Metadata Standards Catalog

Demonstration and update

Alex Ball

University of Bath

RDA Plenary 10, Montreal

19 September 2017
Previously, in the Metadata Standards Catalog Working Group
Motivation

We want to get researchers using standard metadata schemes, but

- they might not know of a standard relevant to their data
- even if they do, they might not know how to use it
- even if they do, it might seem too much like hard work
- even if it doesn’t, an ad hoc scheme might seem like a better fit

The Metadata Standards Catalog will

- make it easier to find out about standards
- make it easier to use standards (tools, examples)
- help with adapting and migrating between standards
While data curators, and increasingly researchers, know that good metadata is key for research data access and re-use, figuring out precisely what metadata to capture and how to capture it is a complex task. Fortunately, many academic disciplines have supported initiatives to formalise the metadata specifications the community deems to be required for data re-use. This page provides links to information about these disciplinary metadata standards, including profiles, tools to implement the standards, and use cases of data repositories currently implementing them.

For those disciplines that have not yet settled on a metadata standard, and for those repositories that work with data across disciplines, the General Research Data section links to information about broader metadata standards that have been adapted to suit the needs of research data.

**Search by Discipline**
- Biology
- Earth Science
- General Research Data
- Physical Science
- Social Science & Humanities

**Search by Resource Type**
- Metadata Standards: Specifications for the minimum information that should be collected about research data in order for it to be re-used.
- Profiles and Extensions: Standards that have been adapted for use in particular types of repositories, or for particular types of data.
- Use cases: Institutional repositories and data portals using standards to determine which metadata should be collected upon data deposit.
- Tools: Software that has been developed to capture or store metadata conforming to a specific standard.

**Metadata Standards Directory**

**Multidisciplinary Metadata**

- Biology
- Earth Science
- General Research Data
- Physical Science
- Social Science & Humanities

**Metadata Standards Directory Working Group**

The RDA Metadata Standards Directory Working Group is supported by individuals and organizations involved in the development, implementation, and use of metadata for scientific data. The overarching goal is to develop a collaborative, open directory of metadata standards applicable to scientific data that can address infrastructure challenges.

[http://www.dcc.ac.uk/resources/metadata-standards](http://www.dcc.ac.uk/resources/metadata-standards)


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19 September 2017

[rd-alliance.org](http://rd-alliance.org)
So why did we need a new Catalog?

› Search, not just browse

› Access data with machine-to-machine protocols

› Richer information
  - versions, mapping directionality, endorsements
  - greater use of entity relationships

› More services
  - Extracting what you need from compliant metadata . . .
  - Calculating migration pathways . . .
  - Comparing elements in different schemes . . .
  - Generating ‘first-pass’ converters . . .
Migrating the data: DCC/MSD data model

More specific profile → Metadata standard

Metadata standard → Helper tool

Metadata standard → Use case

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Migrating the data: MSC data model

Endorsement of Metadata Scheme profile of Metadata Scheme Version 1 Version 2

Mapping from to

Tool supports Organization

funder, maintainer

funder, funder, maintainer

maintainer, user
Metadata Standards Catalog

The RDA Metadata Standards Catalog is a collaborative, open directory of metadata standards applicable to research data. It is offered to the international academic community to help address infrastructure challenges.

Metadata standards, profiles and schemes

- Browse by scheme name
- Browse by subject
- Search

Metadata-related tools

- Browse by tool name
And now, in the Metadata Standards Catalog Working Group
Progress since Plenary 9

- Fixed bugs
- Improved how database is backed up to YAML
- Added admin functions for managing users
- Added and updated records
- Documented how to log in with RDA site account
- Documented terms of use
- Added ability to edit/remove user profiles
- Added API account management
- Make changes to database via API implemented
- Worked on integration with DMPonline
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Demo
Future developments

**GUI**
- Highlight standards bodies
- Dynamic filtering while browsing
- Side-by-side specifications
- Version history as timeline
- Search by article DOI
- Show maturity rating for schemes

**API**
- Query standards by their elements
- Query by element value encoding
- Query by article DOI
- Calculate crosswalks

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More information

› Track progress against requirements:
  - github.com/rd-alliance/metadata-catalog-dev/issues

› View the new data model:
  - github.com/rd-alliance/metadata-catalog-dev/tree/master/db

› Try out a local instance of the prototype Catalog:
  - github.com/rd-alliance/metadata-catalog-dev

› Try out the actual live Catalog:
  - Coming soon . . .
Thank you for your attention