

DataCite Dublin Core (DC2) Application Profile: Progress Report

Working Group members:

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Background

- Inaugural meeting on June 2, 2011
- Initiators:
 - Joan Starr, DataCite
 - Jane Greenberg, DC-SAM Community
- Objectives
 - Develop a formal 'DataCite' Dublin Core application profile (DC2AP) based on Dublin Core's Singapore Framework for Application Profiles.
 - Document a methodology for updating the profile on an ongoing basis and identify responsibilities.

Metadata models and schemas

- DC2AP builds on:
 - DataCite Metadata Schema 2.2 <http://schema.datacite.org/>
 - Dublin Core <http://dublincore.org/specifications/>
 - Singapore Framework for Application Profiles <http://dublincore.org/documents/singapore-framework/index.shtml>
 - Scholarly Works Application Profile (SWAP) http://www.ukoln.ac.uk/repositories/digirep/index/Eprints_Application_Profile

Functional requirements

- Resolve a dataset identifier (i.e., a DataCite DOI) to a network location
- Discover a dataset by
 - author
 - description
 - etc.
- Establish links between datasets and their publications

Mandatory properties:

1. Identifier (with type attribute)
2. Creator (with name identifier attributes)
3. Title (with optional type attribute)
4. Publisher
5. PublicationYear

Optional properties:

6. Subject (with schema attribute)
 7. Contributor (with type and name identifier attributes)
 8. Date (with type attribute)
 9. Language
 10. ResourceType (with description attribute)
 11. **AlternateIdentifier** (with type attribute)
 12. **RelatedIdentifier** (with type and relation type attributes)
 13. Size
 14. Format
 15. **Version**
 16. **Rights**
 17. **Description** (with type attribute)
- 0.1 LastMetadataUpdate
0.2 MetadataVersionNumber

DataCite Schema 2.2

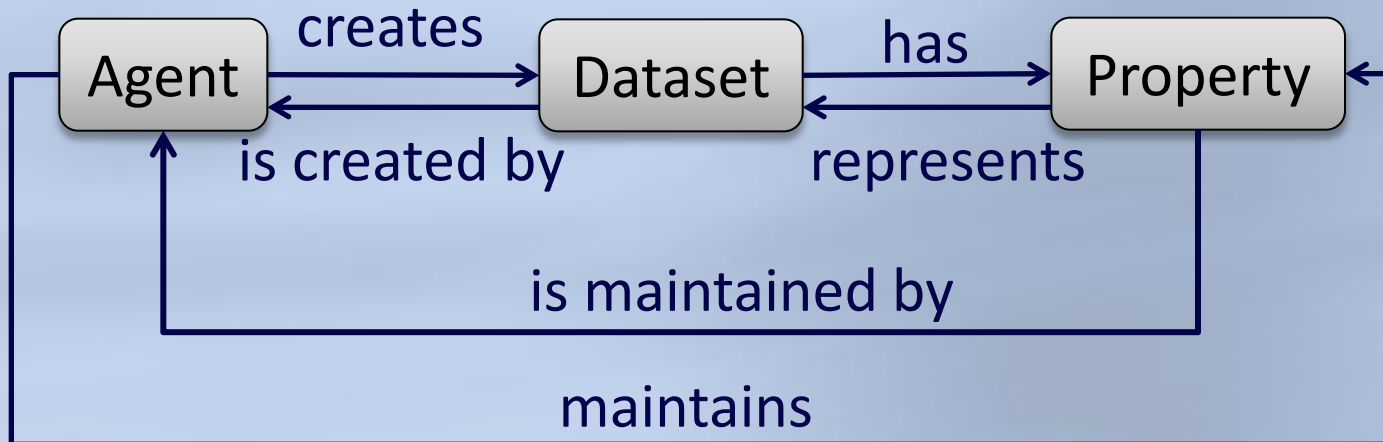
Rationale for creating DC2AP

- Formalize the DataCite metadata schema by leveraging the DCAP framework
- Confirm interoperability with DC
- Develop a model for future updates, maintenance, and reuse of the DataCite metadata schema

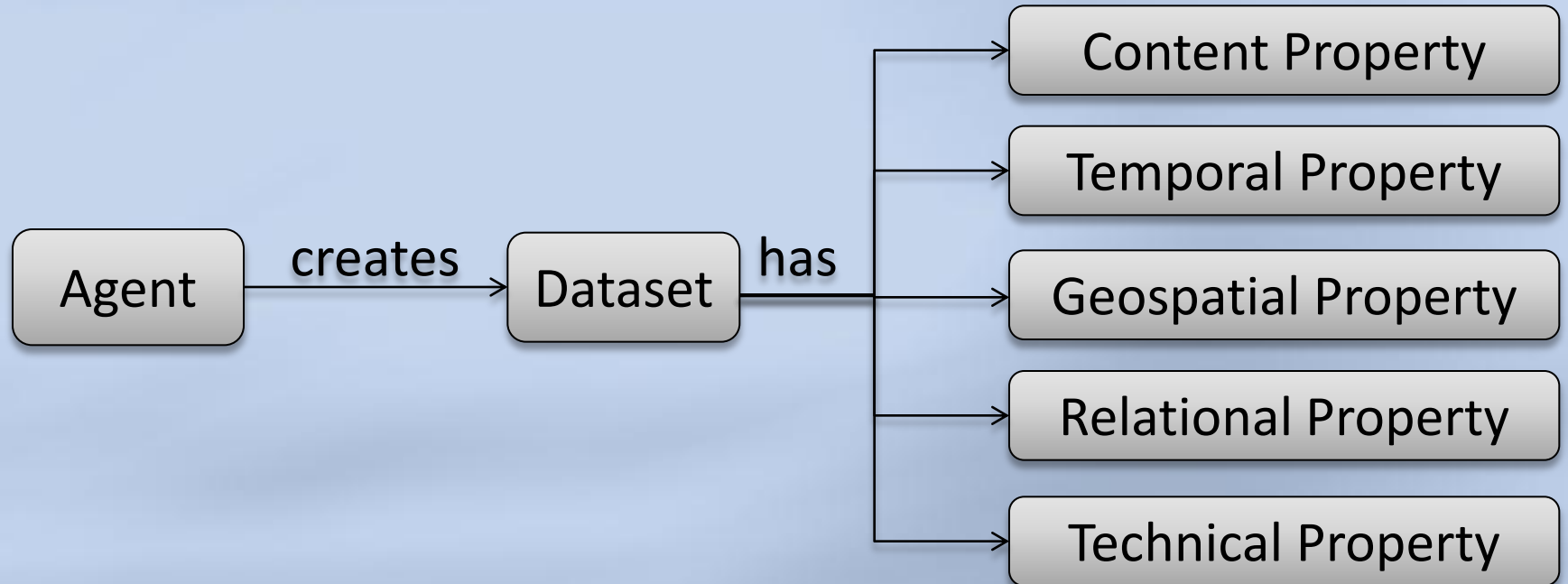
Domain model

DC2AP Functions:

- Cite datasets
- Discover datasets and related publications by search and browse
- Select datasets
- Obtain datasets



Domain model drilled down



Property groups

Temporal Properties

PublicationYear
Date: Accepted
Date: Available
Date: Copyrighted
Date: Created
Date: Issued
Date: Submitted
Date: Updated
Date: Valid

Content Properties

Title
Title: Alternative title
Title: Subtitle
Title: Translated title
Subject
Description: Abstract
Description: Series Information
Description: Table of contents
Description: Other

Relational Properties

- Is cited by
- Cites
- Is supplement to
- Is supplemented by
- Is continued by
- Continues
- Is new version of
- Is previous version of
- Is part of
- Has part
- Is referenced by
- References
- Is documented by
- Documents
- Is compiled by
- Compiles
- Is variant form of
- Is original form of

Technical Properties

Size
Format
Version
Rights

Geospatial Properties

None

Current status

- The domain model to be improved
- Development of an RDF version of the DC2AP is underway
- Usage guidelines to be developed
- Syntax guidelines to be developed
- Working toward ensuring the ongoing maintenance of the DC2AP
- Target release date: January 2012?
- Others?

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Questions?