IFLA Universal Bibliographic Control and International MARC Core Programme (UBCIM)

UNIMARC Guidelines no. 6

Electronic Resources

2000-08-22

1 INTRODUCTION

The following Guideline shows how the UNIMARC format is to be used when creating records for electronic resources. This Guideline was developed under the auspices of the IFLA Universal Bibliographic Control and International MARC (UBCIM) Programme. It results from meetings of the IFLA Permanent UNIMARC Committee and the requirements of the International Standard Bibliographic Description for Electronic Resources, ISBD(ER). At these meetings data elements used to describe electronic resources were compiled and their location in UNIMARC was determined.

Besides additional fields or content designators redefinition of existing fields may prove necessary in the future. As a result of the publication of ISBD(ER) certain changes were made to the UNIMARC Manual. Owing to the increasing use of UNIMARC for electronic resources and other non-book material and media, requirements for yet additional data may be encountered. They should be brought to the attention of the IFLA UBCIM Programme Office.

Section 2 of the Guideline indicates the general model for encoding UNIMARC records for electronic resources. The following section lists data elements commonly included in bibliographic descriptions of electronic resources and indicates where each data element would be placed in a UNIMARC record. Section 4 gives examples of full records for electronic resources.

This version of the Guideline takes account of the expansion of field 135, details of which were published in the UNIMARC Manual Update 3. The new values (from character position 2 onwards) are also described in MARC 21 Bibliographic field 007 for computer files on

http://lcweb.loc.gov/marc/bibliographic/ecbd007s.html#mrcb007c

2 UNIMARC MODEL FOR ELECTRONIC RESOURCES

The UNIMARC bibliographic format contains data elements for the specification, description and identification of electronic resources. Electronic resources consist of materials that are computer-controlled, including materials that require the use of a peripheral attached to a computer. That includes two types of resources:

- Data (information in the form of numbers, letters, graphics, images, and sound, or a combination thereof)
- Programs (instructions or routines for performing certain tasks including the processing of data).

In addition, they may be combined to include electronic data and programs (e.g. online services, interactive multimedia).

Electronic resources are treated in two ways depending on whether access is local or remote:

- Local access is understood to mean that a physical carrier can be described, which is to be inserted into a computer or a peripheral attached to a computer (e.g. disk/disc,

cassette, tape, cartridge).

- Remote access is understood to mean that no physical carrier can be handled by the user - typically access can only be provided by use of an input-output device either connected to a computer system (e.g. a resource in a network or time-sharing environment) or by use of resources stored in a hard disk or other storage device.

When the electronic resource is available in different types of carriers, and/or in different sizes of carriers, or in a different output medium or display format, the bibliographic agency may choose either of two methods of description:

- Each different physical carrier may be described in the same bibliographic record, with each carrier occupying a separate line or else grouped in a single line in the description.
- Each different physical carrier may be described in separate bibliographic records.

For further information see ISBD(ER), 5, Introductory note.

As it is the case with other materials, cataloguing and bibliographic description of electronic resources is based on the item. The UNIMARC record for an electronic resource therefore does not differ in general from the structure of UNIMARC record for other materials. The data necessary for the bibliographic description may be taken from the following sources in order of preference:

- Sources internal to the electronic resource, provided that such information is formally presented (e.g. in the title screen, main menu, program statements, first display of information, file header, home page or other identifying information prominently displayed). When the information varies in degrees of fullness in these sources, the source is to be preferred which provides the fullest or most complete information.
- Other sources in the following order of preference when information in the internal sources is insufficient or unavailable:
- Labels permanently affixed to or imprinted on the physical carrier of the resource
- Documentation, containers, or other accompanying material (e.g. publisher's letter)
- Any other published description of the resource (e.g. bibliographic databases, reviews).

For further information on sources of information see ISBD(ER), 0.5.

Some electronic resources may share characteristics with other types of documents, e.g. an electronic serial (Example 6). In these cases other ISBDs may need to be consulted as well.

"...ISBD (ER), page 2, gives two options for cataloguing electronic resources which share the characteristics of another form: one is to catalogue the item as an electronic resource and add details of the additional characteristics; the other is to catalogue the item following the rules of the other relevant ISBD and add the electronic resource details. In the case of a digitised map, the first option would lead to a catalogue record with a character position 6 of 'l'; the record would describe the item as an electronic resource with additional coded fields and notes giving the cartographic details. The second option would lead to a catalogue record with a character position 6 of 'e'; the record would describe the item as a map with additional coded fields and notes giving those details applicable to the electronic resource."- UNIMARC Manual, Record label (as amended in Update 3).

3 DATA ELEMENTS AND UNIMARC LOCATIONS

Any applicable UNIMARC field or subfield may be used for the description of electronic resources. The following data elements are frequently required to support access to and display of electronic resources. In addition any other data elements from UNIMARC may be used in a record for an electronic resource.

	UNIMARC Location

Title: Title as it appears on internal sources (opening screen, formal title screen, first display of information, header of the electronic resource etc.) container, labels on the physical carrier, documentation, containers, or other accompanying material	**200**
Parallel Title: Title in another language appearing on the electronic resource	**510**
Author(s) Authors, programmers of the computer files as listed on the electronic resource	**200$f $g and/or 700, 701, 710, 711**
Author affiliation(s): Institutional affiliations of the authors, programmers at the time the electronic resources were written or programmed	**700$p, 701$p, 710$p, 711$p**
Edition statement: Any term, phrase or group of characters relating to: A) all copies of an item formally identified as constituting a named and/or numbered edition; or B) all the copies of an item in a particular form of presentation having significant differences, in intellectual or artistic content, from other copies in the same form of presentation, whether or not the item bears any formal statement to that effect.	**205**
Publication, distribution	**210**
Physical description of the electronic resource: To be omitted for remotely accessed electronic resources, because there is no physical item. Electronic resource characteristics is used instead (see below).	**215**
Accompanying materials: User handbooks	**215, 307**
Series	**225, 410**
Electronic Resource Characteristics Mandatory for remotely accessed electronic resources. A replacement for Physical description of the electronic resource (see above)	**230**
Availability information: Price units, stock number, agency for ordering a copy of the electronic resource	**345, 010, 011**
Notes: **Type of electronic resource** **System requirements** **Notes pertaining to title and statement of responsibility:** Source of title proper. **Notes pertaining to edition:** Licensed by ... **Notes pertaining to publication, distribution:** Shareware, etc. **Notes pertaining to series** **Notes pertaining to availability** **Contents notes**	 **336** **337** **304** **305** **306** **308** **310** **327** **333** **856**

Users / Intended audience note **Electronic location and access**	
Coded data: **Qualifying Data:** Language of electronic resource Target audience Publication date **Country of publication or production** **Coded data relating to electronic resources:** program, representational, textual	**Record label/6** **101$a** **100 /17-19** **100 /8-16** **102** **135**
Other access points	**5--**
Linking entries	**4--**

The following table shows the data elements prescribed by ISBD(ER) for the bibliographic description of electronic resources and the corresponding locations in UNIMARC and other important bibliographic information for the bibliographic description of electronic resources:

ISBD (ER)	**UNIMARC Location**
1. Title and statement of responsibility area	200
2. Edition area	205
3. Type and extent of file area	230
4. Publication, distribution, etc., area	210
5. Physical description area	215
6. Series area	225
7. Note area Note on source of title proper (Mandatory) Notes relating to type and extent of file area and other files characteristics Notes on system requirements and the physical description area Notes relating to mode of access	3-- 304 336 337, 307 856
8. Standard number (or alternative) and terms of availability	010, 011 (and 530), 013, 015, 021, 022, 040

4 FULL RECORD EXAMPLES

Example 1: Computer program on CD ROM

|||||nlm0#22|||||###450#
001 lsp96-1263
005 19960214114210.0
100 ## $a19950109f1989####|||a0engy0103####ba
101 0# $aeng

102 ## $aUS
105 ## $a####c###000yy
135 ## $adoug#---nnnuu
135 ## $adjuo#---nnnuu
200 1# $aCongressional masterfile$bcomputer file$eCIS
retrospective congressional databases on CD-ROM,
1789-1969$fCongressional Information Service
205 ## $aRelease 1.1
210 ## $aBethesda$cCongressional Information Service$d1989
215 ## $a1 compact disk$d4 ¾ in.$e2 computer disks ; 5 ¼ in.$e1 user guide (1 v. loose-leaf ;
28 cm.)
230 ## $aComputer data
300 ## $a"Contents of Installation Diskette and Program Diskette ...
by Quantum Access, Inc." -- User guide
330 ## $a"The CIS Congressional Masterfile is a set of
searchable databases containing bibliographic records for four major
bodies of congressional documents. The databases correspond in
coverage to four printed indexes: ... 1. CIS US Congressional
Committee Prints Index, 1833-1969; 2. CIS Index to Unpublished US
Senate Committee Hearings, 1823-1964; 3. CIS US Congressional
Committee Prints Index, 1830-1969; 4. CIS US Serial Set Index,
1789-1969" -- User guide.
337 ## $aSystem requirements: IBM AT (or equivalent); 640K RAM; DOS
3.1 (or higher); hard disk; Microsoft CD-ROM extensions
606 ## $aLegislative hearings$yUnited States$xIndexes$2lc
607 ## $aUnited States$xGovernment documents$xSources$xIndexes$2lc
660 ## $an-us---
710 01 $aUnited States$bCongress$bSenate
711 02 $aCongressional Information Service
712 02 $aQuantum Access, Inc.
801 #0 aUSbNNU$c19960214$gAACR2
801 #1 aUSbNNU-L$c19960214

Notes:

200$b At present the relevant Anglo-American Cataloguing Rules GMD is "computer file".
The Joint Steering Committee for Revision of AACR has recommended that "electronic
resource" be adopted instead. 304 Mandatory field (Source of title proper) not present in
original.

Example 2: Computer program on a diskette

00938nlm0#2200181###450#
001 00.017499.8
005 19950109104810.0
010 ## $a3-89390-096-9$din Hülle : DM 19.80
100 ## $a19950109f1994####|||y0gery0103####ba
101 1# $ager$ceng
102 ## $aDE
135 ## $abjcou---uunun
200 1# $a*NSB*The *NSE*last half of darkness$eein spannendes
Grafik-Adventure$fSoftlab Laboratories
210 ## $a[München]$cSysthema-Verl.$d[1994 ?]
215 ## $a1 Diskette$cfarb.$d5,25"
230 ## $aComputerprogramm
337 ## $aSystemvoraussetzungen: Personalcomputer PC/XT/AT oder
PS/2 bzw. dazu Kompatibler, mindestens 512 KB Arbeitsspeicher, MS-DOS

ab Version 3.0, Festplatte mit mindestens 1,7 MB freiem
Speicherplatz, EGA- oder VGA-Grafikkarte mit entsprechendem
Farbmonitor, möglichst eine Microsoft- (oder dazu kompatible) Maus. -
Shareware for greater value. - Mit Bedienungsanleitung
712 02 $aSoftlab Laboratories
801 #0 aDEbGyFmDB$c19950109$gRAK-WB

Notes:

304 Mandatory field (Source of title proper) not present in original.

Example 3: Computer program and data on a CD

|||||nlm0#22||||###450#
001 frBN018464136
100 ## $a19950202d1994####m##y0frey0103####ba
101 1# $afre
102 ## $aFR
135 ## $acoug#--uu|||
200 1# $aAlbum de photos$bdocument électronique$e101 photos de
qualité professionnelles$fKarel de Gendre
210 ## $aParis$cMicro Application$d1994
215 ## $a1 disque optique numérique$ccoul.$d12 cm$emanuel
utilisateur 8 (p.)
230 ## $aDonnées (203 fichiers : 471 Mo) et programmes
304 ## $aTitre pris sur le disque optique numérique
327 ## $aBase de données de 101 images au format Kodak Photo-CD
(extension PCD) et au format THN$aContient également les programmes
de visualisation Paintshop Pro 2.0 et Graphic Workshop, version
shareware
336 ## $aDonnées graphiques
337 ## $aConfiguration requise : PC 386 ; 4 Mo RAM ; DOS 5 ;
Windows 3.1 ; logiciel de visualisation photo-CD ; moniteur VGA 256
couleurs ; lecteurs de CD-ROM
700 #1 $aGendre$bKarel de$4070
801 #0 aFRbBNF$c19950607$gAFNOR

Example 4: Computer program on diskettes (software)

|||||nlm0#22|||||###450#
001 lsp96-1266
005 19960214085310.0
100 ## $a19931210f1993####|||a0engy0103####ba
101 0# $aeng
102 ## $aUS
105 ## $a#########000yy
135 ## $abjuau---uun||
200 1# $aPro-Cite for the IBM PC and compatibles$bcomputer file
205 ## $aVersion 2.2.1
210 ## $aAnn Arbor, MI.$cPersonal Bibliographic Software,
Inc.$d[1993?]
215 ## $a2 computer disks$d3 ½ in.$e1 user's manual (loose-leaf
; 25 cm.)$e1 basic guide (ii, 54 p. ; 23 cm.)$e1 installation guide
(40 p. ; 23 cm.)$e1 reference card
230 ## $aComputer data
304 ## $aTitle from disk label

327 0# $aDisk 1. Program disk -- Disk 2. Supplement disk
330 ## $aThis program is a system for managing a bibliographic
database and formatting bibliographic reading lists.
337 ## $aSystem requirements: IBM or compatible; 640K RAM; DOS
3.3 (or higher); fixed disk drive
606 ## $aBibliographical citations$2lc
606 ## $aInformation storage and retrieval systems$2lc
606 ## $aBibliography$xSoftware$2lc
606 ## $aDatabases, Bibliographic$xSoftware$2lc
610 0# $aProCite for the IBM PC and compatibles
710 02 $aPersonal Bibliographic Software, Inc.$2lc
801 #0 aUSbNNC-M$c19960214$gAACR2
801 #2 aUSbNNC-M$c19960214
801 #2 aUSbCStRLIN$c19960214

Notes:

200$b At present the relevant Anglo-American Cataloguing Rules GMD is "computer file".
The Joint Steering Committee for Revision of AACR has recommended that "electronic
resource" be adopted instead.

Example 5: Electronic document on diskettes

|||||nlm0#22|||||###450#
001 frBN017709903
010 ## $a2-87728-023-3$d3600 F
100 ## $a19950607d1993####k##c0frey0103####ba
101 0# $afre
102 ## $aFR
135 ## $aajca#---uu|||
200 1# $aComex langues$bdocument électronique$ebase de données
multilingues pour l'export agro-alimentaire$fDélégation académique à
la formation continue (D.A.F.C.O.) de Montpellier
210 ## $aMontpellier$cDAFCO$d1993
215 ## $a2 disquettes (720 K)$d9 cm$e1 manuel
230 ## $aDonnées (24 fichiers) et programmes (1 fichier)
304 ## $aTitre figurant dans le texte numérisé
336 ## $aDonnées textuelles
337 ## $aConfiguration requise : PC 286 ; 640 K RAM; MS-DOS ;
moniteur couleur ; souris
710 01 $aFrance$bAcadémie de Montpellier$bDélégation académique
à la formation continue$4070
801 #0 aFRbBNF$c19950607$gAFNOR

Example 6: Record for a serial publication

|||||nls0#22|||||###450#
001 frBN01788026
011 ## $a0994-9895
100 ## $a19950620a198#9999|||y0gery0103###ba
101 0# $aeng
102 ## $aFR
110 ## $aafuz###0uu0
135 ## $adjua#---uuuuu
200 1# $aImmunoclones$bdocument électronique$e[a publication on new monoclonal
antibodieshybridomas and other types of immunoclones]$fEuropean Centre of scientific

information and communication (CERDIC)$gpublication manager, L. Réchaussat$gscientific
contribution, J. Polais-Kitabgi and B. Dutertre$gfloppy disk version for PC compatibles
prepared by R.A. Schravendeel
210 ## $aSophia-Antipolis$cCERDIC$d198?
215 ## $aDisquette$d9 cm
300 ## $aNotice red. d'après le nº 11 du vol. 4 (1993, mars)
326 ## $aMensuel
337 ## $aConfiguration requise : PC 286 ; 680 K RAM ; MS-DOS 3.3
; Carte vidéo VGA
702 #1 $aRéchaussat$bL.$4345
702 #1 $aPolais-Kitabgi$bJ.$4205
702 #1 $aDutertre$bB.$4205
710 02 $aCentre européen de recherches documentaires sur les
immunoclones$4070
801 #0 aFRbBNF$c19950620$gAFNOR

Notes:

304 Mandatory field (Source of title proper) not present in original.

Example 7: Multimedia, incl. Electronic resources on CD-ROM

|||||nlm**22|||||***450*
001 ** 999600
100 ** $a19980609d1998****km*y0pory0103****ba
101 2* $apor$aeng
102 ** $aPT
135 ** $avocg#---uuuua
200 1* $aBiblioteca virtual dos autores portugueses$bdocumento electrónico$dVirtual Library
of portuguese authors$fcoord. cient. Ivo Castro... *et al.*
210 ** $aLisboa$cBiblioteca Nacional$d1998
215 ** $a2 cd-rom$ccolor.$d12 cm$emanual do utilizador (*8 p.* ;
13 cm)
230 ** $aDados e programas (CD 1: 6730 ficheiros, 1042
directorias, 435 MB; CD2: 9360 ficheiros, 2020 directorias, 482 MB)
327 1* $aDisco 1: Crónica de D. Fernando / Fernão Lopes. Os
Lusíadas ; rimas / Luís de Camões. Carta de guia de casados /
Francisco Manuel de Melo. Sentimento de um ocidental / Cesário Verde.
Os Maias / Eça de Queiroz$aDisco 2: Cantigas de amigo amor e escárnio
/ Dom Dinis. Carta / Pêro Vaz de Caminha. Auto de Inês Pereira / Gil
Vicente. Écloga Aleixo / Sá de Miranda. O cuidar e suspirar / Jorge
da Silveira...*et al.*. Menina e moça / Bernardim Ribeiro.
Peregrinação / Fernão Mendes Pinto. Viagens na minha terra / Almeida Garrett. Maria Moisés
/ Camilo Castelo Branco. Clepsidra / Camilo Pessanha. Mensagem ; O guardador de rebanhos /
Fernando Pessoa. Mau tempo no canal / Vitorino Nemésio
336 ** $aTexto (manuscritos originais, ed. modernas, trad., biografias e bibliografias)
337 ## $aConfiguração mínima : Pentium 100 ou equivalente; 16 MB
RAM; 20 MB livres em disco (mais 20 MB para instalação do Internet
Explorer 4.01); Windows 95; placa vídeo 640x480 com 16 bits de cor;
leitor de CD de dupla velocidade
702 #1 $aCastro,$bIvo,$f1945-
801 #0 aPTbBNP$c19980615$gRPC

Notes:

304 Mandatory field (Source of title proper) not present in original.

Example 8: Serial publication on CD-ROM

|||||nls**22|||||***450*
001 ** 802967
011 ## $a0873-3171
100 ** $a19960321a19959999km*a0pory0103****ba
101 0* $apor
102 ** $aPT
110 ## $aajaaaa##0yy1
135 ** $adoug#---uuuua
200 1* $aBibliografia nacional portuguesa$bdocumento electrónico$fInstituto da Biblioteca
Nacional e do Livro, Direcção de Serviços Porbase
210 ** $aLisboa$cIBL$aMadrid$cChadwick-Healey [distrib.]$d1995-
215 ** $aCD-ROM$eManual do utilizador (53 p.)
230 ** $aDados e programas (8 directorias; 122 ficheiros)
303 ## $aCada n. substitui o anterior
326 ## $aSemestral
336 ** $aTexto (reg. bibliográficos)
337 ## $aConfiguração mínima : IBM PC 286,386,486 ou compatível; 640 KB RAM; 512 KB
livres; placa gráfica EGA ou VGA; MSDOS 3.2 ou posterior; leitor de CD
433 #1 $tBoletim de bibliografia portuguesa$iMonografias$x0253-3413
433 #1 $tBoletim de bibliografia portuguesa$iPublicações em série$x0253-3421
530 0# $aBibliografia nacional portuguesa
620 ## $aLisboa
675 ## $a015 (469) (0.034) (05)$vBN$zpor
712 01 $aPortugal.$bInstituto da Biblioteca Nacional e do
livro.$bDirecção de Serviços Porbase$4650
801 #0 aPTbBNP$c19980615$gRPC

Notes:

304 Mandatory field (Source of title proper) not present in original.

Example 9: Multimedia, incl. electronic resources on CD-ROMs

Record for multimedia ER series
00423nls1#2200157###450#
001 00.017628.1
005 19950109104810.0
100 ## $a19950109a19911999|||y0gery0103####ba
101 0# $ager
102 ## $aDE
110 ## $aauuz###0uu0
105 ## $a####z########
135 ## $acocg#---uuuuu
200 1# $aMultimedia-Galerie$fCarsten Scheibe (Hrsg.)
210 ## $aMünchen$cRowohlt-Systhema-Verl.
215 ## $d12 cm
225 1# $aColorsof-CD
702 #1 $aScheibe,$bCarsten$4340
801 #0 aDEbGyFmDB$c19950109$gRAK-WB

Notes:

200$b ISBD(ER) states that the GMD is optional.

Record for one item in the series above
00923nmm2#2200205###450#
001 00.017629.X
005 19950109104810.0
010 ## $a3-634-20618-7$din Karton : DM 39.00, sfr 38.00, S
299.00
100 ## $a19950109d1994####|||y0gery0103####ba
101 0# $ager
102 ## $aDE
105 ## $a####z###000yy
135 ## $avocga---uuuuu
200 1# $aTools, ClipArts, Sounds, Demos und jede Menge Tips und
Tricks$fCarsten Scheibe (Hrsg.)
210 ## $aMünchen$cRowohlt-Systhema-Verl.$d1994
215 ## $a1 CD-ROM$cfarb., mit Ton$d12 cm$eBeih. (43 S.)
225 0# $aMultimedia-Galerie$vVol. 2
225 1# $aColorsof-CD
230 ## $aComputerprogramm
337 ## $aSystemvoraussetzungen: 80386er DX-33 oder besser,
mindestens 2-4 MB RAM, Festplatte, Maus, SuperVGA-Grafikkarte mit hochauflösendem
Farbmonitor, SoundBlaster-Karte, ab MS-Windows 3.1. - Shareware. - Virengeprüft
410 1# $100100.017628.1$12001 $aMultimedia-Galerie$vVol. 2
702 #1 $aScheibe,$bCarsten$4340
801 #0 aDEbGyFmDB$c19950109$gRAK-WB

Notes:

200$b ISBD(ER) states that the GMD is optional. 304 Mandatory field (Source of title proper)
not present in original.

Example 10: Remotely accessed electronic document on the Internet

|||||nlm0#22|||||###450#
001 lsp96-1267
005 19960214152810.0
100 ## $a19950616a19959999|||a0engy0103####ba
101 0# $aeng
102 ## $aUS
105 ## $a####z###000yy
135 ## $adrcn#---mu|||
200 1# $aBeyond the Internet$bcomputer file$ethe transition to the National Information
Infrastructure$eproceedings of the Library of Congress Network Advisory Committee,
December 4-5, 1994
210 ## $aWashington, D.C.$cNetwork Development and MARC Standards Office, Library of
Congress$d1995
225 0# $aNetwork planning paper$vno. 28
230 ## $aComputer data
300 ## $aTitle from home page
310 ## $aASCII version available via LC MARVEL
330 ## $aFull text of the proceedings of the meeting, including the agenda, table of contents,
list of attendees and speakers, and goals of the meeting
410 #1 $aNetwork planning paper (Online)$vno. 28
606 ## $aInformation superhighway$yUnited
States$xCongresses$xDatabases$2lc
660 ## $an-us---
710 12 $aNetwork Advisory Committee.$bMeeting$f(1994 Dec.
4-5$eWashington, D.C.)

711 02 $aLibrary of Congress.$bNetwork Development and MARC
Standards Office
801 #0 aUSbDLC$c19960214$gAACR2
856 4# $uhttp://lcweb.loc.gov/nac/nac28/nactoc.html
856 7#
$ugopher://marvel.loc.gov:70/11/services/libinforg/nac/nac28$2gopher

Notes:

200$b At present the relevant Anglo-American Cataloguing Rules GMD is "computer file".
The Joint Steering Committee for Revision of AACR has recommended that "electronic
resource" be adopted instead. 300 Source of title proper placed in general notes in MARC 21
records (MARC 21 field 500) so has been converted to UNIMARC general notes field 300 not
to field 304.

Example 11: Remotely accessed electronic document on the Internet

|||||nlm0#2200181###450#
001 123456789
100 ## $a19950105d1991####k||y0engy0103####ba
101 0# $aeng
135 ## $adrunu---uuuuu
200 1# $aWho's who in the Internet$bcomputer file$ebiographies
of IAB, IESG, and IRSG members$fG. Malkin$gNetwork Working Group
210 ## $d1991
230 ## $aComputer data
300 ## $a"August 1991"
304 ## $aTitle from title screen
330 ## $aBiographical information about members of the Internet Activities Board (IAB), the
Internet Engineering Steering Group (IESG) of the Internet Research Task Force (IETF), the
Internet Research Steering Group (IRSG) and the Internet Research Task Force (IRTF)
336 ## $aText
700 #1 $aMalkin,$bGary Scott
801 #0 aUSbDLC$c19960104$gAACR2
856 1# $uftp.sunet.se/pub/Internet-documents/fyi/fyi9.html
856 4# $uhttp://www.globecom.net/ietf/rfc/rfc1336.
856 4#
$uhttp://webrum.uni-mannheim.de/rz/nerz/config/1web/1netz/1inte/1fyi/
9fyi0.htm
$zRestricted access, permission required.

Notes:

200$b At present the relevant Anglo-American Cataloguing Rules GMD is "computer file".
The Joint Steering Committee for Revision of AACR has recommended that "electronic
resource" be adopted instead.

Example 12: Remotely accessed electronic journal on the Internet

|||||nls0#2200181###450#
001 123459876
100 ## $a19900105a19899999km|y0engy0103####ba
101 0# $aeng
135 ## $adrcn---muuuu
200 1# $aQuanta$bcomputer file
210 ## $aPittsburgh, Pa.$cQuanta Magazine$d1989-
230 ## $aComputer data

300 ## $aEditor: Daniel K. Appelquist
304 ## $aTitle from title page
330 ## $aStories of science fiction and fantasy
336 ## $aText
517 1# $aQuanta magazine
801 #0 aUSbDLC$c19950214$gAACR2
856 4# $uhttp://www.etext.org/Zines/Quanta/

Notes:

200$b At present the relevant Anglo-American Cataloguing Rules GMD is "computer file".
The Joint Steering Committee for Revision of AACR has recommended that "electronic
resource" be adopted instead. 300 The online file contains a facsimile of the printed title page.

Example 13: Remotely accessed electronic document on the Internet

|||||nlm0#2200181###450#
001 987654321
100 ## $a19941216f1992####k||y0engy0103####ba
101 0# $aeng
135 ## $adrunu---uuauu
200 1# $a*NSB*The *NSE*Oedipus trilogy$bcomputer file$fby
Sophocles
210 ## $aLisle, IL$cIllinois Benedictine College$d[1991?]
225 1# $aProject Gutenberg etext
230 ## $aComputer data
300 ## $aTitle from title screen
324 ## $aElectronic text of: Sophocles. The Oedipus trilogy / by
Sophocles ; English translation by F. Storr. Cambridge, Mass. :
Harvard University Press, 1912. (Loeb Library)
327 0# $aOedipus the King$aOedipus at Colonus$aAntigone
336 ## $aText
700 #0 $aSophocles
801 #0 aUSbDLC$c19941216$gAACR2
856 1#
$uftp://sailor.gutenberg.org/pub/gutenberg/etext92/oedip10.txt
856 1#
$uftp://src.doc.ic.ac.uk/media/literary/collections/project_gutenberg
/gutenberg/ etext92/oedip10.txt
856 1#
$uftp://uiarchive.cso.uiuc.edu/pub/etext/gutenberg/etext92/oedip10.txt

Notes:

200$b At present the relevant Anglo-American Cataloguing Rules GMD is "computer file".
The Joint Steering Committee for Revision of AACR has recommended that "electronic
resource" be adopted instead. 300 Source of title proper placed in general notes in MARC 21
records (MARC 21 field 500) so has been converted to UNIMARC general notes field 300 not
to field 304.

856/2 $u: The space between "gutenberg/" and "extext" in the URL has been added for text
formatting purposes only. It is not intrinsic to the URL and must be deleted before searching.

Example 14: Multimedia computer files on a CD-ROM

01108nlm0#2200181###450#
001 00.017623.0

005 19950109104810.0
010 ## $a3-86126-800-0$din Kassette : DM 178.00
100 ## $a19950109d1994####|||y0gery0103###ba
101 0# $ager
102 ## $aDE
105 ## $a####z###000yy
135 ## $avocga---muuuu
200 1# $aArs Medici$eärztliche Untersuchungstechniken$einteraktive Multimedia-CD-ROM$eenthält über 1500 Bildschirmseiten, mehr als 120 Videoclips, nahezu 2000 Bilder, über 360 Minuten Ton-/Sprachsequenzen - entsprechen einem gesamten Speicherumfang von circa 400 MB$fStiftung NeoCortex für Interaktive Medien im Bildungswesen$gEntwicklung dieses Programmes Hanspeter Rohr und seine Mitarb.
210 ## $aWiesbaden$cUllstein Mosby$d1994
215 ## $a1 CD-ROM$cfarb., mit Ton$d12 cm
336 ## $aText, Graphik (Bilder, Videoclips)
337 ## $aSystemvoraussetzungen: IBM-kompatibler PC (Empfehlung 486 DX 50 oder 66 MHz), 8 MB RAM, VGA-Karte (Auflösung 640/480, 256 Farben), Soundblaster-Pro-Karte oder kompatible Karte, DOS ab 5.0, Windows ab 3.1
702 #1 $aRohr,$bHanspeter$4560
712 02 $aStiftung NeoCortex für Interaktive Medien im Bildungswesen
801 #0 aDEbGyFmDB$c19950109$gRAK-WB

Notes:

200$b ISBD(ER) states that the GMD is optional. 304 Mandatory field (Source of title proper) not present in original.

Example 15: Computer programs and graphic computer files on a CD-ROM and a diskette

00967nmm1#2200205###450#
001 00.017500.5
005 19950109104810.0
010 ## $a3-89362-626-3$din Buchrückentasche : DM 39.00, sfr 37.00, S 332.00
100 ## $a19950109d1994####|||y0gery0103####ba
101 1# $ager$ceng
102 ## $aDE
105 ## $a####z###000yy
135 ## $aco
200 1# $aGrafikbearbeitung & Morphing$eMorphing mit PhotoMorph, DMorf und Rmorf, Arbeiten mit Graphic Workshop, Paint Shop Pro, NeoPaint, Tiffy und GIFDesk, zahlreiche Bilder im GIF-, IPEG- und TIFF-Format, Video$fClaudia Born
205 ## $a1. Aufl.
210 ## $aMünchen$ctewi-Verl.$d1994
215 ## $a1 CD-ROM$cmit Ton, farb.$d12 cm$eBenutzerhandbuch (100 S.), 1 Diskette
225 1# $atewi-CD
230 ## $aComputerprogramm
336 ## $aComputergraphik
337 ## $aSystemvoraussetzungen: IBM-kompatibler AT 80286 oder höher, 4 MB RAM, 50 MB Festplatte, VGA-Grafikkarte, Soundkarte. - Shareware
702 #1 $aBorn,$bClaudia$4340
801 #0 aDEbGyFmDB$c19950109$gRAK-WB

Notes:

200$b ISBD(ER) states that the GMD is optional.
304 Mandatory field (Source of title proper) not present in original.

Example 16: Computer program on a CD-ROM

00749nlm0#2200169###450#
001 00.017617.6
005 19950109104810.0
010 ## $a3-541-12791-0$din Kassette : DM 298.00
100 ## $a19950109f1994####|||y0gery0103####ba
101 1# $ager$ceng
102 ## $aDE
105 ## $a####z###000yy
135 ## $abocg#---mu|||
200 1# $aMSD-Manual
205 ## $a5. Aufl.
210 ## $a[München$aWien$aBaltimore]$cUrban und
Schwarzenberg$d[1994 ?]
215 ## $a1 CD-ROM$cfarb.$d12 cm
230 ## $aComputerprogramm
337 ## $aEnth. Windows- und DOS-Version. - Systemvoraussetzungen
für Windows-Version: IBM-kompatibler PC mit MS-Windows 3.1, 4 MB RAM.
- Systemvoraussetzungen für DOS-Version: IBM-kompatibler PC mit
MS-DOS ab 3.3, 1 MB RAM, Treibersoftware, VGA-Grafikkarte, Festplatte
ca. 2 MB Speicherplatz
801 #0 aDEbGyFmDB$c19950109$gRAK-WB

Notes:

200$b ISBD(ER) states that the GMD is optional.
304 Mandatory field (Source of title proper) not present in original.

Example 17: Remotely accessed document on the Internet Record for ER series

90330002##########00000ns1#2200000
001 990330002
100 ## $a19990330a199#9999####y0hrvy0103####ba
101 0# $ascr
102 ## $aHR
110 ## $abuu####0xx0tx
135 ## $adrun#---uu|||
200 1# $aIspitna literatura$bElektronicka građa$edigitalna
zbirka$fFilozofski fakultet, Odsjek za informacijske znanosti,
Katedra za bibliotekarstvo$g*uređuje Aida Slavic*
210 ## $a*Zagreb$cFilozofski fakultet$d*199-*- *
230 ## $aTekst
300 ## $aStv. nasl. zaslona
300 ## $aInacica stv. nasl.: Digitalna knji�nica Katedre za
bibliotekarstvo
300 ## $aNenumerirana nakladnicka cjelina
517 1# $aDigitalna knji�nica Katedre za bibliotekarstvo

801 #0 aHRbNSK$cPPIAK
856 4# $uhttp://www.ffzg.hr/infoz/biblio/nastava/dz/zbirka.htm

Record for the item in the series above

990330001##########00000nlm2#2200000
001 990330001
100 ## $a19990330f1994####y0hrvy0103####ba
101 0# $ascr
102 ## $aHR
105 ## $ay#######000yy
135 ## $adrun#---uu|||
200 1# $aRad u knji�nici$bElektronicka građa$epriruènik za
knji�nicare$fKatica Tadic
210 ## $a*Zagreb$cFilozofski fakultet$dposlije 1994*
225 2# $aIspitna literatura$edigitalna zbirka$fFilozofski
fakultet, Odsjek za informacijske znanosti, Katedra za
bibliotekarstvo
230 ## $aTekst
300 ## $aStv. nasl. s naslovnice
300 ## $aDostupno i u tiskanom obliku
320 ## $aBibliografija
327 1# $aNa nasl. str.: "Sve osim odjeljka o katalogizaciji i
odjeljka o klasifikaciji"
410 #1 $100199033002
410 #1 $1001940629118$150000$aRad u knji�nici$ntiskana
građa$1700#1$aTadic$bKatica
675 ## $a02(035)
700 #1 3940629016aTadic$bKatica
801 #0 aHRbNSK$cPPIAK
856 4# $uhttp://www.ffzg.hr/infoz/biblio/nastava/dz/text/katm

Example 18: Serial Publication on CD-ROM

00797nls0#2200229###450#
001 CFI0414861
005 1999052712500200
100 ## $a19990527a19979999|||y0ITAy01||||||ba
101 |# $aita
102 ## $aIT
135 ## $adoug#---mu|||
200 1# $aEcolo � $ela banca dati dei nomi e delle ricerche per
l'ambiente italiano$fFondazione Lombardia per l'ambiente
207 ## $a1997-
210 ## $aMilano$cLA,$d[1997]-
215 ## $a CD-ROM$d12 cm
230 ## $aDati e programmi per computer
300 ## $aAnnuale
304 ## $aTit. dell'etichetta
337 ## $aRequisiti del sistema: Windows 3.1 o superiore; 8 MB RAM;
VGA, SuperVGA o compatibili; Mouse Microsoft compatibile; Drive
CD-ROM
712 02 $aFondazione Lombardia per l'ambiente$3MILV088732
801 #0 aITbBNI$c19990527$gRICA
802 ## $ad

Notes: 200$b ISBD(ER) states that the GMD is optional.

Example 19: Electronic map and program

```
00577nlm0#2200193###450#
001 IEI0107837
005 1999060115264400
100 ## $a19990601d1998####|||y0itay01||||||ba
101 |# $aita$aeng
102 ## $aUS
135 ## $avocga---mu|||
200 1# $aAtlante mondiale Microsoft Encarta 1999
210 ## $a[Redmond]$c Microsoft Corporation,$dc1998
215 ## $a2 CD-ROM$csonoro, color.$d12 cm
230 ## $aDati cartografici e programmi elettronici
300 ## $aSito internet: encarta.msn.com/it/
304 ## $aTit. delle fonte interna
801 #0 $aIT$bBNI$c19990601$gRICA
802 ## $ad
```

Notes: 200$b ISBD(ER) states that the GMD is optional.

Example 20: Presentation of the Archive of Republic of Slovenia collections on a CD-ROM

```
01188nlm0#22002772##450#
001 COBISS 104325888
005 19991210
010 ## $a961-6137-39-5
100 ## $a19991021d1999####k##y0slvy0103####ba
101 0# $aslv
102 ## $aSI
135 ## $adomg#---mumaa |||
200 0# $aVodnik po fondih in zbirkah Arhiva Republike Slovenije$bElektronski vir$f[glavni
urednik Vladimir Kolo�a$gavtorji uvodnih tekstov Vladimir Zumer ... [et al.]$gavtorji
popisov fondov in zbirk Marjeta Adamic ... [et al.]$gprevod v nem�cino in angle�cino A3]
210 ## $aLjubljana$cArhiv Republike Slovenije$d1999
215 ## $a1 opticni disk (CD-ROM)$d12 cm
337 ## $aSistemske zahteve: IBM PC AT kompatibilni racunalnik;
procesor 486 32 MB RAM (64MB za Windows NT); Microsoft Windows 95, 98
ali Windows NT Workstation operacijski sistem verzija 4 ali kasnej�a
601 02 $aArhiv Slovenije$xVodniki$2NUK
675 ## $a930.253(497.4 Ljubljana)(086.2.034)
702 #1 $aKolo�a$bVladimir$4340
702 #1 $aZumer$bVladimir$4080
702 #1 $aAdamic$bMarjeta$4080
710 02 $aArhiv Slovenije
801 #0 $aSI$bNUK$c19991021$gPPIAK$2comarc
801 #2 $aSI$bNUK$c19991021
801 #3 $aSI$bNUK$c19991210
```

Notes:

Example 21: An electronic online journal, linked to its printed and CR-ROM versions

```
01255nls1#2200385###450
001 COBISS 105100544
005 19991210
```

011 ## $a1580-2205
100 ## $a19991203a19909999k##y0slvy0103####ba
101 0# $aeng
102 ## $aSI
110 ## $aaja||||||||
135 ## $adrmn#---mumaa
200 1# $aThe school field$bElektronski vir$einternational journal of
theory and research in education
205 ## $a[Online ed.]
207 #0 $aVol. 1, No 1 (Summer 1990)-
210 ## $aLjubljana$bMestni trg 17$cSlovene Society of Researchers in
the School Field$d[199-]-
230 ## $aEl. casopis
300 ## $aNasl. z nasl. zaslona
300 ## $aOpis vira z dne 3.12.1999
326 ## $aPolletnik
452 #1 $1011##$a0353-6807$12001#$aThe school field$bTiskano besedilo
452 #1 $1011##$a1580-2213$12001#$aThe school field$bElektronski
vir$1205##$a[Compact disk ed.]
530 0# $aSchool field$bOnline ed.
531 ## $aSch. field$bOnline ed.
606 ## $a�olstvo
675 ## $a37$vdo 4. izd.
801 #0 aSIbNUK$c19991203$gPPIAK$2comarc
801 #2 aSIbNUK$c19991208
801 #3 aSIbNUK$c19991210
802 ## $a31
856 4# $uhttp://www.schoolfield.com

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