loc.gov/vocabulary/iso639-2/eng">eng</mods:languageTerm>
        <mods:languageTerm type="text" authority="iso639-2b"
        authorityURI="http://id.loc.gov/vocabulary/iso639-2"
        valueURI="http://id.loc.gov/vocabulary/iso639-2/eng">English</mods:languageTerm>
    </mods:language>
    <mods:language>
        <mods:languageTerm type="code" authority="iso639-2b"
        authorityURI="http://id.loc.gov/vocabulary/iso639-2"
        valueURI="http://id.loc.gov/vocabulary/iso639-2/pol">pol</mods:languageTerm>
        <mods:languageTerm type="text" authority="iso639-2b"
        authorityURI="http://id.loc.gov/vocabulary/iso639-2"
        valueURI="http://id.loc.gov/vocabulary/iso639-2/pol">Polish</mods:languageTerm>
    </mods:language>
    ...
</mods:mods>
```

4.7.0 <mods:physicalDescription> (Mandatory, Non-Repeatable)

4.7.1 Element, attributes, and subelements

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:physicalDescription	Use to describe the physical attributes of the resource.	mods:physicalDescription is a container element. See below for subelements.	M	N
mods:form	The form of the original resource. Values from controlled vocabularies are preferred, but free text can also be used.	A value from one of the controlled vocabularies listed in the LOC Genre/Form Code and Term Source Codes is preferred.	O	Y
mods:form/ @authority	Provide the source code for the controlled vocabulary from which the form term is taken.	Use a value from the LOC Genre/Form Code and Term Source Codes list.	O	N
mods:form/	Provide the URI for the controlled vocabulary from	Use the URI provided by the	O	N

@authorityURI	which the form term is taken.	controlled vocabulary.		
mods:form/ @valueURI	Provide the URI for the form term used.	Use the URI provided by the controlled vocabulary.	O	N
mods:internetMediaType	Use to specify the electronic format type of the resource.	Use a value from the Internet Media types (MIME types) list.	O	N
mods:extent	A description of the size or length of the original resource. Include units inside the extent element. Records from RDA use metric values for size. For non-RDA records, prefer metric measurements if available, but imperial values are also acceptable. Spelled out forms of units are preferable (e.g. "inches" not "in."). For time or duration, use the format hh:mm:ss.		M	N
mods:digitalOrigin	Use to specify the source of the digital resource.	● born digital ● reformatted digital ● digitized microfilm ● digitized other analog	O	N
mods:note	Use for notes relating to the physical description of the resource. Each note should be in its own note element.		O	Y
mods:note/ @type	Use to specify the type of physical description note.	Use a value from the LOC MODS <note> Types list under "MODS <physicalDescription><note>."	O	N

4.7.2 Unsupported attributes and subelements

- @unit
- mods:reformattingQuality
- mods:note/@typeURI
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.7.3 Example

```
<mods:mods>
```

```
        ...
        <mods:physicalDescription>
                <mods:internetMediaType>image/tiff</mods:internetMediaType>
                <mods:extent>3.5 cm</mods:extent>
                <mods:digitalOrigin>reformatted digital</mods:digitalOrigin>
        </mods:physicalDescription>
        ...
</mods:mods>
```

4.8.0 <mods:abstract> (Recommended, Non-Repeatable)

4.8.1 Element

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:abstract	General description of the resource and its content. It may take the form of an abstract or summary of contents. Use only one abstract element per record.		R	N

4.8.2 Unsupported attributes

- @type
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.8.3 Example

```
<mods:mods>
        ...
        <mods:abstract>Silkscreen poster shows drawing of pianist Nellie Mokatle during a performance in Gaborone.
        Background is black with text in white. Image is black and white. Center of poster has red ink. Dot of red ink
        in lower left corner. "Poster for exhibition of Graphic Work by Judy Seidman at the Gaborone National Museum
        in 1984; drawing of pianist Nellie Mokatle during performance in Gaborone."</mods:abstract>
        ...
</mods:mods>
```

4.9.0 <mods:tableOfContents> (Optional, Non-Repeatable)

4.9.1 Element

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:tableOfContents	A description of the contents of a resource, such as a list of chapter titles in a book or a list of songs on a musical album. Include only if readily available from a MARC record or if the table of contents adds value for the user in terms of discoverability or description of the resource if full text isn't available.		O	N

4.9.2 Unsupported attributes

- @type
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.9.3 Example

```
<mods:mods>
    ...
    <mods:tableOfContents>Jeff's got the right dope at that -- Here's a tip on how to make a fan last forever --
    As we go to press, Bill's kid is still waiting for a name -- Evidently Mutt isn't very loose with his
    change</mods:tableOfContents>
    ...
</mods:mods>
```

4.10.0 <mods:targetAudience> (Not Supported)

mods:targetAudience is not supported at this time.

4.11.0 <mods:note> (Optional, Repeatable)

4.11.1 Element and attributes

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:note	Notes about the resource, when another more specific MODS field isn't available.		O	Y
@type	Describes the type of note. In order of preference, use: a value from the list of MODS in Appendix C, a value from the "MODS <note> Types" list, or some other value.	Preferably use a value from Appendix C or the "MODS <note> Types" list.	O	N

4.11.2 Unsupported attributes

- @typeURI
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.11.3 Example

```
<mods:mods>
    ...
    <mods:note type="venue">Taken at Chelmno nad Nerem, Poland; near Lodz, 1992 June</mods:note>
    ...
</mods:mods>
```

4.12.0 <mods:subject> (Mandatory, Repeatable)

4.12.1 Element, attributes, and subelements

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:subject	A term that represents the primary topic(s) on	mods:subject is a container	M	Y

	which the resource is focused. Preferred vocabularies are FAST and LCSH for topics and names, TGN for hierarchical geographic terms, and MARCGAC for geographic codes. Each record must contain at least one FAST subject.	element. See subelements below.		
@authority	Specify authority only at the subject level. Provide the source code for the controlled vocabulary from which the subject term is taken. Use value "lcsh" only for subjects where the entire subject is a valid LCSH. Use value "local" only when subjects are from a controlled and maintained local list, otherwise do not include the authority attribute.	Preferably use source codes from Appendix D. A value from the LC Subject Headings and Term Source Codes list can also be used.	R	N
@authorityURI	Provide the URI for the vocabulary from which the subject term is taken. Use value "http://id.loc.gov/authorities/subjects" only for subjects where the entire subject is a valid LCSH.	Use the URI provided by the controlled vocabulary.	R	N
@valueURI	Provide the URI for the subject term. Do not include for a subject element whose only subelement is mods:temporal.	Use the URI provided by the controlled vocabulary.	R	N
mods:topic	Use for topical subjects (i.e. anything that isn't appropriate for another mods:subject subelement).	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	Y
mods:geographic	Use for geographic subjects that are not appropriate for the mods:hierarchicalGeographic element. This element is generally used for geographic subdivisions from MARC.	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	Y
mods:temporal	Use for time periods or dates covered by the resource.	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	Y
mods:titleInfo	Use for a title that is used as a subject.	See mods:titleInfo for subelements. Do not include attributes on	O	Y

		mods:subject/mods:titleInfo.		
mods:name	Use for a name that is used as a subject.	See mods:name for subelements and attributes.	O	Y
mods:genre	Use for a genre or form that's used as part of a subject string. For the genre of the resource itself, use mods:mods/mods:genre. For the form of the resource itself, use mods:mods/mods:physicalDescription/mods:form.	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	Y
mods:hierarchicalGeographic	The mods:geographic subelement may not include information at a consistent granularity. Include geographic information encoded in a mods:hierarchicalGeographic subject when the place the resource is about is an important search facet.	mods:hierarchicalGeographic is a container element. See below for subelements.	O	Y
mods:hierarchicalGeographic / */@level	Use on any subelement of mods:hierarchicalGeographic to indicate the level of hierarchy of that subelement in relation to its siblings. Only valid in MODS 3.6 or later.	Use a numerical value (e.g. 1).	O	N
mods:hierarchicalGeographic / */@period	Use on any subelement of mods:hierarchicalGeographic to indicate the period during which the place existed. Only use to describe entities that no longer exist. Only valid in MODS 3.6 or later.		O	N
mods:hierarchicalGeographic / mods:continent	Name of a continent.	● Asia ● Africa ● Europe ● North America ● South America	O	N
mods:hierarchicalGeographic / mods:country	Name of a country.	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	N
mods:hierarchicalGeographic	Name of a region that has status as a jurisdiction.	Follow spelling, punctuation,	O	N

/ mods:region		and capitalization used in the controlled vocabulary (where applicable).		
mods:hierarchicalGeographic / mods:region/@regionType	Use to designate the specific type of region. Only valid in MODS 3.6 or later.		O	N
mods:hierarchicalGeographic / mods:state	Name of a first order political division within a country (e.g. states in the USA, départements in France).	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	N
mods:hierarchicalGeographic / mods:territory	Name of a geographical area belonging to or under the jurisdiction of a governmental authority.	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	N
mods:hierarchicalGeographic / mods:county	Name of the largest local administrative unit in a country.	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	N
mods:hierarchicalGeographic / mods:city	Name of an inhabited place incorporated as a city, town, etc.	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	N
mods:hierarchicalGeographic / mods:citySection	Name of a smaller unit within a populated place (e.g. neighborhoods).	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	N
mods:hierarchicalGeographic / mods:citySection/ @citySectionType	Use to designate the specific type of city section (e.g. neighborhood). Only valid in MODS 3.6 or later.		O	N
mods:hierarchicalGeographic / mods:island	Name of a tract of land surrounded by water and smaller than a continent that is not by itself a separate country.	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where	O	N

		applicable).		
mods:hierarchicalGeographic / mods:area	Name of a non-jurisdictional geographic entity.	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	N
mods:hierarchicalGeographic / mods:area/@areaType	Use to designate the specific type of area (e.g. national park). Only valid in MODS 3.6 or later.		O	N
mods:hierarchicalGeographic / mods:extraterrestrialArea	Name of any extraterrestrial entity or space (e.g. solar systems, galaxies, star systems, planets, geographical features of planets).	Follow spelling, punctuation, and capitalization used in the controlled vocabulary (where applicable).	O	N
mods:cartographics	Cartographic information may or may not be bound together with mods:geographic or mods:hierarchicalGeographic element(s) in a single mods:subject element. Generally only include cartographic information if it is readily available in a source MARC record, i.e. for maps.	mods:cartographics is a container element. See below for subelements.	O	Y
mods:cartographics/ mods:coordinates	Coordinates covered by the resource. One or more statements may be supplied.	Prefer degrees/minutes/seconds format.	O	Y
mods:cartographics/ mods:scale	Use for a statement of scale (the ratio between the actual size and a representation of it).		O	N
mods:cartographics/ mods:projection	Use for a statement of projection (the method of representing the surface of a three-dimensional shape on a plane).		O	N
mods:geographicCode	A geographic code associated with the resource.	Use values from the MARC Code List for Geographic Areas.	O	Y

4.12.2 Unsupported attributes and subelements

- @usage

- mods:occupation
- mods:province
- See also: [Appendix A. Attributes Not Supported Throughout the Schema](#)

4.12.3 Examples

```xml
<mods:mods>
    ...
    <mods:subject>
        <mods:cartographics>
            <mods:coordinates>E 4°26'--E 30°25'/N 65°56'--N 53°26'</mods:coordinates>
            <mods:scale>Scale approximately 1:12,500,000</mods:scale>
        </mods:cartographics>
    </mods:subject>
    <mods:subject authority="marcgac" authorityURI="http://id.loc.gov/vocabulary/geographicAreas"
    valueURI="http://id.loc.gov/vocabulary/geographicAreas/ln">
        <mods:geographicCode>ln-----</mods:geographicCode>
    </mods:subject>
    <mods:subject authority="lcsh" authorityURI="http://id.loc.gov/authorities/subjects">
        <mods:geographic>Baltic Sea</mods:geographic>
        <mods:genre>Maps</mods:genre>
        <mods:genre>Early works to 1800</mods:genre>
    </mods:subject>
    <mods:subject authority="fast" authorityURI="http://id.worldcat.org/fast"
    valueURI="http://id.worldcat.org/fast/1241545">
        <mods:geographic>Atlantic Ocean</mods:geographic>
        <mods:geographic>Baltic Sea</mods:geographic>
    </mods:subject>
    ...
</mods:mods>

<mods:mods>
    ...
    <mods:subject authority="lcsh" authorityURI="http://id.loc.gov/authorities/subjects">
        <mods:name type="corporate">
            <mods:namePart>Mauthausen (Concentration camp)</mods:namePart>
        </mods:name>
        <mods:genre>Slides</mods:genre>
    </mods:subject>
    <mods:subject authority="fast" authorityURI="http://id.worldcat.org/fast"
    valueURI="http://id.worldcat.org/fast/723555">
```

```
        <mods:name type="corporate">
                <mods:namePart>Mauthausen (Concentration camp)</mods:namePart>
        </mods:name>
    </mods:subject>
    <mods:subject authority="tgn" authorityURI="http://vocab.getty.edu/tgn"
valueURI="http://vocab.getty.edu/tgn/7012595">
        <mods:hierarchicalGeographic>
                <mods:continent>Europe (continent)</mods:continent>
                <mods:country>Austria (nation)</mods:country>
                <mods:state>Oberösterreich (state)</mods:state>
                <mods:city>Mauthausen (inhabited place)</mods:city>
        </mods:hierarchicalGeographic>
    </mods:subject>
    ...
</mods:mods>
```

4.13.0 <mods:classification> (Optional, Repeatable)

4.13.1 Element and attributes

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:classification	Use for classification or call numbers. Use only if readily available in a source MARC record. Only include one mods:classification per @authority (including no @authority).		O	Y
@authority	Provide the source code for the classification scheme from which the classification or call number is taken.	Prefer a value from the LC Source Codes for Vocabularies, Rules, and Schemas list.	O	N
@authorityURI	Provide the URI for the classification scheme from which the classification or call number is taken.	Use the URI provided by the classification scheme.	O	N
@valueURI	Provide the URI for the classification or call number.	Use the URI provided by the classification scheme.	O	N

4.13.2 Unsupported attributes

- @edition
- @usage
- @generator
- See also: [Appendix A. Attributes Not Supported Throughout the Schema](#)

4.13.3 Example

```
<mods:mods>
    ...
    <mods:classification>Voice 11380</mods:classification>
    ...
</mods:mods>
```

4.14.0 <mods:relatedItem> (Mandatory, Repeatable)

4.14.1 Element, attributes, and subelements

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:relatedItem	Use to record information about the parent collection of the resource and, where applicable, relations to other resources.	mods:relatedItem is a container element. See below for subelements.	M	Y
@type	Use to specify the nature of the relationship between the resource and the relatedItem. Every relatedItem element should include either a @type or @otherType attribute. Information about the parent collection in mods:relatedItem[@type="host"] is mandatory.	● host ● constituent ● series ● otherVersion ● isReferencedBy ● references	M	N
@otherType	Use to specify the nature of the relationship between the resource and the relatedItem when the @type attribute is not specific enough. Every relatedItem element should include either a @type or @otherType attribute.	● relatedMaterials ● containedIn	O	N

			O	N
@otherTypeAuth	Provide the source code for the controlled vocabulary from which the @otherType value is taken.		O	N
@otherTypeAuthURI	Provide the URI for the controlled vocabulary from which the @otherType value is taken.		O	N
@otherTypeURI	Provide the URI for the @otherType value.		O	N
@xlink:href	Provide the URI for the authority record of the item described.		O	N
mods:titleInfo	Use for the title of the related resource. Record mods:title in title case.	See mods:titleInfo for subelements.	M	Y
mods:identifier	Use for the identifier of the related resource. For the parent collection, mods:identifier[@type="oai_set"] is required. If the parent collection is also a journal, optionally include mods:identifier[@type="issn"] and/or mods:identifier[@type="local"] with the journal's OCLC number.	See mods:identifier for attributes.	M	Y
mods:location	Use for the location of the related resource. For online resources, use a permanent link such as a DOI or ARK whenever possible.	See mods:location for attributes and subelements.	O	Y
mods:part	Use to designate physical parts of a resource such as an issue of a journal or a single story from a collection.	mods:part is a container element. See below for subelements.	O	Y
mods:part/@type	Use to designate the part type especially if there is more than one mods:part under a single mods:relatedItem element.		O	N
mods:part/mods:detail	Use to indicate the numbering and type of designation of the part in relation to the parent item.	mods:detail is a container element. See below for subelements.	O	Y
mods:part/mods:detail/ @type	Use to indicate the type of detail. For resources in a collection that should be viewed in a sequence, use mods:detail[@type="sequence_number"] to indicate	● sequence_number ● series_total ● volume	O	N

		● part ● issue ● chapter ● section ● track ● paragraph		
mods:part/mods:detail/ mods:number	Use to indicate the number in a sequence.	Use a numerical value (e.g. "3").	O	N
mods:part/mods:detail/ mods:caption	Use to convey details about the type of number that appear on the resource.	Use the term that appears on the resource (e.g. "Issue").	O	N
mods:part/mods:detail/ mods:title	Use to indicate the title of the part only if it is different from the title in the mods:relatedItem/mods:titleInfo element.		O	N

4.14.2 Unsupported attributes

- See: Appendix A. Attributes Not Supported Throughout the Schema

Note: All MODS elements are valid to be used under mods:relatedItem, but there has not yet been a use case for any elements outside those listed above in the MSUL Digital Repository.

4.14.3 Examples

```
<mods:mods>
    ...
    <mods:relatedItem type="isReferencedBy">
        <mods:location>
            <mods:url note="catalog_record">http://catalog.lib.msu.edu/record=b12013638</mods:url>
        </mods:location>
    </mods:relatedItem>
    <mods:relatedItem type="host">
        <mods:titleInfo>
            <mods:title>Africana Posters Collection</mods:title>
        </mods:titleInfo>
        <mods:identifier type="oai_set">apc_root</mods:identifier>
    </mods:relatedItem>
    ...
</mods:mods>
```

```
<mods:mods>
    ...
    <mods:relatedItem type="series">
        <mods:titleInfo>
        <mods:title>Chelmno Concentration Camp</mods:title>
        </mods:titleInfo>
        <mods:part>
        <mods:detail type="sequence_number">
                <mods:number>17</mods:number>
        </mods:detail>
        <mods:detail type="series_total">
                <mods:number>39</mods:number>
        </mods:detail>
        </mods:part>
    </mods:relatedItem>
    ...
</mods:mods>
```

4.15.0 <mods:identifier> (Mandatory, Repeatable)

4.15.1 Element and attributes

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:identifier	A unique number or code that distinctively identifies the resource. One mods:identifier[@type="filename"] is required. Additional identifiers are optional but recommended where they can be useful in distinguishing the resource.		M	Y
@type	Describes the type of identifier.	● filename ● isbn ● issn ● local ● msu-museum ● oai_set ● umi	M	Y

4.15.2 Unsupported attributes

- @typeURI
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.15.3 Example

```
<mods:mods>
    ...
    <mods:identifier type="local">vvl:DB33943</mods:identifier>
    <mods:identifier type="filename">DB33943</mods:identifier>
    ...
</mods:mods>
```

4.16.0 <mods:location> (Mandatory, Repeatable)

4.16.1 Element, attributes, and subelements

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:location	Identifies the electronic location of the resource. One mods:location/mods:url[@usage="primary"] is required. This element is added with Swamplr as part of the ARK or DOI generation process. When MODS records are transformed for DPLA aggregation, an additional mods:location/mods:url[@access="preview"] is also generated.	mods:location is a container element. See below for subelements.	M	Y
mods:physicalLocation	The institution that holds the resource.	Preferably use the form of the name from LCNAF if possible.	O	N
mods:physicalLocation/ @authority	Provide the source code for the controlled vocabulary from which the name is taken.	● naf	O	N
mods:physicalLocation/ @authorityURI	Provide the URI for the controlled vocabulary from which the name is taken.	● http://id.loc.gov/authorities/ names	O	N

mods:physicalLocation/ @valueURI	Provide the URI for the name.	Use the URI provided by the controlled vocabulary.	O	N
mods:url	A link to the resource in context (e.g. the digital repository item page).	A resolvable URL.	M	Y
mods:url/@note	Use to identify the type or source of the URL.	● ark ● catalog_record ● doi	O	N
mods:url/@access	Use to identify the type of resource located at the URL.	● preview ● object in context	O	N
mods:url/@usage	Use to identify how the object at the URL will be used.	● primary	M	N

4.16.2 Unsupported attributes and subelements

- mods:shelfLocator
- mods:holdingSimple
- mods:holdingExternal
- See also: Appendix A. Attributes Not Supported Throughout the Schema

4.16.3 Example

```
<mods:mods>
    ...
    <mods:location>
        <mods:physicalLocation authority="naf">Michigan State University. Libraries. Special Collections
        Division</mods:physicalLocation>
    </mods:location>
    <mods:location>
        <mods:url note="ark" usage="primary">https://n2t.net/ark:/85335/m5ft1m</mods:url>
    </mods:location>
    ...
</mods:mods>
```

4.17.0 <mods:accessCondition> (Mandatory, Repeatable)

4.17.1 Element, attributes, and subelements

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:accessCondition	Describes copyright-related information about the resource.	Use either a statement from MSUL or rightsstatements.org.	M	Y
@type	Indicates the type of accessCondition statement. One mods:accessCondition[@type="dpla"] with a copyright statement from rightsstatements.org is required. A second mods:accessCondition[@type="use and reproduction"] with a full copyright statement is also required for non-TIC resources. One mods:accessCondition[@type="rights holder"] with a cdl:copyright subelement is required for TIC journals.	● dpla ● use and reproduction ● rights holder	M	N
@xlink:href	Use for the rightsstatements.org URL for mods:accessCondition[@type="dpla"].	Use a rightsstatements.org URL.	O	N
cdl:copyright	Use only for TIC journals to provide information on the journal's rights holder and use restrictions.	cdl:copyright is a container element. See below for attributes and subelements.	O	N
cdl:copyright/ @copyright.status	Use to indicate the resource's copyright status.	● copyrighted ● pd ● pd_usfed ● pd_holder ● pd_expired ● unknown	O	N
cdl:copyright/ @publication.status	Use to indicate the resource's publication status.	● published ● unpublished ● unknown	O	N
cdl:copyright/	Use to provide the link to the schema location for the	● http://www.cdlib.org/inside/	O	N

@xsi:schemaLocation	cdl extension.	diglib/copyrightMD http://www.cdlib.org/groups /rmg/docs/copyrightMD.xsd		
@cdl:copyright/ cdl:rights.holder	Use to provide information about the rights holder.	cdl:rights.holder is a container element. See below for subelements.	O	N
@cdl:copyright/ cdl:rights.holder/ cdl:name	Use to provide the name of the rights holder.		O	N
@cdl:copyright/ cdl:rights.holder/ cdl:contact	Use to provide contact information for the rights holder. May include a physical address, phone number, website, and/or email address.		O	N
@cdl:copyright/ cdl:general.note	Use for additional information about use restrictions that is not appropriate for another element.	Include a link to the conditions of use for the journal.	O	N

4.17.2 Unsupported attributes

- See: Appendix A. Attributes Not Supported Throughout the Schema

4.17.3 Examples

```
<mods:mods>
    ...
    <mods:accessCondition type="dpla" xlink:href="http://rightsstatements.org/vocab/InC/1.0/">In
    Copyright</mods:accessCondition>
    <mods:accessCondition type="rights holder">
        <cdl:copyright xmlns:cdl="http://www.cdlib.org/inside/diglib/copyrightMD" copyright.status="copyrighted"
        publication.status="published" xsi:schemaLocation="http://www.cdlib.org/inside/diglib/copyrightMD
        http://www.cdlib.org/groups/rmg/docs/copyrightMD.xsd">
            <cdl:rights.holder>
                <cdl:name>Australian Golf Course Superintendents Association</cdl:name>
                <cdl:contact>Address: Suite 1, Monash Corporate Centre, 752 Blackburn Road, Clayton VIC
                3168; Phone: 61-3-9548-8600; Web: www.agcsa.com.au</cdl:contact>
            </cdl:rights.holder>
            <cdl:general.note>For conditions of use, see: &lt;a
            href=&quot;https://d.lib.msu.edu/austm&quot;&gt;Use of Australian Turfgrass Management Journal
            content&lt;/a&gt;.</cdl:general.note>
```

```
            </cdl:copyright>
          </mods:accessCondition>
    ...
</mods:mods>

<mods:mods>
    ...
    <mods:accessCondition type="use and reproduction">Creative Commons Public Domain Mark 1.0: This work has
    been identified as being free of known restrictions under copyright law, including all related and neighboring
    rights. You can copy, modify, distribute and perform the work, even for commercial purposes, all without
    asking permission.</mods:accessCondition>
    <mods:accessCondition type="dpla" xlink:href="https://creativecommons.org/publicdomain/mark/1.0/">No Copyright
    </mods:accessCondition>
    ...
</mods:mods>
```

4.18.0 <mods:part> (Not Supported)

mods:part is not supported as a top-level element. See mods:relatedItem for guidelines on the use of mods:part.

4.19.0 <mods:extension> (Not Supported)

mods:extension is not supported at this time.

4.20.0 <mods:recordInfo> (Mandatory, Non-Repeatable)

4.20.1 Element, attributes, and subelements

Element/Attribute	Usage	Values	Requirement	Repeatable
mods:recordInfo	Use for information about the creation and maintenance of the MODS record itself.	mods:recordInfo is a container element. See below for subelements.	M	N
mods:recordContentSource	Use to identify the organization that created or modified the MODS record. Two mods:recordContentSource elements should	● MiEM ● Michigan State University. Libraries	M	Y

	appear, one for MSUL's MARC code and one for the NAF form of the name. Additional elements may be used as necessary.			
mods:recordContentSource/ @authority	Provide the source code for the controlled vocabulary from which the mods:recordContentSource is taken.	● marcorg ● naf	M	N
mods:recordContentSource/ @authorityURI	Provide the URI for the controlled vocabulary from which the mods:recordContentSource is taken.	● http://id.loc.gov/vocabulary/ organizations ● http://id.loc.gov/authorities/ names	M	N
mods:recordContentSource/ @valueURI	Provide the URI for the mods:recordContentSource value.	● http://id.loc.gov/vocabulary/ organizations/miem ● http://id.loc.gov/authorities/ names/n93024323	M	N
mods:recordCreationDate	Provide the date the MODS record was originally created.	Use EDTF form.	M	N
mods:recordCreationDate/ @encoding	Specify the encoding type of the mods:recordCreationDate.	● edtf	M	N
mods:recordChangeDate	Provide the date the MODS record was last updated.	Use EDTF form.	R	N
mods:recordChangeDate/ @encoding	Specify the encoding type of the mods:recordChangeDate.	● edtf	M	N
mods:recordIndentifier	Provide the unique system control number for the record assigned by the organization that created the record.	Typically an OCLC number and/or a MSUL identifier in the format {namespace}:{filename}.	R	Y
mods:recordIndentifier/ @source	Provide the code or name of the organization whose system control number is in the mods:recordIdentifier element.	● MiEM ● OCoLC		
mods:recordOrigin	Use to describe the origin or provenance of the MODS record.		R	N

mods:languageOfCataloging	The language of the text of the cataloging in the MODS record.	mods:languageOfCataloging is a container element. See below for subelements.	M	Y
mods:languageOfCataloging/ mods:languageTerm	The code of the language used in cataloging in the MODS record.	● eng	M	Y
mods:languageOfCataloging/ mods:languageTerm/ @type	Use to specify the type of value in mods:languageTerm. It's only necessary to include the language code.	● code ● text	M	N
mods:languageOfCataloging/ mods:languageTerm/ @authority	Use to specify the source code for the controlled vocabulary used. Use ISO-6392b.	● iso639-2b	M	N
mods:languageOfCataloging/ mods:languageTerm/ @authorityURI	Use to specify the URI for the controlled vocabulary used.	● http://id.loc.gov/vocabulary/i so639-2	R	N
mods:languageOfCataloging/ mods:languageTerm/ @valueURI	Use to specify the URI for the language term or code used. The format for the ISO-639-2b valueURI is http://id.loc.gov/vocabulary/iso639-2/{language code}.	Use the URI provided by the controlled vocabulary.	R	N
mods:descriptionStandard	Use to specify the rules used for the content of the description in the MODS record, if applicable.	Use a code from the LOC Source Codes for Vocabularies, Rules, and Schemes list.	O	N
mods:descriptionStandard/ @authority	Use to specify the source code for the controlled vocabulary used. Use the online listing of Description Convention Source Codes maintained by LOC.	● marcdescription	O	N
mods:descriptionStandard/ @authorityURI	Use to specify the URI for the controlled vocabulary used. Use the online listing of Description Convention Source Codes maintained by LOC.	● http://id.loc.gov/vocabulary/ descriptionConventions	O	N
mods:descriptionStandard/ @valueURI	Use to specify the URI for the description code used. URIs follow the format http://id.loc.gov/vocabulary/descriptionConventio	Use a URI from the controlled vocabulary.	O	N

	ns/{description code}.			

4.20.2 Unsupported attributes and subelements

- mods:recordInfoNote
- mods:languageOfCataloging/mods:scriptTerm
- See also: [Appendix A. Attributes Not Supported Throughout the Schema](#)

4.20.3 Example

```xml
<mods:mods>
    ...
    <mods:recordInfo>
        <mods:descriptionStandard authority="marcdescription"
        authorityURI="http://id.loc.gov/vocabulary/descriptionConventions"
        valueURI="http://id.loc.gov/vocabulary/descriptionConventions/aacr">aacr</mods:descriptionStandard>
        <mods:recordContentSource authority="marcorg" authorityURI="http://id.loc.gov/vocabulary/organizations"
        valueURI="http://id.loc.gov/vocabulary/organizations/miem">MiEM</mods:recordContentSource>
        <mods:recordContentSource authority="naf" authorityURI="http://id.loc.gov/authorities/names"
        valueURI="http://id.loc.gov/authorities/names/n93024323">Michigan State University.
        Libraries</mods:recordContentSource>
        <mods:recordCreationDate encoding="edtf">2017-09-21</mods:recordCreationDate>
        <mods:recordChangeDate encoding="edtf">2017-10-03</mods:recordChangeDate>
        <mods:recordOrigin>Record was generated from MARC using a custom XSLT in OxygenXML.</mods:recordOrigin>
        <mods:languageOfCataloging>
            <mods:languageTerm authority="iso639-2b" authorityURI="http://id.loc.gov/vocabulary/iso639-2"
            type="code" valueURI="http://id.loc.gov/vocabulary/iso639-2/eng">eng</mods:languageTerm>
        </mods:languageOfCataloging>
    </mods:recordInfo>
    ...
</mods:mods>
```

Appendix A. Attributes Not Supported Throughout the Schema

- @altFormat
- @altRepGroup
- @contentType
- @displayLabel
- @ID
- @invalid

- @lang
- @nameTitleGroup
- @script
- @shareable
- @supplied
- @transliteration
- @xml:lang

Appendix B. List of Role Terms

Term	authority	authorityURI	valueURI
artist	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/art
author	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/aut
cartographer	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/ctg
degree committee member	rda	http://rdaregistry.info/Elements/u	http://rdaregistry.info/Elements/u/P60815
contributor	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/ctb
copyright holder	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/cph
correspondent	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/crp
creator	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/cre
editor	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/edt
filmmaker	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/fmk
illustrator	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/ill
interviewee	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/ive
interviewer	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/ivr
manufacturer	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/mfr

owner	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/own
photographer	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/pht
programmer	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/prg
publisher	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/pbl
reporter	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/rpt
signer	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/sgn
speaker	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/spk
thesis advisor	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/ths
translator	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/trl
sponsor	marcrelator	http://id.loc.gov/vocabulary/relators	http://id.loc.gov/vocabulary/relators/spn

Appendix C. List of Note Types

Note Type	Use
admin	Use for administrative notes.
bibliography	Use to indicate presence of a bibliography in the resource.
biographical/historical	Use for historical notes about objects or people depicted or described in the resource.
funding	Use to indicate funding sources (e.g. grants for digitization). NB: to indicate the source of an item that was gifted to the library, use note type "gift."
geographicCoverage	Use to describe geographic content shown or described in the resource.
gift	For items that are gifts, use to indicate the source of the gift. NB: to indicate a funding source for a project such as a grant, use note type "funding."
see_also	Use to describe a related resource and its relationship to the resource described in the MODS record. Use

	only for information that would not be appropriate to include in a mods:relatedItem element.
statement of responsibility	Use to record the statement about creators and/or contributors that appears on the resource. Use only in MODS records derived from MARC that use the 245$c to record a statement of responsibility.
thesis	Use to record the level of degree, degree granting institution, program, and year of a thesis or dissertation. Use only for ETD records derived from MARC.
turf_industry	Use to specify the turf-related industry depicted in the resource. Use only for MODS records derived from TGIF database records that include a turf industry term.
turf_zone	Use to specify the turf zone depicted in the resource. Use only for MODS records derived from TGIF database records that include a turf zone term.
venue	Use to record where and when the object was found, created, recorded, or broadcast.

Appendix D. List of Subject Types

authority	authorityURI	Use
fast	http://id.worldcat.org/fast	The most preferred and most commonly used subject vocabulary in the MSUL Digital Repository.
lcsh	http://id.loc.gov/authorities/subjects	Second most preferred subject vocabulary in the MSUL Digital Repository, particularly for records derived from MARC.
marcgac	http://id.loc.gov/vocabulary/geographicAreas	Use for seven-character geographic area codes if included in the source MARC record.
tgn	http://vocab.getty.edu/tgn	Use for mods:subject/mods:hierarchicalGeographic terms.
tic	N/A	Use for TIC Thesaurus terms.
umi	N/A	Use for UMI subject terms generated by ProQuest for ETD records.