Deutsche Nationalbibliothek
Adickesallee 1
60322 Frankfurt am Main

11 March 2024

Metadata services: Changes in RDF format from 18 June 2024 (Export Release 2024.02)

1. Release schedule

In accordance with the German National Library's (DNB) release planning for export formats[1], the next change in the conversion and data modelling will take place on 18 June 2024. 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[2]) 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[3] and in N-Triples as of March, June/July (cancelled for 2024 due to the update of the library system), and October/November.[4]

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

---

[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 Adress data of the German ISIL- and Library Codes Agency[8] will be updated in March and October/November.

The full copy for Entity Facts[9] is released monthly, albeit only in the format JSON-LD.

The full copies of the GND cross-concordances are updated once a year in October/November.

2.2. Prefixes used in this document

coar:	https://vocabularies.coar-repositories.org/version_types/
dcat:	https://www.w3.org/TR/vocab-dcat-2/
dct:	https://www.dublincore.org/specifications/dublin-core/dcmi-terms/
dnbt:	https://d-nb.info/standards/elementset/dnb
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#
skos:	https://www.w3.org/2004/02/skos/core#
wdrs:	https://www.w3.org/2007/05/powder-s

3. Changes in GND conversions

| Correction:
Until now, the destinations of redirects have been delivered as strings. In future, they will be delivered as URI with rdf:resource. The data type http://www.w3.org/2001/XMLSchema#anyURI will be assigned to dnbt:canonicalUri.
Work data records containing a first author, artist or composer were previously redirected to two target records (Work data record and first author, artist or composer). This has now been corrected so that only the work data record is linked.

Example in RDF/XML:

```
<rdf:Description rdf:about="https://d-nb.info/gnd/1151913685">
   <dnbt:canonicalUri
rdf:datatype="http://www.w3.org/2001/XMLSchema#anyURI">https://d-
nb.info/gnd/300428561</dnbt:canonicalUri>
   <owl:sameAs rdf:resource="https://d-nb.info/gnd/300428561"/>
</rdf:Description>
```

Examples in the test file:
https://d-nb.info/gnd/1151913685
https://d-nb.info/gnd/300699700
https://d-nb.info/gnd/4128613-3
https://d-nb.info/gnd/122535669
https://d-nb.info/gnd/1182475418
https://d-nb.info/gnd/1230074678
https://d-nb.info/gnd/4588716-0
https://d-nb.info/gnd/1222012251

---

[7] https://zeitschriftendatenbank.de/startseite

[8] https://sigel.staatsbibliothek-berlin.de/en

[9] https://www.dnb.de/EN/entityfacts

| New feature:
Two new statements have been introduced in order to support editorial processes in the GND. dct:creator is used in each GND data record to link to the institution which created it. Along with this information, the responsible library network editorial office is delivered as dcat:maintainer. The corresponding ISILs[10] are used for both links.

Example in Turtle:

```
<https://d-nb.info/gnd/7566886-5> a gndo:Manuscript;
    wdrs:describedby <https://d-nb.info/gnd/7566886-5/about> .
<https://d-nb.info/gnd/7566886-5/about> dct:creator isil:DE-576 ;
    dcatde:maintainer isil:DE-576 .
```

Examples in the test file:
https://d-nb.info/gnd/7566886-5
https://d-nb.info/gnd/1299218490
https://d-nb.info/gnd/1302323911
https://d-nb.info/gnd/1299605885
https://d-nb.info/gnd/1271361183

4. Changes in the conversion of cross-concordances

| Correction:
madsrdf:ComplexSubject is no longer generated for AND relations in external thesauri. However, the relations are still delivered with skos:closeMatch.

No example.

Examples in the test file:
https://d-nb.info/gnd/120332197X
https://d-nb.info/gnd/1219097969
https://d-nb.info/gnd/040708640
https://d-nb.info/gnd/4121851-6
https://d-nb.info/gnd/041344995

5. Changes in the conversion of bibliographic data from the German National Library and the German Union Catalogue of Serials (ZDB)

| New feature:
This release delivers information on the file format of digital resources. The delivery is limited to the most common values. These include: pdf, epub, html, mp3, wav and zip. The IANA Media Types vocabulary[11] is used for this purpose.

Example in Turtle:

```
<https://d-nb.info/962828246> dcterms:format
<https://www.iana.org/assignments/media-types/application/pdf> .
```

---

[10] https://sigel.staatsbibliothek-berlin.de/en

[11] https://www.iana.org/assignments/media-types/media-types.xhtml

Examples in the test file:
https://d-nb.info/962828246
https://d-nb.info/961946717
https://d-nb.info/1264234279
https://d-nb.info/1030188696
https://d-nb.info/1014101530
https://d-nb.info/972290508
https://d-nb.info/982008554

| New feature:
Resources deposited with the German National Library as open access publications are delivered with the property http://purl.org/dc/terms/accessRights and the subject http://purl.org/coar/access_right/c_abf2.

Example in Turtle:

```
<https://d-nb.info/1132360587> dcterms:accessRights
<http://purl.org/coar/access_right/c_abf2> .
```

Examples in the test file:
https://d-nb.info/1132360587
https://d-nb.info/130243568X
https://d-nb.info/1197143866
https://d-nb.info/1255608196

6. 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/ :

| GNDTestRelease_LDS_2024_02…" for GND authority data
| CKTestRelease_LDS_2024_02…" for GND cross-concordance data
| DNBTestRelease_LDS_2024_02…" for DNB and ZDB bibliographic data

All the information regarding the German National Library's Linked Data Service can be found on our website[12].

Preliminary information for the next but one release (2024.03) with announcement in June 2024 (go live in September 2024): This release is subject to reservation and is likely to be cancelled due to the update of the library system.

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

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

Tracy Arndt (Information Infrastructure)
and Florian Betz (Digital Services)

---

[12] https://www.dnb.de/EN/lds