

What is an electronic resource?

AACR2 Rule 9.0A1 states:

Electronic resources consist of data (information representing numbers, text, graphics, images, maps, moving images, music, sounds, etc.), programs (instructions, etc., that process the data for use), or combinations of data and programs. Electronic resources often include components with characteristics found in multiple classes of materials so there will frequently be a need to consult other chapters. For example, in describing a serially-issued cartographic electronic resource, use chapters 3, 9, and 12.

For cataloging purposes, electronic resources may be treated in one of two ways depending on whether access is direct (local) or remote (networked). Direct access is understood to mean that a physical carrier can be described. Such a carrier (e.g., disc/disk, cassette, cartridge) must be inserted into a computerized device or into a peripheral attached to a computerized device. Remote access is understood to mean that no physical carrier can be handled. Remote access can only be provided by use of an input-output device (e.g., a terminal), either connected to a computer system (e.g., a resource in a network), or by use of resources stored in a hard disk or other storage device.

The content of the information package is the most important factor when cataloging. An electronic resource that is primarily language material should be cataloged as a monograph, serial, or [integrating resource](#), as appropriate. For example, a music score issued in electronic format should be cataloged as a score, not as an electronic resource. The computer/electronic aspects of these materials are brought out with the addition of an 007 field (see [007 Field: Physical Description Fixed Field: General Information and Policies](#)) to the record. The 007 field is mandatory for all electronic resources.

Chief source of information

AACR2 Rule 9.0B1 states:

The chief source of information for electronic resources is the resource itself.

Take the information from formally presented evidence (e.g., title screen(s), main menus, program statements, initial display(s) of information, home page(s), the file header(s) including "Subject:" lines, encoded metadata (e.g., TEI headers, HTML/XML meta tags), and the physical carrier or its labels), including information that has been uncompressed, printed out, or otherwise processed for use. If the information in these sources varies in degree of fullness, prefer the source that provides the most complete information.

If the information required is not available from the resource itself, take it from the following sources (in this order of preference):

- printed or online documentation or other accompanying material (e.g., publisher's letter, "about" file, publisher's Web page about an electronic resource)
- information printed on a container issued by the publisher, distributor, etc.

Cataloging CD-ROMs

CD-ROMs are currently manufactured in two sizes: 4 3/4 inch and 3 inch (called mini or biz card CD-ROMs).

Fixed field

Leader

Record Status	n : New
Type of Record	a : Language material
Bibliographic Level	m : Monograph/item
Type of Control	_ : No specific type of control
Encoding Level	_ : Full level
Cataloging Form	a : AACR 2
Linked Record Requirement	_ : Related record not required

007 for electronic resource

<input type="checkbox"/> Map	<input checked="" type="checkbox"/> Electronic Resource	<input type="checkbox"/> Globe	<input type="checkbox"/> Tactile Material
Specific Material Designation	o : Optical disc		
Original vs. Reproduction Aspect (OBSOLETE)	_ : Undefined (OBSOLETE)		
Color	c : Multicolored		
Dimension	g : 4 3/4 in. or 12 cm.		Note: For mini CD-ROMs, use z : Other for Dimension
Sound on Medium	_ : No sound (silent)		
Image Bit Depth	/// : No attempt to code		
File Format	♯ : No attempt to code		
Quality Assurance Target(s)	♯ : No attempt to code		
Antecedent/Source	♯ : No attempt to code		
Level of Compression	♯ : No attempt to code		
Reformatting Quality	♯ : No attempt to code		

008

Publication Status	s : Single known date/probable date
Date 1 (yyyy)	2007
Date 2 (yyyy)	_____
Place of Publication	dcu : District of Columbia
Illustrations 1	a : Illustrations
Illustrations 2	_ : No illustrations
Illustrations 3	_ : No illustrations
Illustrations 4	_ : No illustrations
Audience	_ : Unknown or not specified
Form of Item	s : Electronic
Contents 1	b : Bibliographies
Contents 2	i : Indexes
Contents 3	_ : No specified nature of contents
Contents 4	_ : No specified nature of contents
Govt. Publication	_ : Not a government publication
Conf. Publication	1 : Conference publication
Festschrift	0 : Not a festschrift
Index	1 : Index present
Literary Form	0 : Not fiction (not further specified)
Biography	_ : No biographical material
Language	eng : English
Modified Record	_ : Not modified
Cataloging Source	_ : National bibliographic agency

Variable Fields

Tag	I1	I2	Subfield Data
020			‡a 9781424413065
035			‡a (OCoLC)191701323
090			‡a T57.62 ‡b .C64 2007
111	2		‡a Winter Simulation Conference ‡d (2007 : ‡c Washington, D.C.)
245	1	0	‡a WSC '07 ‡h [electronic resource] : ‡b proceedings of the 2007 Winter Simulation Conference : December 9-12, 2007, Washington, D.C., U.S.A.
246	3	0	‡a 2007 Winter Simulation Conference
260			‡a New York, N.Y. : ‡b Association for Computing Machinery, ‡c c2007.
300			‡a 1 CD-ROM : ‡b col. ; ‡c 4 3/4 in.
538			‡a System requirements (IBM-PC or compatible): Windows 98 or newer; Internet Explorer with Active Content enabled, or Netscape, Mozilla, Firefox, Opera, or any browser able to use Java and JavaScript; 8x speed CD-ROM/DVD-ROM player or faster.
538			‡a System requirements (Macintosh): Mac OS X 10.3.4 or newer; Safari 1.3.1 with Java and JavaScript enabled; Java 1.4.1 update 2 or newer; 8x speed CD-ROM/DVD-ROM player or faster.
500			‡a Title from disc label.
504			‡a Includes bibliographical references and author index.
→ 650	0		‡a Digital computer simulation ‡v Congresses.
650	0		‡a Simulation methods ‡v Congresses.
710	2		‡a Association for Computing Machinery.
904			‡a dls ‡b m ‡h m ‡c f ‡e 20080131
902			‡a jwl ‡b m ‡6 a ‡7 m ‡d c ‡f 1 ‡e 20080228

All electronic resources (direct and remote access) have a general material designator of **\$h [electronic resource]**.

Order of notes:

Nature and Scope (500, 516)

System Requirements (538) in this order:

- the make and model of the computer(s) on which the resource is designed to run
- the amount of memory required
- the name of the operating system
- the software requirements (including the programming language)
- the kind and characteristics of any required or recommended peripherals
- the type of any required or recommended hardware modifications

538 System requirements: PC or Macintosh; 16 MB of RAM; Windows 95/98 or NT; SVGA color display capable of displaying 1024 by 768 pixels; DVD-ROM drive.

Mode of Access (538) (remote electronic resources only)

Language and Script (546, 500)

Source of Title Proper (500)

500 Title from disc label.

500 Title from title screen.

Variations in Title (246, 500)

Parallel Titles and Other Title Information (246, 500)

Statements of Responsibility (500)

Edition and History (500)

File Characteristics (500, 538)

Publication, Distribution, Etc. (500)

Physical Description (500)

Accompanying Material (500, 556, 590)

Series (490, 500)

Dissertations (502, 500)

Audience (521)

Reference to Published Descriptions (510)

Other Formats (530)

Summary (520)

Contents (505, 504, 500)

Numbers (OXX, 500)

Copy Being Described, Library's Holdings, and Restrictions on Use (5XX, 590, 506)

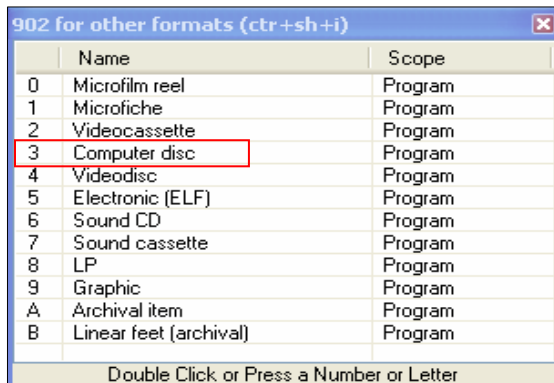
"With" Notes (501, 591)

Combined Notes Relating to a Reproduction (533)

Item Described (500)

Local processing

902 field



	Name	Scope
0	Microfilm reel	Program
1	Microfiche	Program
2	Videocassette	Program
3	Computer disc	Program
4	Videodisc	Program
5	Electronic (ELF)	Program
6	Sound CD	Program
7	Sound cassette	Program
8	LP	Program
9	Graphic	Program
A	Archival item	Program
B	Linear feet (archival)	Program

Double Click or Press a Number or Letter

Holdings record

- All CD-ROMs, except those going to ReCAP, are given accession numbers. Make a permanent card for the shelflist and use the next available number for the particular location.
- The accession number should appear in the 852 field on the holdings screen as: COMPUTER FILE 56
- Always use uppercase letters.

Tag	I1	I2	Subfield Data
852	8		⌘ st ⌘h COMPUTER FILE 56
→			

Location

- CD-ROMs are only to be placed in locations that have the appropriate computer equipment. This includes most branch libraries and the various reference locations. CD-ROMs should never be assigned to Firestone stacks, except in the case of accompanying material.
- FILMB is the designated location for CD-ROMs not ordered by a specific location.
- ELF2 is the CD-ROM tower designation. Send these materials to the Systems Office after cataloging.

Item record

- All CD-ROMs should have item records. Before creating a new item record, check to make sure one has not already been created during acquisitions.
- The accession number should appear in the 852 field on the holdings screen as: COMPUTER FILE 12
- Always use capital letters.

Barcoding

A single barcode should be placed in the upper lefthand corner of the back of the jewel case. Barcodes are not assigned or affixed to CD-ROMs and their associated documentation. For information on marking the item see [Recording the Call Number: CD-ROMs, Computer disks](#). Make a printout of the OPAC record and mail it with the CD-ROM and accompanying material to the appropriate location.

Cataloging PDFs

LCRI 1.11A (for cataloging reproductions) states:

Transcribe the bibliographic data appropriate to the original work being reproduced in the following areas:

- title and statement of responsibility
- edition
- material (or type of publication) specific details
- publication, distribution, etc.
- physical description
- series

Give in a **single 533 note** all other details relating to the reproduction:

- format of the reproduction
- date of publication
- place and name of the agency responsible for the reproduction
- date of the reproduction
- physical description of the reproduction if different from the original
- series statement of the reproduction (if applicable)
- notes relating to the reproduction (if applicable)

For many PDF documents, cataloging copy is available. If copy is not available and you are able to determine that the PDF document exists also in print format, treat as a reproduction. Otherwise, catalog the PDF as a “born-digital” electronic resource.

PDF treated as a reproduction

Leader

Record Status	c : Corrected or revised
Type of Record	a : Language material
Bibliographic Level	m : Monograph/item
Type of Control	_ : No specific type of control
Encoding Level	_ : Full level
Cataloging Form	a : AACR 2
Linked Record Requirement	_ : Related record not required

007

<input type="checkbox"/> Map	<input checked="" type="checkbox"/> Electronic Resource	<input type="checkbox"/> Globe	<input type="checkbox"/> Tactile Material
Specific Material Designation	r : Remote		
Original vs. Reproduction Aspect (OBSOLETE)	_ : Undefined (OBSOLETE)		
Color	m : Mixed		
Dimension	n : Not applicable		
Sound on Medium	∅ : No attempt to code		
Image Bit Depth	∅∅∅ : No attempt to code		
File Format	∅ : No attempt to code		
Quality Assurance Target(s)	∅ : No attempt to code		
Antecedent/Source	∅ : No attempt to code		
Level of Compression	∅ : No attempt to code		
Reformatting Quality	∅ : No attempt to code		

008

Publication Status	s : Single known date/probable date
Date 1 (yyyy)	2006
Date 2 (yyyy)	_____
Place of Publication	cau : California
Illustrations 1	a : Illustrations
Illustrations 2	_ : No illustrations
Illustrations 3	_ : No illustrations
Illustrations 4	_ : No illustrations
Audience	_ : Unknown or not specified
Form of Item	s : Electronic
Contents 1	b : Bibliographies
Contents 2	_ : No specified nature of contents
Contents 3	_ : No specified nature of contents
Contents 4	_ : No specified nature of contents
Govt. Publication	_ : Not a government publication
Conf. Publication	0 : Not a conference publication
Festschrift	0 : Not a festschrift
Index	0 : No index

Variable fields

035			‡a (OCoLC)ocm74489478
040			‡a GAT ‡c GAT ‡d WAU ‡d BAKER ‡d NJP
020			‡a 1598290770
020			‡a 9781598290776
020			‡a 1598290762 (pbk.)
020			‡a 9781598290769 (pbk.)
035			‡a (OCoLC)74489478
050	4		‡a T385 ‡b .Z43 2006
049			‡a PULL
100	1		‡a Zhang, Cha.
245	1	0	‡a Light field sampling ‡h [electronic resource] / ‡c Cha Zhang and Tsuhan Chen.
250			‡a 1st ed.
260			‡a [San Rafael, Calif.] : ‡b Morgan & Claypool Publishers, ‡c c2006.
300			‡a vi, 96 p. : ‡b digital, PDF file
440		0	‡a Synthesis lectures on image, video, and multimedia processing ; ‡v #6
504			‡a Includes bibliographical references (p. 91-96).
533			‡a Electronic reproduction. ‡b San Fafael, Calif. : ‡c Morgan & Claypool Publishers, ‡d c2006. ‡n System requirements: Adobe Acrobat Reader. ‡n Mode of access: World Wide Web.
650		0	‡a Radiosity.
650		0	‡a Computer graphics.
650		0	‡a Signal processing ‡x Digital techniques.
650		0	‡a Computer vision.
700	1		‡a Chen, Tsuhan, ‡d 1965-
856	4	0	‡u http://www.morganclaypool.com/doi/abs/10.2200/S00035ED1V01Y200606IVM006
902			‡a jwl ‡b m ‡6 a ‡7 m ‡d w ‡f 0 ‡e 20071019

All electronic resources (direct and remote access) have a general material designator of **\$h [electronic resource]**.

Order of notes:

Nature and Scope (500, 516)
System Requirements (538)
Mode of Access (538)
Language and Script (546, 500)
Source of Title Proper (500)
Variations in Title (246, 500)
Parallel Titles and Other Title Information (246, 500)
Statements of Responsibility (500)
Edition and History (500)
File Characteristics (500, 538)
Publication, Distribution, Etc. (500)
Physical Description (500)
Accompanying Material (500, 556, 590)
Series (490, 500)
Dissertations (502, 500)
Audience (521)
Reference to Published Descriptions (510)

Other Formats (530)

Summary (520)

Contents (505, 504, 500)

Numbers (0XX, 500)

Copy Being Described, Library's Holdings, and Restrictions on Use (5XX, 590, 506)

"With" Notes (501, 591)

Combined Notes Relating to a Reproduction (533)

533 Electronic reproduction. ‡b San Rafael, Calif. : ‡c Morgan & Claypool Publishers, ‡d c2006. ‡n System requirements: Adobe Acrobat Reader. ‡n Mode of access: World Wide Web.

Item Described (500)

Local processing

902 field

902 for other formats (ctr+sh+i)		
	Name	Scope
0	Microfilm reel	Program
1	Microfiche	Program
2	Videocassette	Program
3	Computer disc	Program
4	Videodisc	Program
5	Electronic (ELF)	Program
6	Sound CD	Program
7	Sound cassette	Program
8	LP	Program
9	Graphic	Program
A	Archival item	Program
B	Linear feet (archival)	Program

Double Click or Press a Number or Letter

Holdings records

- All remote access electronic resources are location of **elf1** and have call number **Electronic Resource**. Do not create item records.

Tag	I1	I2	Subfield Data
852	8		‡b elf1 ‡h Electronic Resource

Born-digital PDF

If you cannot determine if the publication being cataloged exists in print, treat it as if it were available only online (i.e., “born digital”).

Leader

Record Status	c : Corrected or revised
Type of Record	a : Language material
Bibliographic Level	m : Monograph/item
Type of Control	_ : No specific type of control
Encoding Level	_ : Full level
Cataloging Form	a : AACR 2
Linked Record Requirement	_ : Related record not required

007

<input type="checkbox"/> Map	<input checked="" type="checkbox"/> Electronic Resource	<input type="checkbox"/> Globe	<input type="checkbox"/> Tactile Material
Specific Material Designation	r : Remote		
Original vs. Reproduction Aspect (OBSOLETE)	_ : Undefined (OBSOLETE)		
Color	m : Mixed		
Dimension	n : Not applicable		
Sound on Medium	∅ : No attempt to code		
Image Bit Depth	∅∅∅ : No attempt to code		
File Format	∅ : No attempt to code		
Quality Assurance Target(s)	∅ : No attempt to code		
Antecedent/Source	∅ : No attempt to code		
Level of Compression	∅ : No attempt to code		
Reformatting Quality	∅ : No attempt to code		

008

Publication Status	s : Single known date/probable date
Date 1 (yyyy)	2006
Date 2 (yyyy)	_____
Place of Publication	cau : California
Illustrations 1	a : Illustrations
Illustrations 2	_ : No illustrations
Illustrations 3	_ : No illustrations
Illustrations 4	_ : No illustrations
Audience	_ : Unknown or not specified
Form of Item	s : Electronic
Contents 1	b : Bibliographies
Contents 2	_ : No specified nature of contents
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Contents 4	_ : No specified nature of contents
Govt. Publication	_ : Not a government publication
Conf. Publication	0 : Not a conference publication
Festschrift	0 : Not a festschrift
Index	0 : No index

Variable fields

035			‡a (OCoLC)ocm74489478
040			‡a GAT ‡c GAT ‡d WAU ‡d BAKER ‡d NJP
020			‡a 1598290770
020			‡a 9781598290776
020			‡a 1598290762 (pbk.)
020			‡a 9781598290769 (pbk.)
035			‡a (OCoLC)74489478
050	4		‡a T385 ‡b .Z43 2006
049			‡a PULL
100	1		‡a Zhang, Cha.
245	1	0	‡a Light field sampling ‡h [electronic resource] / ‡c Cha Zhang and Tsuhan Chen.
250			‡a 1st ed.
260			‡a [San Rafael, Calif.] : ‡b Morgan & Claypool Publishers, ‡c c2006.
300			‡a vi, 96 p. : ‡b digital, PDF file
440	0		‡a Synthesis lectures on image, video, and multimedia processing ; ‡v #6
538			‡a Mode of access: World Wide Web.
504			‡a Includes bibliographical references (p. 91-96).
500			‡a Title from title screen (viewed on Feb. 28, 2008).
650	0		‡a Radiosity.
650	0		‡a Computer graphics.
650	0		‡a Signal processing ‡x Digital techniques.
650	0		‡a Computer vision.
700	1		‡a Chen, Tsuhan, ‡d 1965-
856	4	0	‡u http://www.morganclaypool.com/doi/abs/10.2200/S00035ED1V01Y2006061VM006
902			‡a iwl ‡b m ‡6 a ‡7 m ‡d w ‡f 0 ‡e 20071019

All electronic resources (direct and remote access) have a general material designator of **\$h [electronic resource]**.

Order of notes:

Nature and Scope (500, 516)

System Requirements (538) (list only unusual system requirements)

Mode of Access (538)

538 Mode of access: World Wide Web.

Language and Script (546, 500)

Source of Title Proper (500)

500 Title from title page (viewed on [date].)

500 Title from HTML header (viewed on [date].)

Variations in Title (246, 500)

246 1 \$i Also known as: \$a [variant title]

Parallel Titles and Other Title Information (246, 500)

Statements of Responsibility (500)

Edition and History (500)

File Characteristics (500, 538)

Publication, Distribution, Etc. (500)

Physical Description (500)

Accompanying Material (500, 556, 590)

- Series (490, 500)
- Dissertations (502, 500)
- Audience (521)
- Reference to Published Descriptions (510)
- Other Formats (530)
- Summary (520)
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- Numbers (0XX, 500)
- Copy Being Described, Library's Holdings, and Restrictions on Use (5XX, 590, 506)
- "With" Notes (501, 591)
- Combined Notes Relating to a Reproduction (533)
- Item Described (500)

Local processing

902 field

	Name	Scope
0	Microfilm reel	Program
1	Microfiche	Program
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7	Sound cassette	Program
8	LP	Program
9	Graphic	Program
A	Archival item	Program
B	Linear feet (archival)	Program

Double Click or Press a Number or Letter

Holdings records

- All remote access electronic resources are location of **elf1** and have call number **Electronic Resource**. Do not create item records.

Tag	I1	I2	Subfield Data
852	8		‡b elf1 ‡h Electronic Resource