

16 July 2018

# Data Service: Changes in the RDF format from 16 October 2018 (Export Release 2018.03)

## 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 16 October 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<sup>5</sup>) and the Address data of the German ISIL and Library Code Agency<sup>6</sup> are updated each March and November.

### 2.2. Prefixes used in the document

	bflc:	<a href="http://id.loc.gov/ontologies/bflc/">http://id.loc.gov/ontologies/bflc/</a>
	dcterms:	<a href="http://purl.org/dc/terms/">http://purl.org/dc/terms/</a>
	foaf:	<a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/</a>
	owl:	<a href="http://www.w3.org/2002/07/owl#">http://www.w3.org/2002/07/owl#</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>

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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/>

<sup>5</sup> <https://zdb-katalog.de?lang=en>

<sup>6</sup> <http://sigel.staatsbibliothek-berlin.de/en/startseite/>

- | v: <http://www.w3.org/2006/vcard/ns#>
- | wdrs: <http://www.w3.org/2007/05/powder-s#>
- | xsd: <http://www.w3.org/2001/XMLSchema#>

## 3. Changes in GND conversions

### 3.1. GND ontology profile

- | The release contains no changes in GND ontology.

### 3.2. Profile Entity Facts

- | Correction: The RDF property for the key "publisher" has been amended to <http://purl.org/dc/elements/1.1/publisher>. Previously the DCMI Metadata Terms property "publisher"<sup>7</sup> was used. As the value is a literal, this form of usage was not standard and was therefore adapted.  
Example in the test file:  
<http://hub.culturegraph.org/entityfacts/128858362>
- | Improvement: As the semantics transported through the context file using the "relationship" key were incorrect, the context file entry for "relationship" has been temporarily removed until the semantics are corrected in one of the forthcoming releases.  
Example in the test file:  
<http://hub.culturegraph.org/entityfacts/118540238>

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

- | New feature: Data from the New Release Service can now include information about the anticipated release date. The property "bflc:projectedProvisionDate" is used for this purpose. This property is taken from the supplement to the BIBFRAME Vocabulary for the user profile of the Library of Congress. The exact date is always provided and referenced using the data type "xsd:date".  
Examples in the test file:  
<http://d-nb.info/97115807X>, <http://d-nb.info/1010674544>,  
<http://d-nb.info/1144651573>

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<sup>7</sup> <http://purl.org/dc/terms/publisher>

## 5. Change in the conversion of address data (directory of ISIL identifiers and library codes)

- | New feature: As before, addresses are entered with the property "v:adr" in a "vcard:Address" node. Additional information has now been added for postal and billing addresses (additional property "v:Postal"): post office box numbers are entered as literals with the property "schema:postOfficeBoxNumber".  
Examples in the test file:  
<http://ld.zdb-services.de/resource/organisations/DE-2150>,  
<http://ld.zdb-services.de/resource/organisations/DE-2337>,  
<http://ld.zdb-services.de/resource/organisations/DE-522>  
<http://ld.zdb-services.de/resource/organisations/DE-Ha125>

## 6. Changes in all conversions

- | New feature: Entity descriptions now also contain meta-data about themselves. For now, this comprises "modification date" and "license" entries. Specifics: when the entity description was last changed and the conditions to be met when reusing the description. Please note that for technical reasons, the modification date (property "dcterms:modified") must for now refer to the last change to the corresponding record in the DNB's library system. In the case of GND entities, changes in the enriched links (properties foaf:page and many of the owl:sameAs statements) are therefore not considered.  
This means for example that the date gives no indication as to whether an owl:sameAs link to VIAF has been added or removed or a foaf:page link to Wikipedia has been exchanged since the time specified. Please take this imprecision into account for subsequent use.  
The meta-data license is still CC0 1.0 Universal (CC0 1.0)<sup>8</sup> and is entered with the property "dcterms:license".  
The statements about descriptions are delivered together with the statements about the entities. The link between the entity and its description is created using "wdrs:describedby".  
Examples are all test files.

## 7. 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\_3 ..." for GND authority data
- | "DNBTitelTestRelease2018\_3 ..." for DNB bibliographic data
- | "ZDBTitelTestRelease2018\_3 ..." for German Union Catalogue of Serials data
- | "AdressdatenTestRelease2018\_3 ..." for address data (directory of ISIL identifiers and library codes)
- | "EntityFacts\_Release2018\_03 ..." for Entity Facts in RDF (JSON-LD) format

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<sup>8</sup> <https://creativecommons.org/publicdomain/zero/1.0/deed.en>

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.

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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<http://www.dnb.de>

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