
DC-Library Application Profile

revision 2009

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DC-Lib

- Identifier:
<http://dublincore.org/documents/2004/09/10/libra>
- Creator: DCMI-Libraries Working Group
- Date Issued: 2004-09-10
- Description: ... proposes a possible application profile that clarifies the use of the Dublin Core Metadata Element Set in libraries and library-related applications and projects ...

DC-Lib uses terms ...

- Elements
- Qualifiers
 - Refinement
 - Encoding Scheme

... from two namespaces

- DCMI Metadata Terms

<http://dublincore.org/documents/dcmi-terms/>

- MODS

- DateCaptured = element refinement
- Edition = element
- Location = element

What changed since then?

- Singapore Framework
 - DC-Lib is not conform with Singapore Framwork
- Dublin Core Abstract Model (DCAM)
 - MODS elements are not conform with DCAM
 - Instead of elements and qualifiers DCAM talks about classes, properties, SES and VES

Revision of DC-Lib based on

- The Singapore Framework for Dublin Core Application Profiles
<http://dublincore.org/architecturewiki/SingaporeF>
- Criteria for the Review of Application Profiles
<http://dublincore.org/documents/2009/03/02/prof>
- DCMI Abstract Model
<http://dublincore.org/documents/abstract-model/>

Requirements

- Singapore Framework and Review Criteria require
 - Objectives and Scope
 - Functional Requirements
 - Domain model
 - Description Set Profile

Revision of DC-Lib

- Domain model based on
 - Functional Requirements for Bibliographic Records
<http://www.ifla.org/en/publications/functional-requirements-for-bibliographic-records>
- Description Set Profile based on
 - Description Set Profiles: A constraint language for Dublin Core Application Profiles
<http://dublincore.org/documents/2008/03/31/dc-dsp/>
 - DC-Text: A Text Syntax for Dublin Core Metadata
<http://dublincore.org/architecturewiki/DCText>

DC-Lib: Objectives and Scope

- [MUST] – Context in which the application profile is used (or can be used)
 - a Dublin Core Application Profile for libraries.
 - not so granular and complex as the DCMI/RDA Application Profiles
 - nevertheless adequate for the description of all sorts of publications in- and outside the library world
 - supports the interoperability of Dublin Core based librarian and non-librarian metadata applications with rules and formats of the librarian world

DC-Lib: Objectives and Scope

- [SHOULD] – Target user group
 - Target user groups of this profile are
 - Developers from the library and non-library world who want to build a simple metadata application for publications.
 - Information providers who want to integrate bibliographic data into their metadata services.

DC-Lib: Objectives and Scope

- [SHOULD] - Organisations and individuals who participated in the development of the profile
 - The profile is a product of the "DCMI Library Application Profile Task Group" ...
- [SHOULD] - Arrangements, guidelines, or intentions regarding the future development and maintenance
 - ... that is responsible for further changes and maintenance. The profile will be submitted for review to the Dublin Core Usage Board.

DC-Lib: Objectives and Scope

- <http://dublincore.org/librarieswiki/RevisionDraft>
- Questions:
 - Is the information about „objectives and scope“ sufficient?
 - Why do we need DC-Lib – also when DCMI/RDA is on the way?

DC-Lib: Functional Requirements

- [MUST] - The functions of an application with regard to user needs
- defined as general functions
 - four generic user tasks (see FRBR):
 - find an entity
 - identify an entity
 - select an entity
 - acquire or obtain an entity

DC-Lib: Functional Requirements

- Maybe more specific
 - DC-Lib AP defines nine use cases as the specific functions the profile has to achieve:
- <http://dublincore.org/librarieswiki/FunctionalRequ>
- Questions:
 - Are these use cases and requirements are really relevant for the DC-Lib?
 - Are there more use cases and requirements than listed here?

DC-Lib: Domain Model

- [MUST] - A data model which describes the entities and relationships among the entities
- can be based on an externally defined data model
 - based on FRBR
 - build on the entities of Group 1 of FRBR
 - WORK
 - EXPRESSION
 - MANIFESTATION
 - ITEM

DC-Lib: FRBR – Group 1

- <http://dublincore.org/lik>
- Relationships between these entities
 - is realized through
 - is embodied in
 - is exemplified by
- Further relations defined by DC-Lib
 - Source
 - relation
 - isVersionOf
 - isFormatOf - hasFormat
 - isReplacedBy or replaces
 - isPartOf or hasPart
 - requires
 - IsReferencedBy or references

DC-Lib: FRBR – Group 1

- Questions:
 - Is the FRBR model adequate for DC-Lib?
 - Do we need all these relations?
 - Can we use „isVersionOf – hasVersion“ and „isFormatOf – hasFormat“ instead of FRBRs „is realized through“ and „is embodied in“?

Relations Group 1

- FRBR: Is realized through
- DCMI: IsVersionOf
 - The described resource is a version, edition, or adaptation of the referenced resource. Changes in the version implies substantive changes in content rather than differences in format

Relations Group 1

- FRBR: Is embodied in
- DCMI: IsFormatOf
 - The described resource is the same intellectual content of the referenced resource, but presented in another format.

DC-Lib: Domain Model

- <http://dublincore.org/librarieswiki/EntityRelationshipMoc>
- build on the entities of Group 2 of FRBR
 - PERSON
 - CORPORATE BODY
- build on the entities of Group 3 of FRBR
 - CONCEPT
 - OBJECT
 - EVENT
 - PLACE

DC-Lib: FRBR - Group 2 and 3

- DC-Lib defines the following relationships between Group 1 and Group 2
 - is created by
 - is contributed by
 - is published by
 - is available at
 - has subject
- DC-Lib defines the following relationships between Group 1 and Group 3
 - Has subject

DC-Lib: FRBR - Group 2 and 3

- <http://dublincore.org/librarieswiki/EntityRelations>
- Question:
 - Do we need a Description Template for Group 2 or can we refer to FOAF etc.?
 - Do we need a Description Template for Group 3 or can we refer to SKOS etc.?

DC-Lib: further attributes

- Attributes in addition to the relationships named above:
 - WORK: intended audience
 - EXPRESSION: titles of the expression, form of the expression, date of creation, of validity, date copyrighted, submitted and accepted, language of expression, summarization of the content, version of the expression, bibliographic citation

DC-Lib: further attributes

- Attributes in addition to the relationships named above:
 - MANIFESTATION: date of publication, form of carrier, extent of the carrier, physical medium, identifier of the manifestation, access restrictions on the manifestation, date of modification, date of creation
 - ITEM: availability of the item and date of availability

DC-Lib: further attributes

- Question:
 - Do we need all these attributes?
 - Do we need more than these?

Description Set Profile

- DSP = Terms
- Description Template
- Statement Template
- Value String Constraints

DC-Lib uses TERMS ...

- Dublin Core 2004
 - Elements
 - Qualifiers
 - Element refinements
 - Encoding schemes
- DCAM
 - Classes
 - Properties
 - Vocabulary Encoding Scheme
 - Syntax Encoding Scheme

TERMS

- [MUST] be one of the four types of metadata terms with a defined role in DCAM:
 - an RDF property
 - a class
 - an RDF Datatype or SES
 - a VES
- property, class, SES and VES [MUST] be identified with proper URIs

Next steps

- Revision of the drafts
- Check DC-Lib Terms
 - Are the DC-Lib Terms adequate for the relations and further attributes, we listed above?
 - Are the DC-Lib Terms adequate to fulfill the functional requirements?
 - Are all terms named as one of the four types of metadata terms with a defined role in DCAM?
 - Do all terms have proper URIs?