

12 November 2018

# Data Service Changes in MARC 21 format for bibliographic data from 12 February 2019 (Export Release 2019.01)

Dear Sir or Madam

We would like to draw your attention to the Export Release 2019.01 of the MARC 21 format for bibliographic data.

## 1. Schedule

### 1.1. External test phase

The release planning<sup>1</sup> 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 2019.01 release, the external test phase is:

| 12 – 23 November 2018

Please send any feedback (including examples) by 23 November 2018 to [datendienste@dnb.de](mailto:datendienste@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:

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

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

## 2. Format changes

### 2.1. MARC field 583 (Action note, information about processing, reference and preservation actions) (R): several new subfields and new values in subfield \$a (Action)

In accordance with a resolution passed by the Consortium of Library Networks (AG KVA)<sup>2</sup>, MARC field 583<sup>3</sup> (Action note, information about processing, reference and preservation actions) (R) has been expanded so that this field can be used for the creation of cooperative solutions at regional and national level in the areas of deaccession strategies, depository libraries, and measures to preserve holdings.

The following new subfields have been introduced for this purpose:

- | \$f (Authorization, context/legal basis) (R),
- | \$k (Action agent, person or organisation which performs the action) (R),
- | \$l (Status, condition or state of the described materials) (R),
- | \$z (Public note) (R),
- | \$2 (Source of term) (NR),
- | \$3 (Materials specified, holdings data, call number) (NR),
- | \$5 (Library/Institution to which field applies) (NR)

#### **MARC field 583 (Action note, information about processing, reference and preservation actions) (R):**

- | Indicator 1: 1 (not private)
- | Indicator 2: \_ (undefined)

Subfields:

- | \$a Action (NR):
  - Action terms relating to preservation:
    - o Legacy data: Intention to microfilm (“Verfilmungsabsicht”, “Geplante Digitalisierung”, “Geplante Entsäuerung”)
    - o Legacy data<sup>4</sup>: Status of archiving of electronic resources:
      - “Langzeitarchivierung gewährleistet”
      - “Langzeitarchivierung beabsichtigt”
      - “Langzeitarchivierung nicht beabsichtigt”
      - “Langzeitarchivierung in Teilen gewährleistet”
      - “Langzeitarchivierung”
      - “Langzeitarchivierung nicht möglich”
    - o **New** (transposition of codes<sup>5</sup> into text format):
      - “Archivierung/Langzeitarchivierung gewährleistet”
      - “Archivierung/Langzeitarchivierung geplant”
      - “Archivierung/Langzeitarchivierung nicht möglich”

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

<sup>3</sup> <https://www.loc.gov/marc/bibliographic/bd583.html>

<sup>4</sup> The conversion of legacy data for integration into the new structure is scheduled for the beginning of 2019.

<sup>5</sup> <https://www.dnb.de/actionnotetermsgerman>

- "Massenentsäuert"
  - "Massenentsäuerung geplant"
  - "Massenentsäuerung nicht möglich"
  - "Digitalisiert"
  - "Digitalisierung geplant"
  - "Digitalisierung nicht möglich"
  - "Fremddigitalisat verfügbar"
  - "Verfilmt"
  - "Verfilmung geplant"
  - "Verfilmung nicht möglich"
- | \$c Time/date of action, (scheduled) date of action (NR)
    - o Date of scheduled preservation action (format: MM/YY)
    - o (Scheduled) date of action (format YYYYMMDD, YYYYMM or YYYY)<sup>6</sup>
  - | \$f Authorization, context/legal basis (R): Text or ISIL<sup>7</sup>
  - | \$h Jurisdiction, context/legal responsibility (NR)
    - o Legacy data: Library ISIL in the case of collection preservation measures
    - o For mandatory virtual copies: ISIL of the actual legal deposit library (cf. \$5)
  - | \$i Method of action (R)<sup>8</sup>:
    - o Legacy data: "LZA" (long-term archiving)
    - o Legacy data: "BSM" (collection preservation measures)
    - o Further information on methods of mass deacidification (\$a = "Massenentsäuert ")
  - | \$k Action agent, person or organisation which performs the action (R): ISIL
  - | \$l Status, condition or state of the described materials (R): Information about damage
  - | \$z Public note (NR) (supplementary information on action or method of action specified in \$a)
  - | \$2 Source of term (NR):  
"pdager"
  - | \$3 Materials specified, holdings data, call number (NR)
  - | \$5 Institution to which field applies (NR):  
For mandatory virtual copies: ISIL of the retaining institution

Example field 583:

```
583 1_ $32012-2014$aArchivierung/Langzeitarchivierung gewährleistet$c10180101$fSVN
$5DE-18$2pdager
```

## 2.2. MARC fields 6XX (Subject Access Fields): Delivery of machine-generated keywords from the Library of Congress Subject Headings (LCSH)

In June 2018, the German National Library started machine-assigning keywords<sup>9</sup> to all English-language university publications for which full-text versions are available (online publications<sup>10</sup>).

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<sup>6</sup> The entry in \$a determines whether the date is interpreted as the date scheduled for an action or the date on which the action is actually performed.

<sup>7</sup> German ISIL and Library Codes Agency, search: <http://sigel.staatsbibliothek-berlin.de/nc/en/suche/>

<sup>8</sup> The following list is taken from the current version; more values may be added in the future.

<sup>9</sup> <https://www.dnb.de/subjectcataloguing>

<sup>10</sup> <https://www.dnb.de/EN/netzpublikationen>

This pertains to metadata in "Series O" of the Deutsche Nationalbibliografie<sup>11</sup>. Topical terms are assigned in accordance with the Library of Congress Subject Headings (LCSH<sup>12</sup>). For the proper names the vocabulary from the Integrated Authority File<sup>13</sup> (GND entities: Persons, Geographic information, Corporate bodies, Conferences and Events and works) are used.

In export release 2019.01, the machine-generated LCSH keywords are contained in the known MARC fields 6XX (Subject Access Fields). New values are contained in subfields \$0 and \$2 along with a "maschinell gebildet" entry (machined generated) in subfield \$a of the corresponding MARC field 883 (Machine-Generated Metadata Provenance).

New values in the following subfields:

MARC fields 6XX (Subject Access Fields)

- | \$0 Authority record control number or standard number (R):
  - o LCSH-identifier „(DLC)“...
  - o LCSH-URI „http://id.loc.gov/authorities/subjects/sh...“
- | \$2 Source of heading or term (NR): „lcsch“

Example:

```
LDR XXXXXnam a22XXXXXuc 4500
001 1160478767
003 DE-101
005 20180605133837.0
007 cr|||||||||
008 180604s2017____gw_||||om|||_00|||eng__
015 __ $a18,007$d2dnb
016 7_ $2DE-101$a1160478767
020 __ $a9783845278759$9978-3-8452-7875-9
024 7_ $2urn$aurn: nbn: de: 101: 1-2018060411203945855898
035 __ $a(DE-599)DNB1160478767
040 __ $a1240$bger$cDE-101$d1150
041 __ $aeng
044 __ $cXA-DE-BW
082 74 $83\p$a340$qDE-101$223sbnb
100 1_ $0(DE-588)1139213490
$0http://d-nb.info/gnd/1139213490$0(DE-101)1139213490$aJütte, Bernd Justin$eVerfasser$4aut
245 10 $aReconstructing European Copyright Law for the Digital Single
Market$bBetween Old Paradigms and Digital Challenges$cBernd Justin Jütte
250 __ $a1. Auflage
259 __ $a11
264 _1 $aBaden-Baden$bNomos Verlagsgesellschaft mbH & Co. KG$c2017
300 __ $aOnline-Ressource, 594 Seiten
336 __ $aText$btxt$2rdacontent
337 __ $aComputermedien$bc$2rdamedia
338 __ $aOnline-Ressource$bcr$2rdacarrier
490 1_ $aLuxemburger Juristische Studien - Luxembourg Legal Studies$v10
500 __ $aLizenzpflichtig
502 __ $bDissertation$cUni. Luxembourg$d2016
```

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<sup>11</sup> <https://www.dnb.de/EN/nationalbibliografie>

<sup>12</sup> <http://id.loc.gov/authorities/subjects.html>

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

583 1\_ \$aLangzeitarchivierung gewährleistet\$iLZA  
**610 2\_ \$81\p\$0(DE-588)5098525-5\$0http://d-nb.info/gnd/5098525-5**  
**\$0(DE-101)940431181\$aEuropäische Union\$2gnd**  
**650 \_7 \$82\p\$aCopyright \$0(DLC)sh85032446**  
**\$0http://id.loc.gov/authorities/subjects/sh85032446 \$2lcsb**  
653 \_\_ \$a(Produktform)Electronic book text  
653 \_\_ \$a(VLB-WN)1778  
653 \_\_ \$a(BISAC Subject Heading)LAW051000  
710 2\_ \$0(DE-588)117513-0  
\$0http://d-nb.info/gnd/117513-0\$0(DE-101)001175130\$aNomos  
Verlagsgesellschaft\$eVerlag\$4pbl  
776 08 \$iErscheint auch als\$nDruck-Ausgabe\$z9783848735426  
776 08 \$iErscheint auch als\$nDruck-Ausgabe\$aJütte, Bernd Justin\$tReconstructing European  
copyright law for the digital single market\$dBaden-Baden : Nomos, 2017\$h593  
Seiten\$w(DE-101)1135946981  
830 \_0\$ aLuxemburger Juristische Studien - Luxembourg Legal Studies\$v10  
850 \_\_ \$aDE-101a\$aDE-101b  
856 40 \$uhttps://nbn-resolving.org/urn:nbn:de:101:1-2018060411203945855898  
\$xResolving-System  
856 \_0 \$uhttp://d-nb.info/1160478767/34\$xLangzeitarchivierung Nationalbibliothek  
856 4\_ \$qapplication/pdf  
**883 0\_ \$81\p\$amaschinell gebildet\$c0,00119\$d20180605\$qDE-101**  
**883 0\_ \$82\p\$amaschinell gebildet\$c0,20713\$d20180605\$qDE-101**  
883 0\_ \$83\p\$amaschinell gebildet\$c0,99414\$d20180605\$qDE-101  
925 r\_ \$aro\$ara  
926 1\_ \$aLB\$o93\$v1.0

## 2.3. MARC field 773 (Host Item Entry): Information concerning the host item for all online articles

Until now, MARC field 773 (Host Item Entry) was not included in all metadata for online articles, although these are marked with "a" in the leader in position 07 (Monographic Component Part). So far data relating to the host item was usually transported to MARC field 500 (General Note). This has been revised, and the data on the host item is now transported to MARC field 773. If no more precise differentiation is possible, all data on the host item is in doubtful cases exported in one single subfield \$t (Title).

The presence of MARC field 773 for online articles is essential if this metadata is to be imported into OCLC WorldCat.

Example (extract):

```
LDR 02390naa a2200601uc 4500
001 1155762681
003 DE-101
005 20180814171542.0
007 cr|||||
008 180410s2018\\gw\|||o|||\00|||eng\
100 1_ $aRackwitz, Lars$eVerfasser$4aut
245 10 $aStem cell- and growth factor-based regenerative therapies for avascular necrosis of the
femoral head$cLars Rackwitz, Lars Eden, Stephan Reppenhagen, Johannes C. Reichert,
Franz Jakob, Heike Walles, Oliver Pullig, Rocky S. Tuan, Maximilian Rudert, Ulrich Nöth
264 _1 $aWürzburg$bUniversität Würzburg$c2018
```

300 \_\_ \$aOnline-Ressource  
336 \_\_ \$aText\$btxt\$2rdacontent  
337 \_\_ \$aComputermedien\$bc\$2rdamedia  
338 \_\_ \aOnline-Ressource\$bcr\$2rdacarrier

**773 08 \tIn: Stem Cell Research & Therapy 2012, 3:7. doi:10.1186/sCRT98**

## 2.4. MARC field 856 (Electronic Location and Access): standardisation of the delivery of persistent identifiers as URL and conversion to “https” protocol

Previously, only the persistent identifiers URN<sup>14</sup> and ISBN-A<sup>15</sup> were exported as URL to MARC field 856 \$u (URL) in addition to MARC field 024. DOI<sup>16</sup> and Handles<sup>17</sup> are now also cited as URL in this field; previously, they were only exported to MARC field 024. Both the ISBN-A and the DOI are uniformly prefixed with <https://doi.org/> (the ISBN-A are currently still delivered with <http://dx.doi.org/>).

As a direct federal institution under public law, the DNB is obliged to use TLS (Transport Layer Security<sup>18</sup>) protocols when communicating with citizens, institutions and other authorities, and the URLs are therefore converted in the export formats using the protocol “https”. We therefore also recommend the use of the “https” protocol.

Examples:

```
| DOI:  
024 7_ $a10.3726/b14254$2doi  
856 42 $uhttps://doi.org/10.3726/b14254$xResolving-System  
| Handle:  
024 7_ $a10419/176760$2hdl  
856 42 $uhttps://hdl.handle.net/10419/176760$xResolving-System  
| ISBN-A:  
024 7_ $a10.978.3941362/666$2isbn-a  
856 42 $uhttps://doi.org/10.978.3941362/666$xResolving-System  
| URN:  
024 7_ $2urn$aurn:nbn:de:101:1-20150603476  
856 40 $uhttps://nbn-resolving.org/urn:nbn:de:101:1-20150603476  
$xResolving-System
```

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<sup>14</sup> <https://www.dnb.de/EN/urnservice>

<sup>15</sup> <https://www.mvb-online.de/isbn-a>

<sup>16</sup> <https://www.doi.org/index.html>

<sup>17</sup> <https://www.handle.net/>

<sup>18</sup> [https://en.wikipedia.org/wiki/Transport\\_Layer\\_Security](https://en.wikipedia.org/wiki/Transport_Layer_Security)

### 3. Further notes

- | MARC field 883 (Machine-Generated Metadata Provenance): GND Subject entries that were machine-generated on the basis of the concordance of the STW Thesaurus for Economics<sup>19</sup> also contain this provenance information in MARC field 883 with the note "maschinell aus Konkordanzen gebildet" (machine-generated from concordance) in subfield \$a (Generation Process). See the announcement of release 2018.01<sup>20</sup> for information on this procedure.

### 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\_01".

### 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 early March 2019.

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

Planned changes in the **next release but one**, scheduled for early June 2019, include the following:

#### **Bibliographic data:**

- | In future, additional fields will be exchanged between online and print publications by means of so-called "parallel alignment". This data, e.g. on the target group or other subject-related aspects (also automatically generated data), is meant to be exported together with the corresponding provenance data.
- | MARC field 245 (Title Statement) (NR), alignment when provided information on added entries for the first indicator. Value "1" is set instead of default value "0" if a MARC field 1XX is provided.

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<sup>19</sup> <http://zbw.eu/stw/version/latest/about.en.html>

<sup>20</sup> <https://www.dnb.de/SharedDocs/Downloads/EN/DNB/service/rundschreiben20171016AenderungenMarc21TiteldatenAb201801.html>

If you have any questions please do not hesitate to mail us at [datendienste@dnb.de](mailto:datendienste@dnb.de) or phone us on the usual numbers.

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

\*\*\* Reading. Hearing. Understanding. German National Library \*\*\*

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