

# Electronic Resource Cataloging in RDA



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# Scope: What Will Be Covered

- Basic differences between AACR2 and RDA
- Electronic resource-specific issues in cataloging under RDA
- MARC records cataloged under AACR2
  - Compared with...
- Same MARC records cataloged under RDA
- Full RDA examples included at the end

# AACR2 vs. RDA

## AACR2

- In two parts
  - Description (Part I)
  - Headings, references, u.t.'s (Part II)
- Format by format (e.g., Ch. 9 devoted to electronic resources)

## RDA

- Four basic parts
  - Recording attributes of... (Sections 1-4)
  - Recording primary relationships... (5)
  - Recording relationships to... (6-7)
  - Recording relationships between... (8-10)

# Core RDA Elements

- Core elements based on FRBR/FRAD (RDA 0.6)
- Attributes
  - Section 1: Manifestation/Item (Ch. 1-4; elements described in 1.3)
  - Section 2: Work/Expression (5-7; 5.3)
  - Section 3: Person, Family, Corporate Body (8-11; 8.3)
- Primary relationships
  - Section 5: Between works, expression, manifestations and items (17.3)

# Core RDA Elements (ctd.)

- Relationships to...
  - Section 6: Persons, Families, Corporate Bodies (18.3)
- Relationships between... (not considered core)
  - Sections 8-10

# Electronic Resource-Specific Issues in RDA

- Organized by “core elements”
- Section I: Manifestation/Item
  - Sources of Information (2.2)
    - Images of one or more pages, leaves, sheets, or cards (Could include JPEGs, etc.) (2.2.2b)
    - Moving images (e.g., streaming video) (2.2.2.3)
    - Other resources—embedded metadata in textual form that contains a title (2.2.2.4)

# Electronic Resource-Specific Issues in RDA (Core Elements)

- Title (Only title proper considered core) (2.3)
- Statement of responsibility (2.4)
- Edition statement (e.g., version of software) (2.5)
- Publication, distribution, manufacture statement (Place, name and date in each) (2.8-10)
- Publication date is core, so even if conjectural, it must be added (2.8.6)
- Copyright date if date of publication or distribution not identified (2.11)

# Section 1: Manifestation/Item (ctd.)

- Series statement (2.12)
- Identifier (2.15) (e.g., ISBN, publisher number, etc.)
- Describing carriers (3)
  - Media type (3.2)
    - 3.2.1.3—computer
  - Carrier type (3.3)
    - 3.3.1.3—computer card, chip cartridge, **disc (e.g., CD-ROM)**, disc cartridge, tape cartridge, tape cassette, tape reel, online resource
  - Extent (3.4)
    - Basic instructions; how to record specifics included in subsequent sections)



# Section I: Manifestation/Item (ctd.)

- Recording extent for electronic resources—some relevant guidelines (not necessarily core)
  - Dimensions (3.5)—4 <sup>3</sup>/<sub>4</sub> in. for a CD-ROM (LCPS still allow inches for discs)
  - Digital file characteristics (3.19)
    - LCPS—core for cartographic resources
    - Could include
      - File type (e.g., data file, text file, video file) (3.19.2)
      - Encoding (e.g., MP3, JPEG, PDF) (3.19.3)
      - File size (e.g., 50 MB) (3.19.4)

# Section I: Manifestation/Item (ctd.)

- Equipment/System Requirement (3.20)
- Recording these requirements (3.20.1.3)
  - Same information recorded in 538 notes in AACR2
  - Examples (examples in RDA)
    - System requirements: IBM-compatible PC with a Pentium processor or higher; 128MB of RAM; Windows 98, 2000, or XP; 11MB of available hard disk space; Windows-based word processing program
    - Requires: Macintosh: power Macintosh/Power PC, OS9.1, OSX, 32 MB RAM, 14x CDROM drive

# Section 2: Work/Expression

- Issues in electronic resources—what’s the difference between a work and expression?
- Peter’s interpretation
  - Electronic resources representing an original “work” are probably born electronic (e.g., an interactive CD-ROM)
  - If it is content being “expressed” electronically, it’s probably an expression (e.g., a PDF of a book or a score; streaming video originally on film)

# Section 2: Work/Expression

- **Core elements:**
- Preferred title (6.2.2) (e.g., 130 uniform title field—usually rare in electronic resources)
- Identifiers
  - Identifier for work (e.g., ISBN, etc.) (6.8)
  - Identifier for expression (e.g., ISBN, etc.) (6.13)

## Section 2: Work/Expression (ctd.)

- Content type (6.9)
- Could be **ANYTHING** listed on the table in 6.9.1.3, such as:
  - “Pure” electronic resources (e.g., computer dataset, computer program)
  - Non-computer-specific (e.g., cartographic image, notated music, text, two-dimensional moving image)

## Section 2: Work/Expression (ctd.)

- Content (7)
- Not necessarily core, but correlates to information electronic resource catalogers are routinely adding under AACR2:
  - Summarization (7.10) (520 field)
  - Language of the content (7.12) (546 field)
  - Sound content (7.18) (300 \$b)
  - Performer, narrator, presenter (7.23) (511 field)
  - Artistic and/or technical credit (7.24) (508 field)
- Depending on the “content type,” could include anything else described in this chapter as well

# AACR2 “Interjection”:

## Content vs. Carrier

- Currently, the “type” element for electronic resources is coded for the primary characteristics of the item
- Examples:
  - An e-book in PDF format = “a” for Books/Language Material
  - Score on a CD-ROM = “c” for Scores/Notated Music
  - Streaming video = “g” for Visual Materials/Projected Medium

# Content vs. Carrier (Ctd.)

- Electronic aspects of item are coded in an 006 field
- Type “m” for “computer file” is only coded for the following types of materials:
  - Computer software
  - Numeric data
  - Computer-oriented multimedia
  - Online systems/services



# Section 3: Person, Family, Corporate Body

- Heading construction
- Won't cover here; very similar to AACR2)  
(8-11)

## Section 5: Primary Relationships among FRBR elements

- Primary relationships among FRBR elements (standard numbers and authorized access points) (I7)
  - At minimum, record the work manifested
  - If more than one work is embodied in the manifestation, only the predominant or first-named work manifested is required
  - If more than one expression is embodied in the manifestation, only the predominant or first-named expression manifested is required

# Section 6: Persons, Families and Corporate Bodies

- Relationship between the resource and persons, families, and corporate bodies associated with resource
- Equivalent of \$4 relator codes at the end of 7xx fields in MARC (\$e used instead)
- Examples:
  - \$e author (\$4 aut)
  - \$e editor (\$4 edt)
  - (many more possible for electronic resources)

# Review: FRBR Elements and RDA

- Section 1: Manifestation & Item
  - 1: General Guidelines
  - 2: Identifying Manifestations & Items
  - 3: Describing Carriers
  - 4: Acquisition & Access (Didn't discuss)
- Section 2: Work & Expression
  - 5: General Guidelines
  - 6: Identifying Works & Expressions
  - 7: Describing Content

# Cataloging Under AACR2: Example #1 (“Pure” electronic resource)

OCLC 554862694 Held by KSU - no other holdings

Rec stat c	Entered 20100315	Replaced 20110405			
Type m	ELvl l	Srcce d	Audn	Ctrl	Lang eng
BLvl m	File i	GPub		MRec	Ctry at
Desc a			DtSt s	Dates 2010	,
007	c #b o #d c #e g				
040	KSU #c KSU #d KSU #d OCLCA				
020	9780958105859				
020	0958105855				
043	e-it---				
090	QA75.5 #b .C57 2010				
090	#b				
049	KSUU				
245 0 0	CIRN 2009 #h [electronic resource] : #b empowering communities : learning from community informatics practice / #c editors: Larry Stillman, Graeme Johanson, Tom Denison.				
246 3	Community Informatics Research Network 2009				
246 3 0	Empowering communities				
246 3 0	Learning from community informatics practice				
246 1	#i Title on caption of Conference program PDF file: #a Prato CIRN Community Informatics Conference 2009				
260	[Melbourne, Australia] : #b Caulfield School of IT, Monash University, #c 2010.				
300	1 CD-ROM : #b col. ; #c 4/34 in.				

- 538 To use this CD-ROM, open the index.htm file with the browser, and click on the following link: index.html. If a warning about ActiveX controls appears, allow the content.
- 500 Title from title screen.
- 520 Conference proceedings of the CIRN 2009 conference on learning from community informatics practices, held November 4-6, 2009, Monash University, Prato Centre, Italy. Includes all the papers submitted for inclusion at the proceedings in PDF format, as well as videos of the keynote address by Aldo de Moor and the COST workshop.
- 611 2 0 CIRN 2009 #d (2009 : #c Prato, Italy) #v Interactive multimedia.
- 610 2 0 Community Informatics Research Network #v Congresses #v Interactive multimedia.
- 650 0 Computer science #v Congresses #v Interactive multimedia.
- 650 0 Communities #v Congresses #v Interactive multimedia.
- 650 0 Congresses and conventions #z Italy #z Prato #v Interactive multimedia.
- 700 1 Stillman, Larry. #c Dr. #4 ed
- 700 1 Johanson, Graeme. #4 ed
- 700 1 Denison, Tom. #4 ed
- 710 2 Caulfield School of IT.
- 856 4 2 #u http://www.ccnr.net/pratoconf2009/index.html #z Internet address for accessing the same conference proceedings in PDF format. Excludes audiovisual content

# Example #1: Identifier

020 9780958105859

020 0958105855

**Core Element**—this is both the 10- and 13-digit ISBN for the item (2.15)

# Example #1: Title, Statement of Responsibility, New 3xx Fields

~~245 0 0 CIRN 2009 #h [electronic resource] : #b empowering communities : learning from community informatics practice / #c editors: Larry Stillman, Graeme Johanson, Tom Denison.  
246 3 Community Informatics Research Network 2009  
246 3 0 Empowering communities  
246 3 0 Learning from community informatics practice  
246 1 #l Title on caption of Conference program PDF file: #a Prato CIRN Community Informatics Conference 2009~~

?

## Core Elements

- Title (Source is title frames) (2.3)
- Other title information is not core, but optional (given in 2.2.3-10)
- GMD replaced by:
  - 336 computer dataset \$2 rdacontent (6.9)
  - 337 computer \$2 rdamedia (3.2)
  - 338 computer disc \$2 rdacarrier (3.3)
- Statement of Responsibility (2.4)
  - Very basic instructions; examples here given as in AACR2 (e.g., editors, corporate bodies, etc.)
  - References 7.23 and 7.24, which are for giving access to performers, narrators and presenters; and persons contributing to the artistic and technical production (respectively)



# Example #1: Publisher/Distributor; Extent

260 [Melbourne, Australia] : #b Caulfield School of IT, Monash University, #c 2010.  
300 1 CD-ROM : #b col. #c 4/34 in.

Spell out

Could give in metric, but in. still ok

## Core Elements

- Publisher/Distributor/Manufacturer/Copyright (2.8-11)
- Extent (3.4); sound and color designations per 7.17.3 and 7.18; dimensions in metric per 3.5 (LCPS authorizes still authorize inches)
- Under RDA, look like:

260 [Melbourne, Australia] : \$b Caulfield School of IT, Monash University,  
\$c 2010.

300 1 CD-ROM : \$b color ; \$c 4 3/4 in.

**Note**—Section 1: Manifestation/Item; and, Section 2: Work/Expression elements are intermingled throughout these fields

# Example #1: AACR2 Notes vs. Various RDA/FRBR Elements

- 538 To use this CD-ROM, open the index.htm file with the browser, and click on the following link: index.html. If a warning about ActiveX controls appears, allow the content.
- 500 ~~Title from title screen.~~ ?
- 520 Conference proceedings of the CIRN 2009 conference on learning from community informatics practices, held November 4-6, 2009, Monash University, Prato Centre, Italy. Includes all the papers submitted for inclusion at the proceedings in PDF format, as well as videos of the keynote address by Aldo de Moor and the COST workshop.

## **Not necessarily core in RDA, but consistently given as notes in AACR2**

- 538 (3.19)—Digital file characteristic (I think whole section applies, but appendix D doesn't point to it (?))
- 500 (2.2.2.4)—Title taken from title screen (note maybe not necessary in RDA (?))
- 520 (7.10)—Summarization note.

# Example #1: Heading Construction and Relationships

700 1 Stillman, Larry. †c Dr. †4 edt  
700 1 Johanson, Graeme. †4 edt  
700 1 Denison, Tom. †4 edt  
710 2 Caulfield School of IT.

In RDA:

- Section 3 describes *how* to construct headings
- Section 6 describes how to record *relationships*, similar to \$4 relator codes
- Called **relationship designators** in RDA (see Chapter 18, and then Appendix I for codes):

700 1 Stillman, Larry, \$c Dr., \$e editor  
700 1 Johanson, Graeme, \$e editor  
700 1 Denison, Tom, \$e editor  
710 2 Caulfield School of IT, \$e production company

**Designators divided among FRBR elements in Appendix I (Work, Expression, Manifestation, Item)**

# Example #1: Heading Construction and Relationships (Ctd.)

856 4 2 #u <http://www.ccnr.net/pratoconf2009/index.html> #z Internet address for accessing the same conference proceedings in PDF format. Excludes audiovisual content

In RDA:

4.6—Instructions for recording URL for resource itself  
(Chapter 4—Acquisition/Access Information)

27.1—Recording related manifestations (**the case here:  
proceedings in PDF form**)

# Cataloging Under AACR2: Example #2 (“Video” in electronic form (e.g., “streaming video”))

OCLC 297279198 No holdings in KSU - 3 other holdings

Rec stat c	Entered 20090107		Replaced 20090531		
Type g	ELvl l	Srcce d	Audn	Ctrl	Lang eng
BLvl m	Form	GPub	Time ---	MRec	Ctry xxu
Desc a	TMat v	Tech l	DtSt s	Dates 2007 ,	

006 m c  
 007 v #b z #d c #e z #h z  
 007 c #b o #d c #e g  
 040 KSU #c KSU #d WAU  
 090 #b  
 049 KSUU  
 100 1 Balanoff, Amy M.  
 245 1 0 Osteological description of an embryonic skeleton of the extinct elephant bird, Aepyornis #h [electronic resource] / #c Amy M. Balanoff and Timothy Rowe.  
 260 [S.l.] : #b Society of Vertebrate Paleontology, #c c2007.  
 300 1 CD-ROM ; #c 4 3/4 in.  
 490 1 Society of Vertebrate Paleontology. Memoir ; #v 9  
 500 Compilation of streaming video recordings.  
 500 Title from disc surface.  
 500 Accompanies: Journal of vertebrate paleontology, v. 27, no. 4 (Dec. 2007).  
 520 Streaming video images of an embryonic skeleton of the extinct elephant bird, Aepyornis. Includes both coarse- and high-resolution images that slice through the entire egg; specific images of cranial, mandible, and postcranial bones; and also unidentified images.

- 650 0 Aepyornis †x Embryos †x Anatomy.  
650 0 Aepyornis †x Physiology.  
650 0 Extinct birds †x Embryos †x Anatomy.  
650 0 Extinct birds †x Physiology.  
650 0 Ratites †x Embryos †x Anatomy.  
650 0 Ratites †x Physiology.  
700 1 Rowe, Timothy, †d 1953-  
710 2 Society of Vertebrate Paleontology.  
730 0 Journal of vertebrate paleontology. †n Vol. 27, no. 4 (Supplement)  
830 0 Memoir (Society of Vertebrate Paleontology) ; †v 9.

# Cataloging under RDA: Example #2

245 1 0 Osteological description of an embryonic skeleton of the extinct elephant bird, Aepyornis #i ~~[electronic resource]~~ /  
#c Amy M. Balanoff and Timothy Rowe.  
260 [~~S.l.~~] : #b Society of Vertebrate Paleontology, #c c2007 ← Needs publication date  
300 1 CD-ROM ; #c 4 3/4 in.

- GMD replaced by:

- 336 two-dimensional moving image \$2 rdacontent (6.9)
- 337 video \$2 rdamedia (3.2)
- 338 computer disc \$2 rdacarrier (3.3)

260 [Place of publication not identified] : \$b Society of Vertebrate  
Paleontology, \$c [2007], c2007. (2.8, 2.11)

# Cataloging under RDA: Example #2

490 1 Society of Vertebrate Paleontology. Memoir ; #v 9  
500 Compilation of streaming video recordings.  
500 Title from disc surface.  
500 Accompanies: *Journal of vertebrate paleontology*, v. 27, no. 4 (Dec. 2007).  
520 Streaming video images of an embryonic skeleton of the extinct elephant bird, *Aepyornis*. Includes both coarse- and high-resolution images that slice through the entire egg; specific images of cranial, mandible, and postcranial bones; and also unidentified images.

- 490—Series (2.12)
- 500—Summarization? Maybe not necessary (7.10)
- 500—Source of title proper (video, not from title screens) (2.20)
- 500—Accompanying material—Related manifestation? (27.1)
- 520—Summarization (7.10)



# Cataloging under RDA: Example #2

100 1 Balanoff, Amy M.

700 1 Rowe, Timothy, #d 1953-

710 2 Society of Vertebrate Paleontology.

730 0 Journal of vertebrate paleontology. #n Vol. 27, no. 4 (Supplement)

830 0 Memoir (Society of Vertebrate Paleontology) ; #v 9.

## How relationships would look in RDA (per Ch. 18 & Appendix I):

100 1 Balanoff, Amy M., \$e author.

700 1 Rowe, Timothy, \$e author.

710 2 Society of Vertebrate Paleontology, \$e author. (?)

730—Related manifestation (27.1)

830—Preferred title/Related work (6.2.2; 25.1 ?)

# Full RDA Cataloging: SLIS Test

OCLC 694574500 Held by GSLIS/IR - 21 other holdings; 38 other IRs

Rec stat	Entered 20101230		Replaced 20101230		
Type g	ELvl K	Srce d	Audn	Ctrl	Lang eng
BLvl m	Form o	GPub	Time 037	MRec	Ctry mdu
Desc i	TMat v	Tech l	DtSt s	Dates 2009 ,	

006 m c

007 v #b z #d c #e z #f a #g z #h u #i u

007 c #b r #d c #e n #f a

040 OCLCQ #b eng #e rda #c GSLIS #d GSLIS

079 ocn664732061

049 MAIN

245 0 0 Acupuncture and cancer pain / #c Dr. Ruixin Zhang, Center for Integrative Medicine, University of Maryland School of Medicine.

260 [College Park, Md.] : #b Dr. Ruixin Zhang, Center for Integrative Medicine, University of Maryland School of Medicine, #c 2009.

300 1 streaming video file (36 min., 4 sec.) : #b digital, RAM file, color, sound.

336 two-dimensional moving image #2 rdacontent

337 video #2 rdamedia

338 online resource #2 rdacarrier

490 1 NCI OCCAM monthly lecture series ; #v October 14, 2009

# Full RDA Cataloging: SLIS Test (Ctd.)

511 0 Dr. Ruixin Zhang, lecturer.  
500 "6130 Executive Blvd"--Title frames.  
520 Documentary on how acupuncture can be used to relieve cancer pain.  
546 Includes subtitles in English.  
700 1 Zhang, Ruixin, †e on-screen presenter.  
710 2 University System of Maryland. †b College of Medicine, †e production company.  
791 2 GSLIS8.  
830 0 NCI OCCAM monthly lecture series ; †v October 14, 2009.  
856 4 0 †u <http://videocast.nih.gov/launch.asp?15390> †z Connect to resource

# Results from OLAC/MLA RDA Test

- Issues relating to the construction of access points  
([http://www.olacinc.org/drupal/capc\\_files/MLA-OLAC\\_RDAtest1.pdf](http://www.olacinc.org/drupal/capc_files/MLA-OLAC_RDAtest1.pdf))
- Other unresolved issues  
([http://www.olacinc.org/drupal/capc\\_files/MLA-OLAC\\_RDAtest2.pdf](http://www.olacinc.org/drupal/capc_files/MLA-OLAC_RDAtest2.pdf))
- Resolved issues  
([http://www.olacinc.org/drupal/capc\\_files/MLA-OLAC\\_RDAtest3.pdf](http://www.olacinc.org/drupal/capc_files/MLA-OLAC_RDAtest3.pdf))

# Unresolved Issues (Electronic Resources)

- Video games treated like “moving images”
- RDA doesn't address computer multimedia
- Lack of definitions for “encoding format”
- “Computer” as media type
  - Doesn't work either descriptively or grammatically—you can say something is “audio,” “video,” “projected,” etc., but you can't say something is “computer”
  - Group suggested changing the term to “electronic” or “digital”

# Unresolved Issues (General)

- MARC tagging coincides well with AACR2 rules
- In RDA, nothing maps out well to MARC; guidelines pertain to elements currently entered throughout the entire bibliographic record
- FRBR elements do not yet map well to MARC
- More standardization is needed

# RDA—Electronic Resources in OCLC

- Achieved by doing a basic search in OCLC:
  - `dx:rda mt:com yr:2009-` (not qualifying by DLC brings more results)
- Qualifying by LC seems to bring mostly continuing resources as examples
- Won't include examples here because the results are very inconsistent (in terms of searching and content)



**QUESTIONS?**



# Thank you!



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