

1 July 2019 (updated 11 July 2019)

Data services: Changes in MARC 21 format for bibliographic data from 15 October 2019 (Export Release 2019.03)

Dear Sir or Madam

We would like to draw your attention to the Export Release 2019.03 of the MARC 21 format for bibliographic data.

1. Schedule

1.1. External test phase

The release planning¹ includes an external test phase. The field description and the test data are published at the beginning of this phase (see section 4). In the subsequent two weeks all data purchasers can evaluate the test data for errors or irregularities and report them.

For the 2019.03 release, the external test phase is:

| 01 – 12 July 2019

Please send any feedback (including examples) by 12 July 2019 to metadatendienste@dnb.de.

No further adjustments will be made to the release after the external test phase.

The test data will be available for testing the import until the release goes into productive use.

1.2. Productive use

The changes will apply from:

| 15 October 2019 (There may be disruptions to the interfaces and the Data Shop between 08:00 and 12:00 noon during the technical changeover.)

¹ <https://wiki.dnb.de/x/wgcbBQ>

2. Format changes

2.1. New values in the leader in position 06 (Type of record)

The data resources of the German National Library (DNB) contain types of material that have hitherto not been appropriately identified in position 06 in the leader. The requisite adjustment is now to be carried out and the two new values “k” and “r” will be assigned.

Please note that the affected materials are not part of the regular Data Service of the German National Bibliography or the German Union Catalogue of Serials (ZDB). However, they do feature in the full copy² and the OAI set “dnb-all”³. A comprehensive revision of the entire conversion for these types of record will not be undertaken with this change. Their identification in the leader will e.g. make it possible to select these records.

Possible values in the leader in position 06 (Type of record):

- | “a” – Language material
- | “c” – Notated music
- | “e” – Cartographic material
- | “g” – Projected medium
- | “i” – Nonmusical sound recording
- | “j” – Musical sound recording
- | “k” – Two-dimensional nonprojectable graphic
- | “o” – Kit
- | “r” – Three-dimensional artifact or naturally occurring object
- | “t” – Manuscript language material

2.2. MARC fields with GND links: introduction of the subfield \$2 (Source) (NR)

In January 2019, the MARC Advisory Committee approved the proposal⁴ of the “PCC Task Group on URIs in MARC” to introduce a subfield \$2 (Source) (NR) into the fields 100, 110, 111, 130, 240, 700, 710, 711, 730, 758, 800, 810, 811 and 830 with GND links. The subfield \$2 contains the source, i.e. the authority file or the vocabulary used, in the form of a code⁵.

The MARC export of the German National Library’s bibliographic data will be adjusted accordingly and the subfield \$2 introduced in MARC fields with links to the Integrated Authority File (GND):

- | MARC fields 100 (Main Entry – Personal Name), 110 (Main Entry – Corporate Name), 111 (Main Entry – Meeting Name), 130 (Main Entry – Uniform Title)
- | MARC field 240 (Uniform Title):
- | MARC fields 700 (Added Entry – Personal Name), 710 (Added Entry – Corporate Name), 711 (Added Entry – Meeting Name), 730 (Added Entry – Uniform Title)

² <https://www.dnb.de/metadataservice>

³ <https://www.dnb.de/EN/oai>

⁴ <https://www.loc.gov/marc/mac/2019/2019-02.html>

⁵ Code lists: <https://www.loc.gov/standards/sourcelist/name-title.html> or <https://www.loc.gov/standards/sourcelist/standard-identifier.html>

Subfield \$2 will in each instance be delivered with the value "gnd" and positioned at the end of the respective field.

Example in outlines p. 2.5

2.3. MARC field 385 (Audience Characteristics) (R): Provenance: new subfield \$8 (Field link and sequence number) (R)

By importing data on the basis of a concordance with the Thema classification⁶, information relating to the audience (MARC field 385) can now also be machine-generated. This process is applied for the Subject Category K (Literature for children and young adults) in series A and O of the German National Bibliography⁷. The provenance information will be delivered in MARC field 883 (Machine-Generated Metadata Provenance) as usual. The link occurs via the subfield \$8, which is being introduced in the MARC field 385. The generation process is identified in \$a as "maschinell aus Konkordanz gebildet" (machine-generated from concordance). (\$8 is also used for updated information from the parallel alignment process; see chapter 2.5.3).

Example in outlines:

```
001 1179254465
385 __ $81\p$(DE-588)4030550-8$0https://d-nb.info/gnd/4030550-8
      $(DE-101)040305503$aKind$2gnd
883 1_ $81\p$amaschinell aus Konkordanz gebildet$d20190408$qDE-101
```

2.4. MARC field 655 (Index Term – Genre/Form): new subfield \$8 (Field link and sequence number) (R)

Here too, the importing of data on the basis of a concordance with the Thema classification⁸ means that information relating to the content in MARC field 655 (Index Term – Genre/Form) can be machine-generated. This process is applied for the Subject Category K (Literature for children and young adults) in the series A and O of the German National Bibliography⁹. The provenance data will be delivered in MARC field 883 (Machine-Generated Metadata Provenance) as usual. The link occurs via the subfield \$8, which is being introduced in the MARC field 655. The generation process is identified in \$a as "maschinell aus Konkordanz gebildet" (machine-generated from concordance). (\$8 is also used for updated information from the parallel alignment process; see chapter 2.5.3).

Example in outlines:

```
001 1179254465
655 _7 $81\p$aKinderbuch$2gnd-content
883 1_ $81\p$amaschinell aus Konkordanz gebildet$d20190408$qDE-101
```

⁶ <https://www.editeur.org/151/Thema/>

⁷ <https://www.dnb.de/EN/nationalbibliografie>

⁸ <https://www.editeur.org/151/Thema/>

⁹ <https://www.dnb.de/EN/nationalbibliografie>

2.5. MARC field 883 (Machine-Generated Metadata Provenance) (R): documentation of new generation processes

2.5.1. Machine-generated subject headings for the Subject Category K

Subject Category K (literature for children and young adults) is scheduled to have machine-generated subject headings from mid-October 2019: topical subject headings in MARC field 650 (Subject Added Entry – Topical Term) and geographical subject headings in MARC field 651 (Subject Added Entry – Geographic Name) will be assigned.

Regarding the provenance data for these subject headings, the following applies: in MARC field 883, the familiar indicator “0 – Fully machine-generated” will be assigned, and the content of the subfield \$a (Generation process) is “maschinell gebildet” (machine-generated).

2.5.2. Importing of data using concordance with Thema classification

By importing data on the basis of a concordance with the Thema classification, machine-generated information relating to the audience (MARC field 385) and the content (MARC field 655) will be delivered in the bibliographic data. This is especially of interest for the area of public libraries (also see chapters 2.3 and 2.4).

In MARC field 883, the indicator “1 – Partially machine-generated” will be assigned, and the content of the subfield \$a (Generation process) will receive the new value “maschinell aus Konkordanz gebildet” (machine-generated from concordance).

2.5.3. Parallel alignment: more finely subdivided provenance data

With the parallel alignment process, automatically generated data for parallel editions is updated and, vice versa, intellectually generated content assigned to parallel editions, e.g. online resources. To distinguish between the different forms of provenance, there are two identification options in MARC field 883. The 1st indicator is used to determine provenance (“0” = “Fully machine-generated” and “1” = “Partially machine-generated”). The indicator “1” is used when content that was originally intellectually generated is automatically updated in a parallel edition during the parallel alignment process. This value is also assigned for imports from concordances. The information in subfield \$a (Generation process) is “Übernahme aus paralleler Ausgabe” (import from parallel edition).

The following MARC fields receive content as a result of the parallel alignment process and will in future be more closely defined via the information “Übernahme aus paralleler Ausgabe” in subfield \$a:

- | MARC field 041 (Language Code): data from print issue only imported into online issue
- | MARC field 082 (Dewey Decimal Classification Number) and MARC field 083 (Additional Dewey Decimal Classification Number): DDC short numbers and DDC subject categories

- | MARC field 385 (Audience Characteristics)
- | MARC fields 600 to 651 (Subject added entries): automatically assigned GND key words not in accordance with RSWK, automatically assigned keywords of the Library of Congress Subject Headings
- | MARC field 655 (Index Term – Genre/Form)

For a complete overview of MARC field 883, please see the MARC field description on our website¹⁰.

Examples in outlines:

001 1179254465

245 10 \$aALL, die kleinen Polizisten & Ich\$cein Projekt der Auszubildenden des Kurses 16 H/B der Schule für Pflegeberufe am Universitätsklinikum Tübingen: Jacqueline Banschbach [und 23 weitere]

385 __ \$82\p\$(DE-588)4030550-8\$0https://d-nb.info/gnd/4030550-8
\$(DE-101)040305503\$aKind\$2gnd

650 _7 \$83\p\$(DE-588)4035487-8\$0https://d-nb.info/gnd/4035487-8
\$(DE-101)040354873\$aLeukämie\$2gnd

655 _7 \$81\p\$(DE-588)4303251-5\$0https://d-nb.info/gnd/4303251-5
\$(DE-101)043032516\$aKinderbuch\$2gnd-content

883 1_ \$81\p\$amaschinell aus Konkordanz gebildet\$d20190408\$qDE-101

883 1_ \$82\p\$amaschinell aus Konkordanz gebildet\$d20190408\$qDE-101

883 0_ \$83\p\$amaschinell gebildet\$d20190408\$qDE-101

001 1181488338

041 __ \$81\p\$sager

082 04 \$86\u\$a491.77\$qDE-101\$223/ger

083 7_ \$87\p\$a306.44\$qDE-101\$223kdnb

083 7_ \$88\p\$a491.8\$a300\$qDE-101\$223sdnb

085 __ \$86\u\$b491.7

085 __ \$86\u\$z4\$s7

245 10 \$aVarianz im Russischen\$bVon funktionalstilistischer zur soziolinguistischen Perspektive\$cVladislava Warditz

650 _7 \$83\p\$(DE-588)4077741-8\$0https://d-nb.info/gnd/4077741-8
\$(DE-101)040777413\$aSprachvariante\$2gnd

650 _7 \$84\p\$(DE-588)4056508-7\$0https://d-nb.info/gnd/4056508-7
\$(DE-101)040565084\$aSprachwandel\$2gnd

650 _7 \$85\p\$(DE-588)4116621-8\$0https://d-nb.info/gnd/4116621-8
\$(DE-101)041166213\$aStilistik\$2gnd

655 _7 \$82\p\$(DE-588)4113937-9\$0https://d-nb.info/gnd/4113937-9
\$(DE-101)041139372\$aHochschulschrift\$2gnd-content

883 1_ \$81\p\$Übernahme aus paralleler Ausgabe\$d20190328\$qDE-101

883 1_ \$82\p\$Übernahme aus paralleler Ausgabe\$d20190328\$qDE-101

883 0_ \$83\p\$amaschinell gebildet\$c0,22736\$d20190323\$qDE-101

883 0_ \$84\p\$amaschinell gebildet\$c0,05741\$d20190323\$qDE-101

883 0_ \$85\p\$amaschinell gebildet\$c0,02587\$d20190323\$qDE-101

883 0_ \$87\p\$amaschinell gebildet\$c0,94164\$d20190323\$qDE-101

883 1_ \$88\p\$Übernahme aus paralleler Ausgabe\$d20190328\$qDE-101

¹⁰ <https://www.dnb.de/EN/marc21>

2.6. MARC field 856 (Electronic Location and Access (R)) \$u and subfields \$0 in general with URIs and permalinks: HTTPS protocol

The URIs for the resources from the DNB, GND, ZDB and the German ISIL- and Library Codes Agency are to change from release 2019.03. The HTTP protocol will be replaced by HTTPS. However, queries made using the HTTP protocol will be redirected.

This will ensure that the data is delivered through secure connections, thus guaranteeing its authenticity. As a federal institution with legal capacity under public law, the German National Library is obliged to use TLS¹¹ (Transport Layer Security) protocols when communicating with other authorities, institutions and citizens. This is in line with a regulation issued by the Federal Office for Information Security¹².

URLs entered into the database itself with the protocol "http" will be corrected in the future. This e.g. affects the link to content texts delivered in MARC field 856. The change will be realised here at a later date.

The permalinks in MARC fields 100, 110, 111, 130, 240, 348, 380, 381, 382, 385, 6XX - 689, 700, 710, 711, 730, 751 and **856 (links to the tables of content)** will be changed at the time of the release.

Example in outlines:

LDR 03883pam a2200877 c 4500

001 1158684169

100 1_ \$0(DE-588)120658283\$0**https://d-nb.info/gnd/120658283**

\$0(DE-101)120658283\$aHornbacher, Marya\$d1974-\$eVerfasser\$4aut**\$2gnd**

240 10 \$0(DE-588)4732861-7\$0**https://d-nb.info/gnd/4732861-7**

\$0(DE-101)967680875\$aWasted**\$2gnd**

245 00 \$aAlice im Hungerland\$bLeben mit Bulimie und Magersucht : eine Autobiographie

\$cMarya Hornbacher ; aus dem Amerikanischen von Nicole Holsken

700 1_ \$0(DE-588)1012213935\$0**https://d-nb.info/gnd/1012213935**

\$0(DE-101)1012213935\$aHolsken, Nicole\$eUbersetzer\$4trl4**\$2gnd**

710 2_ \$0(DE-588)1064298699\$0**https://d-nb.info/gnd/1064298699**

\$0(DE-101)1064298699\$aUllstein-Taschenbuch-Verlag \$eVerlag\$4pbl**\$2gnd**

856 42 \$mX: MVB\$text/html

\$u**http://deposit.dnb.de/cgi-bin/dokserv?id=dcd43dfc1c18422b9d31eb38d0838271&prov=M&dok_var=1&dok_ext=htm**\$3**Inhaltstext**

856 42 \$mB: DE-101\$application/pdf\$u**https://d-nb.info/1158684169/04**\$3**Inhaltsverzeichnis**

¹¹ https://en.wikipedia.org/wiki/Transport_Layer_Security

¹² https://www.bsi.bund.de/DE/Themen/StandardsKriterien/Mindeststandards_Bund/TLS-Protokoll/TLS-Protokoll_node.html (in German)

3. Other information

- | During a transition phase, MARC field 583 (Action note) (R) also contained information on the creators of films. These legacy data are now being processed and the information will be delivered in MARC field 533 (Reproduction Note) (R). The field Pica field 033P* no longer used in this context has been removed from the field description.
- | Following the RDA legacy data enrichment of December 2017, some fields are no longer documented in the source format. The MARC conversion has now been corrected and the PICA fields that are no longer in use have been removed.
- | MARC field 856 (Electronic Location and Access), (R), 2nd indicator (Relationship): The Persistent Identifier DOI¹³ and Handle¹⁴ will now receive the second indicator "0" for "resource" as with the URN, instead of the previous "2" for "Related resource".
- | MARC field 880 (Alternate Graphic Representation) (R): The indicators were not always identical to the indicators in the primary MARC 21 field. This has now been corrected.

4. Further information and test data

- | The official Library of Congress documentation of the fields described can be found at <https://www.loc.gov/marc/bibliographic/>.
The full description of bibliographic data fields is available in PDF and Excel versions at <https://www.dnb.de/EN/marc21>.
In order to provide a brief overview of the changes made since publication of the previous description, all changes to the previous version are given on the first pages of the PDF versions in each case.
A sample file containing the notified changes can be found at <https://data.dnb.de/testdat/> under file name "TitelTestRelease2019_03".

5. Unconfirmed advance information about the next but one release

Please note that this advance information on possible future changes is, by its nature, incomplete; changes may also be postponed to a later release or shelved entirely. Similarly, there may also be further major changes to the content. Which points are in fact implemented can be found in the corresponding release announcement which will be issued in November 2019.

Further information on the release cycle can be obtained from: <https://wiki.dnb.de/x/wgcbBQ>

For the next-but-one release in mid-February 2020, the following changes are being planned:

¹³ <https://www.doi.org/index.html>

¹⁴ <https://www.handle.net/>

Bibliographic data:

- | The Open Access information and other license information is being revised. The relevant proposal was accepted with minor amendments by the MARC Advisory Committee, and the changes to the MARC format will be published as update no. 28¹⁵.
- | Deleted ISSN from publication will be delivered in MARC 022 \$z. The subfield is already being used for deleted authorised ISSNs.

If you have any questions please do not hesitate to mail us at metadatendienste@dnb.de or phone us on the usual numbers.

Kind regards,
on behalf of Deutsche Nationalbibliothek (German National Library)
Heike Eichenauer

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¹⁵ <https://www.loc.gov/marc/mac/2019/2019-01.html>