

16 February 2018

# Data Service: Changes in the RDF format from 15 May 2018 (Export Release 2018.02)

## 1. Release schedule

Dear Sir or Madam

As part of the scheduled export format release planning<sup>1</sup> of the German National Library (DNB), the next changes in the conversion and the data modelling will take place on 15 May 2018. (There may be disruptions to the interfaces and the Data Shop during the technical changeover between 08:00 and 12:00 noon on this day.)

## 2. Linked Data Service - General

### 2.1. Full copies

Mirroring the schedule of the export releases, updated full copies of the Integrated Authority File (GND<sup>2</sup>) and the bibliographic data of the DNB are made available for downloading in the RDF/XML, Turtle and JSON-LD serialisation forms and also as an HDT file<sup>3</sup> in February, June and October<sup>4</sup>. The full copies of the bibliographic data of the German Union Catalogue of Serials (ZDB) are updated each March and September.

### 2.2. Prefixes used in the document

	bibo:	<a href="http://purl.org/ontology/bibo/">http://purl.org/ontology/bibo/</a>
	dc:	<a href="http://purl.org/dc/elements/1.1/">http://purl.org/dc/elements/1.1/</a>
	dcterms:	<a href="http://purl.org/dc/terms/">http://purl.org/dc/terms/</a>
	dnbt:	<a href="http://d-nb.info/standards/elementset/dnb#">http://d-nb.info/standards/elementset/dnb#</a>
	gndo:	<a href="http://d-nb.info/standards/elementset/gnd#">http://d-nb.info/standards/elementset/gnd#</a>
	rdf:	<a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a>
	rdfs:	<a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>
	schema:	<a href="http://schema.org/">http://schema.org/</a>

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<sup>1</sup> <https://wiki.dnb.de/x/wgcbBQ>

<sup>2</sup> <http://www.dnb.de/EN/gnd>

<sup>3</sup> Header, Dictionary, Triples; <http://www.rdfhdt.org/what-is-hdt/>

<sup>4</sup> <https://data.dnb.de/opendata/>

- | skos: <http://www.w3.org/2004/02/skos/core#>
- | vivo: <http://vivoweb.org/ontology/core#>

### 3. GND ontology changes

- | Revision: The "gndo:CorporateBody" class has been given four new subclasses: "gndo:Company", "gndo:MusicalCorporateBody", "gndo:ReligiousCorporateBody" and "gndo:ReligiousAdministrativeUnit"

### 4. GND conversion changes

- | Revision: Four further subtypes of corporate body ("gndo:CorporateBody") are explicitly labelled as such with `rdf:type`. These are the classes "gndo:Company", "gndo:MusicalCorporateBody", "gndo:ReligiousCorporateBody" and "gndo:ReligiousAdministrativeUnit". These are subclasses (`rdfs:subClassOf`) of "gndo:CorporateBody", cf. 3. Section, GND ontology. As is common practice in such cases, there is no further explicit assignment to the parent "gndo:CorporateBody" class

Examples in the test file:

<http://d-nb.info/gnd/6518137-2>, <http://d-nb.info/gnd/111260619X>,  
<http://d-nb.info/gnd/2001043-6>

## 5. Changes in the conversion of the bibliographic data of the German National Library and the German Union Catalogue of Serials

- | General information: Starting with this release, the conversion to RDF is no longer limited to particular types of record. As a consequence, some results of search requests using the OAI and SRU interfaces and the DNB Data Shop might include RDF entity descriptions for which the conversion process has not yet been fully optimised. Should you come across any, we would be pleased to receive your comments. There is no change to the number of records of the full copies, only entities which are fully supported are included.
- | Printed music:
  - o Revision: Component parts of music recordings ("schema:MusicRelease") are now being distinctly labelled using "`rdf:type schema:MusicRecording`". As before, they are linked to the parent publication by means of "`dcterms:isPartOf`". Component parts are no longer actively indexed; the legacy data contains roughly 180,000 such entities.
  - o Revision: Component parts of notated music ("vivo:Score") are now being distinctly labelled using "`rdf:type bibo:DocumentPart`". As before, they are linked to the parent printed music publication by means of "`dcterms:isPartOf`". Component parts are no longer actively indexed; the legacy data contains roughly 47,000 such entities.

Examples in the test file:

<http://d-nb.info/1076061702>, <http://d-nb.info/1066352453>,  
<http://d-nb.info/1075776449>, <http://d-nb.info/1076801196>

- | Revision: The genre term<sup>5</sup> is given in the form of a three-figure classification number (Property "skos:notation", data type "dnbt:literary-genre-notation"<sup>6</sup>) and a verbal identifier (Property "skos:prefLabel"). This information element is given for fiction and poetry and children's and young people's literature and is taken from the data supplied from the VLB (German Books in Print).

Example:

```
@prefix schema: <http://schema.org/> .  
@prefix skos: <http://www.w3.org/2004/02/skos/core#> .  
@prefix dnbt: <http://d-nb.info/standards/elementset/dnb#> .
```

```
<http://d-nb.info/200001981> schema:genre [  
    skos:notation "121"^^dnbt:literary-genre-notation ;  
    skos:prefLabel "Krimis, Thriller, Spionage"  
] .
```

Examples in the test file:

<http://d-nb.info/969086261>, <http://d-nb.info/200001981>,  
<http://d-nb.info/1125652608>, <http://d-nb.info/1124697888>

- | Improvement: The classification details of the "thema" subject classification<sup>7</sup> have been given by the property "dc:subject" and the data type "dnbt:thema-classification-notation" since October 2015. The publisher EDItEUR<sup>8</sup> now also provides URIs and SKOS descriptions for "thema". The information has now been adjusted and the property "dcterms:subject" is used to link URIs of the pattern "<https://ns.editeur.org/thema/<Notation>>"

Examples in the test files:

<http://d-nb.info/1065191693>, <http://d-nb.info/1066473110>,  
<http://d-nb.info/1066471770>

## 6. Sample files and other information

The following sample files, including the announced changes, can be retrieved in the serialisation forms RDF/XML, Turtle and JSON-LD from <https://data.dnb.de/testdat>:

- | "GNDTestRelease2018\_2..." for GND authority data
- | "DNBTitelTestRelease2018\_2..." for DNB bibliographic data

Please note that the RDF resources in these files originate from RDA-catalogued records, from records containing RDA elements (mixed records) as well as from pure legacy data without RDA elements in order to document specific circumstances clearly.

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<sup>5</sup> <http://www.dnb.de/EN/Erwerbung/Inhaltserschliessung/gattungsbegriffe.html>

<sup>6</sup> <http://d-nb.info/standards/elementset/dnb#literary-genre-notation>

<sup>7</sup> <http://www.editeur.org/151/Thema/>

<sup>8</sup> <http://www.editeur.org>

Information on the Linked Data Service of the German National Library can be obtained on our website<sup>9</sup>.

Please do not hesitate to contact us should you have any questions.

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<sup>9</sup> <http://www.dnb.de/lds>