

26 June 2023

Metadata services: Changes in RDF format from 26 September 2023 (Export Release 2023.03)

1. Release schedule

In accordance with the German National Library's (DNB) release planning for export formats¹, the next change in the conversion and data modelling will take place on 26 September 2023. 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 (GND²) and the DNB's bibliographic data will be made available for download in the serialisation formats RDF/XML, Turtle, JSON-LD, as an HDT file³ and in N-Triples as of March, June/July and October/November.⁴

Metadata provenance dump deliveries are effected at the same intervals. The provenance information is modelled along the lines of PROV Ontology⁵ and published in the form of a separate data copy. Additional information regarding planning, documentation and modelling is available on the DNB Wiki⁶.

¹ <https://wiki.dnb.de/x/wgcbBQ> (in German language only)

² <https://www.dnb.de/EN/gnd>

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

⁴ <https://data.dnb.de/opendata/>

⁵ <https://www.w3.org/TR/prov-o/>

⁶ <https://wiki.dnb.de/x/46G5C> (in German language only)

Full copies of the bibliographic data from the German Union Catalogue of Serials (ZDB)⁷ and the Address data of the German ISIL- and Library Codes Agency⁸ will be updated in March and October/November.

The full copy for Entity Facts⁹ is released monthly, albeit only in the format JSON-LD.

2.2. Prefixes used in this document

gndo:	https://d-nb.info/standards/elementset/gnd
owl:	https://www.w3.org/2002/07/owl#
rdf:	https://www.w3.org/1999/02/22-rdf-syntax-ns#
rdfs:	http://www.w3.org/2000/01/rdf-schema#
skos:	https://www.w3.org/2004/02/skos/core#

3. Publication of RDF vocabularies

3.1. Changes in vocabulary "GND-Ontology"

3.1.1. Modelling of using instructions: addition of property gndo:usingInstructions

- | New feature:
The new property gndo:usingInstructions, type owl:DatatypeProperty with the range rdfs:Literal and the domains gndo:ConferenceOrEvent, gndo:CorporateBody, gndo:DifferentiatedPerson, gndo:Family, gndo:PlaceOrGeographicName, gndo:SubjectHeading and gndo:Work has been set up.

4. Changes in GND conversions

- | Improvement:
The data base can offer access to special using instructions for GND entities (corporate body, conference or event, person, geographic entity, topic, work); these may be useful and informative for everyone who uses the GND as a cataloguing instrument.
From release 2023.03 (see 3.1.1), we will be delivering this information with the newly created property gndo:usingInstructions in order to ensure that it can be taken into account when using the GND for cataloguing purposes. – Example in Turtle:

```
<https://d-nb.info/gnd/4494415-9> <https://d-nb.info/standards/elementset/gnd#usingInstructions> "Für vorliegende Abiturzeitungen verknüpfe mit einzelнем Gymnasium und Zeitschlagwort"@de .
```

Examples in the test file:

<https://d-nb.info/gnd/7687492-8>
<https://d-nb.info/gnd/5280922-5>

⁷ <https://zeitschriftendatenbank.de/startseite>

⁸ <https://sigel.staatsbibliothek-berlin.de/en/startseite>

⁹ <https://www.dnb.de/EN/entityfacts>

<https://d-nb.info/gnd/4001335-2>
<https://d-nb.info/gnd/118505165>
<https://d-nb.info/gnd/7646649-8>
<https://d-nb.info/gnd/4425255-9>

- | Improvement:
For the GND entity "person", occupational information is modelled and delivered as an ordered list of the RDF Sequences type with the property `gnd#professionOrOccupation`.
Example in Turtle:

```
<https://d-nb.info/gnd/1043940596> gndo:professionOrOccupation [a rdf:Seq ;  
  rdf:_1 <https://d-nb.info/gnd/4003982-1> ;  
  rdf:_2 <https://d-nb.info/gnd/4140241-8> ;  
  rdf:_3 <https://d-nb.info/gnd/4052154-0> ;  
  rdf:_4 <https://d-nb.info/gnd/4049050-6> ;  
  rdf:_5 <https://d-nb.info/gnd/4294338-3> ;  
] .
```

Examples in the test file:
<https://d-nb.info/gnd/118502786>
<https://d-nb.info/gnd/118646419>
<https://d-nb.info/gnd/1054932999>

- | Improvement:
If language information is available for variant titles of works, the literals are delivered in RDF with the property `gndo:variantNameForTheWork` and the respective language data¹⁰.
Example in Turtle:

```
<https://d-nb.info/gnd/4119779-3> gndo:variantNameForTheWork "Der letzte Grund"@de  
"Sansibar oder Der letzte Grund"@de, "Zanzibar ovvero L'ultimo perché"@it .
```

Examples in the test file:
<https://d-nb.info/gnd/4119779-3>
<https://d-nb.info/gnd/1242592407>
<https://d-nb.info/gnd/1171254911>

5. Test data and further information

The following test 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/> :

- | „GNDTestRelease2022_03 ...“ for the GND authority data

All the information regarding the German National Library's Linked Data Service can be found on our website¹¹.

If you have any questions please do not hesitate to mail us at metadatendienste@dnb.de.

¹⁰ <https://www.iana.org/assignments/language-subtag-registry/language-subtag-registry>

¹¹ <https://www.dnb.de/EN/lds>

Yours faithfully

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