



Sharing EAD with Regional Aggregators

An Online Archive of California (OAC) Case Study

ArchivesSpace Online Forum
2020 May 18

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California Digital Library



Example submission error message:

***voro*EAD Production: Processing Results**

```
/apps/dsc/data/in/oac-ead/submission/csmars/SC001_20200422_175124.UTC__ead.xml:  
33:0:ERROR:SCHEMASV:SCHEMAV_CVC_COMPLEX_TYPE_3_2_1: Element '{urn:isbn:1-931666-22-9}dao', attribute  
'{http://www.w3.org/1999/xlink}audience': The attribute '{http://www.w3.org/1999/xlink}audience' is  
not allowed.
```

File rejected by *voro*EAD due to errors

Please correct the errors and reprocess the file.

File Failed Processing

EAD:

```
<dao audience="internal" xlink:actuate="onRequest" xlink:audience="external"  
xlink:href="https://calisphere.org/item/592e9e9f-5481-43b4-8c2d-94df4f8246b2/" xlink:  
show="new" xlink:title="Titi, Nunu i Klebolo czyli Przygody dwóch liliowych  
chłopczyków i psa o sześciu nogach" xlink:type="simple">  
  <daodesc>  
    <p>Titi, Nunu i Klebolo czyli Przygody dwóch liliowych chłopczyków i psa o  
sześciu nogach</p>  
  </daodesc>  
</dao>
```

What we're going to cover today

1. **The use case:** sharing ArchivesSpace EADs for publication in other systems (OAC as an example, but may be generalizable)
2. **Two general types of issues** you may run into:
 - Submission error: XML is not well-formed or invalid EAD
 - Unexpected display issues
3. **Troubleshooting strategies, freebie tools, and approaches,** to help address those issues

Example type: submission error

Submission error message:

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Example type: submission error

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chłopczyków i psa o sześciu nogach" xlink:type="simple">  
  <daodesc>  
    <p>Titi, Nunu i Klebolo czyli Przygody dwóch liliowych chłopczyków i psa o  
sześciu nogach</p>  
  </daodesc>  
</dao>
```

Invalid EAD error message:



-

E [Xerces] Attribute 'xlink:audience' is not allowed to appear in element 'dao'.

Temporary “fix”: Manually edit the EAD

xlink:audience → **audience**

Long-term solution:

- Report error to ArchivesSpace, and provide examples and strategies to propose a solution.

EAD validation errors for dao audience attribute

 Attach  Create subtask

Description

In version 2.5.1, digital objects export with invalid audience attributes. Attribute 'xlink:audience' is not allowed to appear in element 'dao'. Also, should not have multiple audience attributes.

Possible solution: don't insert another @audience when file_versions_to_display.length == 1

<https://github.com/archivesspace/archivesspace/blob/80952a89220c2eabdf33e3ba257a9992e1c7823c/backend/app/exporters/serializers/ead.rb#L540>


Ex: http://test.archivesspace.org/staff/digital_objects/41#tree::digital_object_41

```
1 <dao audience="internal" xlink:actuate="none" xlink:audience="external"
2     xlink:href="http://digitalassets.ynhsc.edu/ms296_001.tif" xlink:show="none"
3     xlink:title="Watercolor of Brassie fly nymph (fishing fly0" xlink:type="simple">
4   <daodesc>
5     <p>Watercolor of Brassie fly nymph (fishing fly0</p>
6   </daodesc>
7 </dao>
```

Environment

None

Attachments

 **ead.xml (1 item)**



Pull Request Submitted 

Assignee

 Andrew Morrison

Reporter

 Nancy Kennedy

DEVELOPMENT

1 branch

1 commit

15 days ago

1 pull request

MERGED

Labels

[2.8.0](#) [digital_objects](#) [ead](#) [exports](#)

[metadata](#)

Affects versions

[2.5.1](#)

Priority

 Major

Created November 1, 2018, 3:35 PM

 Configure

Updated April 29, 2020, 9:54 AM

Example type: unexpected display issue

Finding aid display:

Title: Bernard Gilmore papers

creator: Gilmore, Bernard

Identifier/Call Number: MS.F.036

Physical Description: 9.7 Linear Feet (15 boxes and 1 oversize folder)

Date (inclusive): 1957-2008 and undated

Language of Material: Collection materials are primarily in English.

Example type: unexpected display issue

Finding aid display:

Title: Bernard Gilmore papers

creator: Gilmore, Bernard

Identifier/Call Number: MS.F.036

Physical Description: 9.7 Linear Feet (15

Date (inclusive): 1957-2008 and undated

Language of Material: Collection material

EAD:

```
<unittitle>Bernard Gilmore papers</unittitle>
▼<origination label="creator">
  <persname role="cmp" source="local">Gilmore, Bernard</persname>
</origination>
<unitid>MS.F.036</unitid>
▼<physdesc altrender="whole">
  <extent altrender="materialtype spaceoccupied">9.7 Linear Feet</extent>
  <extent altrender="carrier">(15 boxes and 1 oversize folder)</extent>
</physdesc>
<unitdate type="inclusive">1957-2008 and undated</unitdate>
▼<langmaterial id="aspace_a1821e5536be01ced381c18becc9a282">
  Collection materials are primarily in
  <language langcode="eng">English</language>
```

Temporary “fix”: Manually edit the EAD

“creator” → “Creator”

Long-term solution:

- Report the error to ArchivesSpace, and provide examples and strategies to propose a solution.

Capitalize "Creator" as the default <origination> LABEL value.

Attach Create subtask

Description

Update the default LABEL value for <origination>, in the EAD export: capitalize "Creator". We're finding that many of our contributors are manually editing the EAD to tweak the value, before submitting EAD files to us.

Thanks!

Adrian Turner
California Digital Library

Environment

None

Activity

Show: Comments History Work log



Adrian Turner September 26, 2018, 3:21 PM

Sorry if this has been previously reported – I just can't find it in JIRA.

Thanks,

– Adrian

Closed-Complete Done

Assignee

Adam Jazairi

Reporter

Adrian Turner

DEVELOPMENT

1 commit last year

1 pull request MERGED

Labels

2019Q1DevCycle 2019sprint2 ead easy

Affects versions

2.5.0

Priority

Minor

Created September 26, 2018, 3:17 PM

Configure

Updated May 30, 2019, 8:37 AM

Let's investigate some scenarios together!

Scenario 1: empty container type attribute

Submission error message:

***vor*EAD Testing: Processing Results**

```
caarpl/horsecenter0062.xml
/apps/dsc/workspace/test-oac/at2oac/caarpl/horsecenter0062.xml:102: element container:
validity error : Syntax of value for attribute type of container is not valid
/apps/dsc/workspace/test-oac/at2oac/caarpl/horsecenter0062.xml:102: element container:
validity error : Syntax of value for attribute type of container is not valid
/apps/dsc/workspace/test-oac/at2oac/caarpl/horsecenter0062.xml:102: element container:
validity error : Syntax of value for attribute type of container is not valid
/apps/dsc/workspace/test-oac/at2oac/caarpl/horsecenter0062.xml:102: element container:
validity error : Syntax of value for attribute type of container is not valid
Document /apps/dsc/workspace/test-oac/at2oac/caarpl/horsecenter0062.xml does not validate
against http://oac.cdlib.org/ents/ead.dtd
```

File rejected by *vor*EAD due to errors

Please correct the errors and reprocess the file.

Scenario 1: empty container type attribute

EAD:

```
<c02 id="aspace_74571c28b8649614cc6e60b7e3ee717d" level="file">
  <did>
    <unittitle>Ferdas</unittitle>
    <unitdate normal="1931/1931" type="inclusive">1931</unitdate>
    <container id="aspace_3fc900d48db3284e1c5e795c877ff3b2"
label="mixed materials" type="">Box 17</container>
    <container id="aspace_581707e7c493c93893bc0f99c1f6c761"
parent="aspace_3fc900d48db3284e1c5e795c877ff3b2"
type="folder">9</container>
  </did>
</c02>
```

ArchivesSpace record entry:

17 **Top Container**

Container Profile

Type to search available records..

Container Type

Indicator *

17

Invalid EAD error message:

- ❗ - E [Xerces] " is not a valid value for 'NMTOKEN'.
- ❗ - E [Xerces] The value " of attribute 'type' on element 'container' is not valid with respect to its type, 'NMTOKEN'.

Temporary "fix":

- Update the resource record, and add in the container type. (In the ArchivesSpace staff interface, not the EAD file.)

Long-term solution:


- Ideas?


Scenario 2: broken links to online items

Finding aid display:

Online Items

1 - 2 of 2 results Results page: |<< Previous 1 Next >>|

Artwork,
"Mistaken identities"
Research and production files,
 [thumbnail](#)
CD-ROM

Artwork,
"She loves it, she loves it not"
Research and production files,
 [thumbnail](#)
CD-ROM,

Not Found

The requested URL was not found on this server.

Additionally, a 404 Not Found error was encountered while trying to use an ErrorDocument to handle the request.

<https://oac.cdlib.org/ark:/81235/d84w2w/?brand=oac4>

Scenario 2: broken links to online items

EAD:

```
▼<c04 id="aspace_ref177_xri" level="file" score="1" C-ORDER="110">
  ▼<did>
    <unittitle>CD-ROM,</unittitle>
    <unitdate normal="1995/1995" type="inclusive">1995.</unitdate>
    ▼<physdesc id="aspace_20e81e7f6958475ea70870d9984a2a3c" label="General
      Physical Description note">
      ▼<extent>
        System requirements: Macintosh Centris or greater or compatible,
        color monitor.
      </extent>
    </physdesc>
    <container id="aspace_ee830e60cb0e1d5e0b33967c5887774b" type="box-
      folder">44 : MS-F11-CD01</container>
    ▼<dao actuate="onrequest" audience="external"
      href="https://calisphere.org/item/ark:/81235/d84w2w/" show="new"
      title="Mistaken Identities screencasts and README" linktype="simple">
      ▼<daodesc>
        <p>Mistaken Identities screencasts and README</p>
      </daodesc>
    </dao>
  </did>
</c04>
```

Multi-format set / Mistaken Identities



<https://calisphere.org/item/ark:/81235/d84w2w/>

Temporary "fix":

- None recommended; OAC needs to fix this

Long-term solution:

- N/A (this is a display issue with the OAC stylesheet)

Scenario 3: unexpected component identifiers

Finding aid display:

	Biographical materials Series 1.35193 1900-1993 1950-1960
	Physical Description: 0.9 Linear Feet
	Series Scope and Content Summary
	This series contains materials documenting the personal and family life of Meadows, including published material and printed ephemera, awards and certificates, plaques, associated correspondence, and some photographs.
	Series Arrangement
	This series is arranged topically.
box 1, folder 1	General 35220 1963-1982
box FB-9, folder 5	Oversize material 35221 1963-1965
box 1, folder 2	Big Basin State Park 35219 1950
box 1, folder 3	Bowers Museum 35217 1960-1969
box FB-9, folder 5	Oversize material 35218 1963
box 1, folder 4	California Bicentennial 35216 1968-1969
box 1, folder 5	Catalina, <i>The magic isle, a pageant of Santa Catalina Island</i> pageant material 35215 1934

Scenario 3: unexpected component identifiers

Finding aid display:

Biographical materials Series 1.35193 1900-1993 1950-1960

Physical Description: 0.9 Linear Feet

Series Scope and Content Summary

This series contains materials documenting the personal and family (including published material and printed ephemera, awards and certain associated correspondence, and some photographs.

Series Arrangement

This series is arranged topically.

box 1, folder 1 **General** 35220 1963-1982

box FB-9, folder 5 **Oversize material** 35221 1963-1965

EAD:

```
▼<c01 id="aspace_ref15_5yp" level="series" score="3" C-ORDER="1">
  ▼<did>
    <unittitle>Biographical materials</unittitle>
    <unitid>Series 1.</unitid>
    <unitid audience="internal" identifier="35193"
      type="Archivists Toolkit
      Database::RESOURCE COMPONENT">35193</unitid>
    ▼<physdesc altrender="whole">
      <extent altrender="materialtype spaceoccupied">0.9 Linear
        Feet</extent>
      </physdesc>
      <unitdate normal="1900/1993" type="inclusive">1900-
        1993</unitdate>
      <unitdate normal="1950/1960" type="bulk">1950-1960</unitdate>
    </did>
```

Temporary “fix”:

- Manually edit the EAD, and remove all Archivists’ Toolkit identifiers.

Long-term solution:

- Ideas?

Strategies!

EAD submission error:	Unexpected display issues:
Check for invalid EAD: Use a free validator tool to run a test.	
Notify the aggregator: They may have seen this before, and may have suggestions. Attach your EAD file and/or screenshots, and include info about the error messages.	Notify the aggregator: Is there a problem on the aggregator side? Attach your EAD file and/or screenshots, and include info about the display issue. If so, the aggregator will explore potential solutions. If not, then continue on...
Check if the issue has been reported on the ASpace JIRA. Has the issue been resolved? <ul style="list-style-type: none">• If so, consider upgrading to the latest release.• If not, consider adding a comment and “watch” the ticket for updates.• And if this issue has not been reported and is not resolved in the latest release, continue on...	
Submit a JIRA ticket: <ul style="list-style-type: none">• Note your ArchivesSpace version• Make clear notes of the validation issue, and where the invalid EAD appears• Attach your EAD file and/or screenshots• Include the invalid EAD error message	Submit a JIRA ticket: <ul style="list-style-type: none">• Note your ArchivesSpace version• Make clear notes of the display issue and underlying EAD encoding• Attach your EAD file and/or screenshots
Share it with the community: Post on the Users Group list (if an ArchivesSpace member) or the Google Group.	
And update the aggregator about the JIRA ticket. We can chime in and would also love to “watch” for updates.	

Resources

ArchivesSpace forums

- [Users Group list \(ArchivesSpace members\)](#)
- [Google Group](#)

ArchivesSpace wiki

- [JIRA ticketing system](#)
- [Reporting issues, feature requests, etc. via JIRA](#)

Additional resources

- [Awesome ArchivesSpace](#)
- [EAD Tag Library](#)
- Tutorials on using freebie tools to validate EAD
 - *Forthcoming -- we'll post links, with tutorials, to Awesome ArchivesSpace!*