RDF-Representation of Bibliographic Data

A Best Practice Guide of the DINI AG KIM

Dublin Core Conference 2013, Lisbon
Stefanie Ruehle (State and University Library, Goettingen)
Overview

- About DINI AG KIM
- AG Titeldaten = Task Group Bibliographic Data
- Best Practice Guide for Bibliographic Data
DINI AG KIM
http://www.dini.de/ag/standards/
• a working group of the German Initiative of Network Information (DINI)
• a communication platform for knowledge exchange with national and international metadata projects
• a forum for German speaking metadata users and developers
• an infrastructure for working together on solutions concerning metadata and linked data
Communities

- **Linked Library Data (Chair: Kai Eckert)**
  - Information about linked data activities in the library world esp. in the German speaking countries.

- **Authorities (Chair: Alexander Haffner)**
  - Information about authorities and KOS, esp. the publication of KOS as linked data

- **Research Data (Chair: Dominik Schmitz)**
  - Information about metadata and research data.

- **Metadata for Digitisation (Chair: Sebastian Meyer)**
  - Information about metadata used for digitized objects, esp. the use of METS and EAD to describe digitised objects.
Task Groups

- **License** (Chair: Adrian Pohl)
  - Published a recommendation to open bibliographic data in Oct. 2011
  - [https://wiki.dnb.de/pages/viewpage.action?pageId=45419980](https://wiki.dnb.de/pages/viewpage.action?pageId=45419980)

- **Bibliographic data** (Chair: Julia Hauser)
  - A recommendation for the RDF-representation of bibliographic data.
    Will be published as DINI-publication in Oct. 2011
  - Current version:
    [https://wiki.dnb.de/pages/viewpage.action?pageId=68060017](https://wiki.dnb.de/pages/viewpage.action?pageId=68060017)

- **Bestandsdaten** (Chair: Carsten Klee)
  - A recommendation for the RDF-representation of holding information.
  - Discussion in English

- **More about the KIM Groups:**
  - [https://wiki.dnb.de/display/DINIAGKIM/Gruppen](https://wiki.dnb.de/display/DINIAGKIM/Gruppen)
AG Titeldaten

https://wiki.dnb.de/display/DINIAGKIM/Titeldaten+Gruppe
• Colleagues from the German Libray Networks, Austria and Switzerland
Participants, working on the guide

- Stefan Brecheisen - Bibliotheksverbund Bayern (BSB)
- Julia Hauser - Deutsche Nationalbibliothek (DNB)
- Sarah Hartmann - Deutsche Nationalbibliothek (DNB)
- Dieter Janka - Bibliotheksservice-Zentrum Baden-Württemberg (BSZ)
- Andreas Kahl - Bayerische Staatsbibliothek (BSB)
- Cornelia Katz – Bibliotheksservice-Zentrum Baden-Württemberg (BSZ)
- Adrian Pohl - Hochschulbibliothekszentrum des Landes Nordrhein-Westfalen (hbz)
- Stefanie Rühle – Niedersächsische Staats- und Universitätsbibliothek (SUB) Göttingen
- Verena Schaffner Österreichischer Bibliothekenverbund und Service GmgH (OBVSG)
- Christiane Schmidt - Schweizerische Nationalbibliothek
- Stephani Scholz – Hochschulbibliothekszentrum des Landes Nordrhein-Westfalen (hbz)
- Thomas Striffler – Hessisches Bibliotheks- und Informationssystem (HeBIS)
- Pascal Christoph – Hochschulbibliothekszentrum des Landes Nordrhein-Westfalen (hbz)
Publication of Bibliographic data in RDF in the German speaking countries

lobid.org

lod.b3kat.de

lod.hebis.de

dnb.de/lds

ld.zdb-services.de

BSZ

GBV

obv sg
Why a Task Group?

- Information exchange on a working level
- Learn from experience and competence of others
- Feedback to new LoD Services
- Discuss the metadata modelling process
Purpose and Scope of the Task Group

• Enhance the interoperability of linked data
• Facilitate the reuse of bibliographic data
• Make bibliographic data usable for other (non-librarian) organisations
• Support a standardized representation of linked data
• by
  – harmonising the bibliographic data published as linked data
  – Publishing a recommendation / best practice for the RDF-representation of bibliographic data
Best Practice Guide

https://wiki.dnb.de/pages/viewpage.action?pageId=68060017
Step …

Define the main groups of a bibliographic description

Identify the core elements for the description of text resources

Mapping of vocabularies used in the different Linked Data Services

Apoint RDF-compliant properties and map them to MARC 21
**Main Groups of a Bibliographic Description**

<table>
<thead>
<tr>
<th>Title Information</th>
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<th>Contributors</th>
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<th>Relations</th>
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<table>
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<th>Subject</th>
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<tr>
<th>Identifier</th>
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... by step ...

Identify the core elements for the description of text resources

Define the main groups of a bibliographic description
Core Elements

Title: abbreviated, translated, alternative, uniform

Contributors: creator, contributor, publisher

Time: issued

Places: place of publication

Languages: language

Types: media type, document type medium

Relations: parts, versions, formats, preceding, succeeding

Subject: topic, person, corporate body, place, time, event

Identifier: issn, isbn, doi, urn
... by step ...

Mapping of vocabularies used in the different Linked Data Services

Identify the core elements for the description of text resources

Define the main groups of a bibliographic description
Mapping of the vocabularies used by Linked Data Services

https://wiki.dnb.de/display/DINIApG/KIM/Angewandte+Vokabulare

DC 2013, 5. Sept. 2013, Lisbon
... by step ...

Define the main groups of a bibliographic description

Identify the core elements for the description of text resources

Mapping of vocabularies used in the different Linked Data Services

Apoint RDF-compliant properties and map them to MARC 21
Appoint RDF-Compliant Properties ...

- by using generally acknowledged metadata standards

RDA
RESOURCE DESCRIPTION & ACCESS

schema.org

Dublin Core

The Bibliographic Ontology

umbel

W3C RDF
... and map them to MARC 21

→ https://wiki.dnb.de/pages/viewpage.action?pageId=68061169
Define the main groups of a bibliographic description

Identify the core elements for the description of text resources

Mapping of vocabularies used in the different Linked Data Services

Define RDF-compliant properties and map them to MARC 21

Publish a Best Practice Guide
Publish a Best Practice Guide

Publication in KIM Wiki
https://wiki.dnb.de/pages/viewpage.action?pageId=68060017

Publication as a DINI recommendation at DINI annual meeting 8./9. Oct. 2013

Adoption of the recommendation by the Linked Data Services in the German speaking countries
• Already used by the German National Library (DNB)
Further steps

- Further mappings – e.g. MODS
- Check Usability of the recommendation for other resources (e.g. musical notation)
- Expansion of the core element set
- Keep an eye on BIBFRAME-Initiative
WILLKOMMEN BEI KIM!

Das Kompetenzzentrum Interoperable Metadaten (KIM) ist eine Informations- und Kommunikationsplattform für Metadatenanwender und -entwickler zu den Themen:

- Anwendungsbreitende Integration von Metadaten
- Nationale und internationale Metadatenstandards
- Anschluss der deutschsprachigen Community an die Dublin-Core-Community

KIM fördert und unterstützt die Erarbeitung von Metadatenstandards, die interoperable Gestaltung von Formaten und damit die optimale Nutzung von Metadaten in digitalen Informationsumgebungen mittels

- Lehrelementen
- Schulungen
- Beratungen

gefördert von:

Deutsche Forschungsgemeinschaft (DFG)

unterstützt von:

Deutsche Initiative für Informations- und Kommunikation (DIN)
Competence Center for Interoperable Metadata

www.kim-forum.org

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