**DEUTSCHE
NATIONAL
BIBLIOTHEK**

German National Library
Adickesallee 1
60322 Frankfurt am Main

12 February 2018

Data Service Changes in MARC 21 format for bibliographic data from 15 May 2018 (Export Release 2018.02)

Dear Sir or Madam

We would like to draw your attention to the Export Release 2018.02 of the MARC 21 format for bibliographic data.

1. Schedule

1.1. External test phase

The release planning[1] 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 2018.02 release, the external test phase is:

| 12 – 23 February 2018

Please send any feedback (including examples) by 23 February 2018 to 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:

| 15 May 2018 (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. MARC field 034 (Coded Cartographic Mathematical Data) (R), new subfield $a (Category of scale) (NR)

The subfield $a has been extended in MARC field 034 to complete the information and provide more detail. As the standard for the category of scale, the value "a" is always given for "linear scale".

MARC field 034 (Coded Cartographic Mathematical Data) (R)

| First indicator (Type of scale):
   "0"- Scale indeterminable/No scale recorded (= default)
| Second indicator (Type of ring):
   "_" - Not applicable (= default)
   "0" – Outer ring
   "1" – Exclusion ring
| New subfield:
   $a (Category of scale) (NR) – "a" (Linear scale)

Example (extracts):

034 0_ aad W 118 14 37$e W118.243611$f N034.052222$g N034.052222$9A: dgx

2.2. MARC field 041 (Language Code) (R), new subfield: $8 (Field link and sequence number) (R) for automatically determined languages and corresponding supplement to the provenance information in the linked MARC field 883

For online resources, the automatically determined language of the publication is delivered in MARC field 041, subfield $a (Language code of text/sound track or separate title) (R) with the corresponding language code[2] according to ISO 639-2. In the medium-term it is planned to deliver multiple automatically determined language codes and to issue these in separate subfields $a.
A new feature is the delivery of subfield $8 (Field link and sequence number) (R) for the link internal to the record to MARC field 883 (Machine-generated Metadata Provenance) (R) which carries further provenance information. The confidence value of the language code generally contains five digits after the decimal point.

---

[2] http://www.loc.gov/marc/languages/

MARC field 041 (Language code) (R)

| First indicator (Translation indication)
  "_" - No information provided
| Second indicator (Source of code):
  "_" – MARC language code
| Subfields:
  $a (Language code of text/sound track or separate title) (R)-
  MARC language code[3], "ger" = default
  $c (Language of original) (R) – Language code
  $8 (Field link and sequence number) (R) – Sequence number "\p" (Field link type
  "Metadata provenance")

MARC field 883 (Machine-generated Metadata Provenance) (R)

| Indicator 1:
  "0" - Fully machine-generated
| Indicator 2:
  "_" – Undefined
| Subfields:
  $a Generation process - "Machine-generated "
  $c Confidence value - "1,00000" - "0.00000"
  $d Generation date - "YYYYMMDD"
  $q Generation agency - "DE-101"
  $8 Field link and sequence number - "\p" (e.g. "1\p")
  $8 is always the first subfield

Example (extracts):

041 __ $81\p$aeng
883 0_ $81\p$amaschinell gebildet$c4,91000$d20171024$qDE-101

2.3. MARC fields 082 (Dewey Decimal Classification Number) (NR) and 083 (Additional Dewey Decimal Classification Number) (R): Delivery of machine-generated short notations with corresponding expansion of provenance information in linked MARC field 883.

The delivery of machine-generated subject cataloguing elements is supplemented by the issue of automatically created DDC numbers (short notations). The first and only short notation is either delivered in MARC field 082 (Dewey Decimal Classification Notation) (NR) or in MARC field 083 (Additional Dewey Decimal Classification Number) (R), depending on whether there is a **full** DDC number or not. The following sequence is used for the content of the non-repeatable field 082: full DDC number > DDC short notation > DDC subject category

---

[3] http://www.loc.gov/marc/languages/

The provenance information of the first delivery of the machine-generated short notation is generally linked in MARC field 883 (Machine-generated Metadata Provenance) (R).

The DDC short notation was initially only machine-generated for main subject class 610[4] (Medicine, Health) of the online resources of "Series O" of the Deutsche Nationalbibliografie. The medical publications of Series B and H of the Deutsche Nationalbibliografie have also been catalogued using this short notation since September 2017. Subject classes 004 (Computer Science), 300 (Social Sciences) and 540 (Chemistry) are to follow shortly. Work is currently being conducted on a classification scheme with short DDC notations for all other subjects. It is planned to label the corresponding short notations in WebDewey Deutsch[5] and in the freely accessible retrieval tool WebDewey Search.

MARC field 082 (Dewey Decimal Classification Notation) (NR)

> | First indicator (Type of edition):
> "7" – Other edition specified in subfield $2
> | Second indicator (Source of classification number):
> "4" - Assigned by agency other than LC
> | Subfields:
> $a (Classification number) (R) - DDC short notation
> $q (Assigning agency) (NR) – "DE-101" Deutsche Nationalbibliothek
> $2 (Edition number) (NR) - "23kdnb" (new)
> $8 (Field link and sequence number) (R) – "\p" (Filed link type "Metadata provenance")

MARC field 083 (Additional Dewey Decimal Classification Number) (R) is used like MARC field 082; exception: The second indicator is always "_" (blank).

MARC field 883 (Machine-generated Metadata Provenance) (R)
See section 2.2

Example (extracts):

082 74 $84\p$a616.2$qDE-101$223kdnb
883 0_ $84\p$amaschinell gebildet$c0,758$d20170308$qDE-101

3. Further notes

> | MARC fields 76X - 78X: The ISBN delivered in subfield $z is always issued without hyphens.
> | MARC Leader Position 07 (Bibliographic level): Use of "i" in this position (Integrating resource) has been expanded for serials. If the source data contain the content types "Datenbank", "Website", "Loseblattsammlung" or "Weblog", an "i" is delivered.

---

[4] http://www.dnb.de/Subsites/ddcdeutsch/SharedDocs/Downloads/DE/anwendung/ ddcGliederungMedizin.pdf
[5] http://www.dnb.de/Subsites/ddcdeutsch/EN/DDCprodukte/WebDeweyDeutsch/ webdeweydeutsch_node.html

| MARC field 008 CR (Field of fixed length for physical description - Continuing Resources), position 21 (Type of continuing resource): use of the values "d" and "w" has also been restructured. The value "d" (Updating database) is given if the content type "Datenbank" applies for journals and the value "w" (Updating Website) is given if the content types "Website" or "Weblog" are linked.
| MARC field 255 (Coded cartographic mathematical data) (R): multiple scales are delivered in their own MARC field 255.
| MARC field 650 (Subject added entry, Topical term): Multiple subject headings from external data with no link to the GND which are delivered in one subfield $a are now generally separated from each other by "_;_" if the structure of the source data permits.

4. Further information and test data

The official Library of Congress documentation of the fields described can be found at
http://www.loc.gov/marc/bibliographic/ecbdhome.html.
The full description of bibliographic data fields is available in PDF and Excel versions at
http://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 "TitelTestRelease2018_02".

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 July 2018.
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 October 2018, include the following:

Bibliographic data:

| Delivery of machine-generated English subject headings[6] of the LCSH in MARC-6XX fields and the corresponding provenance information in MARC field 883.
| Correction in the linking entry fields 76X - 78X: incorrect MARC fields are delivered in certain rare constellations. This will be corrected.
| Further adjustment in the linking entry fields 76X – 78X for the export of information on linked works which are not in the ZDB.

---

[6] http://www.loc.gov/aba/publications/FreeLCSH/freelcsh.html

| For collections, a "c" for collection is delivered in position 07 (Bibliographic level) of the leader. Previously a "c" (Continuing resource currently published) or a "d" (Continuing resource ceased publication) were delivered in MARC field 008 at position 06 (Type of date/Publication status). These values are now being replaced by an "i" (Inclusive dates of collection).

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

Yours faithfully,

Heike Eichenauer

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

--

Heike Eichenauer
Deutsche Nationalbibliothek
Digitale Dienste
Adickesallee 1
D-60322 Frankfurt
Telephone: +49-69-1525-1074 Fax: +49 -69-1525-1636
mailto:h.eichenauer@dnb.de
http://www.dnb.de