

Network Working Group  
Request for Comments: 5013  
Obsoletes: 2413  
Category: Informational

J. Kunze  
University of California  
T. Baker  
Dublin Core Metadata Initiative  
August 2007

## The Dublin Core Metadata Element Set

### Status of This Memo

This memo provides information for the Internet community. It does not specify an Internet standard of any kind. Distribution of this memo is unlimited.

### Abstract

This document defines fifteen metadata elements for resource description in a cross-disciplinary information environment.

### 1. Introduction

The Dublin Core Metadata Workshop Series began in 1995 with an invitational workshop that brought together librarians, digital library researchers, content experts, and text-markup experts to promote better discovery standards for electronic resources. The resulting metadata element set defines fifteen metadata elements for resource description in a cross-disciplinary information environment.

This document contains the current text of Dublin Core "Version 1.1". Version 1.1 is the basis of ANSI/NISO Z39.85-2001 [Z39.85]. The text in the present RFC closely follows the text in the 2007 revision of ANSI/NISO Z39.85, especially Sections 2-6 and 10-12 [Z39.85-2007]. The present RFC obsoletes RFC 2413 [RFC2413], which was the first published version of the Dublin Core ("Version 1.0"). The main differences between the present RFC and RFC 2413 are in the wording of definitions -- for Contributor and Date (semantically broadened), for Relation (clarified), and in the general removing of redundant references to "the content of" a resource. In addition, the present RFC recommends lowercase element names (consistent with RDF property types), remains silent about the unrestrictedness of element ordering and repeatability (application profiles being the proper place to discuss such topics), and references the current abstract model, vocabularies, and namespace policies in which the Dublin Core is embedded.

## 2. Foreword

The Dublin Core Metadata Element Set is a vocabulary of fifteen properties for use in resource description. The name "Dublin" is due to its origin at a 1995 invitational workshop in Dublin, Ohio; "core" because its elements are broad and generic, usable for describing a wide range of resources.

The fifteen element "Dublin Core" described in this document is part of a larger set of metadata vocabularies and technical specifications maintained by the Dublin Core Metadata Initiative (DCMI). The full set of vocabularies, DCMI Metadata Terms [DCTERMS], also includes a set of resource classes, the DCMI Type Vocabulary [DCTYPE]. The terms in DCMI vocabularies are intended to be used in combination with terms from other compatible vocabularies in the context of application profiles and on the basis of the DCMI Abstract Model [DCAM].

All changes made to terms of the Dublin Core Metadata Element Set since 2001 have been reviewed by a DCMI Usage Board in the context of a DCMI Namespace Policy [DCNMSPC]. The namespace policy describes how DCMI terms are assigned Uniform Resource Identifiers (URIs) and sets limits on the range of editorial changes that may allowably be made to the labels, definitions, and usage comments associated with existing DCMI terms.

## 3. Scope and Purpose

The Dublin Core Metadata Element Set is a standard for cross-domain resource description. As in RFC 3986 [RFC3986], "Uniform Resource Identifier (URI): Generic Syntax", this specification does not limit the scope of what might be a resource.

The elements described in this document are typically used in the context of an application profile which constrains or specifies their use in accordance with local or community-based requirements and policies. The specification of such implementation detail is outside the scope of this document.

#### 4. Definitions

DCMI -- the Dublin Core Metadata Initiative, maintenance agency for Dublin Core Metadata Element Set.

Resource -- anything that might be identified (the same definition as in RFC 3986 and in the DCMI Abstract Model).

Lifecycle of a resource -- a sequence of events that mark the development and use of a resource. Some examples of events in a lifecycle are: conception of an invention, creation of a draft, revision of an article, publication of a book, acquisition by a library, transcription to magnetic disk, migration to optical storage, translation into English, and derivation of a new work (e.g., a movie).

#### 5. The Element Set

In the element descriptions below, each element has a descriptive label ("label") for human consumption and a unique token ("name") for use in machine processing.

In accordance with the DCMI Namespace Policy [DCNMSPC], the "name" of an element is appended to a DCMI namespace URI to construct a Uniform Resource Identifier as a globally unique identifier for that element. The use of element names and URIs in the context of different implementation technologies is explained in DCMI Encoding Guidelines [DCENCOD].

#### 6. The Elements

Element Name: title

Label: Title

Definition: A name given to the resource.

Element Name: creator

Label: Creator

Definition: An entity primarily responsible for making the resource.

Comment: Examples of a Creator include a person, an organization, or a service. Typically, the name of a Creator should be used to indicate the entity.

Element Name: subject

Label: Subject

Definition: The topic of the resource.

Comment: Typically, the subject will be represented using keywords, key phrases, or classification codes. Recommended best practice is to use a controlled vocabulary. To describe the spatial or temporal topic of the resource, use the Coverage element.

Element Name: description

Label: Description

Definition: An account of the resource.

Comment: Description may include but is not limited to: an abstract, a table of contents, a graphical representation, or a free-text account of the resource.

Element Name: publisher

Label: Publisher

Definition: An entity responsible for making the resource available.

Comment: Examples of a Publisher include a person, an organization, or a service. Typically, the name of a Publisher should be used to indicate the entity.

Element Name: contributor

Label: Contributor

Definition: An entity responsible for making contributions to the resource.

Comment: Examples of a Contributor include a person, an organization, or a service. Typically, the name of a Contributor should be used to indicate the entity.

Element Name: date

Label: Date

Definition: A point or period of time associated with an event in the lifecycle of the resource.

Comment: Date may be used to express temporal information at any level of granularity. Recommended best practice is to use an encoding scheme, such as the W3CDTF profile of ISO 8601 [W3CDTF].

Element Name: type

Label: Type

Definition: The nature or genre of the resource.

Comment: Recommended best practice is to use a controlled vocabulary such as the DCMI Type Vocabulary [DCTYPE]. To describe the file format, physical medium, or dimensions of the resource, use the Format element.

Element Name: format

Label: Format

Definition: The file format, physical medium, or dimensions of the resource.

Comment: Examples of dimensions include size and duration. Recommended best practice is to use a controlled vocabulary such as the list of Internet Media Types [MIME].

Element Name: identifier

Label: Identifier

Definition: An unambiguous reference to the resource within a given context.

Comment: Recommended best practice is to identify the resource by means of a string conforming to a formal identification system.

Element Name: source

Label: Source

Definition: A related resource from which the described resource is derived.

Comment: The described resource may be derived from the related resource in whole or in part. Recommended best practice is to identify the related resource by means of a string conforming to a formal identification system.

Element Name: language

Label: Language

Definition: A language of the resource.

Comment: Recommended best practice is to use a controlled vocabulary such as RFC 4646 [RFC4646].

Element Name: relation

Label: Relation

Definition: A related resource.

Comment: Recommended best practice is to identify the related resource by means of a string conforming to a formal identification system.

Element Name: coverage

Label: Coverage

Definition: The spatial or temporal topic of the resource, the spatial applicability of the resource, or the jurisdiction under which the resource is relevant.

Comment: Spatial topic and spatial applicability may be a named place or a location specified by its geographic coordinates. Temporal topic may be a named period, date, or date range. A jurisdiction may be a named administrative entity or a geographic place to which the resource applies. Recommended best practice is to use a controlled vocabulary such as the Thesaurus of Geographic Names [TGN]. Where appropriate, named places or time periods can be used in preference to numeric identifiers such as sets of coordinates or date ranges.

Element Name: rights

Label: Rights

Definition: Information about rights held in and over the resource.

Comment: Typically, rights information includes a statement about various property rights associated with the resource, including intellectual property rights.

## 7. Security Considerations

The Dublin Core element set poses no risk to computers and networks. It poses minimal risk to searchers who obtain incorrect or private information due to careless mapping from rich data descriptions to the Dublin Core elements. No other security concerns are likely.

## 10. Informative References

[DCAM] DCMI Abstract Model.  
<http://dublincore.org/documents/abstract-model/>

[DCENCOD] DCMI Encoding Guidelines.  
<http://dublincore.org/resources/expressions/>

- [DCNMSPC] DCMI Namespace Policy.  
<http://dublincore.org/documents/dcmi-namespace/>
- [DCTERMS] DCMI Metadata Terms.  
<http://dublincore.org/documents/dcmi-terms/>
- [DCTYPE] DCMI Type Vocabulary.  
<http://dublincore.org/documents/dcmi-type-vocabulary/>
- [ISO3166] ISO 3166 - Codes for the representation of names of countries. <http://www.din.de/>
- [MIME] Internet Media Types.  
<http://www.iana.org/assignments/media-types/>
- [RDF] Resource Description Framework. <http://www.w3.org/RDF/>
- [RFC2413] Weibel, S., Kunze, J., Lagoze, C., and M. Wolf, "Dublin Core Metadata for Resource Discovery", RFC 2413, September 1998.
- [RFC2731] Kunze, J., "Encoding Dublin Core Metadata in HTML", RFC 2731, December 1999.
- [RFC3986] Berners-Lee, T., Fielding, R., and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", STD 66, RFC 3986, January 2005.
- [RFC4646] Phillips, A. and M. Davis, "Tags for Identifying Languages", BCP 47, RFC 4646, September 2006.
- [TGN] Getty Thesaurus of Geographic Names.  
<http://www.getty.edu/research/tools/vocabulary/tgn/index.html>
- [W3CDTF] Date and Time Formats, W3C Note.  
<http://www.w3.org/TR/NOTE-datetime>
- [Z39.85] ANSI/NISO Standard Z39.85-2001 - The Dublin Core Metadata Element Set.  
<http://www.niso.org/standards/resources/Z39-85.pdf>
- [Z39.85-2007] ANSI/NISO Standard Z39.85-2007 - The Dublin Core Metadata Element Set.  
<http://www.niso.org/standards/resources/Z39-85-2007.pdf>

## Appendix A: Further Reading

(This appendix is not part of the Z39.85 standard. It is included for information only.)

Further information about the Dublin Core metadata element set is available at the URL,

<http://dublincore.org/>

This Web site contains information about workshops, reports, working group papers, projects, and new developments concerning the Dublin Core Metadata Initiative (DCMI).

## Appendix B: Maintenance Agency

(This appendix is not part of the Z39.85 standard. It is included for information only.)

The Dublin Core Metadata Initiative (DCMI) is responsible for the development, standardization, and promotion of the Dublin Core metadata element set. Information on DCMI is available at the URL,

<http://dublincore.org/>

## Authors' Addresses

John A. Kunze  
California Digital Library  
University of California, Office of the President  
415 20th St, 4th Floor  
Oakland, CA 94612-3550, USA

Fax: +1 510-893-5212

EMail: [jak@ucop.edu](mailto:jak@ucop.edu)

Thomas Baker  
Director, Specifications and Documentation  
Dublin Core Metadata Initiative  
c/o OCLC Research  
Dublin, OH 43017, USA

EMail: [tbaker@tbaker.de](mailto:tbaker@tbaker.de)

## Full Copyright Statement

Copyright (C) The IETF Trust (2007).

This document is subject to the rights, licenses and restrictions contained in BCP 78, and except as set forth therein, the authors retain all their rights.

This document and the information contained herein are provided on an "AS IS" basis and THE CONTRIBUTOR, THE ORGANIZATION HE/SHE REPRESENTS OR IS SPONSORED BY (IF ANY), THE INTERNET SOCIETY, THE IETF TRUST AND THE INTERNET ENGINEERING TASK FORCE DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

## Intellectual Property

The IETF takes no position regarding the validity or scope of any Intellectual Property Rights or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; nor does it represent that it has made any independent effort to identify any such rights. Information on the procedures with respect to rights in RFC documents can be found in BCP 78 and BCP 79.

Copies of IPR disclosures made to the IETF Secretariat and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this specification can be obtained from the IETF on-line IPR repository at <http://www.ietf.org/ipr>.

The IETF invites any interested party to bring to its attention any copyrights, patents or patent applications, or other proprietary rights that may cover technology that may be required to implement this standard. Please address the information to the IETF at [ietf-ipr@ietf.org](mailto:ietf-ipr@ietf.org).

