Title
All Teh Metadatas Re-Revisited

Permalink
https://escholarship.org/uc/item/1497d1gh

Authors
Cowles, Kevin Esme
Critchlow, Matthew
Westbrook, Bradley

Publication Date
2013-02-13

Peer reviewed
ALL TEH METADATAS
Re-revisited

2013 code{4}lib Meeting

February 13, 2013

Esmé Cowles
Matthew Critchlow
Bradley Westbrook
Overview

• Needs Assessment
• Data Model Process
• Implementation
Overview

• Needs assessment and proposed solution
• Data modeling
• Tool implementation

Needs Assessment

Brad Westbrook
Need One: More consistent data
Need Two: Maintain syntax of hierarchical subjects

Salvatierra, Juan María de, 1648-1717 -- Correspondence
Ugarte, Juan de, 1662-1730
Jesuits -- Missions -- Mexico -- Loreto (Baja California Sur)
Missions, Spanish -- Mexico -- Loreto (Baja California Sur)
Indians of Mexico -- Missions -- Loreto (Baja California Sur) -- History
Loreto (Baja California Sur, Mexico) -- History
Baja California (Mexico : Peninsula) -- History
Letters -- Mexico -- Loreto (Baja California Sur) -- 1698.

**Topic(s):** Missions, Spanish--Mexico--Loreto (Baja California Sur)
History--Loreto (Baja California Sur, Mexico)
Correspondence--1648-1717--Salvatierra, Juan María de
Missions--Jesuits--Mexico--Loreto (Baja California Sur)
1662-1730--Ugarte, Jan de
17th Century--Letters--Mexico
History--Baja California (Mexico : Peninsula)
Missions--History--Indians of Mexico--Loreto (Baja California Sur)
Need Three: Improve support for complex objects
<mods:titleInfo>
</mods:titleInfo>
<mods:name authority="naf" type="personal">
  <mods:namePart type="family">Erickson</mods:namePart>
  <mods:namePart type="given">Robert</mods:namePart>
  <mods:namePart type="date">1917-1997</mods:namePart>
  <mods:displayForm>Erickson, Robert, 1917-1997</mods:displayForm>
</mods:name>
<mods:role>
  <mods:roleTerm authority="marcrelator" type="text">Speaker</mods:roleTerm>
  <mods:roleTerm authority="marcrelator" type="code">spk</mods:roleTerm>
</mods:role>
<mods:name authority="naf" type="personal">
  <mods:namePart type="family">Frick</mods:namePart>
  <mods:namePart type="given">Arthur J. F.</mods:namePart>
  <mods:displayForm>Frick, Arthur J. F.</mods:displayForm>
</mods:name>
<mods:role>
  <mods:roleTerm authority="marcrelator" type="text">Speaker</mods:roleTerm>
  <mods:roleTerm authority="marcrelator" type="code">spk</mods:roleTerm>
</mods:role>
<mods:name authority="naf" type="personal">
  <mods:namePart type="family">Rawcliffe</mods:namePart>
  <mods:namePart type="given">Mary</mods:namePart>
  <mods:displayForm>Rawcliffe, Mary</mods:displayForm>
</mods:name>
<mods:role>
  <mods:roleTerm authority="marcrelator" type="text">Speaker</mods:roleTerm>
  <mods:roleTerm authority="marcrelator" type="code">spk</mods:roleTerm>
</mods:role>
Need Four: Align more strongly with DL community

• Make sure UCSD RDF is public facing
  – Use vocabularies in the public
  – Make UCSD vocabularies public

• Develop technology stack
  – Utilize contributions from non-UCSD sources
  – Contribute to non-UCSD endeavors
Data Model Process

Matt Critchlow
Project Overview

Research Data Curation Pilot **Deadline:** June, 2013


**Deliverables**
- Abstract Data Model
- OWL/RDF Ontology
- Data Model Extension Guidelines

**Team**
Metadata Analyst: Arwen Hutt, Bradley Westbrook
IT: Esmé Cowles, Matt Critchlow, Longshou Situ
As an **administrative unit manager**, I want to indicate any external versions or descriptions of an object that may be of probable importance to a user.

As a **user**, I want to know what collection(s) an object belongs to.

As a **DAMS manager**, I want to know what administrative unit an object belongs to.

As a **DAMS manager**, I want to know what administrative unit an object belongs to.

As a **DAMS manager**, I want to know what collection(s) an object belongs to.

As a **user**, I want to know what administrative unit an object belongs to.

As a **user**, I want to know what collection(s) an object belongs to.

As a **user**, I want to see all the component parts of an object.
<table>
<thead>
<tr>
<th>Object</th>
<th>ID (required)</th>
<th>A representation of an intellectual entity, sometimes referred to as a resource.</th>
<th>Administrative Unit (administrativeUnit 1)</th>
<th>Every object must be linked to one, and only one, Administrative Unit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title (title 1-m)</td>
<td></td>
<td>types of information: 1) one or more content files. 2) one or more metadata.</td>
<td>(hasComponent 0-m)</td>
<td>Must-have-at-least-one child component or file. DAMS-Object.</td>
</tr>
<tr>
<td>Copyright (copyright 1)</td>
<td></td>
<td>of the object together and maintaining the content.</td>
<td>Language (language 1-m)</td>
<td>Mandatory event: object superclass.</td>
</tr>
<tr>
<td>Language (language 1-m)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrative Unit (unit 1)</td>
<td></td>
<td>License (license, 0-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relationship (relationship 0-m)</td>
<td></td>
<td>Related Resource (relatedResource 0-m)</td>
<td>DAMS_Event (event 1-m)</td>
<td></td>
</tr>
</tbody>
</table>
Ontology

**Relationship**
- Repository
- Rights
- RightsAction
- SourceCapture
- Title
- Vocabulary
- VocabularyEntry
  - Language
  - 'Role'
    - 'Deprecated Authority'
    - Element
    - Label
    - LinguisticSystem = 'Language'
    - List
  - 'MADS Type'
    - Complex Type'
    - Simple Type'
      - BuiltWorkPlace
      - CulturalContext
      - Function
      - Genre/Form Type'
      - Geographic Authority'
      - Iconography
    - 'Language Type' = Lingu
    - 'Name Type'
  - 'Name Type'
    - Conference Name Type
    - Corporate Name Type
    - Family Name Type'
    - Personal Name Type'

**Description: Relationship**

**Equivalent classes**

**Superclasses**
- DAMSThing
  - name exactly 1 'Name Type'
  - role min 1 Role

**Inherited anonymous classes**
- event only DAMSEvent

**Keys**
Adm. Nimitz Joins Red Tape Cutters

The Society of Red Tape Cutters is proud to add to its membership Adm. Chester Nimitz, Maj. Gen. Delos C. Emmons and the commanding officer of the Marines in the Hawaiian area for their bang-up victory over the Japanese in the Battle off Midway. They didn’t let red tape get in their way when it came to all-out co-operation of the Army, Navy and Marines in teaching the Japanese a stiff lesson. As one American pilot put it: “The Navy found them and then the Navy, Army and Marines cleaned them up.” The name of the top-ranking Marine officer in the Hawaiian area is a military secret, but we’ll send him a certificate when the time comes.
<dams:Title>
"Adm. Nimitz Joins Red Tape Cutters"
</dams:Title>

<dams:Title>
"Midway, Battle of, 1942"
<owl:sameAs> <lcsh:sh85085053>
</owl:sameAs>
</dams:Title>

<dams:Title>
"Commercial art--United States"
<owl:sameAs> <lcsh:sh85028914>
</owl:sameAs>
</dams:Title>

<dams:PersonalName>
"Geisel, Theodor Seuss, 1904-1991"
<owl:sameAs> <lcnaf:n91084846>
</owl:sameAs>
</dams:PersonalName>

<dams:Role>
"creator"
<owl:sameAs> <marcrel:cre>
</owl:sameAs>
</dams:Role>

<dams:Date>
<dam:s: type> "creation"
"1940"
</dams:Date>

<dams:Date>
<dam:s: type> "creation"
"1940"
</dams:Date>

<dams:Date>
<dam:s: type> "creation"
"1940"
</dams:Date>
DAMS Repository

• New version of our lightweight repository
  – Metadata in triplestore
  – Files on disk or cloud storage
• Explicit structural metadata
• Native REST API
• Fedora REST API (partial)
DAMS Manager

• Separate Java webapp
• Ingest, batch operations
• Uses DAMS Repository REST API
• Functionality moved into the repository
  – Characterization (JHove)
  – Fixity checking
  – Derivatives (ImageMagick)
DAMS Public Access System

- Old frontend is unsustainable
- New frontend in Hydra
  - Backed by DAMS Repo, not Fedora
- Hydra platform and community
Timeline

- Started 2 months ago
- Code sprint in January with cbeer and jcoyne
- March: Beta release with research data
- Spring: Migrating existing content
- Summer: Production release
One More Thing

• We’ve talked about DAMS for years...
• Now we have code to share

http://github.com/ucsdlib/

@escowles  @mattcritchlow
bdwestbrook@ucsd.edu