Report of Multiple Format Linking Group

April 2011

The Multiple Format Linking Group was charged by CONSER with reviewing the issues regarding multiple format linking that were raised on the CONSERLST, proposing a recommended practice for linking records, and identifying the places in CEG and CCM that need to be updated.

Part I Issues and Recommendations

Current State of Practice/Issues

The existence of continuing resources (CR) in multiple formats is a widespread, persistent feature of the bibliographical environment in which CONSER catalogers operate. Current practice for recording a format change is to close off the older (usually print) format, create a new record for the newer (usually digital) format, and to link the two records using reciprocal 785 and 780 fields, often in addition to 776 linking fields.

While this practice facilitates navigation from one record to another, it does not adequately reflect the complex and dynamic nature of the current bibliographic environment. Several issues have been identified:

1. It is not always clear at the point of cataloging that the appearance of a serial in a new format means the serial will no longer be issued in its older format. For example: a serial historically issued in print, but now available on CD-ROM, may in fact continue to be issued in print.

Because CONSER cataloging takes place in a distributed environment, a format change can appear to one cataloging agency as a one-time event in the title's history but may appear to another, with a different subscription or license to the same product, as the ongoing complexity of a single title issued in two (or more) physical or digital formats.

Moreover, publishers and providers often retrospectively digitize back issues, making volumes originally issued in print available in electronic format. In these circumstances treating a change in format as a "title change" has the potential to mislead, or confuse users as well as catalogers.
2. In the absence of uniform titles with the qualifier “Online”, users may run across records that say, in effect: “Title A ceased; continued by: Title A” or “Title A continues Title A.” This is obviously confusing to users. Previous to the adoption of CSR guidelines, this problem was managed, almost accidentally, by using the uniform title as the target for the 785 or 780 field: "Title A ceased; continued by Title A (Online)" or “Title A (Online) continues Title A.”

3. Conceptually, the use of "former" and "subsequent title" fields to record and express changes to a serial that occur on the level of format/manifestation is a step away from the FRBR conceptual model, and presumably conflicts with RDA. Although correlations between FRBR entities and CONSER practice are not yet fully developed, it seems reasonable to assume that the serials-based concept of a "title change" is, in the FRBR idiom, a "Work-to-Work relationship", while a change in format only is a "Manifestation-to-Manifestation relationship".

**Recommendations**

The use of "Succeeding" and "Former Entry" (780/785) references to establish reciprocal links between records in different formats should be limited to situations in which format change is actually accompanied by a change in the title. For other situations, the use of additional physical form entry (776) is recommended.

A summary of specific recommendations:

1. Use **776 fields to link records of the same title issued in various formats.**

2. Use **780/785 fields only when a title change accompanies a format change.**

3. Use **776 $i** to record the format of the record being referenced and to explain relationships between different formats of a title, (although 580 field remains an option to describe a complex situation). For example, if a print title ceases, but the online version continues, the cataloger may note this relationship as “Continued online” or “Print version, -2008” on its respective record.

**Discussion**
When considering what field is most appropriate for recording relationships among various formats of the same title, the group examined both the formal MARC definitions of the fields as well as the way these fields are commonly used in systems that participate in the CONSER network. MARC field 787, while defined in such a way that it could be used to express complex relationships such as "title as continued in another format", is not typically used for this. Instead, 787 fields are used in conjunction with 580 fields to express a variety of relationships among titles (irrespective of format). Moreover, the use of a non-specific field such as 787 was viewed as unnecessary when a method of indicating format changes is already in use in the 776.

The 776 field was identified as the most appropriate place to record the appearance of the same title in a new format. If, however, a title undergoes a major change at the same time when the format changes, then records for the former and subsequent titles need to be linked by 78X fields to provide users with access to the entire history of the publication. In these situations, if the former title existed in multiple formats, then the record for each format would include a 776 link (to the other format) and a 785 to the new title.

**Part II Examples**

**Type 1: Title change and format change**

**Ex. 1**  The Japan Foundation newsletter

245: 04: $a The Japan Foundation newsletter.
776: 08: $i Online version: $t Japan Foundation newsletter $x 0385-2318 $w (OCoLC)626408149
785: 04: $a Kokusai Kōryū Kikin. $t Japan Foundation email magazine $w (DLC)2010254029 $w (OCoLC)665072395

245: 04: $a The Japan Foundation newsletter $h [electronic resource].
776: 08: $i Print version: $t Japan Foundation newsletter $w (OCoLC)4102509
785: 04: $a Kokusai Kōryū Kikin. $t Japan Foundation email magazine $w (DLC)2010254029 $w (OCoLC)665072395

245: 14: The Japan Foundation email magazine $h [electronic resource].
Absorbed the print and online formats of The Japan Foundation newsletter.

Kokusai Kōryū Kikin. What's new mail service (DLC) 2010254030 (OCoLC)665072119
Japan Foundation newsletter (OCoLC)626408149
Japan Foundation newsletter (OCoLC)4102509

Notes: Print and online formats absorbed/continued simultaneously by Japan Foundation email magazine.

Ex. 2 Status of multilateral arms regulation and disarmament agreements

Status of multilateral arms regulation and disarmament agreements / Department of Political and Security Council Affairs, United Nations Centre for Disarmament.

Online version: Status of multilateral arms regulation and disarmament agreements (OCoLC)607165860
UNODA treaties database (OCoLC)711901652

Note: Print version succeeded by online version with a different title. There is also a digitized copy (Google Books) of the print.

Type 2: Format change only (no accompanying title change)

Type 2.1 Print ceased; continued online

Ex. 3 #1242732 Bulletin of the atomic scientists (0096-3402).

Bulletin of the atomic scientists.
Vol. 1, no. 7 (Mar. 15, 1946)-
Ceased in print with v. 64, issue 5 (Nov./Dec. 2008).
Continued online: Bulletin of the atomic scientists x 1938-3282

(DLC) 2006238205 $w (OCoLC) 37476498

#37476498 Bulletin of the atomic scientists (1938-3282)

245: 00: $a Bulletin of the atomic scientists $h [electronic resource].
362: 0: $a Vol. 1, no. 7 (Mar. 15, 1946)-
776: 08: $i Print version, -2008: $t Bulletin of the atomic scientists $x 0096-3402 $w (DLC) 48034039 $w (OCoLC)1242732

Note: Print version ceased; online version continues.

Ex. 4 #59671977 World unmanned aerial vehicle systems

245: 00: $a World unmanned aerial vehicle systems : $b market profile and forecast.
362: 1 : $a 2003-
776: 08: $i CD-ROM version: $t World unmanned aerial vehicle systems $w (DLC) 2011242216 $w (OCoLC) 706505071

#706505071 World unmanned aerial vehicle systems (on CD-ROM)

245: 00: $a World unmanned aerial vehicle systems $h [electronic resource] : $b market profile and forecast.
300: : $a CD-ROMs : $b ill. ; $c 4 3/4 in.
588: : $a Description based on: 2011; title from PDF t.p.
776: 08: $i Print version: $t World unmanned aerial vehicle systems $w (OCoLC) 59671977

Note: Print format changed to CD-ROM. However, dates when the print ceased or when the CD-ROM began are unknown.

Ex. 5 Transactions of the American Ophthalmological Society

245: 10: $a Transactions of the American Ophthalmological Society annual meeting.
362: 0 : $a v. 1- 1864-
776: 08: $i Online version: $a American Ophthalmological Society $t Transactions of the American Ophthalmological Society annual meeting $x 1545-6110
Note: Print version ceased; online version continues.

Type 2.2 Print ceased; format changed to electronic versions (online and CD-ROM) with same title

Ex. 6 Highlights in space, print version

245: 00: $a Highlights in space : $b progress in space science, technology and applications / $c Department of Political Affairs, Office for Outer Space Affairs.
362: 0 : 1991-
776: 08: $i Continued on CD-ROM: $a Highlights in space $w (DLC) 2010242006 $w (DLC)416522480
776: 08: $i Continued online: $a Highlights in space $w (DLC) 2011242211 $w (OCoLC)713874625

#416522480, Highlights in space, CD-ROM version

245: 00: $a Highlights in space $h [electronic resource].
776: 08: $i Print version, -2007: $a Highlights in space $w (DLC) 95645086 $w (OCoLC)28162762
776: 08: $i Online version: $a Highlights in space $w (DLC) 2011242211 $w (OCoLC)713874625

#713874625, Highlights in space, online version

245: 00: $a Highlights in space $h [electronic resource].
588: : $a Description based on: 2006; title from PDF t.p. (retrieved from publisher's website Apr. 21, 2011).
776: 08: $i Print version, -2007: $a Highlights in space $w (DLC) 95645086 $w (OCoLC)28162762
776: 08: $i CD-ROM version, 2008-: $a Highlights in space $w (DLC) 2010242006 $w (OCoLC)416522480

Ex. 7 #7083249 Who's who of southern Africa, print version

245: 00: $a Who's who of southern Africa.
362: 0: $a 43rd (1959)-
362: 1: $a Ceased with 2006?
776: 08: $i Online version: $t Who's who of southern Africa $w (OCoLC)609842807
776: 08: $i Continued on CD-ROM: $t Who's who of southern Africa $w (DLC) 2009236539 $w (OCoLC)399677672
776: 08: $i Continued online: $t Who's who of southern Africa $w (OCoLC)159933920

#609842807 Who's who of southern Africa, Google Books version

245: 00: $a Who's who of southern Africa $h [electronic resource].
362: 0: $a 43rd (1959)-
362: 1: $a Ceased with 2006?
588: : $a Description based on print version record.
776: 08: $i Print version: $t Who's who of southern Africa $x 0083-9876 $w (DLC) 15010690 $w (OCoLC) 7083249

#399677672 Who's who of southern Africa, CD-ROM version

245: 00: $a Who's who of southern Africa $h [electronic resource].
588: : $a Description based on 2008; title from disc label.
776: 08: $i Print version, 1959-2006: $t Who's who of southern Africa $x 0083-9876 $w (DLC) 15010690 $w (OCoLC) 7083249
776: 08: $i Online version: $t Who's who of southern Africa $w (OCoLC)159933920

#159933920 Who's who of southern Africa, Web integrating resource

245: 00: $a Who's who of southern Africa $h [electronic resource].
588: : $a Description based on July 30, 2007 viewing; title from HTML header.
776: 08: $i Print version, 1959-2006: $t Who's who of southern Africa $x 0083-9876 $w (DLC) 15010690 $w (OCoLC) 7083249
Note: This has the print, the CD, and then two records for the online, which cannot be collapsed: the Google Books/Hathi Trust digital reproduction of the original print; and an online Web database, cataloged as an IR. Perhaps there is a need for a uniform title on the second online version.

Ex. 8  #33198870  California. Public Employees' Retirement System. Comprehensive annual financial report, print version

110:  1:  $a California. $b Public Employees' Retirement System.
362:  0:  $a June 30, 1994-
776:  08:  $i Continued online: $a California. Public Employees' Retirement System. $t Comprehensive annual financial report $w (OCoLC)679378412
776:  08:  $i Continued on CD-ROM: $a California. Public Employees' Retirement System. $t Comprehensive annual financial report


110:  1:  $a California. $b Public Employees' Retirement System.
776:  08:  $i Print version, -2008: $a California. Public Employees' Retirement System. $t Comprehensive annual financial report $w (OCoLC)33198870
776:  08:  $i CD-ROM version: $a California. Public Employees' Retirement System. $t Comprehensive annual financial report

Note: there is no record for the CD-ROM, but it is known to exist.

Ex. 9  #52850946  Relatório de estabilidade financeira, print version

245:  00:  $a Relatório de estabilidade financeira.
776:  08:  $i Online version: $t Relatório de estabilidade financeira $w (OCoLC)433096700
776:  08:  $i Continued on CD-ROM: $t Relatório de estabilidade financeira $x 2176-8110 $w (OCoLC)696629351

#696629351  Relatório de estabilidade financeira, CD-ROM version
Part III  Proposed changes in CEG and CCM

1. CEG, Links, p. 3:
"When a serial record has multiple linking relationships to a single record, the multiple relationships are described in a 580 note and only one linking entry field is input to represent the primary relationship."

Current version:
245 10 LITA newsletter.
362 0# No. 1 (winter 1980)-v. 18, no. 4 (fall 1997).
580 ## Issues for spring 1995-fall 1997 also available online; later issues only available online.
785 10 Library and Information Technology Association (U.S.). $t LITA newsletter (Online) $x 1079-123X $w (DLC)sn 94004077 $w (OCoLC)31406418

Recommended:

a. Add something to the effect of “However, 776 $i is preferred to record the format of the record being referenced.”

b. Edit current example to show proposed use of 776 $i:
245 10 LITA newsletter.
362 0# No. 1 (winter 1980)-v. 18, no. 4 (fall 1997).
776 08 $i Continued online: $a Library and Information Technology Association (U.S.). $t LITA newsletter (Online) $x 1079-123X $w (DLC)sn 94004077 $w (OCoLC)31406418
c. Add new example below to illustrate use of 580:
   110 2 $a Kokusai Kōryū Kikin.
   245 14 $a The Japan Foundation email magazine ≠h [electronic resource].
   362 1 $a Began with v. 1 (Oct. 1, 2004).
   580 $a Absorbed the print and online formats of The Japan Foundation newsletter.
   780 00 $a Kokusai Kōryū Kikin. $t What's new mail service $w (DLC) 2010254030 $w (OCoLC)665072119
   780 15 $t Japan Foundation newsletter $w (OCoLC)4102509
   780 15 $t Japan Foundation newsletter $w (OCoLC)665072119

2. **CCM, 5.2.4. Change of physical medium:**
   “A uniform title is given to express a *change in physical medium* when a serial changes from one physical medium to another and a new record is required (see also Module 16). Qualify the uniform title by the specific material designation (e.g., microfiche, microfilm) rather than the general material designation (e.g., microform).”

   **Recommend** adding something like this, “An additional physical form entry (776) should be used to link records of the same title that describe different formats.”

**Current version:**
245 00 $a Michigan documents.
362 1# $a Ceased in 1978.
785 00 $t Michigan documents (Microfiche)
130 0# $a Michigan documents (Microfiche)
245 10 $a Michigan documents $h [microform].
362 1# $a Began with: 1978.
580 ## $a Continues a paper format publication with the same title.
780 10 $t Michigan documents

**Recommended:**
245 00 $a Michigan documents.
362 1# $a Ceased in 1978.
776 08 $i Continued on microfiche: $t Michigan documents (Microfiche)
130 0# $a Michigan documents (Microfiche)
245 10 $a Michigan documents $h [microform].
362 1# $a Began with: 1978.
776 08 $i Print version: $t Michigan documents
3. **CCM, 16.4.1. Physical medium:**

Section "a. Major changes" includes three examples, one print to CD-ROM and two print to online. While these do not explicitly show the linking fields, all of the connections between the different formats are described as "continued by".
Current version:
130 0# $a Serials directory (Birmingham, Ala.)
245 14 $a The serials directory : $b an international reference book.
continued by:
130 0# $a Serials directory (Birmingham, Ala. : CD-ROM ed.)

Recommended:
130 0# $a Serials directory (Birmingham, Ala.)
245 14 $a The serials directory : $b an international reference book.
776 08 $i Continued on CD-ROM: $t Serials directory (Birmingham, Ala. : CD-ROM ed.)
Continuing format:
130 0# $a Serials directory (Birmingham, Ala. : CD-ROM ed.)
776 08 $i Print version: $t Serials directory (Birmingham, Ala.)

Current version:
245 00 $a WoceNotes.
continued by:
130 0# $a WoceNotes (Online)
245 10 $a WoceNotes $h [electronic resource].

Recommended:
245 00 $a WoceNotes.
776 08 $i Online version: $t WoceNotes
additional format:
130 0# $a WoceNotes (Online)
245 10 $a WoceNotes $h [electronic resource].
776 08 $i Print version: $t WoceNotes

Current version:
110 2# $a California Academy of Sciences. $b Library.
245 10 $a Selected new acquisitions / $c California Academy of Sciences, Library.
continued by:
110 2# $a California Academy of Sciences. $b Library.
240 10 $a Selected new acquisitions (Online)
245 10 $a Selected new acquisitions $h [electronic resource] / $c California Academy of Sciences Library.
Recommended:
110 2# $a California Academy of Sciences. $b Library.
245 10 $a Selected new acquisitions / $c California Academy of Sciences, Library.
776 08 $i Continued online: $a California Academy of Sciences. Library. $s Selected new acquisitions (California Academy of Sciences. Library : Online). $t Selected new acquisitions

Continuing format:
110 2# $a California Academy of Sciences. $b Library.
240 10 $a Selected new acquisitions (California Academy of Sciences. Library: Online)
245 10 $a Selected new acquisitions $h [electronic resource] / $c California Academy of Sciences Library.
776 08 $i Print version: $a Californian Academy of Science. Library. $t Selected new acquisitions

4. **CCM, 30.18. Changes that require the creation of new records:**

**Recommend** editing the paragraph to: “... the print publication is discontinued and then published in electronic format, requires the creation of a separate [taking out “successive entry”] record (see also CCM 30.5). ”Close out “ the earlier title and create a new record for the title in the new format, using additional physical form entry to link the records if there is no title change that accompanies the format change. If the format change is accompanied with a title change, use successive and later entries to provide linking fields.”

Add an example of a format change with a title change.

**Current version:**
Earlier print title
245 00 $a Index translationum = $b Repertoire international des traductions = International bibliography of translations.
362 1# $a Ceased with v. 39 in 1989.
580 ## $a Continued in 1994 as: Index translationum (CD-ROM).
785 10 $t Index translationum (CD-ROM) $w (DLC) 95660578 $w (OCoLC)32027032
Later CD-ROM title:
130 0# $a Index translationum (CD-ROM)
245 10 $a Index translationum $h [electronic resource].
580 ## $a Continues a periodical with the same title issued in print.
780 10 $t Index translationum $x 0073-6074 $w (DLC) 50012446 $w (OCoLC)2433763

**Recommended:**
*Earlier print title*
245 00 $a Index translationum = $b Repertoire international des traductions = International bibliography of translations.
362 1# $a Ceased with v. 39 in 1989.
Continued on CD-ROM in 1994: $t Index translationum (CD-ROM) $w (DLC) 95660578
$w (OCoLC)32027032

Later CD-ROM title:
130 0# $a Index translationum (CD-ROM)
245 10 $a Index translationum $h [electronic resource].
776 08 $i Print version: $t Index translationum $x 0073-6074 $w (DLC) 50012446 $w (OCoLC)2433763

5. CCM, 31.5. Uniform titles:
Example 4. “It was formerly published in print (or other physical format such as CD-ROM) and changed to online:”

Current version:
130 0# $a Iowa farm statistics for ... (Online)
245 10 $a Iowa farm statistics for ... $h [electronic resource].
780 00 $t Iowa farm statistics for ...

Recommended:
130 0# $a Iowa farm statistics for ... (Online)
245 10 $a Iowa farm statistics for ... $h [electronic resource].
776 08 $i Print version: $t Iowa farm statistics for ...

6. CCM, 31.16.1. Multiple linking relationships:
The example, LITA newsletter (again) is used to show a case of print, to print and online, to online only. Each record has both a 776 and a 780/785 link to the other format.
The current example does not match the intention of the paragraph which seems to describe the legitimate use of 580.

Recommend adding something like this “Additional physical form entry (776) should be used to link records of the same title that describe different formats.”

Current version:

Record for the print version:
110 2# $a Library and Information Technology Association (U.S.)
245 10 $a LITA newsletter.
362 0# $a No. 1 (winter 1980)-v. 18, no. 4 (fall 1997).
776 08 $i Online version spring 1995-fall 1997: $a Library and Information Technology Association (U.S.). $t LITA newsletter (Online) $x 1079-123X $w (DLC)sn 94004077 $w (OCoLC)31406418
785 00 $a Library and Information Technology Association (U.S.). $t LITA newsletter (Online) $x 1079-123X $w (DLC)sn 94004077 $w (OCoLC)31406418

Record for the online version:
110 2# $a Library and Information Technology Association (U.S.)
240 10 $a LITA newsletter (Online)
245 10 $a LITA newsletter $h [electronic resource].
500 ## $a Description based on: Vol. 16, no. 2 (spring 1995); title from journal home page (LITA home page, viewed Jan. 13, 1999).
776 08 $i Print version: $a Library and Information Technology Association (U.S.). $t LITA newsletter (Online) $x 1079-123X $w (DLC)sn 94004077 $w (OCoLC)31406418 [Error: linking to online instead of print as intended]
780 00 $a Library and Information Technology Association (U.S.). $t LITA newsletter $x 0196-1799 $w (DLC) 84647365 $w (OCoLC)5757570

Recommended:
Record for the print version:
110 2# $a Library and Information Technology Association (U.S.)
240 10 $a LITA newsletter.
362 0# $a No. 1 (winter 1980)-v. 18, no. 4 (fall 1997).
776 08 $i Continued online: $a Library and Information Technology Association (U.S.). $t LITA newsletter (Online) $x 1079-123X $w (DLC)sn 94004077 $w (OCoLC)31406418

Record for the online version:
110 2# $a Library and Information Technology Association (U.S.)
240 10 $a LITA newsletter (Online)
245 10 $a LITA newsletter $h [electronic resource].
500 ## $a Description based on: Vol. 16, no. 2 (spring 1995); title from journal home page (LITA home page, viewed Jan. 13, 1999).
776 08 $i Print version: $a Library and Information Technology Association (U.S.). $t LITA newsletter $x 0196-1799 $w (DLC) 84647365 $w (OCoLC)5757570

7. CCM, 32.2.1.c. Cataloging original microforms, Description, Uniform title:
The example shows a microfiche record that continues a print record with the same title, with the link coded as 780.

Current version:
130 0# $a Bibliograf til Norges historie (Microfiche)
245 10 $a Bibliograf til Norges historie $h [microform] / $c utarbeidet ved Universitetsbiblioteket I Oslo.
580 ## $a Continues a publication with the same title issued in paper format.
780 00 $t Bibliograf til Norges historie $w (OCoLC)1519728 $w (DLC) 36020800

Recommended:
130 0# $a Bibliograf til Norges historie (Microfiche)
245 10 $a Bibliograf til Norges historie $h [microform] / $c utarbeidet ved Universitetsbiblioteket I Oslo.
776 08 $i Continues print version: $t Bibliograf til Norges historie $w (DLC) 36020800
8. **CCM, 32.2.1 Fig. 32.2. Original microform, change of format:**

The example is of a microform record linked to a print record with the same title, using a 780 field.

**Current version:**

[Partial record]

Type: a ELvl: Srce: d GPub: f Ctrl: Lang: eng
BLvl: s Form: b Conf: 0 Freq: f MRec: Ctry: dcu
S/L: 0 Orig: b EntW: c Regl: r ISSN: 1 Alph: a
010 ## $a 94-640693
007 $a h $b e $d b $e m $f u --- $g b $h u $i c $j u
022 ## $a 0163-7363
042 ## $a lc $a nsdp
043 ## $a n-us ---
050 00 $a Microfiche (o) 94/4567
110 2# $a Library of Congress. $b Copyright Office.
222 #0 $a Catalog of copyright entries. Fourth series. Part 8. Renewals
240 10 $a Catalog of copyright entries, fourth series. $n Part 8, $p Renewals (Microfiche)
245 10 $a Catalog of copyright entries, fourth series. $n Part 8, $p Renewals $h [microform].
246 30 $a Renewals
of Docs., U.S. G.P.O., $c 1983-
300 ## $a microfiches : $b negative
310 ## $a Semiannual
362 0# $a Vol. 2, no. 1 (Jan. through June 1979)-
362 1# $a Ceased with v. 5, no. 2 (July-Dec. 1982).
500 ## $a Title from eye-readable header.
580 ## $a Continues a paper format publication of the same title.
650 #0 $a Copyright $z United States $v Catalogs $v Periodicals.
780 10 $a Library of Congress. Copyright Office. $t Catalog of copyright entries, fourth series.
Part 8, Renewals $x 0163-7363 $w (DLC) 79640907 $w (OCO LC)5435925

**Recommended:**

...

500 ## $a Title from eye-readable header.
650 #0 $a Copyright $z United States $v Catalogs $v Periodicals.
776 00 $i Continues print version: $a Library of Congress. Copyright Office. $t Catalog of copyright entries, fourth series. Part 8, Renewals $x 0163-7363 $w (DLC) 79640907 $w (OCO LC)5435925
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