Purpose

Describe and specify the addition of Digital Archival Object, <dao>, tags in EAD Finding Aids in RUcore. This includes outlining the cataloging and resource management workflow associated with this addition. Also, this document will include any application/software changes if necessary.

Background

A <dao> tag is an optional element in EAD findings aids.

A linking element that uses the attributes ENTITYREF or HREF to connect the finding aid information to electronic representations of the described materials. The <dao> and <daogrp> elements allow the content of an archival collection or record group to be incorporated in the finding aid. These digital representations include graphic images, audio or video clips, images of text pages, and electronic transcriptions of text. The objects can be selected examples, or digital surrogates all the materials in an archival fonds or series.[1]

[1] http://www.loc.gov/ead/tglib/elements/dao.html

As of version 8.1 of RUcore EAD's have not implemented <dao> tags in their markup. Content associated with EAD's have not been digitized and stored in RUcore. However, in the immediate content associated with EAD's in RUcore will begin to have their content digitalized and stored in RUcore as separate resources. The digitized resources will be associated to corresponding EAD's using the <dao> tag.
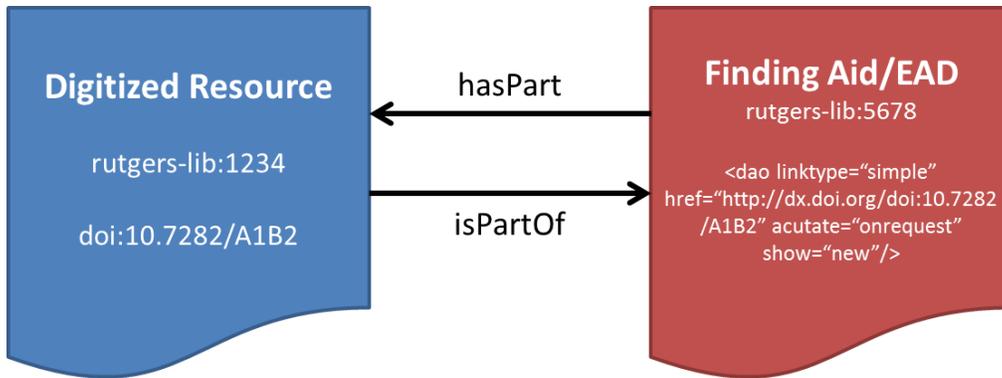
Architecture

Finding aids in RUcore could have one or many <dao> elements.   The <dao> tag itself can occur at many locations in the EAD document and should take this form.

```
<dao linktype="simple" href="http://dx.doi.org/...." actuate="onrequest" show="new"/>
```

Any RUcore resource associated with the DAO must be a separate resource, meaning the associated resource will have full descriptive metadata. The associated RUcore resources could be at the item, folder, or box level. The associated resources descriptive metadata will be for that resource. A descriptive event in the digitized resource should reference the finding aid that it is part of and should contain the DOI to the finding aid.

RUcore resources could have with multiple files, although the display may be a single concatenated file, e.g., all the individual master tiff files in a folder concatenated into a single PDF for display.

The digitized resource and the EAD resource should also have a RELS-EXT relationship created in RUcore. The ontology used for that relationship is isPartOf/hasPart.

Workflow

The proposed workflow for <dao> support is that after being digitized and cataloged in WMS content will be ingested into RUcore as it normally would. At the time of ingest the resource is not required to be ingested in the same collection as the associated finding aid. Once ingested the DOI for the resource will be used in the associated EAD's <dao> tag. At some point chosen by the EAD project owner those digitized and ingested resources will be added as one or many <dao> tags in the EAD document. That EAD document will be updated in RUcore, or ingested if it had not already been ingested. Updating an EAD datastream in RUcore can be performed using dlr/EDIT.   In dlr/EDIT the RELS-EXT relationship between the digitized resource(s) and the EAD will be added. This workflow is currently supported in the 8.1 version of RUcore and should require no additional development.

EAD Public Display

Since the <dao> tag may be implemented at many levels in an EAD the public display and linking to the associated resource must expect rendering of <dao> tag information throughout the document structure. When a <dao> tag is detected a link must be created and presented on the screen. There is an optional title attribute that is part of the <dao> schema. If that title attribute is present the value in the attribute must be used as the <a href> display. If that title attribute is not present or it is empty the corresponding <a href> tag must use the href attribute value supplied by the <dao>. Examples are:

<dao> with title attribute

```
<dao linktype="simple" href="http://dx.doi.org/doi:10.7282/A1B2" actuate="onrequest"
show="new" title="click here"/>
```

Should be rendered as: click here

<dao> without title attribute

```
<dao linktype="simple" href="http://dx.doi.org/doi:10.7282/A1B2" actuate="onrequest"
show="new"/>
```

Should be rendered as: http://dx.doi.org/doi:10.7282/A1B2

These changes to the public display will require a code change/enhancement in version 8.2 of RUcore.