



Progress to date on the Metadata Standards Catalog

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RDA 16th Plenary Meeting, Costa Rica (Virtual)
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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

Relationships to other records

Parent metadata schemes

- CSMD (Core Scientific Metadata Model)
- Darwin Core
- Darwin Core Geospatial Extension
- Data Package
- DataCite Metadata Schema**

Profiles of this scheme

- ABCD (Access to Biological Collection Data)
- ABCDDNA
- ABCDEFG (Access to Biological Collection Databases Extended for Geosciences)
- AGIS Metadata Profile

Mappings that take this scheme as input

- ABCD (Access to Biological Collection Data) to Darwin Core
- CSDGM Extensions for Remote Sensing Metadata to ISO 19115
- Darwin Core to ABCD (Access to Biological Collection Data)
- DataCite Metadata Schema to DDI (Data Documentation Initiative)



Mappings that give this scheme as output

- ABCD (Access to Biological Collection Data) to Darwin Core
- CSDGM Extensions for Remote Sensing Metadata to ISO 19115
- Darwin Core to ABCD (Access to Biological Collection Data)
- DataCite Metadata Schema to DDI (Data Documentation Initiative)





Website interface improvements

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

Version history

2019-12-20 version 0.2 (current)

Sample: [EngMeta_example_v0.2.xml](#)

[View specification](#)

[View specification in XSD format](#)

[Edit version](#)

Relationships to other metadata standards

- This scheme is a profile of [DataCite Metadata Schema](#).
- This scheme is a profile of [PREMIS](#).

[Edit this record](#)

[Add another version](#)



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](#)
- [AGRIS - International System for Agricultural Science and Technology](#)

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

- ➊ Add relationships from either end
- ➋ New workflow for editing versions.
- ➌ New indexes and pages for organizations, mappings, and endorsements
- ➍ 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;



New API interface

 Old-style API calls deprecated

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

{
  "metadata-schemes": [
    {
      "id": 1,
      "slug": "abcd-access-biological-collection-da"
    },
    {
      "id": 2,
      "slug": "agmes-agricultural-metadata-element-"
    },
    {
      "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/",
    "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/m
    "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

```
$ curl https://rdamsc.bath.ac.uk/api2/datatype

{
  "apiVersion": "2.0.0",
  "data": {
    "currentItemCount": 2,
    "items": [ {
      "id": "https://www.w3.org/TR/vocab-dcat/#c
      "label": "Catalog",
      "mscid": "msc:datatype1",
      "uri": "https://rdamsc.bath.ac.uk/api2/dat
    }, {
      "id": "https://www.w3.org/TR/vocab-dcat/#c
      "label": "Dataset",
      "mscid": "msc:datatype2",
      "uri": "https://rdamsc.bath.ac.uk/api2/dat
```



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 thesarus

```
$ curl -L http://rdamsc.bath.ac.uk/api2/thesauru
{
  "apiVersion": "2.0.0",
  "data": {
    "currentItemCount": 10,
    "items": [ {
      "@context": {
        "skos": "http://www.w3.org/2004/02/skos/
      },
      "@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>