

Digital Collections System Data Model

April 22, 2021

The new Digital Collections System (DCS) data model is currently based on parent-child relationships. While the system may record box/folder information as strings, there is no representation of the hierarchy in the data model itself. This differs from Ladybird/FindIt, where each node in the hierarchy can be represented by an object.

In the DCS the parent represents the digital object. In contrast to Ladybird, the DCS itself manages very little information about the object in its database. See item #1 below for a screen capture. The main types of data managed in the database are:

Identifiers

- OID (Object ID)
- Catalog identifiers
- Current authoritative metadata source (Voyager/ASpace/Ladybird)

DCS-Specific Metadata

- Rights statement
- Extent of digitization
- Visibility (Public/Yale only/Private)
- Viewing direction and mode (for IIIF)

Each parent has a relationship to one or more child objects. The children represent individual images. The system assumes that each child has a corresponding TIFF image on disk. Again, the system manages little information about the image (see #2 below for an example):

- OID (Object ID)
- Label
- Caption
- order in the sequence of children
- IIIF viewing hint
- Image dimensions

Finally, each parent object caches a JSON representation of metadata drawn from ASpace or Voyager through “Metadata Cloud”, which performs the crosswalk from ASpace JSON responses or MARC to a common format. See #3 below for an example. This metadata is mapped to fields in the Solr index. This metadata can be re-synced with its authoritative source as needed – automatic updates are planned but not yet implemented. The metadata provided by Metadata Cloud was reviewed by task force convened by Daniel Lovins. These mappings have continued to evolve as DCS development progresses.

1. Parent Object Fields

Oid: 30003215

Set: Beinecke Library

MetadataCloud uri:

Note: add "&mediaType=json" or "?mediaType=json" to open in your browser

https://metadata-api-uat.library.yale.edu/metadatacloud/api/1.0.1/aspaces/repositories/11/archival_objects/445451

Bib:

Holding:

Item:

Barcode:

Aspace uri: /repositories/11/archival_objects/445451

Last ladybird update:

Last voyager update:

Last aspace update: 2021-03-16 18:07:15 UTC

Visibility: Public

Rights Statement:

The use of this image may be subject to the copyright law of the United States (Title 17, United States Code) or to site liable for any infringement.

Extent of Digitization:

Viewing Direction: left-to-right

Display Layout / Viewing Hint: individuals

Authoritative Metadata source: ArchiveSpace

Child Count: 27

Children:

1. [no label / no caption \(4752, 3270\)](#)
2. [no label / no caption \(2001, 1569\)](#)
3. [no label / no caption \(2250, 1293\)](#)

2. Child Object Fields

Oid: 30003216

Caption:

Label:

Width: 4752

Height: 3270

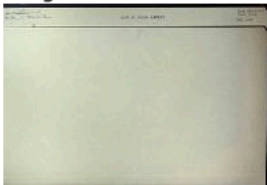
Order: 1

Viewing hint:

Parent object: [30003215](#)

PTiff Download: [Click to Download](#)

Image:



[Edit](#) | [Parent: 30003215](#) | [All Child Objects](#)

3. Metadata Cloud JSON (ASpace object)

```
{
  "uri": "/aspace/repositories/11/archival_objects/445451",
  "date": [
    "1848 Feb"
  ],
  "title": [
    "Correspondence"
  ],
  "extent": [
    "0.5 linear_feet"
  ],
  "rights": [
    "The John W. Dodd Papers are the physical property of the Beinecke Rare Book and Manuscript Library, Yale University. Literary  
The materials are open for research."
  ],
  "source": "aspace",
  "creator": [
    "Dodd, John W."
  ],
  "abstract": [
    "The papers contain correspondence and other papers documenting John W. Dodd's service in the Mexican War and the effect the co"
  ],
  "children": [
  ],
  "language": [
    "English"
  ],
  "identifier": "/aspace/repositories/11/archival_objects/445451",
  "orbisBibId": "3141985",
  "recordType": "archival_object",
  "description": [
  ],
  "languageCode": [
    "eng"
  ],
  "orbisBarcode": "39002091617457",
  "resourceType": "mixed_materials",
  "dependentUris": [
    "/aspace/repositories/11/top_containers/58441",
    "/aspace/repositories/11/archival_objects/445451",
    "/aspace/agents/people/76353",
    "/aspace/repositories/11/archival_objects/445439",
    "/aspace/repositories/11/resources/1209"
  ],
  "jsonModelType": "ArchiveSpaceSolrRecord",
  "ancestorTitles": [
    "Box and Folder List",
    "John W. Dodd papers"
  ],
  "createdEndDate": [
  ],
  "dateStructured": [
    "1848-02"
  ],
  "archiveSpaceUri": "/repositories/11/archival_objects/445451",
  "createdBeginDate": [
    "1848-02"
  ],
  "containerGrouping": "Box 1, folder 18",
  "localRecordNumber": "WA MSS S-1300",
  "ancestorIdentifiers": [
    "/aspace/repositories/11/archival_objects/445439",
    "/aspace/repositories/11/resources/1209"
  ],
  "createdEarliestDate": "1848-02",
  "provenanceUncontrolled": "The papers were purchased in 1970 from Edward Eberstadt and Sons on the Frederick W. and Carrie S. Bei
}
```