Progress to date on the Metadata Standards Catalog

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RDA 16th Plenary Meeting, Costa Rica (Virtual)
10 November 2020
Timeline

2012-05  DCC Disciplinary Metadata Catalogue proposed
2013-01  **DCC Disciplinary Metadata Catalogue launched**
2013-10/2013-12  RDA Metadata Standards Directory WG runs survey, adds 18 standards/profiles, 13 metadata tools to DCC Disciplinary Metadata Catalogue
2014-03  New community-maintained **Metadata Standards Directory launched** on GitHub
2016-01  RDA Metadata Standards Catalog WG endorsed
2017-07  Prototype Metadata Standards Catalog complete
2017-12  **Metadata Standards Catalog v1 launched** on DCC servers
2019-03  Metadata Standards Catalog v1 migrated to Bath servers
2020-04  Work begins on Metadata Standards Catalog v2
2020-09  **Metadata Standards Catalog v2 launched**
Website interface improvements

Add relationships from either end
Website interface improvements

- Add relationships from either end
- New workflow for editing versions.
Website interface improvements

- Add relationships from either end
- New workflow for editing versions.
- New indexes and pages for organizations, mappings, and endorsements

Index of organizations

- 3TU.Datacentrum
  - A multidisciplinary data repository for a consortium of universities in the Netherlands, using a metadata structure based on the Dublin Core Metadata Initiative.

Links and documentation

- Visit website

Related metadata standards

- This organization uses Dublin Core.
Website interface improvements

- Add relationships from either end
- New workflow for editing versions.
- New indexes and pages for organizations, mappings, and endorsements
- Configurable controlled vocabularies

Edit datatype

msc:datatype1

Descriptor for this type of data
Catalog

URL identifying this type of data
https://www.w3.org/TR/vocab-dcat/#class-catalog

Save changes Cancel
Website interface improvements

- Add relationships from either end
- New workflow for editing versions.
- New indexes and pages for organizations, mappings, and endorsements
- Configurable controlled vocabularies
- Improved accessibility

Web Content Accessibility Guidelines (WCAG) explained

To make sure that the Catalog is accessible, we follow the World Wide Web Consortiums (W3C) Web Content Accessibility Guidelines (WCAG) version 2.1.

WCAG is a universally accepted standard for measuring the accessibility of a website or app. It uses a scale A, AA and AAA to rate the accessibility of content.

The Research Data Alliance Metadata Standards Catalog Working Group (‘the Working Group’) is committed to making sure, where possible, that its content meets AA compliance. AA compliance means people who have a disability should be able to access the majority of our content easily.

How we meet WCAG standards

To make sure that our website is compliant with accessibility standards, our templates

- use valid HTML and CSS;
- let users change aspects of the site’s appearance to improve their own experience;
Old-style API calls deprecated

```
$ curl https://rdamsc.bath.ac.uk/api/m

{
  "metadata-schemes": [
    {
      "id": 1,
      "slug": "abcd-access-biological-collection-data"
    },
    {
      "id": 2,
      "slug": "agmes-agricultural-metadata-element-set"
    },
    {
      "id": 3,
      "slug": "avm-astronomy-visualization-metadata"
    }
  ]
}
```
New API interface

- Old-style API calls deprecated
- More developer-friendly API calls for the main records

```
$ curl https://rdamsc.bath.ac.uk/api2/m
{
  "apiVersion": "2.0.0",
  "data": {
    "currentItemCount": 10,
    "items": [
      { "Full record 1" }, ...
      { "Full record 10" }
    ],
    "itemsPerPage": 10,
    "nextLink": "https://rdamsc.bath.ac.uk/api2/m?start=11&pageSize=10",
    "pageIndex": 1,
    "startIndex": 1,
    "totalItems": 100,
    "totalPages": 10
  }
}
```
New API interface

- Old-style API calls deprecated
- More developer-friendly API calls for the main records
- API calls for relationships between records

```
$ curl https://rdamsc.bath.ac.uk/api2/rel/m1
{
   "apiVersion": "2.0.0",
   "data": {
      "@id": "msc:m1",
      "uri": "https://rdamsc.bath.ac.uk/api2/rel/m1",
      "users": [
         "msc:g11",
         "msc:g44",
         "msc:g45"
      ]
   }
}
```
New API interface

- Old-style API calls deprecated
- More developer-friendly API calls for the main records
- API calls for relationships between records
- API calls for internal controlled vocabulary

```bash
$ curl https://rdamsc.bath.ac.uk/api2/dataset
{
  "apiVersion": "2.0.0",
  "data": {
    "currentItemCount": 2,
    "items": [
      {
        "id": "https://www.w3.org/TR/vocab-dcat/#c",
        "label": "Catalog",
        "mscid": "msc:dataset1",
        "uri": "https://rdamsc.bath.ac.uk/api2/dataset1",
      },
      {
        "id": "https://www.w3.org/TR/vocab-dcat/#c",
        "label": "Dataset",
        "mscid": "msc:dataset2",
        "uri": "https://rdamsc.bath.ac.uk/api2/dataset2",
      }
    ]
  }
}
```
New API interface

- Old-style API calls deprecated
- More developer-friendly API calls for the main records
- API calls for relationships between records
- API calls for internal controlled vocabulary
- API calls for subject thesaurus

```bash
$ curl -L http://rdamsc.bath.ac.uk/api2/thesaurus

{
    "apiVersion": "2.0.0",
    "data": {
        "currentItemCount": 10,
        "items": [
            {
                "@context": {
                    "skos": "http://www.w3.org/2004/02/skos/core#"
                },
                "@id": "http://rdamsc.bath.ac.uk/thesaurus",
                "@type": "skos:Concept",
                "skos:prefLabel": [
                    {
                        "@language": "en",
                        "@value": "Multidisciplinary"
                    }
                ]
            }
        ]
    }
}
```
Still to come

Authenticated API calls:
- POST, PUT, and DELETE methods for the main five record types
- POST, PUT, PATCH, and DELETE methods for inter-record relationships
- POST, PUT, and DELETE methods for controlled vocabulary terms

New search API implemented as a filtering parameter on GET methods for collection endpoints

Facility for recording Linked Data prefixes for metadata schemes

Update and expand the information held
- Migrate snapshot to Metadata Standards Directory and freeze it
- Migrate snapshot to DCC Disciplinary Metadata Catalogue
Thank you for your attention

Metadata Standards Catalog Working Group:
https://rd-alliance.org/groups/metadata-standards-catalog-working-group.html

Metadata Standards Catalog: https://rdamsc.bath.ac.uk/
Progress to date on the Metadata Element Set

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Since Plenary 15 . . .

- Survey on priorities – which elements to focus on first
- Preface added to all working documents
  - What each element was intended to cover
  - Summarises outcome of early use case analysis work
- Examples of unpacking the semantics and syntax of the elements
  - Unique identifier (Keith)
  - Description (Alex)
Thank you for your attention

Metadata Interest Group: https://www.rd-alliance.org/groups/metadata-ig.html