

UA Libraries MODS Data Dictionary

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Contents

Introduction	4
<mods>	6
<titleInfo>	8
Subelements of <titleInfo>	9
<nonSort>	9
<title>.....	9
<subTitle>.....	9
<partName>	10
<partNumber>.....	10
<name>.....	11
Subelements of <name>.....	12
<namePart>.....	12
<role>.....	12
<typeOfResource>.....	14
<genre>.....	15
<originInfo>.....	16
Subelements of <originInfo>.....	16
<place>.....	16
<publisher>	17
<dateCreated>.....	18
<dateIssued>.....	18
<dateOther>	18
<edition>.....	19
<language>.....	19
Subelements of <language>.....	20
<languageTerm>.....	20
<physicalDescription>.....	21
Subelements of <physicalDescription>.....	21
<form>	21
<internetMediaType>.....	22

<extent>	22
<digitalOrigin>	22
<note>.....	23
<abstract>	24
<tableOfContents>	25
<note>.....	26
<subject>.....	27
Subelements of <subject>.....	27
<topic>	27
<geographic>.....	28
<temporal>.....	28
<titleInfo>.....	28
<name>	28
<genre>	29
<cartographics>.....	29
<occupation>.....	29
<classification>	31
<relatedItem>	32
<identifier>.....	33
<location>	34
Subelements of <location>	34
<physicalLocation>	34
<shelfLocator>.....	35
<url>.....	35
<accessCondition>.....	37
<part>	38
Subelements of <part>	39
<detail>	39
<date>	40
<extent>.....	40
<extension>.....	41
<recordInfo>	42

Subelements of <recordInfo>	42
<recordContentSource>.....	42
<recordCreationDate>	42
<recordChangeDate>.....	42
<recordOrigin>	43
<languageOfCataloging>.....	43
<languageTerm>.....	43
Appendix 1: CONTENTdm to MODS Mapping	45
Appendix 2: Local MODS <note> Types.....	47
Appendix 3: Full Examples	48
Appendix 4: Data Dictionary Change Log	57

Introduction

Purpose and Scope

The purpose of this data dictionary is to guide local practice of consistent descriptive metadata creation that facilitates: discoverability of resources within our user discovery systems, shareability of resources with other institutions and metadata aggregators, and interoperability with both local and external discovery systems. The scope of these guidelines covers primarily description of cultural heritage materials, but the guidelines also apply to born digital materials (e.g, ETDs).As the collection of born digital materials grows, the guidelines may be expanded to accommodate these new genres and digital formats. The guidelines presented here are intended to give a general overview of best practices. Certain collections, genres, or formats may require more detailed instruction for description. Collection, genre, or format specific dictionaries may be created to extend these guidelines as the need arises.

Sources Consulted

These guidelines are intended to be used with the Metadata Object Description Schema (MODS) and are derived from the Library of Congress Guidance for MODS Record Creation¹ version 3.4². MODS is a bibliographic element set derived from MARC21 and expressed in XML. Though it was designed for library applications, MODS may be used for a variety of purposes.³ In creating these guidelines, the Metadata Unit also consulted the Digital Library Federation/Aquifer Implementation Guidelines for Shareable MODS Records⁴. The DLF guidelines were created to extend the LC MODS guidelines in promoting shareability and interoperability of metadata. Consideration of local requirements and limitations, however, demanded occasional deviation from the DLF guidelines. Additionally, the DLF guidelines were last updated in 2006, and as online data exchange protocols evolve, the guidelines should be reinterpreted and adapted to support future best practices.

In developing the data dictionary, special consideration was given to the consistent structuring of our metadata for machine readability in order to better prepare it for interoperability with linked data/semantic web applications and publishing mechanisms and to allow for a smooth migration to future metadata storage systems.

Standards, Authorities, and Controlled Values

The MODS schema may be used with any content standard, but these guidelines will assume use of AACR2 as the primary content standard and DACS (Describing Archives: A Content Standard)⁵ for materials that do not fall within the scope of AACR2. Most authorities will be drawn from either Library of Congress or from recognized authorities within the cultural heritage community, such as the Getty's Art and Architecture Thesaurus. Most controlled values will be taken from MARC value lists. Dates and languages should be encoded according to NISO standards.

Reading the Data Dictionary

These guidelines give a general overview of local requirements. Advice is given for elements and attributes currently in use, but additional elements and attributes may be added to the dictionary as the

¹ <http://www.loc.gov/standards/mods//userguide/>

² <http://www.loc.gov/standards/mods/v3/mods-3-4.xsd>

³ <http://www.loc.gov/standards/mods//userguide/introduction.html>

⁴

https://wiki.dlib.indiana.edu/confluence/download/attachments/24288/DLFMODS_ImplementationGuidelines.pdf

⁵ <http://www.archivists.org/governance/standards/dacs.asp>

need arises. Constraints and usage guidelines reflect the desired local usage and may be stricter than as outlined in the MODS schema.

The dictionary is organized in top-level element order. Subelements are indented and listed below their respective top-level elements.

Constraint guidelines should be interpreted as follows:

- **OBLIGATION** – Top-level elements listed as “*Required*” are required by local usage guidelines. Subelements listed as “*Required*” are required only if the parent element is used. Elements listed as “*Required if applicable*” are required if warranted by the specific resource being described. (For example, <nonSort> is required if the title of the resource begins with a nonfiling article.) Elements listed as “*Recommended*” are optional, but are strongly recommended and should be included if the information is readily available and if time and resources allow. Elements listed as “*Optional*” are not required and may be included at the metadata creator’s discretion based on time and resources available.
- **CONTROLLED** – Values for elements designated as controlled should be taken from the controlled vocabulary described in the element’s usage guidelines. Elements listed as “*controlled if applicable*” are required if warranted by the specific resource being described.
- **REPEATABLE** – Top-level elements listed as repeatable may be repeated within the record. Subelements listed as repeatable may be repeated within the parent element.

Definitions are taken from The Library of Congress MODS User Guidelines⁶. Usage guidelines reflect local guidelines and are meant to give general advice for element use. If more specific guidance is needed for populating elements, please consult a metadata librarian.

Attribute tables list constraints and guidelines for attributes currently in use, but do not give an exhaustive list of all attributes available to an element. Attribute usage guidelines may be added by a metadata librarian as the need arises.

Subelement tables summarize subelements currently in use, not the entire list of subelements available to an element. In-depth usage guidelines for subelements follow each subelement table. Additional subelements may be added by a metadata librarian as the need arises. Bear in mind, however, that adding an attribute or subelement to the dictionary will in most cases create a new semantic unit, and with it comes the added responsibility of determining how to display and index it in Acumen (UA’s digital repository) and mapping it to OAI-DC and other downstream formats.

Applying the guidelines

Whenever possible, element values should be taken from the appropriate controlled vocabularies listed in the data dictionary. Alternative terms or authorities may be added as needed by a metadata librarian. The authority “local” should only be used for locally controlled terms, such as AACR2-structured personal names not found in LCNAP, and not for uncontrolled terms such as author-supplied keywords.

Multiple values for elements, such as subject headings or genres, should be recorded in repeated elements rather than delimited within one element.

⁶ <http://www.loc.gov/standards/mods//userguide/>

ISBD punctuation as used in MARC should be retained if used within an element, but should be dropped between elements. For example, “245.10\$aPrivate eyeballs :\$ba golden treasury of bad taste.” would be represented as <title>Private eyeballs</title><subTitle>a golden treasury of bad taste</subTitle> (colon and ending period are dropped). Also, as a general rule, do not include ending punctuation except for free-text notes (<note>) or descriptions (<abstract>) where it is grammatically necessary. Do not use brackets for supplied titles and dates.

<mods>

Obligation: Required
 Controlled: No
 Repeatable: No

Definition

Root element for a MODS record.

Usage Guidelines

UA Libraries Digital Program practices require one record per file, so use <mods> as root element rather than <modsCollection>, which is intended to wrap multiple MODS records. Use the following namespaces and attributes listed in the attribute table.

Attributes	UA Usage	Values
xmlns	required	http://www.loc.gov/mods/v3
xmlns:xs	required	http://www.w3.org/2001/XMLSchema
xmlns:xsi	required	http://www.w3.org/2001/XMLSchema-instance
xsi:schemaLocation	required (use both values)	http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods-3-4.xsd
xmlns:xlink	required	http://www.w3.org/1999/xlink
xmlns:etd	required for ETD	http://www.ndltd.org/standards/metadata/etdms/1.0/
version	required	3.4

Top-level elements	UA Usage	Controlled	Repeatable
titleInfo	required	no	yes
name	recommended	yes	yes
typeOfResource	required	yes	yes
genre	required	yes	yes
originInfo	required	no	yes
language	required if applicable	yes	yes
physicalDescription	required	no	no
abstract	optional	no	yes
tableOfContents	optional	no	no
note	optional	no	yes
subject	optional	yes	yes
classification	optional	yes	yes
relatedItem	required	no	yes
identifier	required	yes	yes
location	required	no	yes
accessCondition	recommended	no	yes
extension	optional, required for ETD	no	yes
recordInfo	required	no	no

<titleInfo>

Obligation: Required
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/titleinfo.html>

Usage Guidelines

Use <nonSort> for all nonfiling characters and articles (i.e., initial articles, punctuation, and spaces appearing at the beginning of a title that should be ignored for indexing of titles). Use <title> for the core title of the resource. Drop any separating colons and use <subTitle> for subtitle, if necessary. For objects without a title, supply one by following the rules in DACS or other appropriate standards including basic information of who, what, when, and where. Version 3.4 introduced a new optional attribute, “supplied,” to indicate if a data value was supplied by the cataloger (as opposed to transcribed from the source material). Because of cost involved and risk of inconsistent use, we will not be using this attribute.

Uniform Titles: Name/Title authorities should be entered under <titleInfo type=“uniform”> with the “authority” attribute set to “naf” or “local”. The complete name and title string should be entered in the <title> element. (The nameTitleGroup attribute was introduced in version 3.4 to address linking names and titles as name/title authorities, but our workflow does not accommodate the prescribed usage, nor does this internal linking mechanism support any desired local search and display functionality.) When the LCNAF name/title authorities become available as URIs, those values (or VIAF URIs) may be included in the “valueURI” attribute.

Attributes	UA Usage	Values
authority	required if type=“uniform”	naf local
type	required if not title proper	abbreviated translated alternative uniform
displayLabel	required if type=“alternative”	Other Title Cover Title First Line of Text First Line of Chorus Masthead Title Special Issue Title from Plate Caption Title
authorityURI	not yet in use	[uri]
valueURI	not yet in use	[uri]
nameTitleGroup	not used	N/A

Subelements	UA Usage	Controlled	Repeatable
nonSort	required if applicable	no	no
title	required	no	yes
subTitle	required if applicable	no	yes
partName	required if applicable	no	yes
partNumber	required if applicable	no	yes

Subelements of <titleInfo>

<nonSort>

Obligation:	Required, if applicable
Controlled:	No
Repeatable:	No

Definition

<http://www.loc.gov/standards/mods//userguide/titleinfo.html#nonsort>

Usage Guidelines

The <nonSort> element contains characters, including initial articles, punctuation, and spaces appearing at the beginning of a title that should be ignored for indexing of titles. It should precede the <title> element when used. If there is a space after the initial article, include it in the field value, (ex. <nonsort>The </nonsort>). If using <nonsort> do not include the value in the <title> element.

<title>

Obligation:	Required
Controlled:	No
Repeatable:	Yes

Definition

<http://www.loc.gov/standards/mods//userguide/titleinfo.html#title>

Usage Guidelines

Include in <title> the core title of the resource. This element includes all parts of a title not covered by other sub-elements of <titleInfo>.

<subTitle>

Obligation:	Required if applicable
Controlled:	No
Repeatable:	Yes

Definition

<http://www.loc.gov/standards/mods//userguide/titleinfo.html#subtitle>

Usage Guidelines

Include in <subTitle> the part of a title deemed secondary to the core portion. When using the <subTitle> element, do not include punctuation at the end of the <title> element intended to delineate the title from the subtitle (eg. “:”).

<partName>

Obligation:	Required if applicable
Controlled:	No
Repeatable:	Yes

Definition

<http://www.loc.gov/standards/mods//userguide/titleinfo.html#partname>

Usage Guidelines

Use <partName> for a part or section name of a title, for example, a chapter title or a movement of a musical work.

<partNumber>

Obligation:	Required if applicable
Controlled:	No
Repeatable:	Yes

Definition

<http://www.loc.gov/standards/mods//userguide/titleinfo.html#partnumber>

Usage Guidelines

Use <partNumber> for a part or section of a title, for example, a chapter number or a movement of a musical work.

Subelements	UA Usage	Controlled	Repeatable
namePart	required	yes	yes
role	required	yes	yes

Subelements of <name>

<namePart>

Obligation:	Required
Controlled:	Yes
Repeatable:	Yes

Definition

<http://www.loc.gov/standards/mods//userguide/name.html#namepart>

Usage Guidelines

Construct names in one <namePart> according to AACR2 rules (Chapters 22 and 24). If using a name from LCNAF, include the date or terms of address in separate <namePart> elements with “type” attribute set to “date” or “termsOfAddress,” respectively. Do not include the separating comma between name and date or terms of address. For LCNAF corporate names, include any subordinate units in the same <namePart> element as the main string (ex., <namePart>United States. Congress</namePart>).

Attributes	Usage	Values
type	required if namePart is a date or term of address	date termsOfAddress

<role>

Obligation:	Required
Controlled:	Yes
Repeatable:	Yes

Definition

<http://www.loc.gov/standards/mods//userguide/name.html#role>

Usage Guidelines

For each role include both the coded (if available) and textual role terms in separate <roleTerm> elements within one <role> element for each role. Include additional roles in separate <role> elements within the <name> element.

Subelements	UA Usage	Controlled	Repeatable
roleTerm	required	yes	yes

<roleTerm>

Obligation: Required
Controlled: Yes
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/name.html#roleterm>

Usage Guidelines

Select one <roleTerm> code and one term from MARC Relator and Role Terms list (<http://www.loc.gov/marc/relators/>), if possible. Use type "code" for MARC relator code and "text" for text. Both the coded and textual forms of the same role can be recorded in separate <roleTerm> elements within a single <role> wrapper. If the role is not available from the MARC list, use a term from or add to the local list. Include only the textual term and use authority "local."

Attributes	Usage	Values
authority	required	marcrelator local
type	required	code text

<typeOfResource>

Obligation: Required
Controlled: Yes
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/typeofresource.html>

Usage Guidelines

Select at least one <typeOfResource> element from the enumerated list at:

<http://www.loc.gov/standards/mods//userguide/typeofresource.html> to describe the original content type.

Attributes	Usage	Values
collection	required if applicable	yes

<genre>

Obligation: Required
Controlled: Yes
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/genre.html>

Usage Guidelines

The <genre> element should be used to characterize the content of the digital resource (e.g., “letters (correspondence)”) rather than the digital resource itself (e.g., “text”). Choose applicable genre terms from the Getty Art and Architecture Thesaurus (AAT) (http://www.getty.edu/research/conducting_research/vocabularies/aat/) for cultural heritage materials, from LCSH for musical works, and from local controlled vocabulary for scholarly works. In certain cases, genre terms from other vocabularies may be selected (in addition to at least one genre term from the above-mentioned mandatory vocabularies) under the guidance of a metadata librarian.

Attributes	Usage	Values
authority	required	aat local lcsch

<originInfo>

Obligation: Required
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/origininfo.html>

Usage Guidelines

Include at least one <originInfo> element with at least one date subelement. To record the sender and recipient locations for correspondence, include the sender location in a <place> element within the primary <originInfo> element, and use the @displayLabel="Sender Location" attribute. Record the recipient location in a <place> element within an additional <originInfo> element with the @displayLabel="Recipient Location" attribute.

Use <dateCreated> for most unpublished materials and <dateIssued> for most published materials. <place> and <publisher> are strongly recommended, if readily available. Version 3.4 introduced a new optional attribute, "supplied," for <place>, <publisher>, and <edition>, to indicate if a data value was supplied by the cataloger (as opposed to transcribed from the source material). Because of cost involved and risk of inconsistent use, we will not be using this attribute.

Attributes	UA Usage	Values
displayLabel	required if applicable	Sender Location Recipient Location

Subelements	UA Usage	Controlled	Repeatable
place	recommended	no	yes
publisher	recommended	no	no
dateCreated	required if applicable	no	yes
dateIssued	required if applicable	no	yes
dateOther	required if applicable	no	yes
edition	recommended	no	yes

Subelements of <originInfo>

<place>

Obligation: Recommended
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/origininfo.html#place>

Usage Guidelines

Record in <place> and <placeTerm> place names associated with the creation or issuance of a resource, if readily available, following AACR2 descriptive standards for published materials (Chapter 1.4), including place of origin, if known, for unpublished resources. Also include in <place><placeTerm>: performance location for performances, and recipient and sender location for correspondence, using the Getty Thesaurus for Geographic Names (TGN).

Subelements	UA Usage	Controlled	Repeatable
placeTerm	required	no	yes

<placeTerm>

Obligation: Required
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/origininfo.html#placeterm>

Usage Guidelines

Record at minimum one <placeTerm> with “type” attribute set to “text.” If using <placeTerm> with “type” attribute set to “code,” select a value from the MARC Code List for Countries: http://www.loc.gov/marc/countries/countries_code.html

Attributes	Usage	Values
authority	required if type="code" or if using TGN	marccountry iso3166 tgn
type	required	code text

<publisher>

Obligation: Recommended
Controlled: No
Repeatable: No

Definition

<http://www.loc.gov/standards/mods//userguide/origininfo.html#publisher>

Usage Guidelines

Transcribe publisher name according to AACR2 (Chapter 1.4), if readily available. Include publisher location information in <place> rather than in <publisher>. Information about an institution responsible for digitizing and delivering online a previously published resource should be included in <note>, rather than <originInfo><publisher>.

<dateCreated>

<dateIssued>

<dateOther>

- Obligation: At least one required
- Controlled: No
- Repeatable: Yes

Definition

<dateCreated>-- <http://www.loc.gov/standards/mods//userguide/origininfo.html#datecreated>

<dateIssued> -- <http://www.loc.gov/standards/mods//userguide/origininfo.html#dateissued>

<dateOther> -- <http://www.loc.gov/standards/mods//userguide/origininfo.html#dateother>

Usage Guidelines

Use <dateCreated> for unpublished materials. For published materials, use <dateIssued>. For other dates such as performance date, use <dateOther> with the attribute "type" to describe the type of date. (Consult a metadata librarian if the type of date desired is not listed below as a value.) Encode date in w3cdtf format (yyyy-mm-dd). Do not insert characters such as "ca.", brackets or a question mark as part of the date string if date is unknown. Instead, use an appropriate qualifier attribute from the list of qualifier values. (Legacy practice uses a semicolon-delimited list of every year in a decade to represent approximate date created.) Use the format outlined by DLF, using "point" attribute with values "start" and "end" if necessary and qualifier attribute. Mark one and only one date (w3cdtf encoded) as a key date using keyDate="yes" attribute. If the date expressed is a range, mark the date with the starting point as keyDate="yes".

Attributes	Usage	Values
encoding	at least one date (the keyDate) must be encoded	w3cdtf
keyDate	required for one and only one date instance	yes
point	required for date ranges	start end
qualifier	used for questionable or approximate dates	approximate inferred questionable
type	only used for dateOther	performanceDate

<edition>

Obligation: Recommended
 Controlled: No
 Repeatable: No

Definition

<http://www.loc.gov/standards/mods//userguide/origininfo.html#edition>

Usage Guidelines

Transcribe edition using standard abbreviations according to AACR2 (Appendixes B and C), if information is readily available.

<language>

Obligation: Required if applicable
 Controlled: Yes
 Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/language.html>

Usage Guidelines

Record language as directed below in <languageTerm> for all resources in which language is primary to understanding the resource.

Subelements	UA Usage	Controlled	Repeatable
languageTerm	required	yes	yes

Subelements of <language>

<languageTerm>

Obligation: Required
Controlled: Yes
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/language.html#languageterm>

Usage Guidelines

Record each language represented as a pair of <languageTerm> elements, one textual and one coded, wrapped in a single <language> element. Use the form of the language found in the MARC Code List for Languages: <http://www.loc.gov/marc/languages/>

In most cases materials will be in English:

```
<language>
```

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

```
<languageTerm type="text">English</languageTerm>
```

```
</language>
```

Attributes	Usage	Values
authority	required if using type="code"	iso639-2b
type	required	code text

<physicalDescription>

Obligation: Required
Controlled: No
Repeatable: No

Definition

<http://www.loc.gov/standards/mods//userguide/physicaldescription.html>

Usage Guidelines

<digitalOrigin> and <internetMediaType> are required. <extent> should be used if available, and <note> may be used, if applicable. Version 3.4 introduced a new optional attribute, “supplied,” for <extent>, to indicate if a data value was supplied by the cataloger (as opposed to transcribed from the source material). Because of cost involved and risk of inconsistent use, we will not be using this attribute.

Subelements	UA Usage	Controlled	Repeatable
form	required	yes	yes
internetMediaType	required	yes	yes
extent	optional	no	yes
digitalOrigin	required	yes	no
note	optional	no	yes

Subelements of <physicalDescription>

<form>

Obligation: Required
Controlled: Yes
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/physicaldescription.html#form>

Usage Guidelines

Include at minimum one <form> element with “authority” attribute value “marcform” and element value “electronic”. We are not yet using this element on a regular basis for other purposes. Please consult a metadata librarian before using this element for describing the analog form.

Attributes	Usage	Values
authority	required	marcform local
type	optional	material

<internetMediaType>

Obligation: Required
Controlled: Yes
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/physicaldescription.html#internetmediatype>

Usage Guidelines

Include at minimum one <internetMediaType> from the MIME Media Types list that describes the filetype of the online delivery file (<http://www.iana.org/assignments/media-types/index.html>) in the format "[type]/[subtype]" (ex. "text/pdf"). If the resource comprises multiple file types, use a separate <internetMediaType> element for each.

<extent>

Obligation: Optional
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/physicaldescription.html#extent>

Usage Guidelines

Use if available to describe the physical extent. See DACS 2.5 or AACR2 (Chapter 1.5) for guidelines on formatting values. Include the number and specific material of the units described (ex., 62 p.)

<digitalOrigin>

Obligation: Required
Controlled: Yes
Repeatable: No

Definition

<http://www.loc.gov/standards/mods//userguide/physicaldescription.html#digitalorigin>

Usage Guidelines

Using controlled values defined in the MODS schema, record in <digitalOrigin> the method by which a resource achieved digital form. In most cases this value will be "reformatted digital" or "born digital".

<note>

Obligation: Optional
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/physicaldescription.html#note>

Usage Guidelines

If using this element a "type" attribute is required. (Select from the local controlled list, Appendix 2). A separate <note> element should be used for each distinct note. Some uses of this element may include describing supplemental material for ETDs (type="content" displayLabel="Supplementary Materials") or physical condition of the material digitized (type="condition" displayLabel="Physical Condition").

Attributes	Usage	Values
type	required, select from local controlled list	see list in Appendix 2

<abstract>

Obligation: Optional
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/abstract.html>

Usage Guidelines

Mandatory for all collection-level records. Recommended for item-level records when appropriate. Not necessary when a title serves as an adequate summary of the content. Use displayLabel for alternate label display in Acumen.

Attributes	Usage	Values
displayLabel	optional	Abstract Description Summary

<tableOfContents>

Obligation: Optional
Controlled: No
Repeatable: No

Definition

<http://www.loc.gov/standards/mods//userguide/tableofcontents.html>

Usage Guidelines

Include in <tableOfContents> a list or description of contents, as necessary. If more structured information is needed (for example, for songs on an audio recording with distinct tracks), use <relatedItem> with the type="constituent" attribute instead.

Attributes	Usage	Values
displayLabel	optional	

<note>

Obligation: Optional
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/note.html>

Usage Guidelines

Use <note> for information that cannot be encoded in another, more specific MODS element. If using this element a "type" attribute is required. (Select from the local controlled list, Appendix 2). Use attribute "displayLabel" if necessary to provide an alternate label for local (Acumen) display of this note.

Attributes	Usage	Values
displayLabel	recommended	[see Appendix 2]
type	required, select from local controlled list	[see Appendix 2]

<subject>

Obligation: Optional
Controlled: Yes
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/subject.html>

Usage Guidelines

Legacy practice was to enter entire LCSH subject strings into <subject><topic>. Current practice includes use of <topic>, <geographic>, <temporal>, <titleInfo>, <name>, <genre>, and <occupation> subelements. Always use authority attribute if using terms from a controlled list. If not using a controlled list (ex., author-supplied keywords for ETDs), omit the authority attribute rather than use the value "local". Repeat distinct subjects in separate <subject> fields. If you wish to indicate the source of certain keywords (e.g., user-tagging), consider using displayLabel for this refinement.

CDM to MODS mapping

Subject(s) (dc:subject)	<subject authority="lcsch"><topic>
-------------------------	------------------------------------

Attributes	Usage	Values
authority	required if applicable	lcsch prqst local tgn

Subelements	UA Usage	Controlled	Repeatable
topic	optional	if applicable	yes
geographic	optional	if applicable	yes
temporal	optional	if applicable	yes
titleInfo	optional	yes	yes
name	optional	yes	yes
genre	optional	yes	yes
cartographics	optional	no	yes
occupation	optional	yes	yes

Subelements of <subject>

<topic>

Obligation: Optional
Controlled: If applicable
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/subject.html#topic>

Usage Guidelines

Use <topic> to record topical subject headings, controlled or uncontrolled.

<geographic>

Obligation: Optional
Controlled: If applicable
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/subject.html#geographic>

Usage Guidelines

Use this subelement for LCSH geographic subject terms. Use <hierarchicalGeographic> if encoding a geographic subject that is not part of a structured subject heading. If the geographic name is part of a corporate body (for example, United States. Senate), it is coded as <name>, not <geographic>. If a controlled subject term is used, indicate authority using the authority attribute at the <subject> level.

--	--

<temporal>

Obligation: Optional
Controlled: If applicable
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/subject.html#temporal>

Usage Guidelines

Use <temporal> to express a temporal subject term that is part of a structured subject heading.

<titleInfo>

Obligation: Optional
Controlled: If applicable
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/subject.html#titleinfo>

Usage Guidelines

Use <titleInfo> to express a title subject term that is part of a structured subject heading. Follow top-level <titleInfo> element usage guidelines.

<name>

Obligation: Optional
Controlled: If applicable
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/subject.html#name>

Usage Guidelines

Use <name> to express a name subject term that is part of a structured subject heading. Follow top-level <name> element usage guidelines.

<genre>

Obligation: Optional
Controlled: If applicable
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods/userguide/subject.html#genre>

Usage Guidelines

Use <genre> to express a genre term that is part of a structured subject heading. <genre> as a child of <subject> is used primarily for mapping LCSH form subdivisions. If describing the genre of the resource as a whole, use instead the top-level <genre> element.

<cartographics>

Obligation: Optional
Controlled: no
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods/userguide/subject.html#cartographics>

Usage Guidelines

Not currently used.

Subelements	UA Usage	Controlled	Repeatable
coordinates	required	no	yes

<occupation>

Obligation: Optional
Controlled: If applicable
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/subject.html#occupation>

Usage Guidelines

Use <occupation> within <subject authority="lcsch"> to express an occupation subject term that is part of a structured subject heading.

<classification>

Obligation: Optional
Controlled: Yes
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/classification.html>

Usage Guidelines

Use only if physical object being represented has already been assigned an LC call number. Enter only the LC classification number up to, but not including, the main entry Cutter number.

Attributes	Usage	Values
authority	required	lcc

<relatedItem>

Obligation: Required
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/relateditem.html>

Usage Guidelines

Current local use of <relatedItem> involves the following cases. As any MODS element may appear as a subelement, follow the top-level element guidelines for use:

Host Repository – Use <relatedItem> with “type” attribute value “host” and “displayLabel” attribute value “Repository” to record the online repository an item belongs to. Use <titleInfo> to record the name of the repository (in most cases this will be “The University of Alabama Libraries Digital Collections”).

Host Collection – Use <relatedItem> with “type” attribute value “host” and “displayLabel” attribute value “Digital Collection” to record the digital collection an item belongs to. Use <titleInfo> to record the name of the collection and use <identifier type=”local”> for the collection identifier. If a purl exists for the collection, include it in <identifier type=”uri”> and <location><url access=”object in context”>. Use an additional host collection <relatedItem> element with “displayLabel” attribute value “Virtual Collection” for items to be aggregated in a virtual collection, such as the ASERL “Intellectual Underpinnings of the American Civil War” collection. Within virtual collection <relatedItem> elements, record, at a minimum, <titleInfo>. <location><url> and <identifier type=”uri”> are also strongly recommended.

Constituent Part – Use <relatedItem> with “type” attribute value “constituent” to describe constituent parts of the resource that warrant separate description, for example, movements of a musical work. Record <titleInfo> and <identifier type=”local”> at the minimum, but include as much additional descriptive information as seems appropriate.

Series – Use <relatedItem> with “type” attribute value “series” to describe a series of which the resource is a part. Record <titleInfo> at the minimum but include as much additional descriptive information as seems appropriate.

Use, at minimum, one <relatedItem> element of type “host” with displayLabel “Repository” and one <relatedItem> element type “host” with displayLabel “Digital Collection”.

Attributes	Usage	Values
displayLabel	required if type=”host”	Repository Digital Collection Virtual Collection
type	required	host constituent series

<identifier>

Obligation: Required
Controlled: no
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/identifier.html>

Usage Guidelines

At the minimum, include one <identifier type="local"> for the local item identifier (without the file extension, ex. u0015_0000001_0000001). Include the local collection identifier under <relatedItem type="host" displayLabel="Digital Collection">, (ex., u0015_0000001). Once a purl is created for the item, include it in <identifier type="uri"> in addition to its place in <location><url>. Include any additional identifiers as needed using type values from the controlled identifier type list. (If type value is not available in type list, consult a metadata librarian.)

Attributes	Usage	Values
type	required	local uri proqst plateNumber publisherNumber callNumber isbn
displayLabel	recommended	Music Plate Number Publisher Number Call Number ISBN

<location>

Obligation: Required
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/location.html>

Usage Guidelines

For all items, include at the minimum, <location><url access="object in context" usage="primary display"> with the purl for the item. <location><physicalLocation> should also be used for location of analog items with type and displayLabel attribute values chosen from a controlled list (see <physicalLocation>).

Subelements	UA Usage	Controlled	Repeatable
physicalLocation	required if applicable	no	yes
shelfLocator	required if applicable	no	no
url	required	no	yes

Subelements of <location>

<physicalLocation>

Obligation: Required if applicable
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/location.html#physicallocation>

Usage Guidelines

For all items with an analog source, the following location identifiers are required to represent the host analog collection and repository:

<physicalLocation type="collection" displayLabel="Repository" >

<physicalLocation type="collection" displayLabel="Repository Collection">

Use additional types for more granular levels of location. Number formats for each type should be consistent across all collections to facilitate machine readability:

<physicalLocation type="collectionNumber" displayLabel="Collection Number">

<physicalLocation type="albumNumber" displayLabel="Album Number">

<physicalLocation type="boxNumber" displayLabel="Box Number">

<physicalLocation type="folderNumber" displayLabel="Folder Number">

<physicalLocation type="photographNumber" displayLabel="Photograph Number">

Attributes	Usage	Values
displayLabel	recommended	Repository Repository Collection Album Number Box Number Folder Number Photograph Number Volume Number Frame Number
type	required	collection collectionNumber albumNumber boxNumber folderNumber photographNumber volumeNumber frameNumber
xlink:href	optional, for use with Repository Collection only	[purl of the online finding aid in Acumen]

<shelfLocator>

Obligation: Required, if applicable
 Controlled: No
 Repeatable: No

Definition

<http://www.loc.gov/standards/mods/userguide/location.html#shelflocator>

Usage Guidelines

If applicable, enter the call number of the item.

<url>

Obligation: Required
 Controlled: No
 Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/location.html#url>

Usage Guidelines

For all items, include <location><url access="object in context" usage="primary"> with the purl for the item.

Attributes	Usage	Values
access	required	object in context
usage	required for one and only one instance per item	primary

<accessCondition>

Obligation: Recommended
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/accesscondition.html>

Usage Guidelines

Include one <accessCondition type="useAndReproduction" displayLabel="Copyright"> for rights information (ex. "All rights reserved by the author unless otherwise indicated." for ETDs) and <accessCondition type="useAndReproduction" displayLabel="Terms"> for terms of use, as necessary.

CDM to MODS mapping	
Rights (dc:rights)	<accessCondition type="useAndReproduction" displayLabel="Copyright">
Terms (dc:terms)	<accessCondition type="useAndReproduction" displayLabel="Terms">

Attributes	Usage	Values
displayLabel	required	Copyright Terms
type	required	useAndReproduction restrictionOnAccess

<part>

Obligation:	Required if applicable
Controlled:	No
Repeatable:	Yes

Definition

<http://www.loc.gov/standards/mods/userguide/part.html>

Usage Guidelines

<part> should be used at the top level to describe a physical or structural part of a resource, such as an issue of a newspaper or magazine, or a volume in a series. Use <detail> and <date> as appropriate to describe the relation of the physical part to the larger resource.

Example (an issue of Rammer-jammer):

```
<titleInfo>
  <title>Rammer-Jammer</title>
</titleInfo>
<part>
  <detail type="volume">
    <number>25</number>
  </detail>
  <detail type="issue">
    <number>1</number>
  </detail>
  <detail type="issueTitle">
    <title>Frosh issue</title>
  </detail>
  <date>October 1949</date>
</part>
<relatedItem type="series" displayLabel="Publication">
  <titleInfo>
    <title>Rammer-Jammer</title>
  </titleInfo>
</relatedItem>
```

To describe an intellectual entity that is part of a larger work, such as an article in a journal or a short story in an anthology, use <relatedItem type="host"><part> to show the location of the part within that host item. Use <detail> and <date> as appropriate to describe the type and numbering of the part in relation to the whole. Use <extent> to indicate the extent of measured units (such as pages or minutes) of the part within the whole.

Example (an article in a book):

```
<titleInfo>
  <nonSort>The </nonSort>
  <title>continuum of metadata quality</title>
  <subTitle>defining, expressing, exploiting</subTitle>
```

```

</titleInfo>
<relatedItem type="host" displayLabel="Resource">
  <titleInfo>
    <title>Metadata in practice</title>
  </titleInfo>
  <part>
    <detail type="chapter">
      <number>15</number>
    </detail>
    <extent unit="pages">
      <start>238</start>
      <end>256</end>
    </extent>
  </part>
</relatedItem>

```

Attributes	Usage	Values
type	not currently used	
displayLabel	not currently used	

Subelements	UA Usage	Controlled	Repeatable
detail	required if applicable	no	yes
date	required if applicable	no	yes
extent	not currently used	no	yes

Subelements of <part>

<detail>

Obligation: Required if applicable
 Controlled: No
 Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods/userguide/part.html#detail>

Usage Guidelines

Use <detail> to describe numbering or other details, such as issue title, that are relevant to the identity of the part. Use the “type” attribute to denote the type of detail, (ex. volume, issue, etc.). Enclose a numeric detail within a <number> subelement and a title detail within a <title> subelement. Do not include labels, such as “Vol.” or “No.”

Attributes	Usage	Values
type	required	volume issue issueTitle

Subelements	UA Usage	Controlled	Repeatable
number	required if applicable	no	no
title	required if applicable	no	no

<date>

Obligation: Recommended
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods/userguide/part.html#date>

Usage Guidelines

Use <date> to indicate a date that is relevant to the identity of the part. This element will be primarily used in title display. The DLF/Aquifer guidelines recommend using w3cdf date encoding for this element, but since we are already recording an encoded date in <dateIssued>, record the date as it should be displayed, (ex. "Winter 1956", "April 1948", "March 4, 1895").

<extent>

Obligation: Required if applicable
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods/userguide/part.html#extent>

Usage Guidelines

Not currently used. When describing an intellectual entity that is part of a larger work (such as an article in a journal), use <extent> to indicate the extent of measured units (such as pages or minutes) of the part within the whole.

Attributes	Usage	Values
unit	required	pages

Subelements	UA Usage	Controlled	Repeatable
start	required if applicable	no	no
end	required if applicable	no	no

<extension>

Obligation: Optional
Controlled: No
Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/extension.html>

Usage Guidelines

Currently only used for ETDs. Include any extension schema namespaces in the main <mods> namespace declaration.

<recordInfo>

Obligation: Required
Controlled: No
Repeatable: No

Definition

<http://www.loc.gov/standards/mods//userguide/recordinfo.html>

Usage Guidelines

See subelement usage guidelines.

Subelements	UA Usage	Controlled	Repeatable
recordContentSource	required	yes	no
recordCreationDate	required	no	no
recordChangeDate	required on modification of record	no	no
recordOrigin	recommended	no	yes
languageOfCataloging	required	yes	no

Subelements of <recordInfo>

<recordContentSource>

Obligation: Required
Controlled: Yes
Repeatable: No

Definition

<http://www.loc.gov/standards/mods//userguide/recordinfo.html#recordcontentsource>

Usage Guidelines

For all records, use <recordContentSource authority="oclcorg">ALM</recordContentSource>

Attributes	Usage	Values
authority	required	oclcorg

<recordCreationDate>

Obligation: Required
Controlled: No
Repeatable: No

<recordChangeDate>

Obligation: Required if applicable
Controlled: No
Repeatable: No

Definition

<recordCreationDate>--

<http://www.loc.gov/standards/mods//userguide/recordinfo.html#recordcreationdate>

<recordChangeDate>--

<http://www.loc.gov/standards/mods//userguide/recordinfo.html#recordchangedate>

Usage Guidelines

Use encoding "w3cdtf" and YYYY-MM-DD for date record created or modified. This should be automatically generated by the template or stylesheet used to create the XML record.

Attributes	Usage	Values
encoding	required	w3cdtf

<recordOrigin>

Obligation: Recommended

Controlled: No

Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/recordinfo.html#recordorigin>

Usage Guidelines

Use this element to indicate the source metadata used and what template or XSLT was used to create the MODS record. (ex. "Record has been transformed to MODS from a ProQuest/UMI XML record using a locally created stylesheet.")

<languageOfCataloging>

Obligation: Required

Controlled: No

Repeatable: No

<languageTerm>

Obligation: Required

Controlled: Yes

Repeatable: Yes

Definition

<http://www.loc.gov/standards/mods//userguide/recordinfo.html#languageofcataloging>

Usage Guidelines

Enter the language of cataloging in two separate <languageTerm> subelements, one for code and one for text, within one <languageOfCataloging> element as follows:

```
<languageOfCataloging>  
  <languageTerm type="code" authority="iso639-2b">eng</languageTerm>  
  <languageTerm type="text">English</languageTerm>  
</languageOfCataloging>
```

Appendix 1: CONTENTdm to MODS Mapping

CONTENTdm/Dublin Core	MODS
Title (dc:title)	<titleInfo><title>
Other Title (dc: Title-Alternative)	<titleInfo type="alternative"><title>
Cover Title (dc: Title-Alternative)	<titleInfo type="alternative"><title>
First Line of Text (dc: Title-Alternative)	<titleInfo type="alternative"><title>
First Line of Chorus (dc: Title-Alternative)	<titleInfo type="alternative"><title>
Masthead Title (dc: Title-Alternative)	<titleInfo type="alternative"><title>
Title from Plate (dc: Title-Alternative)	<titleInfo type="alternative"><title>
Creator(s) (dc:creator)	<name type="personal"> with role "Creator"
Arranger(s) (dc:creator)	<name type="personal"> with role "Arranger"
Authors(s) (dc:creator)	<name type="personal"> with role "Author"
Composer(s) (dc:creator)	<name type="personal"> with role "Composer"
Conductor(s) (dc:creator)	<name type="personal"> with role "Conductor"
Diarist(s) (dc:creator)	<name type="personal"> with role "Author"
Etcher(s) (dc:creator)	<name type="personal"> with role "Etcher"
Instrumentalist(s) (dc:creator)	<name type="personal"> with role "Instrumentalist"
Interviewee(s) (dc:creator)	<name type="personal"> with role "Interviewee"
Lyricist(s) (dc:creator)	<name type="personal"> with role "Lyricist"
Photographer(s) (dc:creator)	<name type="personal"> with role "Photographer"
Sender(s) (dc:creator)	<name type="personal"> with role "Correspondent"
Vocalist(s) (dc:creator)	<name type="personal"> with role "Vocalist"
Contributor (dc:contributors)	<name type="personal"> with role "Contributor"
Editor(s) (dc:contributors)	<name type="personal"> with role "Editor"
Interviewer(s) (dc:contributors)	<name type="personal"> with role "Interviewer"
Performer(s) (dc:contributors)	<name type="personal"> with role "Performer"
Recipient(s) (dc:contributors)	<name type="personal"> with role "Recipient"
Donor(s) (dc:publisher)	<name type="personal"> with role "Donor"
Funder(s) (dc:publisher)	<name type="corporate"> with role "Funder"
Digital Publisher (dc:publisher)	<name type="corporate"> with role "Distributor"
Type(s)(dc:type) **legacy data uses DCMITV	<typeOfResource>
Genre(s) (dc:type) **legacy data uses bgtchm	<genre>
Performance Location (dc:coverage-spatial)	<place><placeTerm type="text">
Place of Publication (dc:coverage-spatial)	<place><placeTerm type="text">
Recipient Location (dc:coverage-spatial)	<place><placeTerm type="text">
Sender Location (dc:coverage-spatial)	<place><placeTerm type="text">
Publisher (dc:publisher)	<publisher>
Date(s) (dc:date)	<dateIssued> or <dateCreated>
Date of Photograph (dc:date)	<dateCreated>
Performance Date (dc:date)	<dateOther type="performanceDate">
Language(s) (dc:language)	<language><languageTerm type="code" authority="iso639-2b">
Format (dc:format)	<extent>
Abstract (dc:description-abstract) **applicable values must be mapped manually	<abstract>
Description (dc:description) **applicable values must be mapped manually	<abstract> **values from Description that are not appropriate for <abstract> should be mapped manually to the appropriate elements

CONTENTdm/Dublin Core	MODS
Abstract (dc:description-abstract) **applicable values must be mapped manually	<tableOfContents>
Funding Information (dc:description) **applicable values must be mapped manually	<note type="provenance" displayLabel="Provenance"> <note type="funding" displayLabel="Digitization Funding">
Subject(s) (dc:subject)	<subject authority="lcs" ><topic>
Location (dc:coverage-spatial)	<subject><geographic>
Call Number (dc:identifier)	<classification authority="lcc">
Published In (dc:relation-has version)	<relatedItem type="otherVersion">
Digital Collection (dc:relation-isPartOf)	<relatedItem type="host" displayLabel="Digital Collection">
Is Referenced By (dc:relation-isReferencedBy)	<relatedItem type="isReferencedBy">
Series Title	<relatedItem type="series">
Filename (dc: identifier)	<identifier type="local">
Plate Number (dc:identifier)	<identifier type="plateNumber" displayLabel="Music Plate Number">
Album Number (dc:identifier)	<physicalLocation type="albumNumber" displayLabel="Album Number">
Box Number (dc:identifier)	<physicalLocation type="boxNumber" displayLabel="Box Number">
Collection Number (dc:identifier)	<physicalLocation type="collectionNumber" displayLabel="Collection Number">
Folder Number (dc:identifier)	<physicalLocation type="folderNumber" displayLabel="Folder Number">
Photograph Number (dc:identifier)	<physicalLocation type="photographNumber" displayLabel="Photograph Number">
Repository (dc:relation-isPartOf)	<physicalLocation displayLabel="Repository" type="collection">
Repository Collection (dc:relation-isPartOf)	<physicalLocation displayLabel="Repository Collection" type="collection">
Rights (dc:rights)	<accessCondition type="useAndReproduction" displayLabel="Copyright">
Terms (dc:terms)	<accessCondition type="useAndReproduction" displayLabel="Terms">

Appendix 2: Local MODS <note> Types

This list contains note types currently in use. It is anticipated that this list will grow as the need arises. If the intended use is not listed, please consult with a metadata librarian who will evaluate the need for a new note type. If possible, new note types should be drawn from the MODS list of note types commonly used by implementers (<http://www.loc.gov/standards/mods/mods-notes.html>).

<note> is a free text field, so use an appropriate sentence structure and ending punctuation. For instance:

```
<note type="provenance" displayLabel="Provenance">Original letter made available by Calvin Brown.</note>
```

is more helpful to the user than:

```
<note>type="provenance" displayLabel="Provenance">Calvin Brown</note>
```

The "xlink:href" attribute may also be used to link to an external website with additional information, for example, the website of the funding organization.

type	displayLabel	use
condition	Physical Condition Note	Use under <physicalDescription> for information on the physical condition of the analog item.
content	Supplementary Materials	Additional information about the content of an item that is not appropriate in another, more specific MODS element. Currently used under <physicalDescription> to briefly describe supplementary materials for ETDs.
funding	Digitization Funding	Use to credit those individuals or organizations that funded the digitization of the collection or item.
logo	Digitization Funder Logo	Use as an empty element with the "xlink:href" attribute to include an actionable link to the digitization funder's logo.
provenance	Provenance	Use to credit the donor of the analog collection or item.
dedication	Dedication	Use to describe or transcribe a dedication of the item to an entity.

Appendix 3: Full Examples

Example 1: a typescript text of a speech.

```
<?xml version="1.0" encoding="UTF-8"?>
<mods xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://www.loc.gov/mods/v3" xmlns:xlink="http://www.w3.org/1999/xlink"
xsi:schemaLocation="http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods-3-
4.xsd" version="3.4">
  <titleInfo>
    <title>Destruction of the University of the State of Alabama</title>
  </titleInfo>
  <name type="personal" authority="local">
    <namePart>Birdsong, Tom S.</namePart>
    <role>
      <roleTerm authority="marcRelator" type="text">Author</roleTerm>
      <roleTerm authority="marcRelator" type="code">aut</roleTerm>
    </role>
  </name>
  <name type="corporate" authority="naf">
    <namePart>EBSCO Industries</namePart>
    <role>
      <roleTerm authority="marcRelator" type="text">Funder</roleTerm>
      <roleTerm authority="marcRelator" type="code">fnd</roleTerm>
    </role>
  </name>
  <name type="corporate" authority="local">
    <namePart> The University of Alabama Libraries (Tuscaloosa, Alabama)</namePart>
    <role>
      <roleTerm authority="marcRelator" type="text">Distributor</roleTerm>
      <roleTerm authority="marcRelator" type="code">dst</roleTerm>
    </role>
  </name>
  <typeOfResource>text</typeOfResource>
  <genre authority="aat">manuscripts (document genre)</genre>
  <genre authority="aat">papers (document genre)</genre>
  <originInfo>
    <dateCreated encoding="w3cdtf" keyDate="yes">1975-04-25</dateCreated>
  </originInfo>
  <language>
    <languageTerm type="code" authority="iso639-2b">eng</languageTerm>
    <languageTerm type="text">English</languageTerm>
  </language>
  <physicalDescription>
    <form authority="marcform">electronic</form>
    <internetMediaType>image/jpeg</internetMediaType>
    <extent>14 p.</extent>
```

```

    <digitalOrigin>reformatted digital</digitalOrigin>
  </physicalDescription>
  <abstract displayLabel="Description">This paper was prepared for presentation to the Alabama
  Historical Association in 1975.</abstract>
  <note type="funding" displayLabel="Digitization Funding">The digitization of this collection was
  funded by a gift from Ebsco Industries.</note>
  <subject authority="lcsh">
    <name type="corporate" authority="naf">
      <namePart>University of Alabama</namePart>
    </name>
    <topic>History</topic>
    <temporal>Civil War, 1861-1865</temporal>
  </subject>
  <subject authority="lcsh">
    <topic>Wilson's Cavalry Raid, 1865</topic>
  </subject>
  <subject authority="lcsh">
    <name type="personal" authority="naf">
      <namePart>Wilson, James Harrison, 1837-1925</namePart>
    </name>
  </subject>
  <subject authority="lcsh">
    <name type="personal" authority="naf">
      <namePart>Croxtton, John Thomas</namePart>
      <namePart type="date">1837-1874</namePart>
    </name>
  </subject>
  <subject authority="lcsh">
    <geographic>United States</geographic>
    <topic>History</topic>
    <temporal>Civil War, 1861-1865</temporal>
  </subject>
  <subject authority="lcsh">
    <geographic>Tuscaloosa (Alabama)</geographic>
    <topic>History</topic>
    <temporal>Civil War, 1861-1865</temporal>
  </subject>
  <relatedItem type="host" displayLabel="Online Repository">
    <titleInfo>
      <nonSort>The </nonSort>
      <title>University of Alabama Libraries Digital Collections</title>
    </titleInfo>
  </relatedItem>
  <relatedItem displayLabel="Digital Collection" type="host">
    <titleInfo>
      <title>Tom S. Birdsong paper</title>
    </titleInfo>
    <identifier type="local">u0003_0000159</identifier>

```

```

<identifier type="uri">http://purl.lib.ua.edu/4071</identifier>
<location>
  <url access="object in context">http://purl.lib.ua.edu/4071</url>
</location>
</relatedItem>
<identifier type="local">u0003_0000159_0000001</identifier>
<identifier type="uri">http://purl.lib.ua.edu/4070</identifier>
<location>
  <physicalLocation type="collection" displayLabel="Repository">William Stanley Hoole Special
Collections Library</physicalLocation>
  <physicalLocation type="collection" displayLabel="Repository Collection"
xlink:href="http://purl.lib.ua.edu/">Tom S. Birdsong Paper</physicalLocation>
  <physicalLocation type="collectionNumber" displayLabel="Collection
Number">159</physicalLocation>
  <physicalLocation type="boxNumber" displayLabel="Box Number">2463</physicalLocation>
  <physicalLocation type="folderNumber" displayLabel="Folder Number">4</physicalLocation>
  <url access="object in context" usage="primary">http://purl.lib.ua.edu/4070</url>
</location>
<accessCondition type="useAndReproduction" displayLabel="Copyright">Collection may be
protected under Title 17 of the U.S. Copyright Law.</accessCondition>
<accessCondition type="useAndReproduction" displayLabel="Terms">To obtain permission to
publish or reproduce, please contact the W. S. Hoole Special Collections Library.</accessCondition>
<recordInfo>
  <recordContentSource authority="oclcorg">ALM</recordContentSource>
  <recordCreationDate encoding="w3cdtf">2009-10-29</recordCreationDate>
  <recordChangeDate encoding="w3cdtf">2010-03-05</recordChangeDate>
  <recordOrigin>Generated by Archivist Utility v0.2, (built: 9/16/2009)</recordOrigin>
  <recordOrigin>Data Source: u0003_0000159.txt row(1)</recordOrigin>
  <languageOfCataloging>
    <languageTerm type="code" authority="iso639-2b">eng</languageTerm>
    <languageTerm type="text">English</languageTerm>
  </languageOfCataloging>
</recordInfo>
</mods>

```

Example 2: *an electronic thesis (ETD).*

```

<?xml version="1.0" encoding="UTF-8"?>
<mods xmlns="http://www.loc.gov/mods/v3"
xmlns:etd="http://www.ndltd.org/standards/metadata/etdms/1.0/"
xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" version="3.4" xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-4.xsd">

```

```

<titleInfo>
  <title>Tomorrow is forever</title>
  <subTitle>examining narrative structure and cultural archetypes in three Mexican
telenovelas</subTitle>
</titleInfo>
<name type="personal" authority="local">
  <namePart>De Anda, Marissa Carolina</namePart>
  <role>
    <roleTerm authority="marcrelator" type="code">aut</roleTerm>
    <roleTerm authority="marcrelator" type="text">Author</roleTerm>
  </role>
</name>
<name type="personal" authority="local">
  <namePart>Butler, Jeremy G.</namePart>
  <role>
    <roleTerm authority="marcrelator" type="code">ths</roleTerm>
    <roleTerm authority="marcrelator" type="text">Thesis advisor</roleTerm>
  </role>
</name>
<name type="personal" authority="local">
  <namePart>Copeland, Gary A.</namePart>
  <role>
    <roleTerm authority="local" type="text">Committee member</roleTerm>
  </role>
</name>
<name type="personal" authority="local">
  <namePart>Black, Jason E.</namePart>
  <role>
    <roleTerm authority="local" type="text">Committee member</roleTerm>
  </role>
</name>
<name type="corporate" authority="lcnaf">
  <namePart>University of Alabama. Dept. of Telecommunication and Film</namePart>
  <role>
    <roleTerm authority="local" type="text">Department</roleTerm>
  </role>
</name>
<typeOfResource>text</typeOfResource>
<genre authority="local">Electronic Thesis or Dissertation</genre>
<genre authority="marcgt">thesis</genre>
<originInfo>
  <place>
    <placeTerm type="code" authority="marccountry">alu</placeTerm>
    <placeTerm type="text">Tuscaloosa, Ala.</placeTerm>
  </place>
  <publisher>University of Alabama Libraries</publisher>
  <dateIssued encoding="w3cdtf" keyDate="yes">2009</dateIssued>
</originInfo>

```

```

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  <languageTerm type="text">English</languageTerm>
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  <form authority="marcform">electronic</form>
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  <digitalOrigin>born digital</digitalOrigin>
  <extent>150 p.</extent>
  <note type="content">Includes supplementary still images of telenovela title
sequences.</note>
</physicalDescription>
  <abstract lang="eng" displayLabel="Abstract">Telenovelas are a staple of Mexican popular culture
and their narratives communicate discursive, ideological meanings stemming from the history and
myths of that culture. The current study provides an in-depth textual analysis of three Mexican
telenovelas currently airing on the US Spanish-language network, Univision: Las Tontas No Van al Cielo,
Cuidado con el Ángel, and Mañana Es Para Siempre. One week's worth of episodes, from Wednesday to
Wednesday, February 25-March 4, 2009, was analyzed. The purpose of this textual analysis is to
examine how narrative is constructed and what culturally specific elements are expressed and promoted
through the narrative elements, character archetypes, theme songs, and imagery of these telenovelas
and their opening credits. This study offers an understanding of the historical roots of the archetypes
seen in these telenovela as well as a framework for understanding their narrative structure. A
structuralist approach is used to facilitate analyzing both the narrative structure and character
archetypes. Ultimately, a framework was created to explain how specific narrative functions are used on
a daily basis to forestall the main couple's happiness until the very last episode. Examining the functions
in telenovelas reveals how, in many ways, the storylines are variations of similar plots with similar
character archetypes. This thesis also contributes to the small body of literature that exists in examining
and understanding how historical figures and gender roles are presented and promoted within
telenovelas. Telenovelas' elaborate title sequences are also analyzed to see how they express narrative
elements and specific cultural meanings in compressed form. Finally, the distinctive manner in which
title sequences promote the stars associated with the telenovelas is considered.</abstract>
  <subject authority="proqst">
    <topic>Mass Communications</topic>
  </subject>
  <subject authority="proqst">
    <topic>Anthropology, Cultural</topic>
  </subject>
  <subject authority="proqst">
    <topic>Women's Studies</topic>
  </subject>
  <subject>
    <topic>narrative structure</topic>
  </subject>
  <subject>
    <topic>semiotics</topic>
  </subject>
  <subject>
    <topic>soap opera</topic>

```

```

</subject>
<subject>
  <topic>structuralism</topic>
</subject>
<subject>
  <topic>Telenovelas</topic>
</subject>
<subject>
  <topic>television</topic>
</subject>
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  <titleInfo>
    <nonSort>The </nonSort>
    <title>University of Alabama Libraries Digital Collections</title>
  </titleInfo>
</relatedItem>
<relatedItem type="host" displayLabel="Digital Collection">
  <titleInfo>
    <nonSort>The </nonSort>
    <title>University of Alabama Electronic Theses and Dissertations</title>
  </titleInfo>
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  <identifier type="uri">http://purl.lib.ua.edu</identifier>
  <location>
    <url access="object in context">http://purl.lib.ua.edu</url>
  </location>
</relatedItem>
<identifier type="local">u0015_0000001_0000050</identifier>
<identifier type="proqst">DeAnda_alatus_0004M_10121</identifier>
<identifier type="uri">http://purl.lib.ua.edu/54</identifier>
<location>
  <url access="object in context" usage="primary ">http://purl.lib.ua.edu/54</url>
</location>
<accessCondition type="useAndReproduction" displayLabel="Copyright">All rights reserved by the
author unless otherwise indicated.</accessCondition>
<extension>
  <etd:degree>
    <etd:name>M.A.</etd:name>
  </etd:degree>
  <etd:discipline>Telecommunication and Film</etd:discipline>
</extension>
<recordInfo>
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  <recordCreationDate encoding="w3cdtf">2009-12-22</recordCreationDate>
  <recordChangeDate encoding="w3cdtf">2010-03-05</recordChangeDate>
  <recordOrigin>Record has been transformed into MODS from a ProQuest/UMI XML record using
a locally created stylesheet.</recordOrigin>
  <languageOfCataloging>

```

```

        <languageTerm type="code" authority="iso639-2b">eng</languageTerm>
        <languageTerm type="text">English</languageTerm>
    </languageOfCataloging>
</recordInfo>
</mods>

```

Example 3: *An issue of a magazine.*

```

<?xml version="1.0" encoding="UTF-8"?>
<mods xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://www.loc.gov/mods/v3" xsi:schemaLocation="http://www.loc.gov/mods/v3
http://www.loc.gov/standards/mods/v3/mods-3-4.xsd" version="3.4">
  <titleInfo>
    <title>Rammer-Jammer</title>
  </titleInfo>
  <titleInfo type="alternative" displayLabel="Cover Title">
    <title>Rammer Jammer Alabama</title>
  </titleInfo>
  <part>
    <detail type="volume">
      <number>15</number>
    </detail>
    <detail type="issue">
      <number>6</number>
    </detail>
    <detail type="issueTitle">
      <title>A day issue</title>
    </detail>
    <date>March 1940</date>
  </part>
  <name type="personal" authority="local">
    <namePart>Elmo, Israel</namePart>
    <role>
      <roleTerm authority="marcrelator" type="text">Editor</roleTerm>
      <roleTerm authority="marcrelator" type="code">edt</roleTerm>
    </role>
  </name>
  <name type="corporate" authority="naf">
    <namePart>University of Alabama</namePart>
    <role>
      <roleTerm authority="marcrelator" type="text">Contributor</roleTerm>
      <roleTerm authority="marcrelator" type="code">ctb</roleTerm>
    </role>
  </name>
  <name type="corporate" authority="local">
    <namePart>The University of Alabama Libraries (Tuscaloosa, Alabama)</namePart>
    <role>
      <roleTerm authority="marcrelator" type="text">Distributor</roleTerm>

```

```

        <roleTerm authority="marcrelator" type="code">dst</roleTerm>
    </role>
</name>
<name type="corporate" authority="local">
    <namePart>EBSCO Industries</namePart>
    <role>
        <roleTerm authority="marcrelator" type="text">Funder</roleTerm>
        <roleTerm authority="marcrelator" type="code">fnd</roleTerm>
    </role>
</name>
<typeOfResource>text</typeOfResource>
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<originInfo>
    <publisher>University, Alabama</publisher>
    <dateIssued encoding="w3cdtf" keyDate="yes">1940-03</dateIssued>
</originInfo>
<language>
    <languageTerm type="code" authority="iso639-2b">eng</languageTerm>
    <languageTerm type="text">English</languageTerm>
</language>
<physicalDescription>
    <form authority="marcform">electronic</form>
    <internetMediaType>image/jpeg</internetMediaType>
    <extent>1 volume (40 pp.) : illustrations</extent>
    <digitalOrigin>reformatted digital</digitalOrigin>
</physicalDescription>
<abstract></abstract>
<subject authority="tgn">
    <geographic>United States--Alabama--Tuscaloosa County--Tuscaloosa</geographic>
</subject>
<subject authority="lcsch">
    <topic>American wit and humor</topic>
    <genre>Periodicals</genre>
</subject>
<subject authority="lcsch">
    <topic>Universities and colleges</topic>
    <topic>Humor</topic>
    <genre>Periodicals</genre>
</subject>
<subject authority="lcsch">
    <name type="corporate" authority="naf">
        <namePart>University of Alabama</namePart>
    </name>
    <topic>Students</topic>
    <genre>Periodicals</genre>
</subject>
<identifier type="local">u0002_0000001_0000004</identifier>
<identifier type="uri">http://purl.lib.ua.edu/[purl]</identifier>

```



```

<location>
  <physicalLocation type="collection" displayLabel="Repository">William Stanley Hoole Special
Collections Library</physicalLocation>
  <physicalLocation type="collection" displayLabel="Repository Collection">Alabama
Collection</physicalLocation>
  <shelfLocator>LJ3. R34x</shelfLocator>
  <url access="object in context" usage="primary">http://purl.lib.ua.edu/[purl]</url>
</location>
  <accessCondition type="useAndReproduction" displayLabel="Copyright">Collection may be
protected under Title 17 of the U.S. Copyright Law.</accessCondition>
  <accessCondition type="useAndReproduction" displayLabel="Terms">To obtain permission to
publish or reproduce, please contact the W. S. Hoole Special Collections Library.</accessCondition>
  <relatedItem type="series" displayLabel="Publication">
    <titleInfo>
      <title>Rammer Jammer</title>
    </titleInfo>
  </relatedItem>
  <relatedItem type="host" displayLabel="Online Repository">
    <titleInfo>
      <nonSort>The </nonSort>
      <title>University of Alabama Libraries Digital Collections</title>
    </titleInfo>
  </relatedItem>
  <relatedItem type="host" displayLabel="Digital Collection">
    <titleInfo>
      <title>Rammer-Jammer</title>
    </titleInfo>
    <identifier type="local">u0002_0000001</identifier>
    <identifier type="uri">http://purl.lib.ua.edu/[purl]</identifier>
  </relatedItem>
</recordInfo>
  <recordContentSource authority="oclcorg">ALM</recordContentSource>
  <recordCreationDate encoding="w3cdtf">2010-10-20</recordCreationDate>
  <recordChangeDate encoding="w3cdtf">2011-08-24</recordChangeDate>
  <recordOrigin>Generated from source data u0003_0000328.3.m01.txt row(472) with Archivist
Utility template AU_to_RawMODS_m03.xml and refined with rawMODS2MODS.xsl.</recordOrigin>
  <languageOfCataloging>
    <languageTerm type="code" authority="iso639-2b">eng</languageTerm>
    <languageTerm type="text">English</languageTerm>
  </languageOfCataloging>
</recordInfo>
</mods>

```

Appendix 4: Data Dictionary Change Log

2010-11-22—version 1.1 – *Changes to accommodate adoption of version 3.4*

Introduction: Sources Consulted

- Changed version “3.3” to “3.4”
- Deleted sentence: “Efforts will be made to incorporate upcoming changes in versions 3.4 and 4.0 without drastic alterations to the best practices outlined here.”

<mods>

- Updated values of xsi:schemaLocation and version attribute to reflect change to version 3.4

<titleInfo>

- nameTitleGroup attribute added to usage guidelines and attribute table

<name>

- nameTitleGroup attribute added to usage guidelines and attribute table
- note about type attribute value “family” in usage guidelines

<location>

- change usage attribute value “primary display” to “primary” to reflect change in 3.4

Miscellaneous

- Added note about “supplied” attribute to <titleInfo>, <originInfo>, and <physicalDescription>

Appendix 3

- Updated examples to reflect 3.4 changes

2011-01-03

<relatedItem>

- Added @displayLabel value “Virtual Collection” and usage guidelines below “Host Collection”

2011-02-04

<physicalLocation>

- Added location types “Volume Number” and “Frame Number”

2011-05-13

Introduction: Sources Consulted

- Changed last few sentences about adherence to DLF guidelines.

<titleInfo>

<name>

- Changed usage guidelines for name/title authority treatment and use of “nameTitleGroup” attribute
- Added information on “authorityURI” and “valueURI” attributes

2011-08-01

<originInfo>

- Changed usage guidelines for sender and recipient locations. Old practice specified using two separate <place><placeTerm> elements, with sender location listed first. New guidelines specify for sender location to be included in primary <originInfo> element and recipient location in an additional <originInfo> element. displayLabel attributes (“Sender Location” and “Recipient Location”) are to be used as appropriate.

2012-01-06

<part>

- Added guidance for describing volumes and issues of serials/periodicals.
- Removed CDM to MODS mappings from element descriptions.
- Added an additional example.