

8 November 2021

# Metadata services: Changes in RDF format from 8 February 2022 (Export Release 2022.01)

## 1. Release schedule

In accordance with the German National Library's (DNB) release planning for export formats<sup>1</sup>, the next change in the conversion and data modelling will take place on 8 February 2022. There may be disruptions to the interfaces and the Data Shop between 08:00 and 12:00 noon during the technical changeover.

## 2. Linked Data Service in general

### 2.1. Full copies

Following the export releases, it is expected that updated full copies of the Integrated Authority File (GND<sup>2</sup>) and the DNB's bibliographic data will be made available for download in the serialisation formats RDF/XML, Turtle, JSON-LD, as an HDT file<sup>3</sup> and in N-Triples as of March, June/July and October/November<sup>4</sup>.

Metadata provenance dump deliveries are effected at the same intervals. The provenance information is modelled along the lines of PROV Ontology<sup>5</sup> and published in the form of a separate data copy. Additional information regarding planning, documentation and modelling is available on the DNB WIKI<sup>6</sup>.

Full copies of the bibliographic data from the German Union Catalogue of Serials (ZDB) and the Address data of the German ISIL and Library Code Agency<sup>7</sup> will be updated in March and October/November.

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

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

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

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

<sup>5</sup> <https://www.w3.org/TR/prov-o/>

<sup>6</sup> <https://wiki.dnb.de/x/46G5C>

<sup>7</sup> <https://sigel.staatsbibliothek-berlin.de/en/startseite/>

The full copy for Entity Facts<sup>8</sup> is released monthly, albeit only in the format JSON-LD.

## 2.2. Prefixes used in the document

dnbt:	<a href="https://d-nb.info/standards/elementset/dnb#">https://d-nb.info/standards/elementset/dnb#</a>
gndo:	<a href="https://d-nb.info/standards/elementset/gnd#">https://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>

## 3. Changes in the conversion of bibliographic data from the German National Library

- | Improvement:  
The class vivo:Score is being replaced with a more precise class, schema:SheetMusic<sup>9</sup>.

Previous version:

```
<rdf:type rdf:resource="http://vivoweb.org/ontology/core#Score"/>
```

Future version:

```
<rdf:type rdf:resource="https://schema.org/SheetMusic"/>
```

Examples in the test file:

<http://d-nb.info/1081040386>

<http://d-nb.info/1071159100>

## 4. Change in the conversion of address data (directory of ISIL identifiers and library codes)<sup>10</sup>

- | New feature:  
The identifiers OCLC symbol<sup>11</sup> and the DBIS IDs<sup>12</sup> are depicted in the address file (ISIL).

Examples in the test file:

```
<dc:identifier
rdf:datatype="http://www.w3.org/2001/XMLSchema#string">(OCLCsymbol)S5B
</dc:identifier>
<dc:identifier
rdf:datatype="http://www.w3.org/2001/XMLSchema#string">(OCLCsymbol)EDF
</dc:identifier>
```

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<sup>8</sup> <https://www.dnb.de/EN/entityfacts>

<sup>9</sup> <https://schema.org/SheetMusic>

<sup>10</sup> <https://sigel.staatsbibliothek-berlin.de/suche/linked-data-service/>

<sup>11</sup> <https://www.worldcat.org/webservices/registry/xsl/identifiers>

<sup>12</sup> <http://dbis.ur.de/>

```
<dc:identifier
rdf:datatype="http://www.w3.org/2001/XMLSchema#string">(DBIS) DBIS-
SBBPK</dc:identifier>
```

<http://ld.zdb-services.de/resource/organisations/DE-974>  
<http://ld.zdb-services.de/resource/organisations/DE-1a>

## 5. Publication of RDF vocabularies

The update of the vocabularies is expected to take place when the release goes live on 8 February 2022.

The updated vocabularies will then be available at:

- | <https://d-nb.info/standards/elementset/gnd> (GND Ontology)
- | <https://d-nb.info/standards/vocab/gnd/gnd-sc.html> (GND Subject Categories)

### 5.1. Changes in GND Ontology

- | New feature: The generic property "gndo:abbreviatedName" of the type "owl:AnnotationProperty" has been installed.

### 5.2. Changes in the RDF value vocabularies: vocabulary "GND Subject Categories"

- | Improvement:  
The vocabulary of the "GND Subject Categories" has been amended with English labels. Previously, the GND system was only available as a German vocabulary. Thanks to the new translation, it has now also been possible to integrate the English terms into the vocabulary.

## 6. Examples and further information

In the course of the next few days the following example files, including the announced changes, can be accessed in the serialisation formats RDF/XML, Turtle and JSON-LD by visiting <https://data.dnb.de/testdat/>:

- | "TitelTestRelease2022\_01..." for the GND authority data
- | „BIBTestRelease2022\_01..." for the address file

All the information regarding the German National Library's Linked Data Service can be found on our website<sup>13</sup>.

If you have any questions please do not hesitate to mail us at [metadatendienste@dnb.de](mailto:metadatendienste@dnb.de) or phone us on +49 69 1525-1630.

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<sup>13</sup> <https://www.dnb.de/EN/lds>

Yours faithfully  
on behalf of Deutsche Nationalbibliothek (German National Library)

Uta Ackermann (Digital Services)  
and Tracy Arndt (Information Infrastructure)