# Consortium of Church Libraries and Archives Best Practices Guidelines for Encoded Archival Description (EAD), version 1.5.1 (CCLA BPG)

#### Introduction

The CCLA Best Practice Guidelines for Encoded Archival Description (EAD) must be followed when contributing finding aids to the CCLA finding aids database. Institutions should follow the current guidelines for all newly encoded finding aids.

These guidelines were prepared by the CCLA EAD Working Group during the winter of 2006, and were revised during 2010. The guidelines are adapted from the RLG Best Practice Guidelines for Encoded Archival Description (2002), the Northwest Digital Archive Best Practice Guidelines for EAD 2002 Version 3.1, and the Online Archive of California Best Practice Guidelines Version 2.0.

The purpose of the CCLA BPG EAD is to:

- ensure a common baseline of encoding for CCLA institutions
- promote cooperation between CCLA institutions
- · facilitate placing finding aids online
- enable users to more easily access descriptions of material held by CCLA institutions

#### Context

These guidelines are based on the EAD 2002 Schema for archival finding aids maintained by the Society of American Archivists (SAA). The CCLA BPG EAD supplements the EAD Tag Library and the EAD Application Guidelines, available from SAA, by defining a core set of practices for encoding a subset of EAD elements required or recommended for use in finding aids contributed to the CCLA finding aids database. Refer to these SAA publications for official definitions of EAD elements and attributes as well as examples of how to use various elements and attributes.

The guidelines are informed by the current U.S. data content standard for archival description <u>Describing Archives: a Content Standard</u> (DACS) and conform to the <u>General International Standard Archival Description</u> (ISAD(G)).

#### Multilevel description

Four fundamental rules of multilevel description guide the description of archival materials (see the "Statement of Principles" in DACS). These rules should serve as overarching guidelines for all archival descriptions submitted to the CCLA finding aids database:

- All archival description should be presented in a hierarchical whole-to-part relationship that proceeds from general description of the
  collection to more specific descriptions of parts of the collection.
- Give only information relevant to a particular hierarchical level. For example, do not provide an administrative history for an entire department if the creator of the materials being described is a division or branch
- Give information that is common to multiple parts of the collection at the highest appropriate level. Do not repeat information at a lower level of description that has already been given at a higher level.
- In order to make explicit the position of a particular level of description within the hierarchy, embed the description at each level within the description at its next higher level. Also, identify each level of description (i.e., give it a name, such as "Series 1").

An archival description can proceed through various levels and conclude at any level. The archivist will determine the organization of a finding aid for each collection based on information supplied by the creator or collector, appraisal information, or a physical survey of the materials themselves. Each CCLA institution's available resources and user needs will drive the level of detail of its finding aids. The models presented in the CCLA BPG EAD are based on the typical archival finding aid for personal papers or organizational records with description beginning at the collection level and then proceeding to component descriptions of series, subseries, files, and items. The guidelines also accommodate minimally processed and unprocessed collections; for details on component description of such collections, see Component-level Description of Minimally Processed/Unprocessed Collections.

## General Guidelines

## XML and EAD Encoding

EAD is expressed in XML, and all encoding must conform to XML encoding specifications. More information on XML is available on the World Wide Web Consortium (W3C) website. EAD uses an XML Schema that is maintained by the Library of Congress and SAA to enforce structural consistency in all EAD-tagged finding aids. The EAD Schema defines main *elements*, child elements, and *attributes* of elements. Some elements, such as <titlestmt> in the EAD header <eadheader>, serve exclusively or primarily as wrapper elements, containing more specific child elements (in this case, <author>, <subtitle>, <titleproper>) rather than actual content text. Attributes associated with an element generally qualify the element in some way. For example, in the <unitdate> element, the type attribute may qualify the date as "inclusive" or "bulk."

## **Terminology and Conventions Used**

- "Tag" refers to the XML markers that enclose an element's data value (i.e., <...> and </...>
- "Element" refers to an individual EAD datum, represented in markup by a start tag <...> and end tag </...>
- "Attribute" refers to named properties of an element that may have different values; attributes qualify elements. Attribute names are
  rendered in SMALL CAPITAL LETTERS throughout these guidelines. The relationship between an attribute name and the
  information (or "value") it contains is show by an equals sign =. Quotation marks surround the data value. (i.e. source="lcsh" where
  "source" is the attribute name and "lcsh" is the attribute value)
- "Encoding analog" refers to the suggested mapping of an EAD element to an equivalent element or field in another standard metadata schema, such as MARC 21 or Dublin Core. Each collection described in a finding aid in the CCLA finding aids database must be represented by a MARC record in a major bibliographic utility. For this reason information has been included in the top-level <archdesc> that indicate which elements may be mapped to MARC 21 fields. By default, however, fields are mapped to Dublin Core elements to facilitate aggregation using the <a href="Open Archives Initiative Preservation Metadata Harvesting">Open Archives Initiative Preservation Metadata Harvesting</a> (OAI-PMH) protocols.
- "Status" indicates whether an element (and certain of its accompanying attributes) is required or not. The following codes are used to represent element status
  - o Req=Required. This EAD tag is required at this level.
  - MA=Mandatory when applicable. This EAD tag is mandatory when the information is available or discernable at this level.
  - o Rec=Recommended. This EAD tag is strongly recommended in order to facilitate access to a collection.
  - o Opt=Optional. The EAD tag may be used if desired.

All finding aids contributed to the finding aids database made available by Brigham Young University must comply with guidelines for elements that are designated "Required" and "Mandatory when applicable."

#### **Order of Elements**

The EAD Schema requires that certain elements be encoded in a set sequence. The CCLA Best Practice Guidelines also present EAD elements in a preferred sequence for finding aids. While the CCLA preference is not prescriptive (another sequence may be used if it adheres to the EAD Schema), consistency in the ordering of the elements facilitates the review and formatting of finding aids for Web display.

#### **Recursion and Repeatability**

Many EAD elements may be used recursively (i.e., nested) as allowed by the EAD Tag Library. Nesting one type of element within a different type of element is also addressed by the EAD Tag Library (see the "May contain" section of each element description), but the CCLA has set several additional limits on such nesting. For example, the CCLA Best Practice Guidelines do not permit a <unittitle> element to contain a nested <unittate> element. All such limitations are stated in the "Status" column of the detailed element tables.

The repeatability of each element (i.e., whether more than one instance of an element may be used) is also stated in the "Status" column of the detailed element tables. In general, most elements in <archdesc> are not repeatable at the same level of description in CCLA BPG-compliant finding aids. When (paragraph) is allowed in an element, it may be repeated as often as necessary (e.g. within <br/>
ditional exceptions are noted in the element tables.

Within a given element, no attribute may be used more than once.

## Filing Titles

The filing title is a standardized formulation of the collection title that insures alphabetical sorting and consistent display within a finding aids repository. Because there is no formal element within EAD designated for this purpose, CCLA has adopted the practice of utilizing a second instance of the <titleproper> element in the EAD header to hold the filing title. See Table 1 under <titleproper> for details.

### **Dates**

For detailed information on recording and formatting dates, see <u>DACS</u> 2.4. Note in particular that CCLA requires that names of months and terms reflecting estimation (i.e., "circa") be spelled out rather than abbreviated. CCLA also recommends (but does not require) that the type of date be specified; this may be done through the DATECHAR attribute. Values that may be recorded in DATECHAR include "creation," "recordkeeping" (record-keeping activity), "publication," or "broadcast."

In addition to entering the appropriate date(s) as text in <unitdate> elements, all <unitdate> date elements *above* the <dsc> (Description of Subordinate Components) section of a finding aid must contain a NORMAL attribute for encoding normalized dates.

Dates that are normalized must comply with the International Organization for Standardization (ISO) 8601 standard, using the "Basic Format" of the W3C Date and Time Formats profile of this standard.

Examples:

Single Dates (DACS 2.4.13-2.4.15)

If the collection falls within a single year, use "inclusive" in the TYPE attribute and enter that year (or a more specific date if known) in the <unitdate> element. For exact dates, the format year-month-day is preferred but not required.

<unitdate type="inclusive" datechar="creation" era="ce" calendar="gregorian" normal="1944">1944</unitdate>

<unitdate type="inclusive" datechar="creation" era="ce" calendar="gregorian" normal="19370426">1937 April 26</unitdate>

**Date Ranges** (DACS 2.4.7-2.4.9)

In the NORMAL attribute (if used), state the date range in ISO 8601 date intervals format (separate the beginning and ending dates with a slash).

<unitdate type="inclusive" datechar="creation" era="ce" calendar="gregorian" normal="1959-11/1959-12">1956 November-December</unitdate>

<unitdate type="bulk" datechar="creation" era="ce" calendar="gregorian" normal="1910/1970">bulk 1910-1970</unitdate>

Broken Date Ranges (e.g., "1934, 1976-1979") (DACS 2.4.11)

Encode dates in separate <unitdate> tags.

<unitdate type="inclusive" datechar="creation" era="ce" calendar="gregorian" normal="1934">1934</unitdate> <unitdate type="inclusive" datechar="creation" era="ce" calendar="gregorian" normal="1976/1979">1976-1979</unitdate>

Open Date Ranges (DACS 2.4.8)

Open dates are not permitted by DACS. If additional material is expected, record the inclusive dates pertaining to the current holdings (using the <accruals> element to describe expected accruals). When the accruals are received, the dates should be revised accordingly.

<unitdate type="inclusive" datechar="creation" era="ce" calendar="gregorian" normal="1921/1953">1921-1953</unitdate> [not 1921- or 1921-(ongoing)]

Approximate Dates (e.g., "circa 1950") (DACS 2.4.12, 2.4.15)

Use "circa" in the CERTAINTY attribute. Approximate dates should be normalized using an interval to express the earliest and latest dates in the range.

<unitdate type="inclusive" datechar="creation" era="ce" calendar="gregorian" certainty="circa" normal="1845/1855">circa 1850</unitdate> [normalize as an interval to express an appropriate date range]

<unitdate type="inclusive" datechar="creation" era="ce" calendar="gregorian" certainty="circa" normal="1990/1999">1990s</unitdate> [use an interval to indicate every year of the decade]

<unitdate type="inclusive" datechar="creation" era="ce" calendar="gregorian" certainty="circa" normal="1701/1800">18th century</unitdate>

Undated Material (DACS 2.4.16)

If a date for the described material is not available, and recording an estimated date is not desired (or would be misleading), use "undated" in the <unitdate> element. Do not use the abbreviations "n.d." or "s.d." Normalize as a date range (as with approximate dates), perhaps using the collection dates, or life of creator, etc.

<unitdate type="inclusive" datechar="creation" era="ce" calendar="gregorian" normal="1936/1999">undated</unitdate>

## Describing and Linking to Digital Items from the Collection

Linking elements and attributes in EAD adhere to XLink version 1.0, the XML linking standard of the World Wide Web Consortium (W3C). Linking concepts such as links, resources, arcs, traversal, and link behavior are clearly explained in the W3C XLink specification document for version 1.0, available at <a href="http://www.w3.org/TR/xlink/">http://www.w3.org/TR/xlink/</a>. See especially section 2 on XLink concepts.

This section of the CCLA encoding guidelines provides basic instructions for linking to objects within the collection that have been digitized. For guidelines on linking from a finding aid to digital resources that are not included in the collection, from one part of a finding aid to another part of the same finding aid, from one finding aid to another, or from a MARC catalog record to a finding aid, see the following section on <a href="Internal and External Linking">Internal and External Linking</a>.

Use the <daogrp> Digital Archival Object Group element, with its child elements <resource> Resource, <daoloc> Digital Archival Object Location, and <arc> ARC, for references/links to digital representations of collection items described in the finding aid. The <daogrp> elements may be placed inside a variety of EAD elements: <archdesc>, <archdescgrp>, <archref>, <bioghist>, any <c0x> component group, <did>, <odd>, and <scopecontent>. The CCLA recommends using <daogrp> with nested <resource>, <daoloc>, and <arc> subelements rather than using <dao> Digital Archival Object alone. <dao> allows for only one digital representation, while <daogrp> allows for one or more digital representations. Using <daogrp> assures the ability to have multiple digital representations and to maintain consistency in using a single tag, an approach that aids union systems as well as some markup software and tool development.

There are various ways of providing links using the <daogrp> elements. See the EAD Tag Library section on <a href="elements"><daogrp>, <resource>, <daoloc>, and <arc> for details (but note that at this time, the CCLA does not provide entity reference functionality as shown in the use of the ENTITYREF attribute in some of the Tag Library encoding examples). Note that <daogrp> must contain <resource>, <daoloc>, and <arc> elements to ensure XLink compliance.

One simple approach, which provides descriptive information about a digitized item as well as a link to the digital file, includes the following steps:

- Insert a <daogrp> element.
- Within the <daogrp> element, insert a <resource> element. As used here, the <resource> element provides a way to refer to the starting point in the link and to identify whether the link will be made from supplied text or from an icon. If a textual hyperlink is desired (i.e., a link that is activated when the user clicks on the text), include that text within the opening and closing <resource> tags. If a link from an icon is preferred, do not include text between the opening and closing <resource> tags (i.e., leave the <resource> element empty). The LABEL attribute is required as a way to refer to the starting point in the link (it will be referenced in the <arc> element's FROM attribute). Any text can be used in the LABEL attribute, but "start" is typically used.

<resource xlink:type="resource" xlink:label="start">image of Chief Seattle/resource> [This markup generates a textual link]
<resource xlink:type="resource" xlink:label="start"/> [An empty <resource> element generates a link from an icon rather than text]

Following the <resource> element, insert a <daoloc> element, which provides information about the ending point in the link. Enter into the HREF attribute the full URL of the digital file you wish to link to (i.e., the digital file that is the destination of the link). Next, enter a value in the LABEL attribute as a way to refer to the destination file (this will be referenced in the <arc> element's TO attribute). Any text can be used in the LABEL attribute, but typical text describes the destination file in some way, such as "text" or "image." In the TITLE attribute, provide alternate text that will display to users who have difficulty seeing online images (as recommended in the World Wide Web Consortium's Web Accessibility Initiative. Generally, supply brief text that describes the linked digital resource (such as "digital image of Linus Pauling, 1954"). Lastly, enter into the ROLE attribute the MIME type (i.e., media or application type) of the destination file. Common MIME types are:

Typical filename extension	Corresponding MIME type
.jpg	image/jpeg
.gif	image/gif
.mov	video/quicktime
.mpg	video/mpeg
.htm, .html	text/html
.pdf	application/pdf
.doc	application/msword
.xml	text/xml

Finally, insert the <arc> element, which provides information about the direction, display, and activation of the link. In the FROM attribute enter the same text that you used in the <resource> element's LABEL attribute. Enter into the TO attribute the same text that you used in the <daoloc> element's LABEL attribute. The <arc> element's SHOW attribute determines where the digital object displays. To replace the current window, choose "replace"; to open the object in a new window choose "new"; to embed the object within the document, choose

"embed". Finally, the ACTUATE attribute determines when the object displays. To activate the link automatically when the document loads, choose "onload" (this is the typical choice when the SHOW attribute is set to "embed"); to activate the link when requested by the user, choose "onrequest". E.g.:

```
<daogrp xlink:type="extended">
<resource xlink:type="resource" xlink:label="start">Sen. Mike Mansfield, 1976</resource>
<daoloc xlink:type="locator" xlink:label="image" xlink:title="digital image of Mike Mansfield, 1976" xlink:role="image/jpeg" xlink:href="http://www.u.montana.edu/archives/images/mansfield1976.jpg"/>
<arc xlink:type="arc" xlink:from="start" xlink:to="image" xlink:show="new" xlink:actuate="onRequest"/>
<daogrp>
```

## Linking to Two Digital Objects in the Same Link

On occasion, a repository may wish to embed an image in a finding aid document and then provide a link to a larger version of the same image. To do this, nest two <daoloc> elements and two <arc> elements within a single <daogrp> element. Follow the procedures above for a single digital object with the following modifications/additions:

- The <resource> element should be empty (i.e., there should be no text inside the opening and closing tags): <resource xlink:type="resource" xlink:label="start"></resource>
- Insert a second <daoloc> element and enter into the HREF attribute the URL to the second digital object. Fill in the ROLE, LABEL, and TITLE attributes as above. Note: the LABEL attribute in the second <daoloc> element must contain different text than that contained in the first <daoloc> element.
- In the first <arc> element, set the SHOW attribute to "embed" and the ACTUATE attribute to "onLoad".
- Insert a second <arc> element and enter into the FROM attribute the text used in the LABEL attribute from the first <daoloc> element (i.e., the thumbnail). Enter into the TO element the value used in the LABEL attribute from the second <daoloc> element (i.e., the larger version of the image). Set the SHOW attribute to either "new" or "replace" and the ACTUATE attribute to "onRequest".

Building on the example above, the markup would become:

```
<daogrp xlink:type="extended">
  <resource xlink:type="resource" xlink:label="start"/>
  <daoloc xlink:type="locator" xlink:label="thumbnail" xlink:title="thumbnail image of Mike Mansfield, 1976"
xlink:role="image/jpeg" xlink:href="http://www.u.montana.edu/archives/images/mansfield1976.jpg" />
  <daoloc xlink:type="locator" xlink:label="expanded" xlink:title="reference image of Mike Mansfield, 1976" xlink:role="image/jpeg"
href="http://www.u.montana.edu/archives/images/mansfield1976-large.jpg" />
  <arc xlink:type="arc" xlink:from="start" xlink:to="thumbnail" xlink:show="embed" xlink:actuate="onLoad"/>
  <arc arc xlink:type="arc" xlink:from="thumbnail" xlink:to="expanded" xlink:show="new" xlink:actuate="onRequest"/>
  </daogrp>
```

## **Internal and External Linking**

Linking elements and attributes in EAD adhere to XLink version 1.0, the XML linking standard of the World Wide Web Consortium (W3C). Linking concepts such as links, resources, arcs, traversal, and link behavior are clearly explained in the W3C XLink specification document for version 1.0, available at <a href="http://www.w3.org/TR/xlink/">http://www.w3.org/TR/xlink/</a>. See especially section 2 on XLink concepts.

This section of the CCLA encoding guidelines provides basic instructions on internal linking within a finding aid and on external linking to digital resources or objects that are not part of the materials being described by the finding aid (such as an external Web site or a separate finding aid included in the CCLA finding aids database). It also provides brief instructions on linking to a finding aid from a MARC catalog record. For guidelines on linking from a finding aid to digitized or born-digital items that form part of the collection being described, see the previous section, Describing and Linking to Digital Items from the Collection.

Internal linking: All internal linking (i.e., linking from one part of the finding aid to another part of the same finding aid) should be encoded using the <ptr>
ving the <ptr>
ving the <ptr>
ving Pointer or <mi>vere
Reference elements. Note that whereas <ptr>
ving the <pt

The following is an example of a link from a series called "Abraham O. Smoot correspondence" that is listed in an <arrangement> note to the <c01> component description of that series in the same finding aid:

Arranged in three series: <ref xlink:type="simple" xlink:href="#series1"> 1. Abraham O. Smoot correspondence</ref>. 2. Subject files....

</arrangement>

Note that the <c01> component-level description for the Abraham O. Smoot correspondence series in this example must contain an ID attribute that has the same value as that referenced in the <ref> element's TARGET attribute:

```
...
<c01 level="series" id="series1" >
<did>
<unittitle>Abraham O. Smoot correspondence</unittitle>
...
</did>
...
</c01>
```

External linking: All external linking (i.e., linking from the finding aid to a resource other than the finding aid) should be encoded using <a href="externet-">extpr/> Extended Pointer</a>, <a href="externet-">externet-</a> Extended Pointer</a>, <a href="externet-">externet-</a> Extended Pointer</a>, <a href="externet-">externet-</a> can include text and subelements as part of its reference to an electronic object external to the finding aid. In any of these elements, recommended practice is to use the HREF attribute for the target URL; the ROLE attribute to indicate the corresponding <a href="https://miles.nich.org/miles.nich.externet-">MIME</a> type of the linked resource; the ACTUATE attribute to indicate whether the link activates automatically or must be requested by the user; and the SHOW attribute to indicate whether the target resource should replace the existing resource or appear in a new window (see the descriptions of these attributes in the <a href="EAD Tag Library">EAD Tag Library</a> for additional options). Note that in these elements, the value in the LINKTYPE attribute is supplied by the EAD Schema and may not be changed.

The following is an example of an external link to a Web site in a <relatedmaterial> note:

```
<relatedmaterial >
```

To search and view the Library of Congress HABS and HAER collections online, visit
<extref xlink:type="simple" xlink:role="text/html" xlink:show="new" xlink:actuate="onRequest"</p>
xlink:href="http://memory.loc.gov/ammem/collections/habs\_haer/">Built in America</extref>. Visit the National Park Service online to learn more about <extref xlink:type="simple" xlink:role="text/html" xlink:show="new" xlink:actuate="onRequest" xlink:href="http://www.cr.nps.gov/habshaer/">HABS and HAER</extref>.
</relatedmaterial>

Linking to another finding aid: To link to a related finding aid, provide in the HREF attribute in <extref> the complete URL.

Linking to a CCLA finding aid from a MARC catalog record: To link from a MARC record that describes an archival collection to the finding aid that describes the same collection, include a MARC 856 field in the catalog record. The first indicator code should be "4" and the second indicator code should be "2". In ‡u (subfield u) of the 856 field, enter the complete CCLA URL. If desired, add to the 856 field a ‡z that contains brief explanatory text for the user (the wording of the text may be determined by each institution). For example:

856 42 ‡u http://ead.lib.byu.edu:8080/Ead/ead\_viewdoc.jsp?eadid=UA1242.xml ‡z Connect to the online finding aid for this collection

## **Component Tags**

The assignment of component levels should always reflect the arrangement of the collection. A collection may be arranged in various ways. It may be a "flat" arrangement of series, files, or items. More commonly, it may be arranged hierarchically, i.e., it may be divided into one or more of the following groupings:

- collection or record group (this is almost always described at the top level rather than the component level in <archdesc>, but including collection or record group in component-level description is permitted by the EAD Schema and the CCLA EAD BPG)
  - o subgroups or series (most component-level description begins with one of these levels of arrangement)
    - subgroups may be divided into narrower subgroups and/or into series
      - series may be divided into subseries and/or into files
        - o subseries may be divided into narrower subseries and/or into files
          - files may be divided into narrower files and/or into items

 items may not be divided; item-level description is the narrowest level permitted by the EAD Schema

EAD uses a system of numbered <c0x> component tags to capture the organization and description of a collection. There is no fixed correspondence between a component tag and the intellectual level. The component tag is merely a wrapper element used to encode hierarchically arranged, nested descriptions. For example, a <c02> tag may serve to encode a file in one section of a container list and an item in another section.

The CCLA BPG EAD requires *numbered* component tags, from <c01> down through a possible nested <c12> level. Do not use unnumbered <c> component tags. If a collection has a "flat" arrangement, use <c01> tags to describe each unit. For hierarchically arranged collections, use nested <c01> through <c012> tags as applicable.

For each <c01> down to <c12> component tag, a LEVEL attribute must also be used in order to distinguish the levels from one another. This encoding will facilitate computer processing, searching, style sheet manipulation, and ultimately, readability of finding aid data.

For collections that are minimally processed or unprocessed, see Component-level Description of Minimally Processed/Unprocessed Collections

#### **Character Encoding**

For all special characters encoded in XML, encode directly in UTF-8 Unicode, or use Unicode decimal or hexadecimal character references. Note that all decimal character references should begin with an ampersand & and pound sign #, and end with a semicolon; (use the syntax "&#D;" where D is a decimal number). Note that all hexadecimal character references should begin with an ampersand, pound sign, and lower- or uppercase "x", and end with a semicolon (use the syntax "&#xH;" or "&#XH;" where H is a hexadecimal number); see the Unicode *Code Charts* for hexadecimal character reference codes. For more detailed information on XML, UTF-8, and special character encoding, see the W3C/Unicode Consortium document *Unicode in XML and other Markup Languages*. The following is an example using UTF-8 Unicode hexadecimal character references to express the term "émigrés":

The papers also document trends in high school and university education among Russian émigrés.

Note: "é" the UTF-8 Unicode hexadecimal character reference used to encode the letter "é" in the word "émigrés," derived from the Unicode Latin-1 Supplement code chart.

Characters reserved for XML markup delimiters (ampersand, left angle bracket, and right angle bracket) need to be replaced with the following character entities:

Character	Character Name	Character Entity
&	Ampersand	&
<	Left angle bracket	<
>	Right angle bracket	>

Note that some XML authoring programs, such as XMetaL, provide Unicode functionality, allowing the encoder to choose the desired special character from a chart.

## **Headings and Labels**

CCLA strongly recommends that the use of <head> elements and LABEL attributes be avoided as often as possible. This information does not typically form part of the actual data of the finding aid and is supplied by the CCLA stylesheets or locally developed stylesheets. There are exceptions to this general recommendation, however (see, for example, the use of the <head> element in <biodynamics because of the commendation of the second commendation of

CCLA will accept finding aids that contain information in <head> tags and LABEL attributes, but this information will not display in the presentation of the finding aids in the Brigham Young University repositories.

## Punctuation, White Space, and Empty Elements

CCLA recommends that encoders do not provide punctuation *between* elements (such as between <unittitle> and <unittitle> and <unittitle>). This information is supplied by the CCLA stylesheets or locally developed stylesheets. Punctuation is acceptable *within* a given element.

Encoders should avoid adding extraneous white space within finding aids. Similarly, as the final step in the editing process before submission to the CCLA database, empty elements (tags containing no data, or child elements with data, or links) should be removed.

## **Special Formatting**

#### **Text Formatting**

With the exception of using the <emph> tag (see below) and parts of the <bibliography> element set, very little text formatting should be done when a finding aid is created in XML. Most formatting will be done by the stylesheets that format the finding aid for Web display.

Capitalization: Do not use all caps to set off text in a finding aid.

Formatting of Book and Journal Titles, etc.: Format book, journal, painting, and ship titles (any kind of title that would normally be italicized or underlined) by enclosing the title within <title> tags. Set the RENDER attribute to the appropriate attribute value (i.e., "doublequote," "italic," or "underline".

Exception: The <titleproper> element in the <eadheader> may not contain a <title> element. To set off a title within a <titleproper> element, enclose the title text within <emph> tags and set the RENDER attribute to "italic." See the EAD Tag Library for more information.

<titleproper>Guide to the <emph render="doublequote">Utah Business Review</emph> collection</titleproper>

**Special font requirements:** Under special circumstances, selected text may be formatted as bold, italicized, underlined, etc. with the <emph> element. Given that the CCLA stylesheet formats most headings, labels, and so forth, highlighting selected text via the <emph> element should be done only in cases of special need. Encoders may wish to preview the finding aid through the CCLA stylesheet before deciding to format specific text strings with the <emph> element.

**Text Used in Attributes**: *All* text used as attribute values should be entered in lower case to comply with the EAD Schema, which mandates that element and attribute names must be in lower case for XML compliance. Even text that normally is rendered in upper case letters must be entered in lower case when used as an EAD attribute value. Also, avoid using blank spaces in attribute text. E.g.

<unitdate type="inclusive" encodinganalog="coverage">

<relatedencoding="dc">

but not

<c01 level="Series">

**HREF** attributes containing reserved characters: Some URLs included in HREF attributes, particularly the ampersand &, contain characters that are reserved for special purposes in XML. If an ampersand forms part of a URL, substitute the appropriate hexadecimal character reference for the ampersand (specifically, use & instead of the single ampersand). See the table included in the section on <a href="Character Encoding">Character Encoding</a> for details. For example:

Instead of

http://clerk.ci.seattle.wa.us/&archives/photos/3/400/3.gif

replace the & with &

http://clerk.ci.seattle.wa.us/&archives/photos/3/400/3.gif

## Naming and Saving a Document

After opening a new finding aid file, it's a good idea to save the file immediately. The CCLA has established the following file naming requirements for finding aid files:

- Filenames consist of the repository's MARC repository code, followed by the repository collection number (find your institution's MARC code at <a href="http://www.loc.gov/marc/organizations/orgshome.html#searches">http://www.loc.gov/marc/organizations/orgshome.html#searches</a>).
- · Filenames should end with an .xml extension (XMetaL supplies this)

- · Filenames should contain no spaces or dashes
- · Filenames may include upper and lowercase letters, numbers, and underscores

Filename examples:

HLaB\_MSSH558.xml HLaB is the MARC code for Brigham Young University-Hawaii, MSSH558 is the collection number assigned to the collection by the Brigham Young University-Hawaii Special Collections

UPB\_UA1030.xml UPB is the MARC code for Brigham Young University, UA1030 is the collection number assigned to the collection by the L. Tom Perry Special Collections

Saving your files on a network is a good idea, but in any case, make sure to back your files up regularly.

If a finding aid file is edited or updated and resubmitted to a database, do not assign a new filename to the revised file. If the revised finding aid file is intended to replace the previous version of the file, it must have exactly the same filename.

## **Publication and Display**

The CCLA EAD BPG mandates encoding that is largely independent of a particular online or printed display. CCLA BPG-compliant encoding can be manipulated and repurposed through the application of customized stylesheets, such as a local stylesheet, or the CCLA stylesheets, in order to achieve local and/or consortium display needs and formatting preferences.

The AUDIENCE attribute and display of non-public information: Some institutions use the AUDIENCE attribute to restrict the display of in-house information to repository staff only. The AUDIENCE attribute, available in many EAD elements such as access and use restrictions, accruals, and other elements related to collection management and access, may be set to "internal" to indicate that the contents of the element in question should not be displayed to the public. However, note that setting the AUDIENCE attribute to "internal" does not in itself prevent public access; application software and display stylesheets must be set to process the attribute instruction correctly. The CCLA stylesheets do not display any element qualified with an AUDIENCE value of "internal" for any purpose, but CCLA finding aids submitted to or harvested by other finding aid databases or broadly accessible search and retrieval sites may not have a similar safeguard in place. Once a finding aid passes beyond purely local or consortial control, it is possible (even likely) that information may be displayed to the public that the repository intended strictly for in-house access.

For this reason, the CCLA strongly recommends that consortium members avoid the use of the AUDIENCE attribute to protect purely in-house information. A local database or collection management tool, rather than a finding aid, is the safest home for such information.

## Long Finding Aids

Each XML finding aid file must be a complete finding aid. Do not divide the finding aid into "manageable" pieces.

## Component-level Description of Minimally Processed/Unprocessed Collections

For CCLA participants encoding at the container level (often carton level) for minimally processed or unprocessed collections, the Best Practices Working Group strongly encourages CCLA archivists provide at least a container/carton-level inventory.

When only a file, item, or box list is provided in <dsc> because the collection lacks any major subdivisions, such as series and subseries, use "indepth" as the value of the TYPE attribute in <dsc>. In the <c0x> entries that comprise the in-depth inventory, use "file" or "item", as applicable, as the value of the LEVEL attribute in <c0x>. Note that for a box-level <dsc> without series, contiguous boxes with the same <unittitle> should not be encoded in separate <c01>>, but encoded as one <c01> with multiple containers. The primary focus of a <c0x> should be on intellectual content and form, even when the content does not reflect careful arrangement, rather than on the boxes in which the materials have been placed:

```
<c01 level="file">
...
</dsc>
```

If this approach to minimal processing is taken, recommended practice is to include some text in the collection-level processinfo> element explaining that the collection is unprocessed or has been minimally processed. E.g.:

```
<archdesc level="collection" type="inventory" relatedencoding="dc"> ...
  These records have been arranged into broad, series-level groupings. More detailed processing is not anticipated.

...
```

</archdesc> ...

Alternately, CCLA archivists may process and describe papers and records to the series level. This would benefit researchers and also ensure that the CCLA adheres to the EAD principle of describing archival collections based on intellectual rather than physical categorization. The encoding for series-level description (with no description at the file or item level) would appear as in the following example:

Because the <dsc> portion of a finding aid is itself not required by the CCLA, this recommendation should not be seen as a requirement. The CCLA believes, however, that following the recommendation will result in both encoding efficiency and in adherence to the spirit of EAD.

 $Table \ 1: <\!\!ead\!\!>, <\!\!eadheader\!\!>, and <\!\!frontmatter\!\!>$ 

Elements and Attributes Elements are surrounded by angle brackets and rendered in	Status	Comments/Application Notes	Tag Library	DACS
boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best practice	·	
		Opt=Optional		
xml version="1.0" encoding="utf-8"?	Req; not repeatable	XML declaration		
<ead></ead>	Req; not repeatable	Outermost wrapping element for an EAD-encoded finding aid.	115-116	
xmlns="urn:isbn:1-931666-22-9"	Req; not repeatable	Name space declaration for the EAD schema.		
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"	Req; not repeatable	Name space declaration for the XML schema itself.		
xmlns:xlink="http://www.w3.org/1999/xlink"	Req; not repeatable	Name space declaration for the XLink schema used with linking elements. Declaration may also include location of local copy of schema, but this reference should be removed before upload to the CCLA EAD repository.		
xsi:schemaLocation="urn:isbn:1-931666-22-9 http://www.loc.gov/ead/ead.xsd"	Req; not repeatable	URL for the location of the EAD schema. Declaration may also include location of local copy of schema, but this reference should be removed before upload to the CCLA EAD repository.		
relatedencoding=	Opt	Note: In most cases, RELATEDENCODING attributes will not be set in <ead>, but rather in the <eadheader> and <archdesc> elements. Most institutions will map each of these to elements to a different encoding system (such as Dublin Core in <eadheader> and MARC21 in <archdesc>). If both of those elements map to the same encoding system, however, the value could be set in <ead>.</ead></archdesc></eadheader></archdesc></eadheader></ead>		
<eadheader></eadheader>	Req; not repeatable	Wrapper element for information about the finding aid document, rather than the archival materials being described in the bulk of the finding aid.	119-120	
langencoding="iso639-2b"	Req	Refers to the standard being used for language codes.		
scriptencoding="iso15924"	Req	Refers to the standard being used for script codes.		
relatedencoding="dc"	Req	Indicates a descriptive metadata system to which <eadheader> elements can be mapped. The intention of the <eadheader> elements is to provide more robust and uniform discovery metadata about the finding aid.</eadheader></eadheader>		
repositoryencoding="iso15511"	Req	Refers to the standard being used for authoritative repository codes.		

Elements and Attributes Elements are surrounded by angle brackets and rendered in	Status	Comments/Application Notes	Tag Library	DACS
boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best practice Opt=Optional		
countryencoding="iso3166-1"	Req	Refers to the standard being used for authoritative country codes.		
dateencoding="iso8601"	Req	Refers to the standard being used for authoritative date formats.		
<eadid></eadid>	Req; not repeatable	EAD identifier. The content of this element, together with its attributes, most uniquely identify the EAD finding aid document.	121	
countrycode="US"	Req	State in ISO 3166-1 format. Usually ""US"" (United States) for CCLA participants.		2.1.5
mainagencycode=	Req	Use the repository code supplied by the Library of Congress for your institution. The code should be formulated according to ISO 15511 (e.g., "US-UPB"). Repository codes and instructions for requesting a new code may be found on the Library of Congress MARC Code List for Organizations  Web page. Organizations that have different branches or divisions within them should request a separate repository code for each.  For CCLA institutions, the MARC codes are as follows:  UPB (BYU Provo), IdRR (BYU Idaho), USIC (Church Historian's Office), and HLaB (BYU Hawaii).		2.1.4
publicid= and/or identifier= and/or url=	Req	The <eadid> for CCLA finding aids should include at least one of the following (CCLA recommends the use of a PUBLICID):  1. PUBLICID: 1. PUBLICID: defined in ISO/IEC 9070, 1991, intended to be universally unique. ISO 9070 provides rules for formulating Formal Public Identifiers (FPIs). See the Online Archive of California's OAC Best Practice Guidelines for Encoded Archival Description, Appendix B for instructions on structuring FPIs. The basic format is: publicid="-//Name"</eadid>		

Elements and Attributes Elements are surrounded by angle brackets and rendered in	Status	Comments/Application Notes	Tag Library	DACS
boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best practice Opt=Optional		
		of owner::subordinate named division of owner//TEXT (Country cod::National repository code::local repository reference code::Title of archival unit)//EN"		
		IDENTIFIER: a machine-readable persisent and unique identifier.  3. URL: the complete		
		URL of the finding aid. Should be expressed in absolute (not relative) terms.		
encodinganalog="identifier" <filedesc></filedesc>	MA Req; not repeatable	Maps Dublin Core element.  Wrapper for bibliographic information about the finding aid.	142-143	
<titlestmt></titlestmt>	Req; not repeatable	Wrapper for finding aid title information.	252	
<titleproper></titleproper>	Req; not repeatable	Use for the formal title of the finding aid, not the title of the record group or collection being described (e.g., "Register of the Ernest L. Wilkinson papers").	250-251	
encodinganalog="title"	Req	Mapped Dublin Core element.		
<date></date>	Rec; repeatable	Use <ate> element within the <titleproper> element. Use to encode span dates of described materials (e.g., 1899-1974).</titleproper></ate>	97-98	
era="ce"	Opt			
calendar="gregorian" normal=	Opt Opt	Enter normalized span dates in ISO 8601 format (e.g. 1899/1974).		
encodinganalog="date"	Opt	Mapped Dublin Core element.		
<titleproper>[filing title]</titleproper>	Req; not repeatable	Encode the <i>filing title</i> of the collection being described.  Note that the filing title is a modified form of the title used for sorting lists of collection titles.		
		For papers created by, collected around, or associated with an individual, the filing title should begin with that person's last name, followed by the first name and optional middle initial surrounded by		

Elements and Attributes Elements are surrounded by angle brackets and rendered in	Status	Comments/Application Notes	Tag Library	DACS
boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best practice Opt=Optional	v	
		parentheses:		
		Wilkinson (Ernest L.) papers Smoot (Abraham Owen) papers Facer (Joseph) correspondence		
		When the collection is named for two individuals who share the same name, place the last name at the beginning of the filing title, and list both names and, optionally, a middle initial in parentheses:		
		Harris (Franklin S. and Estelle) papers		
		For individuals who do not share a last name, list the most appropriate name first, with corresponding first name following in parentheses, and then the second last name with its corresponding first name in another set of parentheses:		
		Westwood (Paul Bradford) and Daines (J. Gordon) collection		
		Corporate names and family names should generally be listed just as they are. Encoders are urged to use appropriate abbreviations such as Corp., Co., Inc., Dept., etc. to maintain brevity:		
		Provo Police Dept. records Springville photograph collection Nimer family diaries		
type="filing"	Req	Albertsons, Inc. records Indicates that this instance of <titleproper> is intended for filing purposes</titleproper>		
altrender="nodisplay"	Req	Indicates that this element is not intended for Web or print display of the finding aid; rather, it is used for retrieval sort and display purposes.		
<author></author>	MA; not repeatable	Name of the person (s) or institution(s) responsible for the intellectual content of the encoded finding aid.	48-49	8.1.5
encodinganalog="creator"	MA	Mapped Dublin Core element.		
<sponsor></sponsor>	MA; not repeatable	CCLA members should acknowledge outside financial help, if appropriate.		
encodinganalog="contributor"	Opt	Mapped Dublin Core element.		
<editionstmt> <pre><publicationstmt></publicationstmt></pre></editionstmt>	Opt; not repeatable Req; not	Holds information about the edition of the finding aid.  Wrapper for information about	123-124 213	

Elements and Attributes Elements are surrounded by angle brackets and rendered in	Status	Comments/Application Notes	Tag Library	DACS
boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best		
		practice Opt=Optional		i
	repeatable	publication or distribution of finding aid.		
<publisher></publisher>	Req; not	Name of publisher or	214	
	repeatable	distributor of finding aid.		
encodinganalog="publisher" <address></address>	Req Req;	Mapped Dublin Core element.  Wrapper element for the lines	33	
	repeatable	of address that comprise the address of the repository.		
<addressline></addressline>	Req;	Multiple <addressline></addressline>		
	repeatable	elements may be used as		
		needed to provide street address, city, state, zip, phone,		
		fax, email address, and		
		repository URL.		
<date></date>	Req; repeatable	Date of publication or copyright of the finding aid.	97-98	1
era="ce"	Rec	copyright of the finding ard.		
calendar="gregorian"	Rec			
normal=	Rec	Enter normalized publication or copyright date in ISO 8601 format (e.g., 2007).		
encodinganalog="date"	Req	Mapped Dublin Core element.		
<seriesstmt></seriesstmt>	Opt; repeatable	Wrapper for information about published monographic series, if any, to which the finding aid	234	
<notestmt></notestmt>	Opt; not repeatable	belongs.  Wrapper for general notes describing the finding aid.	181	
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Req; not	Wrapper for information about	207-208	
	repeatable	encoded version and language(s) of finding aid.		
<creation></creation>	MA; not repeatable	Statement about the encoding of the finding aid. Generally include at least the name of the encoder(s), if known.	87	
<date></date>	Rec; not	Date of the initial encoding in	97-98	
era="ce"	repeatable Rec	EAD.		
calendar="gregorian"	Rec			
normal=	Req	Enter normalized publication or copyright date in ISO 8601 format (e.g., 2007).		
<langusage></langusage>	Req	Provides a statement about	168	
		languages, sublanguages, and dialects represented in an		
		encoded finding aid. The		
		language(s) in which the finding aid is written can be		
		further specified using the		
		<li><language> subelement within <language>.</language></language></li>		
<language></language>	Rec; repeatable	Use as many <language> tags as necessary to encode</language>	166-167	
		languages predominantly represented in the text of the		
encodinganalog="language"	Rec	finding aid.  Mapped Dublin Core element.		
langcode="eng"	Rec	Consult ISO 639-2b for the correct language code(s).		
scriptcode="Latn"	Rec	Consult ISO 15924 for the correct language code(s).		
<descrules></descrules>	MA; not	Identifies the rules used in	102	

Elements and Attributes Elements are surrounded by angle brackets and rendered in	Status	Comments/Application Notes	Tag Library	DACS
boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best		
		practice		
		Opt=Optional		
	repeatable	preparing the finding aid.		
		CCLA recommends the		
		following tagging:		
		<descrules>Describing</descrules>		
		Archives: A Content		
		Standard		
		Not mandatory in legacy		
		finding aids if the descriptive		
	1	rules used are not known.		
<revisiondesc></revisiondesc>	MA; not	Used to record information		
	repeatable	about significant changes to the content of the finding aid <i>after</i>		
		its initial EAD encoding.		
<change></change>	MA;	Wrapper that holds information	74	
	repeatable	about notable changes to a		
		finding aid; contains <date></date>		
		and <item> elements. Use one</item>		
		<pre><change> element for each</change></pre>		
<date></date>	MA; not	change described.  Date(s) of change (e.g., August	97-98	
<uate></uate>	repeatable	2008).	91-90	
era="ce"	Rec	2000).		
calendar="gregorian"	Rec			
normal=	Rec	Enter normalized publication or		
		copyright date in ISO 8601		
		format (e.g., 2007).		
<item></item>	Rec; not	Brief narrative description of	161-162	
	repeatable	the change (e.g. Collection accrual inventory added).		
<frontmatter></frontmatter>	Opt.; not	<pre><eadheader> rather than</eadheader></pre>	146-147	
\ii \text{virtuality}	repeatable	<pre><frontmatter> is preferred as</frontmatter></pre>	140-14/	
	Терешине	the source for titlepage		
		information in the CCLA union		
		database environment.		
		<frontmatter> may be used in</frontmatter>		
		local or "in-house" applications,		
	1	but elements contained within		
		<frontmatter> will not be displayed by the CCLA</frontmatter>		
	1	displayed by the CCLA database.		
		uaiduase.	<u> </u>	

**Table 2: <archdesc> (Top-Level Description)** 

Elements and Attributes Elements are surrounded by	Status	Comments/Application Notes	Tag Library	DACS
angle brackets and rendered		Req=Required		
in boldface		MA=Mandatory if applicable		
		Rec=Recommended best practice		
		Opt=Optional		
<archdesc></archdesc>	Req; not	Wrapper element for descriptive information about the body of the	41-42	
<ar chaese=""></ar>	repeatable	archival materials being described in the finding aid.	41-42	
level="collection   recordgrp	Req	Use one of the following terms in the attribute: "collection",		
series   subgrp   subseries		"recordgrp", "series", "subgrp", "subseries", "otherlevel", "file", or		
otherlevel   file   item"		"item". The CCLA encoding template for XMetaL defaults to		
		"collection" but this may be changed to another term		
type=" inventory   accession"	Rec	Use one of the following terms in the attribute: "inventory" or		
		"accession". The CCLA encoding template for XMetaL defaults to		
relatedencoding="dc"	Req	"inventory" but this may be changed to another term  Indicate the descriptive encoding system to which the <archdesc></archdesc>		
relatedencoding- dc	Keq	elements—those elements that describe the collection—can be		
		mapped. The CCLA encoding template for XMetaL defaults to		
		"dc" encoding analogs for the <archdesc> elements.</archdesc>		
<did></did>	Req; not	Wrapper element for core information about the described	103-105	
	repeatable	collection. <did> may be used at the top-level <archdesc> or at</archdesc></did>		
		any component level <c0x>.</c0x>		
<repository></repository>	Req; not	Wrapper for the institution or agency responsible for providing	221-222	
	repeatable Req; not	intellectual access to the materials being described.		2.2.2
<name>   <corpname></corpname></name>	repeatable	Top-level name of the repository (e.g., L. Tom Perry Special Collections or Brigham Young University-Hawaii Archives &		2.2.2
	repeatable	Special Collections).		
encodinganalog="publis	Rec	MARC 21: "852\$a".		
her"				
source="lcnaf"	MA	If the name was found in the LC Name Authority File, enter		
		"lcnaf" in the source attribute. In this case, there is no need to use		
1 "1   2"	3.5.4	the RULES attribute.		
rules="dacs   aacr2"	MA	If the name was not found in the LC authority file but was formulated using DACS or AACR2 rules, enter either "dacs" or		
		"aacr2" in the RULES attribute.		
<subarea></subarea>	MA; repeatable	A secondary or subsidiary administrative level within the		2.2.2
		repository, such as the name of a department or division (e.g., BYU		
		Film Archives or University Archives, BYU).		
	Rec	MARC 21: "852\$b".		
encodinganalog="publisher"	M A	Warrant for allow information (conservation		222
<address></address>	MA; repeatable	Wrapper element for address information (expressed in <addressline> elements). DACS requires that the location of the</addressline>		2.2.3
		repository be provided if not obvious from the name of the		
		repository.		
<addressline></addressline>	MA; repeatable	If the location (city and state) of the repository is not obvious from		
		the repository's name, provide it in <addressline>.</addressline>		
		Use one <addressline> element for each line of postal or other address information.</addressline>		
		address information.		
		<addressline>1130 HBLL</addressline>		
		<addressline>Brigham Young University</addressline>	1	
		<addressline>Provo, UT 84602</addressline>		
		<addressline>http://sc.lib.byu.edu</addressline>		
<unitid></unitid>	Req; not	A unique control number or reference point for the described	255-256	2.1.3
	repeatable	material, such as a collection or record group number, lot number,		
		accession number, classification number, or entry number in a bibliography or catalog. Institutions that do not assign a collection		
		or other control number to their collections should enter the text	1	
		"Consult repository."	1	
	Rec	MARC 21: "090".		
encodinganalog="identifier"				
countrycode="US"	Req	Use ISO 3166-1 code, usually "US" (United States) for CCLA		2.1.5
		participants.		
repositorycode=	Req	Use the same value entered in MAINAGENCYCODE in <eadid>.</eadid>		2.1.4

Elements and Attributes Elements are surrounded by	Status	Comments/Application Notes	Tag Library	DACS
angle brackets and rendered in boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best practice Opt=Optional		
<origination></origination>	MA; not repeatable	Information about the individual(s) or organization(s) responsible for the creation, accumulation, assembly, and/or maintenance and use of the described materials.	189-190	2.6; Ch. 9
		<origination> is a wrapper element for one or more of the selected name elements below. At the broadest level of description in <archdesc>, one <origination> element may be used, and it may contain one or more personal, family, or corporate name(s) (the primary creator(s) of the entire body of material described in the finding aid).</origination></archdesc></origination>		
<pre><persname>   <famname>   <corpname></corpname></famname></persname></pre>	MA; Repeatable	<persname>: Proper name of an individual (lastname, firstname—Smith, Joseph, 1805-1844), or <famname>: Proper name of family (direct word order—Smoot family), or <corpname>: Proper name of organization/agency (direct word order—Brigham Young University-Idaho), or name of conference or meeting, exhibition, expedition, athletic contest, fair, etc. (see <corpname> in the Tag Library for more details).</corpname></corpname></famname></persname>	195- 197, 140- 141, 85- 86	Ch. 9, 12, 14
source="lcnaf"	MA	Use LC name authority if possible or formulate according to DACS or AACR2 rules.  If the name was found in the LC Name Authority File, enter		
source— ichai	WA	"Icnaf" in the source attribute. In this case, there is no need to use the RULES attribute.		
rules="dacs   aacr2"	MA	If the name was not found in the LC authority file but was formulated using DACS or AACR2 rules, enter either "dacs" or "aacr2" in the RULES attribute.		
encodinganalog="creator"	Rec	Enter "100" for personal name; "100" for family name; "110" for corporate name; "111" for meeting name or conference name for the primary creator of the material (note that both "110" and "111" map to <corpname>). Additional creators should be given 7XX encoding analogs.</corpname>		
		MARC 21: "100   110   111   700   710   711"		
authfilenumber=	Rec	Enter the authority file number of the creator of the materials.		
role="creator   collector   photographer"	Rec	A contextual role or relationship with the person, family, or corporate body within element. Usually use "creator," "collector," or "photographer" at the top level of description. Additional role terms may be used as appropriate from the MARC Relator Term list at the Library of Congress. Do not use "subject."		Ch. 9
<unittitle></unittitle>	Req; not repeatable	The title, either transcribed or supplied, of the described collection. A supplied title generally consists of the name of the creator(s) or collector(s) and the nature of the materials being described.	257-258	2.3
		<pre><unittitle encodinganalog="title">Elaine Cannon papers</unittitle></pre>		
		<pre><unittitle encodinganalog="title">BYU Women scrapbook</unittitle></pre>		
		If the collection title includes within it the name of a publication, such as the title of a newspaper, enclose the publication name in a <title> element, and set the &lt;title&gt; element's RENDER attribute to "italic".&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;anaodinganala a_"sista"&lt;/td&gt;&lt;td&gt;Pag&lt;/td&gt;&lt;td&gt;&lt;pre&gt; &lt;unittitle encodinganalog="title"&gt;Matthew A. Rogers &lt;title render   "italic"&gt;Provo Daily Herald</title> collection		
encodinganalog="title" <unitdate></unitdate>	Rec Req; repeatable	MARC 21: "245\$a".  The date(s) of the described materials. Kinds of dates that may be	253-254	2.4
\unituate>	жец, тереатарге	recorded include publication, creation, record-keeping activity, or broadcast dates. May be a single date or a date range (e.g., 1902-1987). Optionally repeat the <unitdate> element to state bulk</unitdate>	233-234	2. <del>4</del>

Elements and Attributes Elements are surrounded by	Status	Comments/Application Notes	Tag Library	DACS
angle brackets and rendered		Req=Required		
in boldface		MA=Mandatory if applicable		
		Rec=Recommended best practice		
		Opt=Optional		
		date(s), specifying type of date in the TYPE attribute. CCLA		
		recommends that words indicating approximation (such as "circa,"		
		"approximately," and "probably") as well as names of months be		
		spelled out rather than abbreviated. In compliance with DACS, use "undated" if the date(s) are unknown or would be difficult or		
		\ '		
		misleading to estimate.		
		To insure compliance with ISAD(G), do not nest <unitdate> inside <unittitle>.</unittitle></unitdate>		
type="inclusive   bulk"	Req	Use "inclusive" for the full date range (even if date range is a		
31		single year, month, or day); use "bulk" only in an optional repeated		
		instance of <unitdate> in which bulk (i.e., predominant) dates are</unitdate>		
		stated.		
datechar="creation	Opt	Enter a term that indicates the nature of the recorded date(s),	11	2.4
recordkeeping   publication	•	usually creation, record-keeping activity, publication, or broadcast.		
broadcast"	<u> </u>			<u> </u>
era="ce"	Rec			
calendar="gregorian"	Rec			
normal=	Req	Enter normalized begin/end dates in ISO 8601 format (e.g., 1902/1987).		
certainty=	Rec	Indicates the level of confidence for the information given; for		
		example, set to "circa" if the dates are uncertain		
encodinganalog="date"	Rec	"245\$f" for inclusive dates; "245\$g" for bulk dates. MARC 21: "245\$f   245\$g ".		
<physdesc></physdesc>	Req; repeatable	A wrapper element for physical details about the described	198	2.5
		materials. Use subelements <extent>, <physfacet>, <dimensions>,</dimensions></physfacet></extent>		
		and if desired, <genreform> to record the information.</genreform>		
		Use separate <physdesc> element sets to accommodate physical</physdesc>		
		description information for different formats included in the		
		collection (e.g., one <physdesc> for number of linear feet of</physdesc>		
	D	papers, another <physdesc> for number of photographic prints).</physdesc>	131-132	2.5
<extent></extent>	Req; repeatable	State extent of space occupied (in linear or cubic feet) and/or number of containers and/or items. If desired, include additional	131-132	2.5
		details concerning types and formats of material, as in the first		
		example below. Use separate <extent> tags inside a single</extent>		
		<pre>cxample below. Ose separate <extents <physdesc="" a="" finder="" single="" tags=""> to state the same information in different ways (e.g.,</extents></pre>		
		one <extent> element for cubic feet and one for number of</extent>		
		containers inside the same <physdesc> element). Units of measure</physdesc>		
		should be expressed as part of the contents of this tag.		
		should be expressed as part of the contents of this tag.		
		<pre><physdesc><extent>3 boxes</extent><extent>(1.5 linear)</extent></physdesc></pre>		
		ft.)		
		Til) velicino veligiones		
		<pre><physdesc><extent>354 photographic prints</extent></physdesc></pre>		
	Rec	MARC 21: "300\$a".		
encodinganalog="format"				
<physfacet></physfacet>	Opt; not	For details regarding appearance (e.g., color), materials, technique,	199-200	2.5;
	repeatable	etc. For guidance on terminology and syntax in describing		Appendix
		physical aspects of particular types of non-textual materials,		В
		consult the appropriate content standards listed in Appendix B of		
	1	DACS.		
<dimensions></dimensions>	Opt; not	For guidance on stating the measurements of particular types of	106	2.5;
1	repeatable	materials (such as the height and width of photographs or the		Appendi
		diameter and tape width of reel-to-reel audio tapes) consult the		В
	1	appropriate content standards listed in Appendix B of DACs.		
<materialspec></materialspec>	Opt; not	For information about a specific type of material that is not	175	2.5;
	repeatable	recorded in any other element (such as scale for architectural		Appendi
		drawings). See Tag Library for details.		В
<abstract></abstract>	Opt; not	Use for a very brief (3-4 sentences) summary of collection contents	26-27	3.1
	repeatable	at the highest level. (Use <scopecontent> for a fuller description).</scopecontent>		
		The text in the top-level <abstract> element is displayed in search</abstract>		
	1	result lists presented in the CCLA finding aids database. The	İ	İ

encodinganalog= Opt The MARC S25 feld contains various subfields that may be mapped to information in cphysloc> Alanguage and the repeatable repeatable and the properties of	Elements and Attributes Elements are surrounded by	Status	Comments/Application Notes	Tag Library	DACS
Rec=Recommended best practice   Opt-Optional abstract should provide the user with enough information to make a decision of whether or not to view the complete finding aid.	angle brackets and rendered		Req=Required		
Opt-Optional abstract should provide the user with enough information to make a decision of whether or not to view the complete finding aid.	in boldface		MA=Mandatory if applicable		
abstract should provide the user with enough information to make a decision of whether or not to view the complete finding aid.			Rec=Recommended best practice		
decision of whether or not to view the complete finding aid.					
decision of whether or not to view the complete finding aid.			abstract should provide the user with enough information to make a		
Rec   MARC 21: 5203_"   Name or number of building, room, stack, shelf, or other tangible perpetable   Properatible   Proper					
Sec. not repeatable   Provides a may be refer to the caption information about the linked image.   Provides a may not refer to the linking point in the link. When linking position and arributes.   Provides a may not refer to the linking point in the link. A typical value is "Mark peeper about the linked image.   Provides a name for the destination of the link. A typical value is "Mark peeper about the linked image.   Provides a name for the destination of the link. A typical value is "Mark peeper about the linking point in the link. A typical value is "Mark peeper about the linked image.   Provides a name for the destination of the link. A typical value is "Image."   Provides a name for the destination of the link. A typical value is "Image.   Provides a name for the destination of the link. A typical value is "Image.   Provides a name for the destination of the link. A typical value is "Image.   Provides a name for the destination of the link. A typical value is "Image.   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Sant."   Provides a name for the destination of the link. A typical value is "Image."   Provides a name for the destination of the link. A typical value is "Image."   Provides a name for the destination of t		Rec			
Sec. 10   Name or number of building, room, stack, shelf, or other tangible repetable repetable   Provides a manerical is subveid.   Provides a number of building, room, stack, shelf, or other tangible area where the material is subveid.   Provides a number of building, room, stack, shelf, or other tangible encoding analog.   Provides a number of building, room, stack, shelf, or other tangible encoding analog.   Provides a number of building, room, stack, shelf, or other tangible encoding analog.   Provides a number of building, room, stack, shelf, or other tangible encoding analog.   Provides a number of building, room, stack, shelf, or other tangible encoding analog.   Provides and the provides and tangible encoding analog.   Provides and tangible encoding analog.   Provides and tangible encoding analog.   Provides and tangible encoding analog.   Provides and tangible encoding encoder.   Provides and tangible encoding encoder.   Provides and tangible encoding encoder.   Provides and tangible encoder.   P	encodinganalog="description"				
repeatable encodinganalog= Opt The MARC 825 feld contains various subfields that may be mapped to information in cphysloc>.    Clangmaterial>   Req; not repeatable   Wrapper element for recording the language(s) of the archival materials.   Wrapper element for recording the language of the materials being described is specified.		Rec: not	Name or number of building room stack shelf or other tangible	201-202	4.2.6
clangmaterial>   Req. not repeatable   Req. not repeatable   MA; repeata	physioes	· ·		201 202	
Sequence   Max   Requinct   Max   repeatable   Required XLink attribute.   Max   repeatable   Max   repeatable   Required XLink attribute.   Max   repeatable   Max   repeatable   Required XLink attribute.   Required XLink attribute.   Max   repeatable   Required XLink attribute.   Required XLink attri	encodinganalog=				
Clanguage   Ma; repeatable   Wrapper element for recording the language(s) of the archival materials.   164-165   4.	eneodingunarog=	Орг			
Tepeatable   MA; repeatable   Subelement of <a href="https://www.dishin.which the language of the materials being described is specified.">https://www.dishin.which the language of the materials being described is specified.</a>   A   A   A   A   A   A   A   A   A   A	/langmatarial>	Rea: not		164-165	4.5
Alanguage   MA; repeatable   Subelement of clangmaterials within which the language of the materials being described is specified.   Alanguage and produce   MA; repeatable   Consult ISO 639-2b for the correct language code(s).   4.	\angmater mi>			104 103	7.5
materials being described is specified.		repeatable	materials.		
materials being described is specified.	donguagos	MA: rapactable	Subalament of danameterials within which the language of the	166 167	4.5
clangmaterial   clanguage   langcode="fer"   clanguage   langcode="fer"   clanguage   langcode="fer"   clanguage   langcode="fer"   clanguage   clan	<a href="mailto:railguage"></a>	WIA, repeatable		100-107	4.5
langcode=   MA; repeatable   Consult ISO 639-2b for the correct language code(s).   4.			materials being described is specified.		
langcode=   MA; repeatable   Consult ISO 639-2b for the correct language code(s).   4.			denometerial denome colonomico de l'anollo denome co		
langcodes		1			
emodinganalog="language"   Rec  MARC 21: "546".  ### Adagraps  Opt  If an image is desired to illustrate the finding aid, link to a digital image of an item contained in the collection using <daograp> and its child elements and attributes.  A Required XLink attribute.   A wrapper element for caption information about the linked image.  #### Opt: repeatable    A wrapper element for caption information about the linked image.    </daograp>	1	MA (11	rangeoue= fre />		1.5
If an image is desired to illustrate the finding aid, link to a digital image of an item contained in the collection using <a href="#">daogrp&gt;</a>	iangcode=				4.5
Adadorp>	, ,	Rec	MARC 21: "546".		
Space   Catalogry   Catalogry   If an image is desired to illustrate the finding aid, link to a digital image of an item contained in the collection using <a href="days"><a <="" href="days" td=""><td></td><td></td><td></td><td></td><td></td></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>					
image of an item contained in the collection using <daogrp> and its child elements and attributes.    </daogrp>					
child elements and attributes.	<daogrp></daogrp>	Opt		93-94	
xlink:type="extended"   MA   Required XLink attribute.			image of an item contained in the collection using <daogrp> and its</daogrp>		
Section   Copt; repeatable   A wrapper element for caption information about the linked image.   92   193-194     193-194			child elements and attributes.		
MA; repeatable   Enter the caption information about the linked image. This text will display directly under the image.   193-194	xlink:type="extended"	MA	Required XLink attribute.		
MA; repeatable   Enter the caption information about the linked image. This text will display directly under the image.   193-194		Opt; repeatable		92	
will display directly under the image.	<			193-194	
MA; repeatable   Provides a way to refer to the starting point in the link. When linking to an illustration image, do not include text in the cresources element.	•	,			
linking to an illustration image, do not include text in the	<resource></resource>	MA: repeatable		223-224	
xlink:type="resource"   MA   Required XLink attribute.     xlink:labe =   MA   Provides a name for the starting point in the link. A typical value is "start."	(Tesource)	man, repeatable			
Xlink:type="resource"   MA   Required XLink attribute.   Xlink:label=   MA   Provides a name for the starting point in the link. A typical value is "start."   13   14   15   15   15   15   15   15   15					
Xlink:label=   MA   Provides a name for the starting point in the link. A typical value is "start."   13	vlink:type="resource"	МΔ			
Sisstart."   The location of the digital image of the item in the collection selected to illustrate the finding aid.   Xlink:type="locator"   MA   Required XLink attribute.     Xlink:label=			Provides a name for the starting point in the link A typical value	13	
MA; repeatable   The location of the digital image of the item in the collection selected to illustrate the finding aid.	AIIIR.iaoci–	IVIA		13	
selected to illustrate the finding aid.     xlink:type="locator"   MA   Required XLink attribute.     xlink:label=   MA   Provides a name for the destination of the link. A typical value is "image."     xlink:title="image of XXX" [where XXX is a brief description of the image]   This allows users who have difficulty seeing online images to see a text statement instead.     xlink:role=   Rec   Indicates the MIME type of the linked image file, such as "image/jpeg" or "image/tip".     xlink:href=   MA   Enter the full URL of the image file that will serve as an illustration.     <arc>   MA; repeatable   Provides information about the direction, display, and activation of the linked illustration image.     xlink:type="are"   MA   Required XLink attribute.     xlink:from=   MA   Enter the same text used in the <resource> element's LABEL attribute, such as "start".     xlink:to=   MA   Enter the same text used in the <daoloc> element's LABEL attribute, such as "image".     xlink:show="embed"   MA   Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.     xlink:actuate="onLoad"   MA   Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).     <a charge-information"="" href="https://example.com/subsequences/tipe=">this element</a>.   203   4.  </daoloc></resource></arc>	<daalaa></daalaa>	MA: rapastable		05.06	
xlink:type="locator"       MA       Required XLink attribute.         xlink:label=       MA       Provides a name for the destination of the link. A typical value is "image."         xlink:ritle="image of XXX" [where XXX is a brief description of the image]       Opt       This allows users who have difficulty seeing online images to see a text statement instead.         xlink:role=       Rec       Indicates the MIME type of the linked image file, such as "image/ipeg" or "image/tif".       19         xlink:role=       MA       Enter the full URL of the image file that will serve as an illustration.       18 <arc></arc>	<uaoloc></uaoloc>	WIA, repeatable		93-90	
Xlink:title="image of xXX" [where XXX is a brief description of the image]   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows users who have difficulty seeing online images to see a text statement instead.   This allows user image/infina	-1:-1	MA			
"image."				10	
XInk:title="image of XXX" [where XXX is a brief description of the image]   XInk:role=	xlink:label=	MA		13	
XXX" [where XXX is a brief description of the image]					
Alink:role   Rec   Indicates the MIME type of the linked image file, such as "image/jpeg" or "image/fif".		Opt			
Xlink:role=   Rec   Indicates the MIME type of the linked image file, such as "image/jpeg" or "image/tif".     Xlink:href=   MA   Enter the full URL of the image file that will serve as an illustration.     <arc>   MA; repeatable   Provides information about the direction, display, and activation of the linked illustration image.     Xlink:type="arc"   MA   Required XLink attribute.     Xlink:from=   MA   Enter the same text used in the <resource> element's LABEL attribute, such as "start".     Xlink:to=   MA   Enter the same text used in the <daoloc> element's LABEL attribute, such as "image".     Xlink:show="embed"   MA   Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.     Xlink:actuate="onLoad"   MA   Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).     <a href="https://example.com/repeatable"><a href="https://example.com/repeatable"><a href="https://example.com/repeatable"><a href="https://example.com/repeatable"><a href="https://example.com/repeatable"><a href="https://example.com/repeatable"><a href="https://example.com/repeatable">/example.com/repeatable</a>   Automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).    </a></a></a></a></a></a></daoloc></resource></arc>	-	1	text statement instead.		
"image/jpeg" or "image/tif".  xlink:href=  MA  Enter the full URL of the image file that will serve as an illustration.  Arc>  MA; repeatable  Provides information about the direction, display, and activation of the linked illustration image.  xlink:type="arc"  MA  Required XLink attribute.  xlink:from=  MA  Enter the same text used in the <resource> element's LABEL attribute, such as "start".  xlink:to=  MA  Enter the same text used in the <daoloc> element's LABEL attribute, such as "image".  xlink:show="embed"  MA  Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.  xlink:actuate="onLoad"  MA  Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).  opt; not repeatable  See the Tag Library for information on this element.  203  4.</daoloc></resource>	1 2,				
Xlink:href=   MA   Enter the full URL of the image file that will serve as an illustration.   See the Tag Library for information on this element.   18	xlink:role=	Rec		19	
Illustration.   Airce    Air			"image/jpeg" or "image/tif".		
MA; repeatable   Provides information about the direction, display, and activation of the linked illustration image.	xlink:href=	MA	Enter the full URL of the image file that will serve as an	18	
the linked illustration image.  xlink:type="arc" MA Required XLink attribute.  xlink:from= MA Enter the same text used in the <resource> element's LABEL attribute, such as "start".  xlink:to= MA Enter the same text used in the <daoloc> element's LABEL attribute, such as "image".  xlink:show="embed" MA Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.  xlink:actuate="onLoad" MA Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).</daoloc></resource>		<u>                                       </u>		<u>L</u>	
the linked illustration image.  xlink:type="arc" MA Required XLink attribute.  xlink:from= MA Enter the same text used in the <resource> element's LABEL attribute, such as "start".  xlink:to= MA Enter the same text used in the <daoloc> element's LABEL attribute, such as "image".  xlink:show="embed" MA Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.  xlink:actuate="onLoad" MA Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).</daoloc></resource>	<arc></arc>	MA; repeatable	Provides information about the direction, display, and activation of	39-40	
xlink:type="arc"       MA       Required XLink attribute.         xlink:from=       MA       Enter the same text used in the <resource> element's LABEL attribute, such as "start".       18         xlink:to=       MA       Enter the same text used in the <daoloc> element's LABEL attribute, such as "image".       19         xlink:show="embed"       MA       Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.       19         xlink:actuate="onLoad"       MA       Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).       18         <phystech>       Opt; not repeatable       See the Tag Library for information on this element.       203       4.</phystech></daoloc></resource>		1			
Xlink:from=   MA   Enter the same text used in the <resource> element's LABEL attribute, such as "start".     Xlink:to=   MA   Enter the same text used in the <daoloc> element's LABEL attribute, such as "image".     Xlink:show="embed"   MA   Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.     Xlink:actuate="onLoad"   MA   Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).     Image: Comparison of the image: Albert of the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).     Image: Comparison of the image: Albert of</daoloc></resource>	xlink:type="arc"	MA			
attribute, such as "start".    Xlink:to=   MA   Enter the same text used in the <daoloc> element's LABEL attribute, such as "image".    Xlink:show="embed"   MA   Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.    Xlink:actuate="onLoad"   MA   Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).    Image: Comparison of the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).    Image: Comparison of the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).    Image: Comparison of the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).    Image: Comparison of the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).    Image: Comparison of the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).    Image: Comparison of the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).</daoloc>				18	
xlink:to=       MA       Enter the same text used in the <daoloc> element's LABEL attribute, such as "image".       19         xlink:show="embed"       MA       Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.       19         xlink:actuate="onLoad"       MA       Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).       18         <phystech>       Opt; not repeatable       See the Tag Library for information on this element.       203       4.</phystech></daoloc>					
attribute, such as "image".    Xlink:show="embed"   MA   Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.    Xlink:actuate="onLoad"   MA   Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).    Image in a new window, or embeds the image within the finding aid document.    See the Tag Library for information on this element.   203   4.	xlink·to=	MA		19	
xlink:show="embed" MA Determines whether the digital image replaces the current window, opens the image in a new window, or embeds the image within the finding aid document.  xlink:actuate="onLoad" MA Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).  opt; not repeatable See the Tag Library for information on this element. 203 4.		"""		1/	
opens the image in a new window, or embeds the image within the finding aid document.    Xlink:actuate="onLoad"   MA   Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).    Image in a new window, or embeds the image within the finding aid document.    See the Tag Library for information on this element.   203   4.	xlink:show="embed"	MA		19	
skink:actuate="onLoad" MA Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).    Aphystech	Mink.snow – chioca	1/111		1/	
xlink:actuate="onLoad" MA Determines whether the image is displayed automatically when the finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).  yhystech> Opt; not repeatable See the Tag Library for information on this element. 203 4.		1			
finding aid file is opened (loaded) or must be opened by the user (by clicking on specific text).  yhystech> Opt; not repeatable See the Tag Library for information on this element. 203 4.	-1:-1	3/1/4		10	
(by clicking on specific text). <b>opt</b> ; not repeatable See the Tag Library for information on this element. 203 4.	xiink:actuate="onLoad"	MA		18	
<b>Opt</b> ; not repeatable See the Tag Library for information on this element. 203 4.					
repeatable				202	40
	<phystech></phystech>	* ·	See the Tag Library for information on this element.	203	4.2; 4.3
<b>coriginalsloc&gt;</b> Opt; not repeatable See Tag Library for information on this element. 187-188 6.	<originalsloc></originalsloc>		See Tag Library for information on this element.	187-188	6.1

Elements and Attributes Elements are surrounded by		Comments/Application Notes	Tag Library	DACS
angle brackets and rendered in boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best practice Opt=Optional		
    	MA; repeatable	Provides researcher with background and context information pertaining to record creator(s) or collector(s).	55-56	2.7; Ch. 10
		If the biographical or historical information is provided in narrative form, the text must be enclosed in paragraph  tags.  is repeatable.		
		If more than one bioghist> element is needed (e.g., the collection was created by more than one entity), use a separate bioghist> element for each creator, but next them inside a "wrapper" bioghist> element.		
		<pre><biody> </biody></pre> <pre><biody> <pre><biody> <pre><biody> <pre></pre> <pre><biody> <pre></pre> <pre><biody> <pre></pre> /biody></pre></biody></pre></biody></pre></biody></pre></biody></pre>		
encodinganalog="description"	Rec	In order to distinguish a biographical note (biographical information about a person or family who created the papers) from a historical note (background information on the organization or agency that created the records), this attribute may be used to record the MARC value for one or the other. A value of "5450_"		
		indicates a biographical note. A value of "5451_" indicates an historical note.		
<head></head>	Rec; repeatable	MARC 21: "5450_  5451_".  In order to distinguish a biographical note (biographical information about a person or family who created the papers) from a historical note (background information on the organization or agency that created the records), the <head> element may be used inside <bioghist> to record the appropriate heading. Use "Biographical Note" to indicate that the note contains biographical information. Use "Historical Note" to indicate that the note contains information about an organization.</bioghist></head>		
		Repeatable only if more than one  dioghist> element is used.		
<scopecontent></scopecontent>	Req; not repeatable	Provides the researcher with a general description of the document types and formats, as well as the topical range and content of the collection.	229-231	3.1
	Rec	Text should be enclosed in paragraph  tags;  is repeatable MARC 21: "5202_".		
encodinganalog="description"	0		107.106	7.1.0
<odd></odd>	Opt; repeatable	Use for general notes that are not appropriate in more specific elements. The text of the note(s) is enclosed in repeatable tags. A possible use of <odd>: If a legacy finding aid combines <bioghist> and <scopecontent> information, the text could be placed inside <odd>. However, CCLA strongly recommends that consortium members use more specific note elements whenever possible.</odd></scopecontent></bioghist></odd>	185-186	7.1.2
		Do not confuse with <note> which may be used to provide a short comment, such as citing the source of a quotation or justifying an assertion. <odd> is intended for information that is more than a short comment.</odd></note>		
		While <odd> is repeatable, best practice is to nest a separate element for each general note inside a single <odd> element. The exception is when a specific <odd> note must be identified in the TYPE attribute.</odd></odd></odd>		
		Finding aids for photographs or other collections sometimes include essay-like contextual or interpretive notes that belong in		

Elements and Attributes Elements are surrounded by	Status	Comments/Application Notes	Tag Library	DACS
angle brackets and rendered		Req=Required		
in boldface		MA=Mandatory if applicable		
		Rec=Recommended best practice		
		Opt=Optional		
		neither bioghist> or <scopecontent> because they describe neither</scopecontent>		
		the creator of the collection nor the contents of the collection.		
		Example: A brief essay on the history of Japanese internment		
		camps in the Northwest in a personal collection of photographs of a Japanese internment camp in Utah. <odd> may be used to</odd>		
		accommodate such notes. Enter "hist" into the <odd> TYPE</odd>		
		attribute to specify that this is a contextual/interpretative note.		
		For other general notes, a nested < head> element containing a brief heading clarifying the contents of the note may be provided, but only if the note is needed.		
encodinganalog="description"	Rec	MARC 21: "500".		
<head></head>	Opt; repeatable	If needed to clarify the contents of the <odd> note, provide the</odd>	154	
	opi, repeatable	heading here. Provide a heading only if the contents of the <odd> note would be unclear without it. One <head> may be used with each <odd>.</odd></head></odd>	10.	
<arrangement></arrangement>	MA; not	Provides information about the arrangement of the collection (into	46-47	3.2
J	repeatable	series, for example) and/or the filing sequence of the material (alphabetical, chronological, etc.).		
		<arrangement>Arranged in two series: 1. Correspondence</arrangement>		
		(chronological); 2. Subject files (alphabetical by		
		topic).		
	Rec	Text should be enclosed in paragraph  tags;  is repeatable.  MARC 21: "351".		
encodinganalog="description"	Rec	WARC 21. 331 .		
<pre><fileplan></fileplan></pre>	Opt; not	See the Tag Library for information on this element.	144-145	4.6
<meptan></meptan>	repeatable	See the Tag Library for information on this element.	144-143	4.0
<altformavail></altformavail>	Rec; not	Provides researchers with information about alternative formats	35-36	6.2
	repeatable	available, such as microfilm or digital versions. If the whole collection or some of its contents have been digitized, use <daogrp>.</daogrp>		
		Text should be enclosed in paragraph  tags;  is repeatable.		
encodinganalog="relation"	Rec	MARC 21: "530".		
<accessrestrict></accessrestrict>	Req; not repeatable	Provides researchers with information about conditions governing access. If there are no restrictions on access, repositories are	28-29	4.1; 4.2
		strongly encouraged to a make a statement to that effect, such as: "Open to public research."		
**		Text should be enclosed in paragraph  tags;  is repeatable.		
encodinganalog="rights"	Rec	MARC 21: "506".	450	
<legalstatus></legalstatus>	Opt; not repeatable	See the Tag Library for information on this element.	170	4.1
<userestrict></userestrict>	MA; not	Provides information about copyright status or other conditions	259-260	4.4
	repeatable	that affect the use of a collection after access has been provided. In		
		addition to copyright status, this may include limitations or special		
		considerations imposed by the repository, donor, legal statute, or		
		other agency regarding reproduction, publication, or quotation of		
		the described materials. If no use restrictions have been placed on the collection, repositories are strongly encouraged to state that fact		
		in <userestrict>.</userestrict>		
encodinganalog="rights"	Rec	Text should be enclosed in paragraph  tags;  is repeatable.  MARC 21: "540".		
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Rec; not	Provides researcher with a preferred format for identifying or citing	204-205	7.1.5
\picici ciic>	repeatable	the described materials.	207-203	1.1.3
		Text should be enclosed in paragraph  tags;  is repeatable.		
		MARC 21 encodinganalog="524".	1	

Elements are surrounded by		Comments/Application Notes	Tag Library	DACS
angle brackets and rendered in boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best practice		
		Opt=Optional		
<custodhist></custodhist>	Rec; not repeatable	Provides researcher with information about the provenance or chain of ownership of material being described, before they reached the holding repository.	88-89	5.1
		Text should be enclosed in paragraph  tags;  is repeatable.		
		MARC 21 encodinganalog="561".		
<acqinfo></acqinfo>	MA; not	Identifies the immediate source from which the described materials	31-32	5.2
	repeatable	were acquired by the repository. Includes the date(s) and method(s) of acquisition, along with any non-confidential information deemed useful by the repository.		
		Text should be enclosed in paragraph  tags;  is repeatable.		
		MARC 21 encodinganalog="541".		
<accruals></accruals>	Opt; not repeatable	Provides researchers with information about anticipated additions to materials being described.	30	5.4
		Text should be enclosed in paragraph  tags;  is repeatable.		
		MARC 21 encodinganalog="584".		
<pre><pre><pre><pre>ocessinfo&gt;</pre></pre></pre></pre>	Rec; not	Provides researchers with information about processing actions	206	8.1
· p-seessing.	repeatable	such as accessioning, organizing, describing, preserving, and storing the described materials for research use.		
		<pre><pre><pre><ppersessed; 2007;="" cory="" february="" nimer.<="" p=""></ppersessed;></pre>/processinfo&gt;</pre></pre>		
		Text should be enclosed in paragraph  tags;  is repeatable.		
		MARC 21 encodinganalog="583".		
<separatedmaterial></separatedmaterial>	Rec; not repeatable	Provides researchers with information on materials that have been physically separated or removed.	232-233	6.3
		Text should be enclosed in paragraph  tags;  is repeatable.		
		MARC 21 encodinganalog="5440_".		
  dibliography>	Opt; not repeatable	Provides researchers with citations to works that are based on or considered highly relevant to the materials being described. Use the <i>Chicago Manual of Style</i> to formulate bibliographic entries.	50-51	6.4
		Inside bibliography> a bibliographic entry may be tagged in a simple paragraph  element.		
		MARC 21 encodinganalog="510   581".		
<otherfindaid></otherfindaid>	Rec; not	Provides researchers with information about additional or	191-192	4.6
	repeatable	alternative guides to the described materials (e.g., creator generated lists, indexes, etc.)		
		Text should be enclosed in paragraph  tags;  is repeatable.		
		MARC 21 encodinganalog="555".		
<relatedmaterial></relatedmaterial>	Rec; not repeatable	Provides researchers with information about additional materials that are associated to the collection but not related by provenance.  The related material may be held in other institutions.	219-220	6.3
encodinganalog="relation"	Rec	MARC 21: "5441_".		
<appraisal></appraisal>	Rec; not repeatable	Provides researchers with information about the process used to determine the archival value and thus the disposition of records based upon their current administrative, legal, and fiscal use; their evidential, intrinsic, and informational value; their arrangement and condition; and their relationship to other records. CCLA strongly	37-38	5.3
		encourages consortium members to identify what portion of their collecting policy justifies the acquisition of materials and how the		

Req=Required MA=Mandatory if applicable Rec=Recommended best practice Opt=Optional materials meet the collecting policy guidelines. A wrapper element that designates key access points, preferably taken from a controlled vocabulary or list, for the materials described in the finding aid. CCLA strongly encourages consortium members to use <controllaccess> elements in their finding aid. CSL As tongly encourages consortium members to use <controllaccess> elements in their finding aid. CSL or finding aid. CSL or finding aid. CSL or finding aid. CSL or finding aid.  • To indicate a personal, family, corporate, or place name with major representation in the materials being described. Names may represent either contributors to the collection (in addition to the creator(s) named in <ol> <li>origination-) or subjects of the collection.</li> <li>To indicate major topics, occupations, functions, or described titles included or associated with a collection.</li> <li>Assign as many controlled access points as needed to represent the names, topics, places, etc. that are determined to be significant in the collection using <controlled <controlled="" access="" appropriate="" as="" by="" caces="" double="" each="" element.<="" enclosed="" fields="" headed="" hyphens="" in="" its="" li="" needed,="" or="" segment="" separated="" the="" with="" within="" wrapper=""> <li>With the exception of a period needed for an initial in a personal or corporate name, do not end a controllaccess&gt;-elabel with a period.</li> <li>Use one <controllaccess>-element as a wrapper for all access points, with optional, additional </controllaccess></li> <li>controllaccess&gt;-element as a wrapper for all access points, with optional, additional </li> <li>controllaccess&gt;-element as a wrapper for all access points, with optional, additional </li> <li>controllaccess&gt;-element as a wrapper for all access terms include cyeramane, <fra>-elabely controllaccess&gt;-element as a wrapper for all access terms include cyeramane, <fra>-element as a wrapper for all acc</fra></fra></li></controlled></li></ol></controllaccess></controllaccess>	Elements and Attributes Elements are surrounded by		Comments/Application Notes	Tag Library	DACS
Rec-Recommended best practice OptOption  materials meet the collecting policy guidelines.  A wrappre element that designates key access points, preferably taken from a controlled vocabulary or list, for the materials described in the finding aid. CLCL strongly encourages consortium members to use <controllaccess> elements in their finding aids:  • To indicate a personal, family, corporate, or place name with major representation in the materials being described. Names may represent either contributors to the collection (in addition to the creator()) named in <corporation-openitory <controllaccess="" access="" are="" as="" assign="" be="" collection="" collection.="" contributors="" controlled="" described.="" determined="" either="" etc.="" functions,="" in="" indicate="" major="" many="" may="" names="" names,="" needed="" occupations,="" or="" places,="" points="" represent="" significant="" that="" the="" to="" topics,="" using="" •=""> fields within the wrapper <controllaccess> element.  With the exception of a period needed for an initial in a personal or corporate name, do not end a controlled access heading with a period.  In addition, assigning at least one narrow and one broad CCLA browsing term (encoded in <controllaccess>-staglect source= 'cal' &gt;) is required.  Use one <controlaccess> element as a wrapper for all access points, with optional, additional <controlled <pre="" access="" include="" terms="">cpriod Use one <controlaccess>-element as a wrapper for all access points, with optional, additional  controlaccess&gt;-controlaccess&gt;-controlaccess&gt; tags nested inside for each subtivited access point. Types of controlled access terms include <pre>priod</pre> Use one <controlaccess>-controlaccess&gt; terms for standard roles when establishing new controlled access terms include <pre>priod</pre> Institutions should use standard sources for name and subject headings, youny <pre>controlaccess&gt; terms</pre> Institutions should use standard sources for form/genre vocabulary, the SOURCE attribute s</controlaccess></controlaccess></controlled></controlaccess></controllaccess></controllaccess></corporation-openitory></controllaccess>	•			•	
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When a name, subject, or form/genre heading is taken from a standard name authority source, or a subject or form/genre vocabulary, the SOURCE attribute should contain the standard abbreviation for the source. For names, this is usually lcnaf (LC Name Authority File). For subjects, generally use lcsh (Library of Congress Subject Headings). For other headings use lcsh (Library of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Institutions should use standard sources for name and subject headings when assigning controlled access terms, or standard rules when establishing new controlled access names and terms.  When a name, subject, or form/genre heading is taken from a standard name authority source, or a subject or form/genre vocabulary, the SOURCE attribute should contain the standard abbreviation for the source. For names, this is usually lcnaf (LC Name Authority File). For subjects, generally use lcsh (Library of Congress Subject Headings). For other headings use lcsh (Library of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;headings when assigning controlled access terms, or standard rules when establishing new controlled access names and terms.  When a name, subject, or form/genre heading is taken from a standard name authority source, or a subject or form/genre vocabulary, the SOURCE attribute should contain the standard abbreviation for the source. 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For other headings use lcsh (Library of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;when establishing new controlled access names and terms.  When a name, subject, or form/genre heading is taken from a standard name authority source, or a subject or form/genre vocabulary, the SOURCE attribute should contain the standard abbreviation for the source. For names, this is usually lcnaf (LC Name Authority File). For subjects, generally use lcsh (Library of Congress Subject Headings). For other headings use lcsh (Library of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.  If the name heading or subject term is not found in a standard&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;l ·&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;When a name, subject, or form/genre heading is taken from a standard name authority source, or a subject or form/genre vocabulary, the SOURCE attribute should contain the standard abbreviation for the source. For names, this is usually lcnaf (LC Name Authority File). For subjects, generally use lcsh (Library of Congress Subject Headings). For other headings use lcsh (Library of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.  If the name heading or subject term is not found in a standard&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;standard name authority source, or a subject or form/genre vocabulary, the SOURCE attribute should contain the standard abbreviation for the source. For names, this is usually lcnaf (LC Name Authority File). For subjects, generally use lcsh (Library of Congress Subject Headings). For other headings use lcsh (Library of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.  If the name heading or subject term is not found in a standard&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;when establishing new controlled access hallies and terms.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;standard name authority source, or a subject or form/genre vocabulary, the SOURCE attribute should contain the standard abbreviation for the source. For names, this is usually lcnaf (LC Name Authority File). For subjects, generally use lcsh (Library of Congress Subject Headings). For other headings use lcsh (Library of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.  If the name heading or subject term is not found in a standard&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;When a name, subject, or form/genre heading is taken from a&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;abbreviation for the source. For names, this is usually lcnaf (LC Name Authority File). For subjects, generally use lcsh (Library of Congress Subject Headings). For other headings use lcsh (Library of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.  If the name heading or subject term is not found in a standard&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;standard name authority source, or a subject or form/genre&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Name Authority File). For subjects, generally use lcsh (Library of Congress Subject Headings). For other headings use lcsh (Library of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.  If the name heading or subject term is not found in a standard&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Congress Subject Headings). For other headings use lcsh (Library of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.  If the name heading or subject term is not found in a standard&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;of Congress Subject Headings), aat (Art &amp; Architecture Thesaurus), or other thesauri.  If the name heading or subject term is not found in a standard&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Thesaurus), or other thesauri.  If the name heading or subject term is not found in a standard&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Teste and besting an artistation in the contraction of the contraction&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;source, do the following.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;ē ,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;source, do the following.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Leave the SOURCE attribute blank&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Leave the SOURCE attribute blank&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Construct a name heading following an established&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;content standard such as DACS or AACR2&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;content standard such as DACS or AACR2&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;For a subject or form/genre heading, follow the&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;guidelines for constructing new terms in a standard such&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;as the Art &amp; Architecture Thesaurus (AAT)  • Use the RULES attribute to indicate the content&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Use the RULES attribute to indicate the content standard by which the name heading or term is&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;td&gt;• Use the KULES attribute to indicate the content&lt;/td&gt;&lt;td&gt;1&lt;/td&gt;&lt;td&gt;I&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title></function></occupation></qeoreterm></subject></subject></geogname></corpname></famname></personame></controlaccess></controlaccess>					

Elements and Attributes  Elements are surrounded by		Comments/Application Notes	Tag Library	DACS
angle brackets and rendered in boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best practice		
		Opt=Optional		
		constructed (e.g., "lcsh", "dacs", "aat", etc.)		
		If the term is not constructed according to an		
		established content standard, encode the RULES		
		attribute value as "local"		
		For instructions on assigning CCLA browsing terms, see under <subject> CCLA browsing terms below.</subject>		
encodinganalog="subject	Rec	Use subject if the access point represents a subject of the		
contributor   type   coverage"		collection. Use contributor if the access point is the name of a		
		contributor. Use coverage for geographically focused access points. Use type for headings describing the physical format or		
		content of the materials (genre/form headings). If a name functions		
		as both a contributor and a subject of a collection, prepare two		
		<controlaccess><persname> entries for that individual: one with</persname></controlaccess>		
		encodinganalog="subject" to denote the person as a subject, the		
		other with encodinganalog="contributor" to indicate the person as		
		one of the creators of the collection. Do not list the main creator of the collection in both <origination> and <controlaccess>.</controlaccess></origination>		
		the concetion in both conginations and controllecesss.		
		MARC 21: "600   610   611   630   650   655   656   657   700   710   711   730   740".		
<pre><persname></persname></pre>	MA; repeatable	Access terms related to personal names representing significant	195-196	2.6; Ch.
		subject(s) and/or contributor(s) of the collection. Provide one or more <persname> elements.</persname>		9, 12
		•		
		Use the form of the name(s) located in a standard authority file,		
		such as Library of Congress Name Authority File or establish the		
		name according to a content standard such as DACS.		
		Controlled subheadings may be added as needed, with each		
		segment separated by double hyphens. Do not end the heading		
		with a period.		
		Optionally, controlled subheadings may be added as needed, with		
		each segment enclosed in the appropriate element (use of double hyphens to separate subheadings is not allowed) within a separate		
		controlaccess> tag. With the exception of a period needed for an		
		initial in a personal name ending, do not end a personal name		
		heading with a period.		
		<controlaccess><persname <="" source="lcnaf" td=""><td></td><td></td></persname></controlaccess>		
		encodinganalog="subject">Cluff, Benjamin, 1858-1948		
		Archives		
		or		
		<pre><controlaccess encodinganalog="subject"></controlaccess></pre>		
		source="lcnaf">Cluff, Benjamin, 1858-		
		1948 <genreform< td=""><td></td><td></td></genreform<>		
		source="lcsh">Archives		
source=	MA	Use "Icnaf" if the name is established in the LC Name Authority		
		File. Use the appropriate abbreviation or code for any other authority from which the heading is taken. If the name does not		
		appear in an authority file, leave blank, and use the RULES		
		attribute to indicate how the name is established.		
rules=	MA	If there is no name authority record available for a particular name,		
		establish the name heading and use "dacs" or "aacr2" to indicate		
		that the name has been formulated according to DACS or AACR2 rules. If the form of the name is not based on a content standard		
		such as DACS or AACR2, use "local" instead.		
		If the name is taken from a standard name authority file, leave the		
		RULES attribute blank and identify the name authority source in		

Elements and Attributes Elements are surrounded by		Comments/Application Notes	Tag Library	DACS
angle brackets and rendered		Req=Required	Library	
in boldface		MA=Mandatory if applicable		
		Rec=Recommended best practice		
		Opt=Optional		
role=	Opt	If the ENCODINGANALOG for the <controlaccess> element is</controlaccess>		
	1	set to "contributor", ROLE may be used to identify the nature of		
		the person's contribution. Terms may be selected from the MARC		
		Relator Term list at the Library of Congress. Do not enter a role		
		value if the <controlaccess> ENCODINGANALOG is "subject".</controlaccess>		
<famname></famname>	MA; repeatable	Access terms related to family names. Use one or more	140-141	2.6; Ch.
		<famname> elements to represent significant subject(s) and/or contributor(s) of the collection.</famname>		9; 12.29
		Establish the name according to DACS. State the family surname		
		followed by the word "family." Use the form of the name by		
		which the family is commonly known.		
		which the family is commonly known.		
		Controlled subheadings may be added as needed, with each		
		segment separated by double hyphens or, optionally, enclosed in		
		the appropriate element to separate subheadings. Do not end the		
		heading with a period.		
		<pre><controlaccess><famname <="" pre="" rules="dacs"></famname></controlaccess></pre>		
		encodinganalog="subject">Hinckley family		
		Archives		
		7 Hemves \ Idimidile \ \ Controllecess		
		or		
		<pre><controlaccess encodinganalog="subject"><famname< pre=""></famname<></controlaccess></pre>		
		rules="dacs" > Hinckley family <genreform< td=""><td></td><td></td></genreform<>		
		source="lcsh">Archives		
source=	MA	Leave blank and use the rules attribute to indicate that the form of		
		the name follows DACS rules.		
rules=	MA	Use "dacs" to indicate that the name has been formulated according		
role=	Opt	to DACS.  If the ENCODINGANALOG for the <controlaccess> element is</controlaccess>		
roie=	Орг	set to "contributor", ROLE may be used to identify the nature of		
		the person's contribution. Terms may be selected from the MARC		
		Relator Term list at the Library of Congress. Do not enter a role		
		value if the <controlaccess> ENCODINGANALOG is "subject".</controlaccess>		
<corpname></corpname>	MA; repeatable	Used for access terms related to corporate and conference names	85-86	2.6, Ch.
seor priminer	, <u></u>	representing significant subject(s) and/or contributor(s) of the		9, Ch. 14
		collection.		,
		Controlled subheadings may be added as needed, with each		
		segment separated by double hyphens. Optionally, controlled		
		subheadings may be enclosed in the appropriate element. With the		
		exception of a period needed for an initial in a corporate name		
		heading, do not end a corporate name with a period.		
		<pre><controlaccess><corpname <="" pre="" source="lcnaf"></corpname></controlaccess></pre>		
		encodinganalog="subject">Brigham Young		
		University		
source=	MA	Use "lcnaf" if the name is established in LC Name Authority File.		
		Use appropriate abbreviation or code for any other authority from		
		which the heading is taken. Leave blank if the name does not		
		appear in an authority file and use the RULES attribute to indicate		
		how the name is established.		
rules=	MA	Use "dacs" or "aacr2" to indicate how the name was formulated.		
role=	Opt	If the ENCODINGANALOG for the <controlaccess> element is</controlaccess>		
		set to "contributor", ROLE may be used to identify the nature of		
		the person's contribution. Terms may be selected from the MARC		
		Relator Term list at the Library of Congress. Do not enter a role		
	361	value if the <controlaccess> ENCODINGANALOG is "subject".</controlaccess>	150 150	GL 12
<geogname></geogname>	MA; repeatable	Access terms related to places, natural features, or political jurisdictions. Use one or more <geogname> tags.</geogname>	152-153	Ch. 13

Elements and Attributes Elements are surrounded by		Comments/Application Notes	Tag Library	DACS
angle brackets and rendered		Req=Required		
in boldface		MA=Mandatory if applicable		
		Rec=Recommended best practice Opt=Optional		
	+	Controlled subheadings may be added as needed, with each		
		segment separated by double hyphens. Optionally, controlled		
		subheadings may be enclosed in the appropriate element.		
		suchedungs may be enclosed in the appropriate element.		
		<pre><controlaccess><geogname <="" pre="" source="lcnaf"></geogname></controlaccess></pre>		
		encodinganalog="coverage">United StatesForeign relations		
		19th century		
		or		
		<pre><controlaccess encodinganalog="coverage"><geogname< pre=""></geogname<></controlaccess></pre>		
		source="lcnaf">United States <subject< td=""><td></td><td></td></subject<>		
		source="lcsh">Foreign relations <subject source="lcsh"&gt;19th century</subject 		
source=	MA	Use "Icnaf" if the name is established in the LC Name Authority		
Source—	171/1	File. Use "lcsh" if the name is established in LCSH. Use the		
		abbreviation or code for any other authority under which a heading		
		is taken. If the name is not established, leave blank.		
rules=	MA	If there is no authority record available for a particular place,		
		feature, or jurisdiction name, use "scm" to indicate that the name		
		has been formulated according to the LC Subject Cataloging		
		Manual.		
<subject></subject>	MA; repeatable	Access terms related to topics. Use one or more <subject> tags.</subject>	237-238	
		Controlled subheadings may be added as needed, with each		
		segment separated by double hyphens. Optionally, controlled		
		subheadings may be enclosed in the appropriate element.		
		<controlaccess><subject <="" source="lcsh" td=""><td></td><td></td></subject></controlaccess>		
		encodinganalog="subject">Japanese Americans—Evacuation and		
		relocation, 1942-1945		
		or		
		<pre><controlaccess encodinganalog="subject"><subject< pre=""></subject<></controlaccess></pre>		
		source="lcsh">Japanese Americans <subject< td=""><td></td><td></td></subject<>		
		source="lcsh">Evacuation and relocation, 1942-		
		1945		
source=	MA	CCLA recommends that repositories use LCSH as the source of		
		subject headings used in finding aids; set SOURCE to "lcsh".		
		Institutions that participate in the Library of Congress SACO		
		Institutions that participate in the Library of Congress SACO program may propose a new heading for inclusion in LCSH if		
		needed. If the term is approved, use it in the <subject> element</subject>		
		and set the SOURCE to "lcsh".		
rules=		Leave blank.		
<subject> CCLA</subject>	Req; repeatable	To facilitate browsing of collections included in the CCLA union		
browsing terms		database, encoders should add topical "browsing" terms as		
		appropriate to the materials described. Only use terms included on		
		the list of CCLA browsing terms. Assign terms that represent		
		important topics in the collection.		
		As appropriate to the intellectual content of the described		
		As appropriate to the intellectual content of the described materials, assign at least one narrow CCLA browsing term, along		
		with its broader parent term, to the finding aid. More terms may be		
		assigned as needed. When a narrow term is assigned, its broad		
		parent term must also be assigned. If several terms from one broad		
		category are assigned, it is only necessary to assign the parent term		
		once.		
		Use the SOURCE attribute to distinguish a broad term from a		
		narrow term: For a broad term, enter "cclabroad" in the SOURCE		
		attribute, and for a narrow term, enter "cclanarrow" in the		

Elements and Attributes Elements are surrounded by		Comments/Application Notes	Tag Library	DACS
angle brackets and rendered		Req=Required	Librar y	
in boldface		MA=Mandatory if applicable		
		Rec=Recommended best practice		
		Opt=Optional SOURCE attribute.		
		SOURCE attribute.		
		The assigned CCLA browsing terms included with other access		
		points in a <controlaccess> wrapper. Optionally, each term may be</controlaccess>		
		nested inside separate <controlaccess> wrapper elements. Note that</controlaccess>		
		all CCLA browsing terms are placed in < subject>, even geographic		
		and occupation terms. Do not use subheadings. Do not end with a period.		
		<pre><controlaccess><subject <="" altrender="nodisplay" pre="" source="cclabroad"></subject></controlaccess></pre>		
		encodinganalog="subject">Agriculture <subject< td=""><td></td><td></td></subject<>		
		altrender="nodisplay" source="cclanarrow"		
		encodinganalog="subject">Ranching		
		or		
		<pre><controlaccess encodinganalog="subject"><subject< pre=""></subject<></controlaccess></pre>		
		altrender="nodisplay" source="cclabroad" >Church of Jesus Christ		
		of Latter-day Saints <controlaccess< td=""><td></td><td></td></controlaccess<>		
		encodinganalog="subject"> <subject <="" altrender="nodisplay" td=""><td></td><td></td></subject>		
		source="cclanarrow" > Missions and Missionaries		
altrender="nodisplay"	Req	The browsing terms are not displayed in the finding aid; rather,		
1 2	•	they appear on the CCLA website as browsing headings under		
		which are grouped all of the collections that include materials		
	_	significant to that topic.		
source="cclabroad   cclanarrow"	Req	For each broad term assigned, enter "cclabroad" and for each narrow term assigned, enter "cclanarrow."		
rules=		Leave blank.		
<genreform></genreform>	Rec; repeatable	Access terms related to genre or form terms. Use one or more	150-151	
'gem crorm'	rece, repeatable	<genreform> tags to list major genres and/or forms of material</genreform>	150 151	
		represented in the materials described.		
		Controlled subheadings may be added as needed, with each		
		segment separated by double hyphens. Optionally, controlled subheadings may be enclosed in the appropriate element.		
		subheadings may be encrosed in the appropriate element.		
		<pre><controlaccess><genreform <="" pre="" source="aat"></genreform></controlaccess></pre>		
		encodinganalog="type">Reports		
source=	Rec	Encode appropriate code for source found in the Library of		
rulec-		Congress' <i>Term, Name, and Title Sources</i> Code List.  Leave blank.		
rules= <occupation></occupation>	Rec; repeatable	Access terms related to types of work or professions. Use one or	183-184	
soccupunon/	1.cc, repeatable	more <occupation> tags.</occupation>	100 104	
		Controlled subheadings may be added as needed, with each		
		segment separated by double hyphens. Optionally, controlled subheadings may be enclosed in the appropriate element.		
		such caurings may be enclosed in the appropriate element.		
		<controlaccess><occupation <="" source="lcsh" td=""><td></td><td></td></occupation></controlaccess>		
		encodinganalog="subject">College teachers		
	 	Utah		
source=	Rec	Encode appropriate code for source found in the Library of Congress' <i>Term, Name, and Title Sources</i> Code List.		
rules		Leave blank.		
- 4100	Rec; repeatable	Access terms related to spheres of activity and/or processes that generated the described materials.	148-149	
<function></function>				
<function></function>				
<function></function>		Controlled subheadings may be added as needed, with each		
<function></function>		Controlled subheadings may be added as needed, with each segment separated by double hyphens. Optionally, controlled subheadings may be enclosed in the appropriate element.		

Elements and Attributes Elements are surrounded by	Status	Comments/Application Notes	Tag Library	DACS
angle brackets and rendered in boldface		Req=Required MA=Mandatory if applicable Rec=Recommended best practice Opt=Optional	22.02.41.3	
		<pre><controlaccess><function encodinganalog="subject" source="aat">PlanningCities and towns</function></controlaccess></pre>		
source=	Rec	Encode appropriate code for source found in the Library of Congress' <i>Term, Name, and Title Sources</i> Code List.		
rules=		Leave blank.		
<title>&lt;/td&gt;&lt;td&gt;MA; repeatable&lt;/td&gt;&lt;td&gt;Access terms related to titles of published works to which a collection is related, such as monographs, serials, or paintings represented prominently in the collection.  &lt;controlaccess&gt;&lt;title source="lctah" encodinganalog="subject"&gt;Provo daily herald</title>	246-247			
source=	MA	Use "Ictah" when a title is established in LC Title or LC Name Authority Headings file. Use abbreviation or code for any other authority from which heading is taken. If a title is not established, leave blank.		
rules=	MA	Use "aacr2" if the title is not taken from an authorized source as described above, but is formulated according to AACR2.		

Although not required for CCLA core finding aids, if an inventory (i.e., container list) will be encoded as part of the finding aid, observe the guidelines in Table 3, below.

**Table 3: <dsc> (Component Hierarchy)** 

Elements and Attributes Elements are surrounded by angle brackets and	Status	Comments/Application Notes	Tag Library	DACS
rendered in boldface		Req=Required		
		MA=Mandatory if applicable Rec=Recommended best practice		
		Opt=Optional		
<dsc></dsc>	Req; not	A wrapper element that bundles	109-113	
	repeatable	information about the hierarchical		
		arrangement of the materials being		
		described. The <dsc> element surrounds all other (subordinate) elements in the</dsc>		
		Description of Component Parts section of		
		the finding aid. A single <dsc> should be</dsc>		
		used with nested components in which		
		descriptions for series, subseries, items, and otherlevel (as reflected in the intellectual		
		arrangement of the collection) are placed at		
		the appropriate level in the component		
		hierarchy.		
type="combined   analyticover   in-depth"	Req	While CCLA does not prescribe a		
		particular type of component part presentation, it strongly encourages		
		repositories to use the "combined"		
		approach, where each major subdivision is		
		described and immediately followed by a		
		container list at one or more narrower levels. "Combined" facilitates stylesheet		
		manipulation of multi-level finding aids.		
		For finding aids that include a narrative		
		description of major subdivisions, such as series and subseries, but that lack an item-		
		level container list, use "analyticover."		
		le ver communer rist, use unary uses ver		
		For finding aids that lack any major		
		subdivisions and consist only of a high-		
		level description followed by an item-level container list, use "in-depth".		
<c0x></c0x>	Req;	Encoders must use number ( <c01> through</c01>	61-62	
	repeatable	<c12>) component elements.</c12>		
		Noted (compared and decorated		
		Nested <c0x>s should be used as needed to reflect the intellectual structure of the</c0x>		
		archival materials.		
			1	
		The full suite of subelements and attributes		
		described are available at each component level (e.g., all elements described in Table		
		2, top-level <archdesc> elements, may be</archdesc>	1	
		used as needed in each component	1	
level the condens to the control of the control of	D.	described in <dsc>).</dsc>		Ch 1
level="recordgrp   collection   subgrp   series   subseries   file   item   otherlevel"	Req	CCLA has defined the following levels, as reflected in the arrangement of the	1	Ch. 1
subscries   me   nem   omenever		collection: "subgrp", "series", "subseries",	1	
or		"file", and "item". Use one of these terms		
		for each level of the $\langle c0x \rangle$ structure.	1	
otherlevel="accession   sub-subseries   sub-file"		A level designation of "subseries" or "file"	1	
		may be repeated in a subsequent <c0x>;</c0x>		
		i.e., it is acceptable to nest a subseries		
		within a subseries, or a file within a file.		
		Encoders may simply repeat the term		
		"subseries" or "file" in the nested LEVEL attribute, or they may add the prefix "sub"		

		to either term ("sub-subseries" or "sub-		
		file"). If the prefix is used, however, the attributes must be encoded as follows:		
		<c04 level="otherlevel" otherlevel="sub-&lt;br&gt;subseries"></c04>		
<did></did>	Req; not repeatable	A required wrapper element that bundles other elements identifying core information about the described materials.	103-105	
<unitid></unitid>	MA; not repeatable	Unique identities should be encoded as <unitid> rather than <container> or <unititle>. (e.g., <unitid>Series X</unitid>).</unititle></container></unitid>	255-256	2.1.3
encodinganalog="identifier"	Rec	MARC 21: "099".		
<container></container>	MA, repeatable	Information about containers (usually types of containers and container numbers) should be given at the file and/or item levels (the lowest level of a hierarch), even if doing so results in repetition of container information in multiple file-level or item-level entries. Do not assume that container information given at a higher level will be inherited by lower levels. If a series, for example, contains multiple file-level entries, provide <container> information for each of the file-level entries. In finding aids that contain only higher-level component descriptions, such as series or subseries-level data, however, container information may be provided at the appropriate broader level.  As needed, two or three <container> elements may be used in a given <c0x> entry. For guidance on encoding complex container information, see the TYPE attribute below.</c0x></container></container>	80-82	2.5
type=	MA	Use of the TYPE attribute is mandatory if applicable to identify the type of physical container(s) used to house the collection.  Use any of the following designations, such as: "box", "carton", "folder", "box-folder", "reel", "frame", "oversize", reel-frame", "volume", "album", "page", "map-case", "folio", or "verticalfile".  In determining whether to use one or two <container> elements in a given <c0x> entry, use the following rule of thumb. All data of the same TYPE should be entered in a single <container> element. It is also acceptable to enter two types of container data into a single <container> element. For example, a repository may elect to record "box" and "folder" information in two separate <container> elements, each one containing a different container type:  <container type="box">8</container></container>   Or both types may be combined in a single <container> element using a combination term such as "box-folder":   <container type="box-folder">8/8-10</container> <container type="box-folder">8/8-10</container></container></container></container></c0x></container>		
		However, do not use two <container> elements for information of the same</container>		

		TYPE, even to record complex information. Rather, enter the complex information into a single <container> element. In the following example, the material described is contained in box 4, folder 10 through box 6, folder 3.  Acceptable:  <container type="box-folder">4/10-6/3</container> Or <container type="box-folder">4/10-15, 6/1-3</container> Or <container type="box-folder">4/10-15 to 6/1-3</container>  But not: <container type="box-folder">4/10-15</container></container>		
		<pre><container type="box-folder">6/1- 3</container></pre>		
<origination></origination>	MA; not repeatable	Mandatory if creator at level being described is different than defined at the <archdesc> or in a parent level.</archdesc>	189-190	2.6; Ch. 9
<pre><persname>   <famname>   <corpname>   <name></name></corpname></famname></persname></pre>	MA; repeatable	<persname>: Proper name of an individual (lastname, firstname—Smith, Joseph, 1805-1844), or <famname>: Proper name of family (direct word order—Smoot family), or <corpname>: Proper name of organization/agency (direct word order—Brigham Young University-Idaho), or name of conference or meeting, exhibition, expedition, athletic contest, fair, etc. (see <corpname> in the Tag Library for more details). Use LC name authority if possible or formulate according to DACS or AACR2 rules.</corpname></corpname></famname></persname>		
encodinganalog="creator"	Rec	Use "100" for personal or family names, "110" for corporate names, and "111" for meeting names of the primary creator of the materials. Any additional creators should be given 7XX encoding analogs.  MARC 21: "100   110   111   700   710   711".  Set to "lcnaf" when name is established in		
source=	Rec	the LC Name Authority File (LCNAF). If not in LCNAF, establish using AACR2 or DACS and state which was used in the RULES attribute.		
rules=	Rec	Set to "aacr2" or "dacs" when the name is not established in LCNAF.		
role=	Rec	Usually "creator", "collector", or "photographer".		
<unittitle></unittitle>	Rec; not repeatable	It is strongly recommended that titles be used at the component level.  Do not nest <unitdate> inside <unittitle>.</unittitle></unitdate>	257-258	2.3
encodinganalog="title"	Rec	MARC 21: "245\$a".		
<unitdate></unitdate>	Rec; Repeatable	Strongly recommended if a more specific creation date can be provided for a component than given in its parent description. If multiple date ranges are present, each should be encoded with its	253-254	2.4

		own <unitdate>. If no date is available or applicable for a particular component, use the term "undated" inside the <unitdate> tags.</unitdate></unitdate>		
type="inclusive   bulk"	Ont	Do not nest <unitdate> inside <unittitle>.</unittitle></unitdate>		
era="ce"	Opt Opt			
calendar="gregorian"	Opt			
normal=	Opt	Enter the date or date range in ISO 8601 format.		
encodinganalog="date"	Opt	MARC 21: "245\$f".		
<pre><physdesc></physdesc></pre>	Rec; repeatable	A wrapper element for physical details about the described materials. Use subelements <extent>, and if desired, <physfacet>, <dimensions>, and <genreform> to record the information.</genreform></dimensions></physfacet></extent>	198	2.5
<extent></extent>	Rec; repeatable	At the series or subgroup component level, extent should be encoded here rather than in <unittitle> or another element. Units of measure should be expressed as part of the content of this element.</unittitle>	131-132	2.5
encodinganalog="format"	Opt	MARC 21: "300\$a".		
<langmaterial></langmaterial>	Rec; not repeatable	A prose statement naming the language(s) of the materials in the collection or unit. One or more language name(s) are enclosed in nested <language> tags.</language>	164-165	4.5
<language></language>	Rec; repeatable	Subelement of <langmaterial> within which the language of the materials being described is specified.  <langmaterial> <language langcode="eng"></language> <language langcode="fre"></language></langmaterial></langmaterial>	166-167	4.5
langcode=	Opt	Consult ISO 639-2b for the correct language code(s)		4.5
encodinganalog="language"	Opt	MARC 21: "546".		
	•			
             	Rec; not repeatable	At highest component levels, such as subgroup or series levels, biographical or administrative history information should be included if available and if the information is different from the collection-level bioghist> note.  Text should be enclosed in paragraph tags;  is repeatable.		2.7, Ch. 10
encodinganalog="description"	Opt	MARC 21: "5450_   5451_".		
<scopecontent></scopecontent>	Rec; not repeatable	At highest component levels, such as subgroup or series levels, scope and content information should be included. Other levels (folder or item) may include scope and content notes as needed. Use <scopecontent> instead of <abstract> or <note> tags.</note></abstract></scopecontent>	229-231	3.1
encodinganalog="description"	Opt	MARC 21: "520".		
<accessrestrict></accessrestrict>	MA; not repeatable	Provides researcher with information about conditions governing access. If materials have no restrictions on accession, repositories are encouraged to use the following statement: "Open to public research."  Text should be enclosed in paragraph	28-29	4.1
	0.	tags;  is repeatable.		
encodinganalog="rights"	Opt	MARC 21: "506".	250.200	4.4
<userestrict></userestrict>	Rec; not repeatable	Provides information about copyright status or other conditions that affect the use of a	259-260	4.4

encodinganalog="rights"	Opt	collection after access has been provided. In addition to copyright status, this may include limitations or special considerations imposed by the repository, donor, legal statute, or other agency regarding reproduction, publication, or quotation of the described materials.  Text should be enclosed in paragraph tags;  is repeatable.  MARC 21: "540".		
<note></note>	Opt; not repeatable	A generic note element that provides a short comment, such as citing the source of a quotation or justifying an assertion. Do not confuse with <odd>, which may be used within <archdesc> or <c0x> for information that is more than a short comment.  Text should be enclosed in paragraph tags;  is repeatable.</c0x></archdesc></odd>	179-180	
NOTE		All other elements that may be used in the top-level <archdesc>, including <arrangement>, <altformavail>, <odd>, etc. may be used as needed in <dsc>.</dsc></odd></altformavail></arrangement></archdesc>		

## **Table 4: CCLA Core Finding Aid**

The EAD elements listed below comprise the minimal number of elements mandated by CCLA for inclusion in the CCLA finding aids database; i.e. all elements that have the status  $\mathbf{Req}$  in the Best Practice Guidelines.

This CCLA Core Finding Aid reflects a single level of description and may be appropriate for:

- Small collections or single items
- Large homogenous collections
- Collections that are not yet fully processed or are not expected to be processed for some time

For more detailed instructions regarding the elements listed below, including attributes required in these elements, see Tables 1 and 2 of the CCLA Best Practice Guidelines.

```
<ead>
     <eadheader>
          <eadid>
          <filedesc>
<titlestmt>
                     <titleproper>
                     <titleproper> [Filing title]
                     <sponsor>
               <publicationstmt>
                     <publisher>
                     <address>
                          <addressline>
                     <date>
          profiledesc>
               <langusage>
                     <language>
     <archdesc>
          <did>
                <repository>
                     <corpname>
               <unitid>
               <unittitle>
               <unitdate>
                <physdesc>
                     <extent>
                <abstract>
               <langmaterial>
          <scopecontent>
          <accessrestrict>
          <appraisal>
          <controlaccess>
                <subject> [CCLA browsing term]
```

## Sources used to compile this document include:

- Encoded Archival Description Tag Library (Version 2002)
- Northwest Digital Archive Best Practice Guidelines for EAD 2002 (Version 3.3)
- RLG Best Practice Guidelines for Encoded Archival Description (August 2002)
- Online Archives of California (OAC) Best Practice Guidelines for Encoded Archival Description (February 2005, reviewed and updated annually)
- Describing Archives: A Content Standard (2004)
- ISAD(G): General International Standard Archival Description (September 1999)

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