

[The Library of Congress](#) >> [Librarians, Archivists](#) >> [Standards](#)



MARC STANDARDS

Library of Congress - Network Development and MARC Standards Office

The MARC formats are standards for the representation and communication of bibliographic and related information in machine-readable form.

NEW! [Bibliographic Framework Transition Initiative](#)

[MARC Code Lists as Linked Data](#)

UPDATED! [RDA in MARC](#)

[\[MARC en ESPAÑOL\]](#)

MARC Formats

[Bibliographic](#)

[Authority](#)

[Holdings](#)

[Classification](#)

[Community](#)

[Translations](#)

MARC LITE

[Bibliographic](#)

MARC Code Lists

[Countries](#)

[GACs](#)

[Languages](#)

[Organizations](#)

[Relators](#)

[Other Value Lists](#)

[Sources](#)

MARC Specs.

[Record Structure](#)

[Character Sets](#)

[Exchange Media](#)

[More](#)

[Documentation...](#)

[Understanding MARC Bibliographic](#) -- a brief description and tutorial

[Understanding MARC Authority](#) -- a brief description and tutorial

[Understanding MARC Holdings Records](#) -- a brief description and tutorial

[General Information](#)

[Introductory MARC](#)

[Information](#)

[News & Announcements](#)

[MARC FAQ](#)

[MARC Forum \(listserv\)](#)

[Unicode-MARC Forum](#)

[Recommended Reading](#)

[MARC Formats](#)

[Formats and Code Lists](#)

[Format Overview](#)

[Ordering Information](#)

[National Level](#)

[Requirements](#)

[MARC Mappings](#)

[MARC User Notes](#)

[MARC in XML](#)

[MARXML](#)

[MODS](#)

[MADS](#)

[MARC and FRBR](#)

[FRBR Display Tool](#)

[MARC Development](#)

[MARC Advisory Committee](#)

[MARC Proposals](#)

[MARC Discussion Papers](#)

[MARC Change Form](#)

[MARC Records, Systems and Tools](#)

[MARC Record Services](#)

[MARC Systems](#)

[MARC Specialized Tools](#)

[The Library of Congress](#) >> [Librarians, Archivists](#) >>
[Standards](#)

June 15, 2023

[Legal](#)
[External Link Disclaimer](#)

[Contact Us](#)

VIETH EXHIBIT - 2006

MOM Enterprises, LLC, v. ELAINE AND REINHOLD W. VIETH
IPR2023-00726



MARC 21 Format for **BIBLIOGRAPHIC DATA**

Library of Congress
Network Development and MARC Standards Office

1999 Edition

Update No. 1 (October 2000) through Update No. 36 (June 2023)

This online publication provides access to both the full and concise versions of the *MARC 21 Format for Bibliographic Data*. The "full" bibliographic format contains detailed descriptions of every data element, along with examples, input conventions, and history sections. The "concise" bibliographic format contains abridged descriptions of every data element, along with examples. The full and concise versions are identified in the header of each field description.

Changes to the *MARC 21 Format for Bibliographic Data* that resulted from Update No. 36 (June 2023) are displayed in **red** print. The date located in the header of the full version of each field indicates the last month and year of update.

Table of Contents

- [Introduction](#) [[Full](#) | [Concise](#)]
- [Format Summary](#)
- [Leader](#) [[Full](#) | [Concise](#)]
- [Directory](#)
- [00X: Control Fields](#)
- [01X-09X: Numbers and Code Fields](#)
- [Heading Fields - General Information](#)
- [1XX: Main Entry Fields](#)
- [20X-24X: Title and Title-Related Fields](#)
- [25X-28X: Edition, Imprint, Etc. Fields](#)
- [3XX: Physical Description, Etc. Fields](#)
- [4XX: Series Statement Fields](#)
- [5XX: Note Fields](#)
- [6XX: Subject Access Fields](#)
- [70X-75X: Added Entry Fields](#)
- [76X-78X: Linking Entry and Description Fields](#)
- [80X-83X: Series Added Entry Fields](#)
- [841-88X: Holdings, Location, Alternate Graphics, Etc. Fields](#)
- [Appendix A: Control Subfields](#)
- [Appendix B: Full Level Record Examples](#)
- [Appendix C: Minimal Level Record Examples](#)
- [Appendix D: Multiscript Records](#)
- [Appendix E: Alphabetical List of Ambiguous Headings](#)
- [Appendix F: Initial Definite and Indefinite Articles](#)

- [Appendix G: Format Changes for Update No. 36 \(June 2023\)](#)
- [Appendix H: Local Data Elements](#)
- [Appendix I: Organization Code Sources](#)
- [Appendix J: Data Provenance Subfields](#)

[Library of Congress](#) >> [MARC](#) >> **Bibliographic**
(06/21/23)

[Contact Us](#)

[Library of Congress](#) >> [MARC](#) >> [Bibliographic](#) >> [00X](#) >> **005**

005 - Date and Time of Latest Transaction (NR)

MARC 21 Bibliographic - Full**February 1999**

Indicators and Subfield Codes

This field has no indicators or subfield codes.

FIELD DEFINITION AND SCOPE

Sixteen characters that indicate the date and time of the latest record transaction and serve as a version identifier for the record. They are recorded according to *Representation of Dates and Times* (ISO 8601). The date requires 8 numeric characters in the pattern *yyyymmdd*. The time requires 8 numeric characters in the pattern *hhmmss.f*, expressed in terms of the 24-hour (00-23) clock.

Date characters *yyyymmdd* include 4 for the year, 2 for the month, and 2 for the day.

Time characters *hhmmss.f* include 2 for the hour, 2 for the minute, 2 for the second, and 2 for a decimal fraction of the second, including the decimal point. The 24-hour clock (00-23) is used.

The date on which a record is first entered into machine-readable form is contained in field 008/00-05. The Date entered on file never changes.

■EXAMPLE

005 19940223151047.0

[February 23, 1994, 3:10:47 P.M. (15:10:47)]

INPUT CONVENTIONS

System Generation - Field 005 should be system generated.

[Library of Congress](#) >> [MARC](#) >> [Bibliographic](#) >> [00X](#) >> **005**

(02/11/2008)

[Contact Us](#)

300 - Physical Description (R)

MARC 21 Bibliographic - Full

July 2022

First Indicator*Undefined*

- Undefined

Second Indicator*Undefined*

- Undefined

Subfield Codes

\$a - Extent (R)

\$b - Other physical details (NR)

\$c - Dimensions (R)

\$e - Accompanying material (NR)

\$f - Type of unit (R)

\$g - Size of unit (R)

\$3 - Materials specified (NR)

\$6 - Linkage (NR)

\$7 - Data provenance (R)

\$8 - Field link and sequence number (R)

FIELD DEFINITION AND SCOPE

Physical description of the described item, including its extent, dimensions, and such other physical details as a description of any accompanying materials and unit type and size.

GUIDELINES FOR APPLYING CONTENT DESIGNATORS

Data in this field are customarily formulated as specified by various cataloging rules. In records formulated following cataloging rules based on *International Standard Bibliographic Description* (ISBD) principles, a relationship exists between prescribed ISBD punctuation and the identification of specific subfield data. Most of the examples in this section illustrate the prescribed ISBD punctuation associated with specific subfields.

■ INDICATORS

- Both indicator positions are undefined; each contains a blank (#).

■ SUBFIELD CODES

\$a - Extent

Number of physical pages, volumes, cassettes, total playing time, etc., of each type of unit.

For multipart and serial items, it includes volumes (and pagination when pages are numbered consecutively). In records formulated according to ISBD principles, subfield \$a contains all data up to and including the next mark of ISBD punctuation (e.g., a colon (:), a semicolon (;), a plus sign (+)).

300 ##\$a149 pages ;\$c23 cm

300 ##\$a1 score (16 p.) ;\$c29 cm

300 ##\$a11 volumes :\$billustrations ;\$c24 cm

- 300 ##\$a1 map :\$bcol. ;\$c30 x 55 cm
- 300 ##\$a1 sound disc (20 min.) :\$banalog, 33 1/3 rpm, stereo. ;\$c12 in.
- 300 ##\$a160 slides :\$bcolor ;\$c2 x 2 in.
- 300 ##\$a8 reels of 8 (7557 ft.) :\$bsd., col. ;\$c35 mm\$3dupe neg nitrate (copy 2)
- 300 ##\$a1 videocassette of 1 (Beta) (30 min.) :\$bsd., col. ;\$c1/2 in.\$3(2 copies)
- 300 ##\$a1 computer disk :\$bcolor, sound ;\$c3 1/2 in.
- 300 ##\$a95 linear ft.
- 300 ##\$a10 boxes (24 linear ft.)

When the statement of pagination and of illustrative matter are combined, they are both recorded in a single subfield \$a.

- 300 ##\$a74 p. of ill., 15 p. ;\$c28 cm
- 300 ##\$a27 leaves of plates, 4 p. ;\$c31 cm

In works that are not yet complete, only the type of unit designation is recorded preceded by three spaces. (The actual number of pieces received may be recorded as temporary data enclosed in angle brackets.)

- 300 ##\$av. ;\$c29 cm
- 300 ##\$av. <1-3 > ;\$c25 cm

For **mixed materials**, terms in the physical description indicating the type of unit may be separately subfield coded (see description of subfield \$f). In these cases, subfield \$a contains only the numeric extent designation.

- 300 ##\$a42\$fcu. ft.
- 300 ##\$3poems\$a1\$fpage ;\$c108 cm. x 34.5 cm

Repeatable when alternate or additional forms of extent data are given. Alternate forms of extent data are recorded in parentheses.

- 300 ##\$adiary\$a1\$fvolume\$a(463\$fpages) ;\$c17 cm. x 34.5 cm
- 300 ##\$a17\$fboxes\$a(7\$flinear ft.)
[Repeated subfield \$a for archival materials.]

May be repeated to describe different parts of multipart items.

- 300 ##\$a1 reel (312 ft.) :\$bsi., b&w ;\$c16 mm\$3ref print.
- 300 ##\$a1 reel (312 ft.) :\$bsi., b&w ;\$c16 mm\$3dupe neg.
[Repeated field in a record for motion pictures.]
- 300 ##\$a65 prints :\$brelief process ;\$c29 x 22 cm
- 300 ##\$a8 albums (550 photoprints) ;\$c51 x 46 cm. or smaller
[Repeated field in a record for graphic materials.]

For **music**, subfield \$a is repeated for *parts* information when a subfield \$b or \$c separates it from the main extent data.

300 ##\$a1 score (30 p.) ;\$c20 cm. +\$a16 parts ;\$c32 cm

\$b - Other physical details

Physical characteristics such as illustrative matter, coloration, playing speed, groove characteristics, presence and kind of sound, number of channels, motion picture presentation format, etc.

In records formulated according to ISBD principles, subfield \$b contains all data following a colon (:) and up to and including the next mark of ISBD punctuation (e.g., a semicolon (;)).

300 ##\$a104 p. :\$bill. ;\$c20 cm

300 ##\$avolumes :\$billustrations (some color) ;\$c25 cm

300 ##\$a2 computer disks :\$bsd., col. ;\$c3 1/2 in.

300 ##\$a1 globe :\$bcolor, wood, mounted on brass stand ;\$c12 cm in diameter

300 ##\$a1 sound disc (20 min.) :\$banalog, 33 1/3 rpm, stereo. ;\$c12 in.

300 ##\$a1 sound disc (56 min.) :\$bdigital, stereo. ;\$c4 3/4 in.

300 ##\$a14 film reels (157 min.) :\$bPanavision ;\$c16 mm

300 ##\$a1 videoreel (Ampex 7003) (15 min.) :\$bsd., b&w ;\$c1/2 in.

300 ##\$a1 print :\$blithograph, 4 cols. ;\$csheet 17 x 21 cm

\$c - Dimensions

Expressed in centimeters, millimeters, or inches; may include a parenthetical qualifier giving the format of the item (e.g., *(fol.)*, *(8vo)*).

Format qualifier is recorded as part of subfield \$c and is not separately subfield coded. In records formulated according to ISBD principles, subfield \$c contains all data following a semicolon (;) and up to and including the next mark of ISBD punctuation, if any (e.g., a plus sign (+)).

300 ##\$a149 p. ;\$c23 cm

300 ##\$a271 p. :\$bill. ;\$c10 x 27 cm

**300 ##\$a1 map :\$bcol. ;\$c200 x 350 cm., folded to 20 x 15 cm., in plastic case
25 x 20 cm**

300 ##\$3poems\$a1\$fpage ;\$c108 cm. x 34.5 cm

**300 ##\$a1 sound cassette (85 min.) :\$b3 3/4 ips, mono. ;\$c7 1/4 x 3 1/2 in.,
1/4 in. tape**

300 ##\$a1 computer disk ;\$c3 1/2 in.

300 ##\$a14 film reels (157 min.) :\$bPanavision ;\$c16 mm

**300 ##\$a1 print :\$blithograph, b&w ;\$cimage 33 x 41 cm., on sheet 46 x 57
cm**

300 ##\$a40 p. :\$bill. (woodcuts) ;\$c20 cm. (8vo)

For **music**, subfield \$c is repeated when dimensions are associated with a repeated subfield \$a. When dimensions are given as part of the description of accompanying material, subfield \$c is not repeated.

**300 ##\$a271 p. :\$bill. ;\$c21 cm. +\$eatlas (37 p., 19 leaves of plates : 19 col.
maps ; 37 cm.)**

\$e - Accompanying material

May include a parenthetical physical description of the accompanying material.

In records formulated according to ISBD principles, subfield \$e **follows** a "plus sign" (+) and contains all remaining data in the field.

300 ##\$a271 p. :\$bill. ;\$c21 cm. +\$e1 answer book

300 ##\$a271 p. :\$bill. ;\$c21 cm. +\$e1 atlas (37 p., 19 leaves : col. maps ; 37 cm.)

300 ##\$a1 computer disk ;\$c3 1/2 in. +\$ereference manual

\$f - Type of unit

Terms such as *page*, *volumes*, *boxes*, *cu. ft.*, *linear ft.*, etc. that are used to identify the configuration of material and how it is stored.

Subfield can assist those keeping statistics on the physical items.

300 ##\$a24\$f file drawers

Subfield \$f is repeatable when alternate or additional forms of extent data are given. Alternate forms of extent data are recorded in parentheses.

300 ##\$a5\$f boxes\$a(3\$f linear ft.)

\$g - Size of unit

Size of a type of unit given in the preceding subfield \$f.

300 ##\$3records\$a1\$f box\$g2 x 4 x 3 1/2 ft.

Repeatable when additional forms of extent data are given.

\$3 - Materials specified

Part of the described materials to which the field applies.

Placed either immediately before or after the physical description data.

300 ##\$a1 reel of 1 (37 ft.) :\$bsi., b&w ;\$c35 mm\$3dupe neg.

300 ##\$3diaries\$a3\$f v.

300 ##\$3correspondence\$a3\$f boxes

\$6 - Linkage

See description of this subfield in Appendix A: [Control Subfields](#).

\$7 - Data provenance

See description of this subfield in Appendix J: [Data Provenance Subfields](#).

\$8 - Field link and sequence number

See description of this subfield in Appendix A: [Control Subfields](#).

INPUT CONVENTIONS

Punctuation - Field 300 may end in no punctuation, may end in a right parenthesis when the last element

of the field is a parenthetical qualifier, or may end in a period when the last element is an abbreviation ("cm" and "mm" are not treated as abbreviations) or a 490 field is present in the record.

Temporary Data - If any portion of the number in the extent is subject to change (e.g., when the record for a multipart item is not yet complete), angle brackets (<...>) are customarily used to record that part of the data which is subject to change. The opening or closing data may also be omitted until the first and/or last price of the bibliographic item is received.

CONTENT DESIGNATOR HISTORY

Field 300 was extended to music sound recordings and visual materials in 1980. Prior to that time, music sound recordings specifications used field 305 (Physical Description for Sound Recordings (Pre-AACR 2)) and visual materials specifications used field 301 (Physical Description for Films (Pre-AACR 2)).

Prior to the definition of field 256 (Computer File Characteristics) in the computer file specifications in 1987, field 300 contained both the physical description of the files (e.g., the number or reels or disks) and file characteristics information (e.g., the type of file, the number of logical records).

\$b - Other physical details (MP) [NEW, 1978]

\$d - Accompanying material [OBSOLETE, 1997] [CAN/MARC only]

\$e - Accompanying material [NEW, 1980] [USMARC only]

Prior to when subfield \$e was added to the format, accompanying information was contained in a second subfield \$a in the books, archival and manuscripts control, music score and serial specifications and in a 500 note field in the maps specifications.

\$k - Speed [videodiscs, pre-AACR2 records only] [OBSOLETE, 1998] [CAN/MARC only]

\$m - Identification/manufacture number [pre-AACR2 records only] [OBSOLETE, 1988] [CAN/MARC only]

\$n - Matrix and/or take number [Sound recordings, pre-AACR2 records only] [OBSOLETE, 1988] [CAN/MARC only]

\$7 - Data provenance [NEW, 2022]
