



# Technical Bulletin 252

## OCLC-MARC Format Update 2006

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### About Technical Bulletin 252

#### Contents

Technical Bulletin 252 covers the following topics:

Topic	Page
1 New Coding Practice for Integrating Resources	4
2 Bibliographic Record Changes	7
3 Authority Record Changes	18
4 MARC Code List Changes	20
5 Character Set Changes	26
6 Additional Changes to OCLC-MARC Records	28
7 006 Template and Fixed Field Display Changes	29
8 Summary of Connexion Changes	32
Technical Bulletins Online	36
Current OCLC Technical Bulletins	37

#### Why read this?

To learn about changes to OCLC-MARC records based on:

- MARC 21 Format for Bibliographic Data Update 5 (October 2004)
- MARC 21 Format for Bibliographic Data Update 4 (October 2003)
- MARC 21 Format for Bibliographic Data Update 3 (October 2002)
- MARC 21 Format for Bibliographic Data Update 2 (October 2001)
- MARC 21 Format for Authority Data Update 5 (October 2004)
- MARC 21 Format for Authority Data Update 4 (October 2003)
- MARC Code List Technical Notices
- Comments and requests from OCLC users and staff

#### Record processing information

All sections describe changes that may affect local system processing of OCLC-MARC records.

#### Route to

Cataloging and local system or automation staff.

#### Online Installation

May-June 2006. Installations of this OCLC-MARC Update will occur in stages, which OCLC will announce via logon Messages of the Day, Connexion News, and the OCLC-CAT listserv.

**OCLC strongly recommends that users not begin to use new capabilities, new fields and subfields, new indicators, new practices, new codes, and new characters until OCLC announces that they may be used.** Note that, as OCLC converts data, users may encounter instances of these new data.

**New searching and indexing capabilities:** With the exceptions and Connexion interface differences noted in this Technical Bulletin, all new searching and indexing capabilities can be used in all Connexion interfaces beginning with the Connexion

host installation in May 2006. Note that, as OCLC converts data, searches that include the qualifiers for Continuing Resources, Integrating Resources, and Serials may not retrieve complete results sets.

**New practices for Integrating Resources, including the use of BLvl i:** These should be implemented in all Connexion interfaces when announced by OCLC in June 2006.

**New fields, subfields, and indicators:** These may be used in all Connexion interfaces when announced by OCLC in June 2006.

**New codes:** These may be used in all Connexion interfaces when announced by OCLC in June 2006. In Connexion client 1.50, new codes will not appear in dropdown lists, but can be input manually.

**New characters:** These may be used in all Connexion interfaces when announced by OCLC in June 2006, subject to the revision of Library of Congress Rule Interpretation 1.0E where appropriate. As OCLC converts data, users may encounter the new characters.

#### **Summary of Connexion differences**

For a summary of the differences among the Connexion interfaces, see the first section in chapter 8, "[Differences among Connexion interfaces.](#)"

#### **Upgrade to Connexion client 1.60**

To take full advantage of the new capabilities that will be available in Connexion client 1.60 and to avoid the limitations of client 1.50, users are strongly encouraged to switch from 1.50 to 1.60 as soon as 1.60 is released in June 2006.

#### **Data conversion**

Some data conversions and other changes will not be completed until after the release of Connexion client 1.60 in June 2006. To the extent possible, these are noted in this Technical Bulletin and include (but are not limited to):

- Conversion of records that can be safely identified as Integrating Resources will continue after the end of June 2006
- Conversion of the following characters, when safely identifiable, will continue after the end of June 2006:
  - Alif: Change of Unicode value from *02BE* to *02BC*
  - Musical Sharp: Conversion of pound sign (#) into sharp, where appropriate
  - Degree Sign: Conversion of superscript zero (<sup>0</sup>) into degree sign, where appropriate.
- Conversion of ISSN codes from Continuing Resources 008/20 and 006/03 to field 022 subfield ‡2 will continue after the end of June 2006.
- Implementation of new validation rules for field 024 in both bibliographic and authority records (July 2006).
- Implementation of a new phrase index (mi=) for Musical Incipits (field 031 subfield ‡p) will be phased in during 2006:
  - In Connexion client 1.50 (May 2006) and Connexion client 1.60 (June 2006), the Musical Incipits phrase index (mi=) will not be available.
  - In Connexion browser, the Musical Incipits phrase index (mi=) will be available in the browse dialog and as a command line browse beginning in May 2006.
  - The Musical Incipits phrase index (mi=) will be available in the browse dialog and as a command line browse in Connexion client 1.70, later in 2006.

<b>Database scans</b>	OCLC will convert obsolete data to its appropriate new format to the extent that is safely possible.
<b>Support</b>	<p>Contact your OCLC regional service provider or the user training development manager at OCLC if you are an independent institution.</p> <p>Contact OCLC for support in English, Spanish and Portuguese. Hours:</p> <p style="padding-left: 40px;">7:00 am–9:00 pm U.S. Eastern time, Monday through Friday</p> <p>USA: 1-800-848-5800</p> <p>International: 1-614-793-8682</p> <p>E-mail: <i>support@oclc.org</i></p>
<b>Documentation affected</b>	<i>Authorities User Guide, Bibliographic Formats and Standards, OCLC Input Standards Tables, Connexion browser Help, Connexion client Help, OCLC-MARC Records and Searching WorldCat Indexes</i>
<b>Conventions</b>	Throughout the technical bulletin, <b>R</b> = Repeatable and <b>NR</b> = Nonrepeatable.

# 1 New Coding Practice for Integrating Resources

## Completion of OCLC support for 2002 AACR2 revisions about integrating resources

### Background

In the OCLC-MARC Format Update 2002, announced in Technical Bulletin 247 and implemented in December 2002, OCLC began to phase in support for the 2002 revisions to AACR2 related to integrating resources. With this 2006 Update, OCLC will complete the phasing in of this support.

The 2002 revision of AACR2 renamed chapter twelve from Serials to Continuing Resources. With this Update, OCLC is now implementing this change. Continuing Resources is now the larger category. This means that record creation and searching have changed.

### Record creation

When you create records for textual serials and textual integrating resources, you now use the Continuing Resources (formerly Serials) workform. This change also applies to the constant data workforms for textual serials and textual integrating resources. Continue to use the 006 field for Continuing Resources (formerly Serials) to create 006 fields for non-textual serials and non-textual integrating resources.

### Searching

New search limiters for Continuing Resources and Integrating Resources can be used in command line searches and in drop-down lists.

- Continuing Resources retrieves both Serials and Integrating Resources
- Serials and Integrating Resources can each be used as more specific limiters (each retrieves a different set of search results)
- Search results for Integrating Resources
  - In brief record displays, records with Type *a* BLvl *i* will be identified with [INTEGRATING RESOURCE]
  - In group displays, records with Type *a* BLvl *i* will appear under the heading “Textual Integrating Resources.”

### Connexion client 1.50

Searching has also changed in Connexion client 1.50.

New search limiters *cnr* (Continuing Resources) and *int* (Integrating Resources) can be used only in command line searches.

- In command line searches, *ser* will retrieve only (traditional) Serials, and will not include Integrating Resources; *int* will retrieve only textual Integrating Resources; *cnr* will retrieve all records in both the *ser* and *int* categories.
- When qualifying searches using the format dropdown list on the WorldCat Search dialog, “Serials” will retrieve only (traditional) Serials; neither Integrating Resources nor Continuing Resources is an option in the dropdown list.
- Search results for Integrating Resources
  - In brief record displays, records with Type *a* BLvl *i* will be identified with [INTEGRATING RESOURCE]
  - In group displays, records with Type *a* BLvl *i* will be grouped together, but the format heading “Textual Integrating Resources” will not be present in the display.

## BLvl *i* and interim guidelines for integrating resources

As part of the 2006 Update, OCLC will implement BLvl code *i*. When implementation is complete, OCLC users should cease following the interim coding guidelines for integrating resources that appear in Technical Bulletin 247. Instead, begin to follow the correct coding for integrating resources, given below.

**Note:** The OCLC document Cataloging Electronic Resources: OCLC-MARC Coding Guidelines will be revised to reflect the new guidelines.

## Guidelines for integrating resources

### Type code

Continue to assign the Type code appropriate to the most significant aspect of the resource. For example, assign Type code *a* for language material.

### BLvl *i*

Use BLvl *i* for integrating resources.

### Language material integrating resources

For language material integrating resources (Type *a*, BLvl *i*), code the fixed field elements as follows:

- DtSt: For integrating resources that are currently published, use code *c* (rather than the former practice of code *m*). For integrating resources that have ceased publication, use code *d* (rather than the former practice of code *m*).
- Form: For electronic integrating resources, continue to use code *s* in Form.
- Freq and Regl: If the integrating resource is truly “continuously updated” (for instance, a constantly updating database, a newspaper's Web site that gets updated as news occurs, etc.), use the Frequency Code *k*, which means “the item is updated more frequently than daily;” in that case, the correct Regularity code is likely to be *r* for Regular. More commonly, when the resource is updated less frequently than daily and none of the other Frequency codes apply, use blank (Ø for Frequency and *x* for Regularity).
- S/L: Use code *2* to indicate that the record was formulated using the revised rules for integrated entry.
- SrTp: Use code *d* for updating databases, code *l* for updating loose-leaves, or code *w* for updating Web sites, as appropriate.

### Electronic integrating resources

For electronic integrating resources, continue to include a computer file 006 and a computer file 007 field. For a language material integrating resource, the typical computer file 006 and 007 fields will be coded as follows

- COM 006: Type: m      Audn:      File: d      GPub:
- COM 007: c †b r †d c †e n

### New Genre for Dublin Core

When creating Dublin Core records for electronic textual integrating resources, use the OCLC Genre “Textual data, updating.”

### Conversion of existing records

Existing records for integrating resources will be converted to the new practices in all cases where OCLC can safely determine that a conversion is appropriate and possible. Records that were created in accordance with OCLC's interim practices for integrating resources will be the safest to convert. OCLC will announce progress on the conversion following the implementation of this OCLC-MARC Update. When the conversions are complete, users should report unconverted records to OCLC through the usual change reporting methods.

## Enhance/CONSER editing capabilities

CONSER and Enhance participants will share responsibilities for maintaining BLvl *i* records:

- CONSER authorizations will be able to change non-authenticated Type *a* records with BLvl *b* or *s* to BLvl *i* and vice versa
- CONSER authorizations will be able to change Type *a* records with BLvl *m* to BLvl *i*

Until CONSER issues guidelines on the treatment of BLvl *i*, CONSER participants will not be able to change Type *a* BLvl *b* or *s* CONSER-authenticated records to BLvl *i*.

National Level Enhance:

- National Level Enhance authorizations for Books format will be able to change Type *a* records with BLvl *a*, *c*, *d*, or *m* to BLvl *i* and vice versa
- National Level Enhance authorizations for non-book formats will be able to change the BLvl of records in their specific format freely

Regular Enhance:

- Regular Enhance authorizations for Books format will be able to change Type *a* records with BLvl *a*, *c*, *d*, or *m* to BLvl *i* and vice versa, subject to the same Encoding Level and field 042 restrictions already in place.
- Regular Enhance authorizations for non-book formats will be able to change the BLvl of records in their specific format freely, subject to the same Encoding Level and field 042 restrictions already in place.

## Database enrichment

Database Enrichment rules remain unchanged, with BLvl *i* records subject to the existing rules.

## Minimal-level upgrade

Minimal-Level Upgrade will continue to allow changes of BLvl only within the same bibliographic format, **except**:

- In records with Type Codes *a* or *t*, BLvl *a*, *c*, *d*, or *m* can be changed to BLvl *i*.
- In records with Type Code *a* **and** BLvl *b* or *s*, the BLvl can be changed to BLvl *i*.

## Creation of new records

All authorization levels will continue to be able to create new records with any BLvl.

## 2 Bibliographic Record Changes

### BLvl Bibliographic Level (Leader/07)

New value	i	Integrating resources
New coding practices	See <a href="#">Guidelines for integrating resources</a> on page 5	
Indexing	Indexing is being adjusted to allow for retrieval at the broadest level, Continuing Resources, and at the more specific levels, Serials and Integrating Resources.	
Conversion of existing records	See <a href="#">Conversion of existing records</a> on page 5	

#### Format indexes

Integrating Resources (*int*) is being added to the format index and as a command line slash qualifier. Integrating Resources (*int*) retrieves different results from those of Serials (*ser*). Both Integrating Resources (*int*) and Serials (*ser*) are included in the Continuing Resources (*cnr*) index.

#### Material type index

Material type *int* is defined for integrating resources.

Name	Code	Definition			
		Type of record	Bib Level	006/00	Note
		Leader/06	Leader/07		
Integrating resource	int	any	i		
Integrating resource	int			s	and SER 006/04 Sr I p is d, l, or w
Integrating resource	int	a, t	s, b	s	and SER 008/21 Sr I p is d, l, or w
Serial	ser	any	s, b	s	
Serial	ser				and SER 006/04 Sr I p is <b>not</b> d, l, or w
Continuing resource	cnr	any	s, b, i		
Continuing resource	cnr			s	

#### Connexion client 1.50

The drop-down list in the Bibliographic Level fixed field will not include new code *i*. You may input the new code manually.

## ISSN ISSN Center (CNR 008/20; CNR 006/03)

Obsolete fixed field	ISSN: Continuing resources 006/03 Obsolete. Do not use. Data currently in this field will be transferred to 022 ‡2. ISSN: Continuing resources 008/20 Obsolete. Do not use. Data currently in this field will be transferred to 022 ‡2.
Conversion of existing records	ISSN (Continuing Resources 008/20 & 006/03) will be deleted from the Continuing Resources records and displays. Existing data will be converted and display in field 022 subfield ‡2.
Connexion client 1.50	The ISSN fixed field element will remain in the Serials workflow, but the only valid value will be blank (⌀). Any existing ISSN value will be converted to field 022 ‡2 as the record is displayed, when appropriate.

## Part Music Parts (SCO & REC 008/21; SCO & REC 006/04)

New fixed field and default values	Part: Score 006/04b Part: Score 008/21b Part: Sound recording 006/04n Part: Sound recording 008/21n
Values	b No parts in hand or not specified d Instrumental and vocal parts e Instrumental parts f Vocal parts n Not applicable u Unknown
Connexion client 1.50	In client 1.50, Part will not appear in the Music fixed field or 006 for Scores or Sound Recordings. <ul style="list-style-type: none"><li>• If a Replace is performed, any value in Part (whether added in client 1.60 or browser) will be preserved in the master record.</li><li>• If an Export is performed, Part will appear as blank (⌀) in the exported record.</li><li>• If an Update is performed, any value in Part (whether added in client 1.60 or browser) will be preserved in the archive record.</li></ul>

## Relf Relief (MAP 008/18-21; MAP 006/01-04)

Obsolete value	h Obsolete. Do not use. Replaced by code c.
Conversion of existing records	Any remaining codes <i>h</i> are being converted to code <i>c</i> .
Connexion client 1.50	Code <i>h</i> will remain in the Relf fixed field drop-down list, but records containing it will not pass OCLC validation.



## TrAr Transposition and Arrangement (SCO & REC 008/33; SCO & REC 006/16)

New fixed field and default values

TrAr: Score 006/16~~h~~  
TrAr: Score 008/33~~h~~  
TrAr: Sound recording 006/16n  
TrAr: Sound recording 008/33n

Values

~~h~~ Not arrangement or transposition or not specified  
a Transposition  
b Arrangement  
c Both transposed and arranged  
n Not applicable  
u Unknown

Connexion client 1.50

In client 1.50, TrAr will not appear in the Music fixed field or 006 for Scores or Sound Recordings.

- If a Replace is performed, any value in TrAr (whether added in client 1.60 or browser) will be preserved in the master record.
- If an Export is performed, TrAr will appear as blank (~~h~~) in the exported record.
- If an Update is performed, any value in TrAr (whether added in client 1.60 or browser) will be preserved in the archive record.

## 016 National Bibliographic Agency Control Number (R)

1st indicator value renamed

~~h~~ Library and Archives Canada. Formerly, National Library of Canada. The OCLC symbol of Library and Archives Canada remains NLC.

## 017 Copyright or Legal Deposit Number (R)

New 2nd indicator

Display Constant Controller  
~~h~~ Copyright or legal deposit number  
8 No display constant generated  
Use ~~h~~ i (Display text) when special introductory text is needed.

Subfield ~~h~~ a renamed

Copyright or legal deposit number (R). Formerly, Copyright registration number (R)

New subfields

~~h~~ d Date (NR)  
~~h~~ i Display text (NR)

## 020 International Standard Book Number (R)

Subfield obsolete

~~h~~ b Binding information. Obsolete. Do not use.

Conversion of existing records

- When field 020 subfields ~~h~~ a or ~~h~~ z are present, subfield ~~h~~ b data is retained as parenthetical qualifier to ISBN in subfield ~~h~~ a or ~~h~~ z; subfield ~~h~~ b indicator is deleted.
- When only subfield ~~h~~ b, or only subfields ~~h~~ b and ~~h~~ c are present, the entire field is deleted.

## 022 International Standard Serial Number (R)

1st indicator values renamed	0 Continuing resource of international interest. 1 Continuing resource not of international interest
New subfield ‡2	Source (NR).
Conversion of existing records	<ul style="list-style-type: none"><li>ISSN (Continuing Resources 008/20 &amp; 006/03) will be deleted from Serials records and displays. Existing data will be converted to appear in field 022 subfield ‡2. Conversions will take place after the OCLC-MARC Update is implemented and deletion of the element will take place after conversions are complete.</li></ul>

## 024 Other Standard Identifier

Validation changes	For certain Standard Identifiers, a calculated check character has been built into their structures in order to eliminate typographical errors. As a follow-up to this 2006 update, OCLC has now implemented more thorough validation checks based on the check characters for most of the Standard Identifiers coded in field 024. For those Standard Identifiers that do not include check characters, OCLC has implemented tighter validation checks on their structure and length, where appropriate.												
1st indicator	<table><tr><td>0</td><td>International Standard Recording Code (ISRC)</td></tr><tr><td>1</td><td>Universal Product Code (UPC)</td></tr><tr><td>2</td><td>International Standard Music Number (ISMN)</td></tr><tr><td>3</td><td>International Article Number (EAN)</td></tr><tr><td>4</td><td>Serial Item and Contribution Identifier (SICI)</td></tr><tr><td>7</td><td>Source specified in subfield ‡2: doi Digital Object Identifier gtin Global Trade Item Number isan International Standard Audiovisual Number istc International Standard Text Code iswc International Standard Musical Work Code natgazfid U.S. National Gazeteer Feature Name Identifier</td></tr></table>	0	International Standard Recording Code (ISRC)	1	Universal Product Code (UPC)	2	International Standard Music Number (ISMN)	3	International Article Number (EAN)	4	Serial Item and Contribution Identifier (SICI)	7	Source specified in subfield ‡2: doi Digital Object Identifier gtin Global Trade Item Number isan International Standard Audiovisual Number istc International Standard Text Code iswc International Standard Musical Work Code natgazfid U.S. National Gazeteer Feature Name Identifier
0	International Standard Recording Code (ISRC)												
1	Universal Product Code (UPC)												
2	International Standard Music Number (ISMN)												
3	International Article Number (EAN)												
4	Serial Item and Contribution Identifier (SICI)												
7	Source specified in subfield ‡2: doi Digital Object Identifier gtin Global Trade Item Number isan International Standard Audiovisual Number istc International Standard Text Code iswc International Standard Musical Work Code natgazfid U.S. National Gazeteer Feature Name Identifier												
Validation problems	If you encounter validation problems with 024 fields in existing records and are unable to correct them, OCLC recommends that you set your validation level to "None." Remember that in field 024, terms of availability, price, and any parenthetical qualifying information pertaining to a Standard Identifier belong in subfield ‡c.												

## 031 Musical Incipits Information (R)

	New field
1st indicator	␣ Undefined
2nd indicator	␣ Undefined
Subfields	‡a Number of work (NR) ‡b Number of movement (NR) ‡c Number of excerpt (NR) ‡d Caption or heading (R) ‡e Role (NR) ‡g Clef (NR) ‡m Voice/instrument (NR) ‡n Key signature (NR) ‡o Time signature (NR) ‡p Musical notation (NR) ‡q General note (R) ‡r Key or mode (NR) ‡s Coded validity note (R) ‡t Text incipit (R) ‡u Uniform Resource Identifier (R) ‡y Link text (R) ‡z Public note (R) ‡2 System code (NR)
Definition	Field 031 contains coded data representing the musical incipit for music using established notation schemes that employ ordinary ASCII symbols. It is primarily used to identify music manuscripts, but can be applied to any material containing music.
Example	031 01 ‡b 01 ‡c 01 ‡m S ‡d Aria ‡t Rei d'impuniti excessi ‡r e ‡g C-1 ‡o c ‡p '2B4B8BB/4G8GxF4FF/4xA8AA4.At8B/4B ‡2 pe
Printing	Field 031 does not print.
Indexing	Subfields ‡d and ‡t are indexed in Title word and phrase indexes (ti: and ti=). Subfield ‡p is indexed in the new Musical Incipits phrase index (mi=). Subfield ‡u is indexed in Access Method word and phrase indexes (am: and am=). All characters are retained, including punctuation, special characters, etc.
Connexion client 1.50 and 1.60	In Connexion client 1.50 and 1.60, the new phrase index for Musical Incipits (mi=) is not available.
Connexion browser and client 1.70	The new phrase index for Musical Incipits (mi=) will be available in the browse dialog and as a command line browse in the Connexion browser in May 2006 and in Connexion client 1.70 later in 2006.

## 041 Language Code (R)

Validation rules changed	OCLC validation now allows one 041 with second indicator 8. OCLC validation continues to allow unlimited 041s with second indicator 7.
ISO 639-1 language codes now valid	Field 041 was made repeatable in 2002 in order to accommodate non-MARC language code lists. As part of this 2006 MARC Update, the two-character language codes from the ISO 639-1:2002 list will be valid in MARC records. For the ISO list, see <a href="http://www.loc.gov/standards/iso639-2/langcodes.html">http://www.loc.gov/standards/iso639-2/langcodes.html</a> .
Indexing	<p>ISO two-character codes are those in which subfield ‡2 contains <i>iso639-1</i>. Both the codes and extended terms are indexed. Each code is in a separate subfield. Two-character codes without <i>iso639-1</i> in subfield ‡2 are not indexed.</p> <p>Field 041 may now contain either two-character ISO language codes or three-character MARC language codes. Search results are the same for equivalent codes. For the list of equivalent codes, see Codes for the Representations of Names of Languages, available on the web at <a href="http://www.loc.gov/standards/iso639-2/langcodes.html">http://www.loc.gov/standards/iso639-2/langcodes.html</a>.</p> <p><b>Example.</b> Three-character code <i>eng</i>, two-character code <i>en</i>, and term <i>English</i> have the same search results.</p> <p>Language codes that formerly referenced a group of languages are now searchable by codes for those languages. For example, <i>aus</i> is the code for Australian languages. This means searching for any of the Australian languages retrieves all records with the <i>aus</i> code.</p> <p>There is no change to the indexing of three-character MARC codes.</p>
More information	For detailed changes to language codes, see the list of new and changed language codes in chapter 4, “ <a href="#">New and changed language codes</a> ” on page 20.

## 042 Authentication Code (R)

Digital library registry code <i>d/r</i>	Digital Library Registry code <i>d/r</i> was validated in OCLC in 2002. OCLC validation will now allow users with Full authorization or higher to add code <i>d/r</i> to a new or existing field 042 in a new or existing record.
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## 044 Country of Publishing/Producing Entity Code (NR)

Subfields renamed	‡a MARC country code (R). Formerly, Country of publishing/producing entity code (R) ‡c ISO country code (R). Formerly, ISO code (R)
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## 050 Library of Congress Call Number (R)

Subfield obsolete	‡d Supplementary Class Number. Obsolete. Do not use.
Conversion of existing records	All field 050 ‡d data have been deleted from WorldCat.

## 055 Classification Numbers Assigned in Canada (R)

Field renamed	Formerly, 055 Call Numbers/Class Numbers Assigned in Canada.
1st indicator values redefined	0 Work held by Library and Archives Canada 1 Work not held by Library and Archives Canada.
2nd indicator values redefined	0 LC-based call number assigned by Library and Archives Canada. From Library and Archives Canada copy only. 1 Complete LC class number assigned by Library and Archives Canada. From Library and Archives Canada copy only. 2 Incomplete LC class number assigned by Library and Archives Canada. From Library and Archives Canada copy only. 6 Other call number assigned by Library and Archives Canada. From Library and Archives Canada copy only. 7 Other class number assigned by Library and Archives Canada. From Library and Archives Canada copy only.

## 072 Subject Category Code (R)

2nd indicator value renamed	7 Source specified in subfield ‡2. Formerly, Code source specified in subfield ‡2
Subfield renamed	‡2 Source (NR). Formerly, Code source (NR)

## 100 Main Entry–Personal Name (NR)

Subfield obsolete	‡s Version. Obsolete. Do not use.
Conversion of existing records	All field 100 ‡s data have been manually converted.

## 110 Main Entry–Corporate Name (R)

Subfields obsolete	‡h Medium. Obsolete. Do not use. ‡s Version. Obsolete. Do not use.
Conversion of existing records	All field 110 subfields ‡h and ‡s data have been manually converted.

## 111 Main Entry–Meeting Name (R)

Subfield obsolete	‡h Medium. Obsolete. Do not use. ‡s Version. Obsolete. Do not use.
Conversion of existing records	All field 111 subfields ‡h and ‡s data have been manually converted.

## 258 Philatelic Issue Data (R)

1st indicator	New field b Undefined
2nd indicator	b Undefined
Subfields	‡a Issuing jurisdiction (NR) ‡b Denomination (NR)
Definition	Stamps, postal stationery and all other documents created and/or used to signify pre-payment or payment due for postal services; stamps or other labels resembling the material described above, but which have no postal value; cancellations or other marks created and/or used by a postal administration to show evidence of postal usage; material bearing one or more of the items described above.
Example	258 United States of America and other jurisdictions : ‡b various denominations.
Printing	Field 258 does not print.

## 260 Publication, Distribution, etc. (Imprint) (NR)

Subfield repeatability changed	‡e Place of manufacture (R). Formerly, NR ‡f Manufacturer (R). Formerly, NR ‡g Date of manufacture (R). Formerly, NR
Printing	Subfields ‡e, ‡f and ‡g print in the order found in the record.

## 300 Physical Description (R)

Subfield obsolete	‡d Accompanying material. Obsolete. Do not use.
Conversion of existing records	All data in field 300 ‡d have been converted to ‡e.

## 352 Digital Graphic Representation (R)

New subfield	‡q Format of the digital image (NR)
Definition	A description of the method of referencing and the mechanism used to represent graphic information in a data set. Include the type of storage technique used and the number of items in the data set.
Example	352 Raster : ‡b pixel ‡d (5,000 x ‡e 5,000) ; ‡q Tiff

## 523 Time Period of Content Note (R)

Field obsolete	Do not use.
Conversion of existing records	All data in field 523 have been converted to field 500.

## 538 System Details Note (R)

New subfields	‡i Display text (NR) ‡u Uniform Resource Identifier (R) ‡3 Materials specified (NR)
Printing	Subfield ‡u does not print. Subfields ‡i and ‡3 print in the order found in the record.
Indexing	Subfield ‡u is indexed in Access Method (am: and am=).

## 541 Immediate Source of Acquisition (R)

New 1st indicator and values	Privacy
	‡ No information provided Fields with the first indicator ‡ will be retained in the master record, the displayed record, the exported record, and the user's archive record.
	0 Private Fields with the first indicator 0 will not be retained in the master record, but will be included in the displayed record, the exported record, and the user's archive record.
1 Not private Fields with the first indicator 1 will be retained in the master record, the displayed record, the exported record, and the user's archive record.	

## 561 Ownership and Custodial History (R)

New 1st indicator and values	Privacy
	‡ No information provided Fields with the first indicator ‡ will be retained in the master record, the displayed record, the exported record, and the user's archive record.
	0 Private Fields with the first indicator 0 will not be retained in the master record, but will be included in the displayed record, the exported record, and the user's archive record.
1 Not private Fields with the first indicator 1 will be retained in the master record, the displayed record, the exported record, and the user's archive record.	

## 583 Action Note (R)

New 1st indicator and values	Privacy
	‡ No information provided Fields with the first indicator ‡ will be retained in the master record, the displayed record, the exported record, and the user's archive record.
	0 Private Fields with the first indicator 0 will not be retained in the master record, but will be included in the displayed record, the exported record, and the user's archive record.
1 Not private Fields with the first indicator 1 will be retained in the master record, the displayed record, the exported record, and the user's archive record.	

## 648 Subject Added Entry—Chronological Term (R)

1st indicator	New field
	‡ Undefined
2nd indicator	Thesaurus
	0 Library of Congress Subject Headings
	1 LC subject heading for children's literature
	2 Medical Subject Headings (National Library of Medicine)
	3 National Agricultural Library subject authority file
	4 Source not specified
	5 Canadian Subject Headings
	6 Répertoire de vedettes-matière
7 Source is specified in subfield ‡2	
Subfields	‡a Chronological term (NR)
	‡v Form subdivision (R)
	‡x General subdivision (R)
	‡y Chronological subdivision (R)
	‡z Geographic subdivision (R)
	‡2 Source of heading or term (NR)
	‡3 Materials specified (NR)
Definition	A subject added entry in which the entry element is a chronological term.
Example	648 1900-1999 ‡2 fast
Printing	Field 648 does not print.
Indexing	Field 648 is indexed according to the value of the second indicator in subject, form, and genre indexes.

## 654 Subject added entry—faceted topical terms

Indexing	Field 654 is indexed in the general Subject index (su).
----------	---



## 773 Host Item Entry (R)

New subfield	‡q Enumeration and first page (NR)
Conversion of existing records	Existing data cannot be converted to the new field 773 ‡q.
Example	773 ‡t California journal ‡g Vol. 24, pt. B no. 9 (Sept. 1993), p. 235-48 ‡q 24:B:9<235
Printing	Field 773 ‡q does not print.

## 938 Vendor Specific Ordering Data (R)

New subfields	‡d Vendor net price (NR) ‡i Inventory number (NR)
System supplied	Field 938 and its subfields are system supplied. They contain vendor-specific ordering data from MARC vendor records. OCLC sets the vendor's holdings and retains field 938 in the master record (you can add, change or delete a 938 field in your local copy of the record).

## 945-949 Local Processing Information (R)

New subfields	‡0 Locally defined (R) ‡1 Locally defined (R) ‡2 Locally defined (R) ‡3 Locally defined (R) ‡4 Locally defined (R) ‡5 Locally defined (R) ‡7 Locally defined (R) ‡9 Locally defined (R)
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## 950 OCLC Locally Defined (R)

Obsolete field	Do not use.
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## 989 Project Identifier (NR)

New field	Field 989 supports libraries in the cooperative cataloging project.
1st indicator	‡ Undefined
2nd indicator	‡ Undefined
Subfield	‡a Project Identifier (NR) <b>Note:</b> The only valid value for ‡a is <i>coopcat</i> .
Institution supplied	Only libraries participating in the cooperative cataloging project should use this field.

### 3 Authority Record Changes

#### 016 National Bibliographic Agency Control Number (R)

1st indicator value renamed      **b** Library and Archives Canada  
Formerly, National Library of Canada. The OCLC symbol for Library and Archives Canada remains NLC.

#### 024 Other Standard Identifier (R)

1st indicator      New field  
Type of Standard Number or Code  
7 Source specified in subfield ‡2  
8 Unspecified type of standard number or code

2nd indicator      **b** Undefined

Subfields      ‡a Standard Number or Code (NR)  
‡c Terms of availability (NR)  
‡d Additional codes following the standard code (NR)  
‡z Cancelled/invalid standard number or code (R)  
‡2 Source of number or code (NR)

Validation changes      For certain Standard Identifiers, a calculated check character has been built into their structures in order to eliminate typographical errors. As a follow-up to this 2006 update, OCLC has now implemented more thorough validation checks based on the check characters for most of the Standard Identifiers coded in field 024. For those Standard Identifiers that do not include check characters, OCLC has implemented tighter validation checks on their structure and length, where appropriate.

1st indicator      0 International Standard Recording Code (ISRC)  
1 Universal Product Code (UPC)  
2 International Standard Music Number (ISMN)  
3 International Article Number (EAN)  
4 Serial Item and Contribution Identifier (SICI)  
7 Source specified in subfield ‡2:  
doi Digital Object Identifier  
gtin Global Trade Item Number  
isan International Standard Audiovisual Number  
istc International Standard Text Code  
iswc International Standard Musical Work Code  
natgazfid U.S. National Gazetteer Feature Name Identifier

Validation problems      If you encounter validation problems with 024 fields in existing records and are unable to correct them, OCLC recommends that you set your validation level to "None." Remember that in field 024, terms of availability, price, and any parenthetical qualifying information pertaining to a Standard Identifier belong in subfield ‡c.

## 031 Musical Incipits Information (R)

	New field
1st indicator	␣ Undefined
2nd indicator	␣ Undefined
Subfields	⊥a Number of work (NR) ⊥b Number of movement (NR) ⊥c Number of excerpt (NR) ⊥d Caption or heading (R) ⊥e Role (NR) ⊥g Clef (NR) ⊥m Voice/instrument (NR) ⊥n Key signature (NR) ⊥o Time signature (NR) ⊥p Musical notation (NR) ⊥q General note (R) ⊥r Key or mode (NR) ⊥s Coded validity note (R) ⊥t Text incipit (R) ⊥u Uniform Resource Identifier (R) ⊥y Link text (R) ⊥z Public note (R) ⊥2 System code (NR)
Definition	Field 031 contains coded data representing the musical incipit for music using established notation schemes that employ ordinary ASCII symbols. It is primarily used to identify music manuscripts, but can be applied to any material containing music.
Example	031 01 ⊥b 01 ⊥c 01 ⊥m S ⊥d Aria ⊥t Rei d'impuniti excessi ⊥r e ⊥g C-1 ⊥o c ⊥p '2B4B8BB/4G8GxF4FF/4xA8AA4.At8B/4B ⊥2 pe
Indexing	Subfields ⊥d and ⊥t are indexed in Title word and phrase indexes (ti: and ti=). Subfield ⊥p is indexed in the new Musical Incipits phrase index (mi=). All characters are retained, including punctuation, special characters, etc.
Connexion client 1.50 and 1.60	In Connexion client 1.50 and 1.60, the new phrase index for Musical Incipits (mi=) is not available.
Connexion browser and client 1.70	The new phrase index for Musical Incipits (mi=) will be available in the browse dialog and as a command line browse in the Connexion browser in May 2006 and in Connexion client 1.70 later in 2006.

## 055 Library and Archives Canada Call Number (R)

Field renamed	Formerly, 055 National Library of Canada Call Number. The OCLC symbol for Library and Archives Canada remains NLC.
2nd indicator values redefined	0 Assigned by Library and Archives Canada. 4 Assigned by agency other than Library and Archives Canada.

## 4 MARC Code List Changes

### New and changed language codes

#### Fields and subfields where codes are valid

Language codes are valid in these fields and subfields:

- Bibliographic: Lang (008/35-37), 040 ‡b, 041, 242 ‡y, 775 ‡e
- Authority: 040 ‡b

**Note:** The codes listed as “Previously Coded” in the table below remain valid for their respective languages and language groups.

#### Data conversion

Manual conversion of existing data will be done where possible. Users are encouraged to report necessary changes.

#### Indexing

All new language codes and terms are indexed in the Language (la) index. Old language names are retained in the Language (la) index.

Example. Code *ltz*, Code *lb*, *Letzeburgesch*, and *Luxembourgish* will have the same results.

Code	Language Name	Previously Coded
ain	Ainu	mis (Miscellaneous)
alt	Southern Altai	tut (Altaic Other)
anp	Angika	bih (Bihari)
byn	Bilin	cus (Cushitic (Other))
csb	Kashubian	sla (Slavic (Other))
dsb	Lower Sorbian	wen (Sorbian languages)
fil	Filipino	
frr	Northern Frisian	
frs	Eastern Frisian	
gsw	Swiss German	ger (German)
hsb	Upper Sorbian	wen (Sorbian languages)
jbo	Lojban (Artificial Language)	
krc	Karachay-Balkar	tut (Altaic (Other))
krl	Karelian	fiu (Finno-Ugrian (Other))
mdf	Moksha	fiu (Finno-Ugrian (Other))
mwł	Mirandese	
myv	Erzya	fiu (Finno-Ugrian (Other))
nwc	Newari, Old	
rup	Aromanian	
scn	Sicilian Italian	ita (Italian)
srn	Sranan	cpe (Creole and Pidgins, English-based (Other))
tlh	Klingon (Artificial Language)	
zxx	No Linguistic Content	N/A or three blanks (⌀ in 008/35-37)

#### Connexion client 1.50

- The drop-down list in the Lang fixed field will not include new or changed Language Codes. You may input the new codes manually.
- For searching, new and changed Language Codes will not appear in the Search WorldCat dropdown list, but can be used in command line searches.

## New language code for “No Linguistic Content”

**Coding guidelines** Longstanding OCLC practice has been to code *N/A* in Lang (008/35-37) when there was no language associated with the main content of a bibliographic resource (most commonly, for scores and sound recordings with no sung or spoken text). Previous MARC practice had been to code three blanks in Lang (008/35-37). MARC has now assigned the code *zxx* to be used in Lang (008/35-37) when a resource has no sung, spoken, or written textual content.

New code	Language Name	Previously coded
<i>zxx</i>	No Linguistic Content	<i>N/A</i> or 3 blanks (Ø) in 008/35-37

**Field where code is valid** This new language code is valid only in Lang (008/35-37).

**Data conversion** Instances of *N/A* and three blanks in Lang (008/35-37) will be converted to code *zxx*.

## Changed Language Names

Only these language names have been changed. The codes for the languages have **not** been changed.

Old Language Name	New Language Name	Code	ISO 639-1 code
Truk	Chuukese	chk	
Frisian	Western Frisian	fry	fy
Kutenai	Kootenai	kut	
Lamba	Lamba (Zambia and Congo)	lam	
Letzeburgesch	Luxembourgish	ltz	lb

## Changed Country Codes

**Fields and subfields where codes are valid** Country codes are valid in these fields and subfields.

Bibliographic: Ctry (008/15-17), 044, 535 ‡g, 775 ‡f, 851 ‡g

**More precise Australian codes** The general country code *at* for Australia remains valid, but you can now assign specific codes for individual Australian states and territories.

**Data conversion** Existing data will not be converted.

**Indexing** All new country codes and terms are indexed in the Country of Publication (cp) index.

New code	Place Name	Old Code
<i>aca</i>	Australian Capital Territory	<i>at</i>
<i>xga</i>	Coral Sea Islands Territory	<i>at</i>
<i>xna</i>	New South Wales	<i>at</i>
<i>xoa</i>	Northern Territory	<i>at</i>
<i>qea</i>	Queensland	<i>at</i>
<i>xra</i>	South Australia	<i>at</i>

New code	Place Name	Old Code
tma	Tasmania	at
vra	Victoria	at
wea	Western Australia	at

**Connexion client 1.50** The drop-down list in the Ctry fixed field will not include new or changed Country Codes. You may input the new codes manually.

## Changed Geographic Area Codes

### Fields and subfields where codes are valid

Geographic area codes are valid in these fields and subfields:

- Bibliographic: 043
- Authority: 043

The general geographic area code *u-at---* for Australia remains valid, but you can now assign specific codes for particular Australian regions.

### Data conversion

Existing data will not be converted.

### Indexing

New geographic codes appear in field 043, but are not indexed.

New geographic terms are indexed in the Geographic Coverage (gc) index.

New code	Area Name	Old Area Code
u-atc--	Central Australia	u-at---
u-ate--	Eastern Australia	u-at---
u-atn--	Northern Australia	u-at---

## New Relator Codes

### Fields and subfields where codes are valid

Relator codes are valid in these fields and subfields.

Bibliographic: ‡4 in fields 100, 110, 111, 270, 400, 410, 411, 600, 610, 611, 700, 710, 711, 720, 800, 810, 811

Code	Relator Term
acp	Art copyist
anm	Animator
cng	Cinematographer
fpv	First party
lgd	Lighting designer
mcp	Music copyist
mfr	Manufacturer
ppt	Puppeteer
rsg	Restager
spy	Second party
std	Set designer
tch	Teacher
vdg	Videographer

## New Classification Source Codes

New code	Bibliographic citation	Format/Field Use
bcl	Nederlandse Basisclassificatie = Dutch Basic Classification Codes (The Hague: Koninklijke Bibliotheek)	<ul style="list-style-type: none"> <li>• Bibliographic: 084 ‡2, 852 ‡2</li> <li>• Authority: 065 ‡2</li> </ul>
ccpgq	Cadre de classement des publications gouvernementales du Québec (Montréal: Bibliothèque nationale du Québec)	<ul style="list-style-type: none"> <li>• Bibliographic: 086 ‡2</li> <li>• Authority: 086 ‡2, 087 ‡2</li> </ul>

## New Term, Name, Title Source Codes

Although some of these codes are represented by second indicator values in 6XX fields in the Bibliographic format and in 7XX fields in the Authority format, they may be used if the second indicator does not identify the source. For example, in non-MARC records where the MARC source code list is used, e.g. the MODS authority attribute.

New code	Bibliographic citation	Format/Field Use
cct	Zhong guo fen lei zhu ti ci biao (di er ban) = Chinese Classified Thesaurus (Beijing: Guo jia tu shu guan, "Zhongguo tu shu guan fen lei fa" bian wei hui)	Bibliographic: 600-651, 655 ‡2 Authority: 040 ‡f
dcs	Descritores em Ciências da Saúde = Descriptores en Ciencias de la Salud = Health Sciences Descriptors (São Paulo: BIREME)	Bibliographic: 6xx ‡2
fire	FireTalk, IFSI thesaurus (Chicago, IL: Illinois Fire Service Institute).	Bibliographic: 6xx ‡2
fnhl	First Nations House of Learning Subject Headings (Vancouver, BC: Xwi7xwa Library, University of British Columbia).i	Bibliographic: 600-651, 656, 657 ‡2
hkcan	Hong Kong Chinese Authority File (Name) - HKCAN (Hong Kong: JULAC)	Bibliographic: 600-651, 655 ‡2
jhpb	Jezyk hasel przedmiotowych Biblioteki Narodowej = National Library of Poland Subject Headings (Warszawie: Biblioteki Narodowej)	Bibliographic: 600-651, 655 ‡2
jhpk	Jezyk hasel przedmiotowych KABA = KABA Subject Headings (Warszawie: Stowarzyszenie Bibliotekarzy Polskich, Centrum Formataw i Kartotek Hasel Wzorcowych Biblioteki Uniwersyteckiej w Warszawie)	Bibliographic: 600-651, 655 ‡2
lacnaf	Library Archives Canada name authority file (Ottawa: ON: Library Archives Canada) Note: Equivalent to second indicator value 5 in name and title headings	Bibliographic: 600-651, 655 ‡2 Authority: 700-788 ‡2
local	Locally assigned term	Bibliographic: 600-651 ‡2
mar	Merenkulun asiasanasto = MariTerm (Maritime technology)	Bibliographic: 600-651, 655-658 ‡2
nalnaf	National Agricultural Library name authority file (Beltsville, Maryland: National Agricultural Library) Note: Equivalent to second indicator value 3 in name and title headings	Bibliographic: 600-651, 655 ‡2 Authority: 700-788 ‡2
nlmnaf	National Library of Medicine name authority file (Bethesda, Maryland: National Library of Medicine) Note: Equivalent to second indicator value 2 in name and title headings	Bibliographic: 600-651, 655 ‡2 Authority: 700-788 ‡2
ogst	Oregon GILS Subject Tree (Oregon: Oregon State Library and Oregon Information Resource Management Division (IRMD))	Bibliographic: 600-651 ‡2
pmcsg	Combined standards glossary (New Town Square, PA: Project Management Institute)	Bibliographic: 600-651, 655 ‡2

<b>New code</b>	<b>Bibliographic citation</b>	<b>Format/Field Use</b>
raam	Register of Australian Archives & Manuscripts Occupations Thesaurus (Canberra: National Library of Australia)	Bibliographic: 600-651, 655 ‡2 Authority: 040 ‡f
rerovac (formerly, reroa)	Indexation matières RERO (autorités) (Martigny: Réseau des bibliothèques de Suisse occidentale)	Bibliographic: 600-651, 655 ‡2 Authority: 040 ‡f
sgc	Spolsni geslovník COBISS.SI = COBISS.SI General List of subject headings (Slovenian subject headings) (Maribor, Slovenia: Institut informacijskih znanosti (IZUM))	Bibliographic: 600-651, 655 ‡2 Authority: 040 ‡f
sgce	Spolsni geslovník COBISS.SI = COBISS.SI General List of subject headings (English subject headings) (Maribor, Slovenia: Institut informacijskih znanosti (IZUM))	Bibliographic: 600-651, 655 ‡2 Authority: 040 ‡f
thub	Thesaurus de la Universitat de Barcelona (Barcelona: Universitat de Barcelona, Centre de Recursos per a l'Aprenentatge i la Investigació, Procés Tècnic)	Bibliographic: 6xx ‡2
ulan	Union list of artist names (Los Angeles: Getty Research Institute)	Bibliographic: 6xx ‡2
waqaf	Maknas Uloom Al Waqaf (Kuwait: Kuwait Awqaf Public Foundation)	Bibliographic: 600-651, 655-658 ‡2
wgst	Washington GILS Subject Tree (Tumwater, WA: Washington State Library)	Bibliographic: 600-651 ‡2

## New Description Convention Codes

### Fields and subfields where codes are valid

Description convention codes are valid in these fields and subfields:

- Bibliographic: 040 ‡e
- Authority: 040 ‡e

<b>New code</b>	<b>Bibliographic citation</b>
isadg	ISAD(G) General international standard archival description
rpk	Rossiiskáà Gosudarstvennaáà Biblioteka

## New Other Source Codes

<b>New code</b>	<b>Bibliographic citation</b>	<b>Format/Field Use</b>
anuc	Australian National Union Catalog	Bibliographic: 042 ‡a Authority: 042 ‡a
gtin	Global Trade Item Number	Bibliographic: 024 ‡2
natgaz	U.S. National Gazetteer Feature Name Identifier	Bibliographic: 042 ‡a Authority: 042 ‡a
natgazfid	U.S. National Gazetteer Feature Name Identifier	Bibliographic: 024 ‡2
stcng	The STCN [Short title catalogue Netherlands] fingerprint	Bibliographic: 026 ‡2
ukblsr	British Library Standard Record	Bibliographic: 042 ‡a Authority: 042 ‡a
ukscp	UK Legal Deposit Libraries' Shared Cataloguing Programme Record	Bibliographic: 042 ‡a Authority: 042 ‡a
xissnuk	Not verified by ISSN UK Centre	Bibliographic: 042 ‡a Authority: 073 ‡z



## Category Code Source Code

<b>New code</b>	<b>Bibliographic citation</b>	<b>Format/Field Use</b>
sao	Svenska amnesord (Stockholm: Kungliga Biblioteket, LIBRIS-avdelningen)	Authority: 073 ‡z

## 5 Character Set Changes

### Basic Latin

You can now enter these characters as characters (you may continue to enter them using hex values). **Note:** Do not confuse the newly-valid spacing characters with their long-valid non-spacing counterparts. Use of the spacing characters will be limited almost exclusively to URLs.

Name	Character	Alternative entry (hex value)	Indexed
Spacing circumflex/circumflex accent	ˆ	%5E	As a character in Access Method indexes only
Spacing underscore/low line*	˘	%5F	As a character in Access Method indexes only
Spacing grave/grave accent	˘	%60	As a character in Access Method indexes only
Opening curly bracket/left curly bracket†	{	%7B	Not indexed
Closing curly bracket/right curly bracket†	}	%7D	Not indexed
Spacing tilde/tilde	˜	%7E	As a character in Access Method indexes only

\* Because the Spacing Underscore may cause problems with MARC output, users may prefer to continue entering it with the hexadecimal value %5F.

† Curly brackets were invalid prior to this Update.

### Extended Latin

OCLC Cataloging interfaces now accept these characters. Participants in the Program for Cooperative Cataloging (BIBCO, CONSER, NACO, and SACO) should follow PCC practices for these characters. For more information, see *Library of Congress Usage of New MARC 21 Characters Plus Processing Implications* on the web at: <http://www.loc.gov/catdir/cpso/newchar2.pdf>.

Name	Character	Indexing	When creating records	When searching
Degree sign	°	Not indexed.	Do not use the superscript zero (°).	Omit and close up space
Sound recording copyright	℗	Not indexed		
Copyright sign	©	Not indexed		
Music sharp sign	♯	Not indexed.	Do not use the pound sign (#).	Omit and close up space
Inverted question mark	¿	Not indexed		
Inverted exclamation mark	¡	Not indexed		
Eszett	ß	Indexed as the Eszett character and as ss. €	Do not use ss.	Use either Eszett or ss (results are the same).
Euro sign	€	Not indexed		

## Validation

The new characters listed above are available in Connexion interfaces now, but will pass validation from both browser and client 1.50 only after the May 2006 Connexion host installation. They will pass validation from client 1.60 upon its release in June 2006.

**Note:** OCLC requests that the new characters **not** be used until the release of client 1.60 in June 2006, subject to the revision of Library of Congress Rule Interpretation 1.0E where appropriate.

## Alif: Display and export

The Unicode value for the Extended Latin character Alif ( *ʾ* ) will change from 02BE to 02BC. All Connexion interfaces will correctly display the Alif. The MARC-8 value for the Alif character is unaffected by this change.

Unicode Export:

- If you save a record to the local file in client 1.50 and use Unicode Export to export it from client 1.50 or 1.60, the Unicode value for Alif is *02BE* (old value).
- If you save a record to the local file in client 1.60 and use Unicode Export to export it from client 1.50 or 1.60, the Unicode value for Alif is *02BC* (new value).

MARC-8 Export:

Although the MARC-8 value has not changed for the Alif, Connexion client 1.50 users must download a software patch to continue exporting the correct MARC-8 value in:

- Records from WorldCat online or from the WorldCat online save file
- Records saved in the local save file after the May 2006 Connexion host installation

The software patch will be available on the Connexion Client Known Problems page at [http://www.oclc.org/connexion/support/client\\_known\\_problems.htm](http://www.oclc.org/connexion/support/client_known_problems.htm).

Offline Validation:

In both Connexion client 1.50 and 1.60, records containing the Alif saved in the local save file before the May 2006 Connexion host installation will fail offline validation. Simply perform an online validation instead and the records will pass.

When searching, the Alif should be omitted and the space closed up.

OCLC will convert all existing identifiable Alif characters.

## Script small L

The Script Small L ( *ℓ* ) will now appear in OCLC-MARC output encoded in MARC-8 as hexadecimal value *CI* instead of the old value *BE*. UTF-8 output is unaffected by this change.

When searching, continue to substitute the letter L for the Script Small L.

## Conversion of existing records

To the extent that it is possible to safely identify those characters that have been previously used as substitutes for these newly defined characters, OCLC will convert existing data, where appropriate. OCLC users are encouraged to report necessary changes.

## 6 Additional Changes to OCLC-MARC Records

### Subfield changes

**Subfield ‡6 obsolete** Subfield ‡6 is obsolete in the bibliographic field below.

- 027 Standard Technical Report Number

**Subfield ‡6 valid** Subfield ‡6 is valid in the bibliographic fields below.

- 031 Musical Incipits Information
- 258 Philatelic Issue Date
- 648 Subject Added Entry-Chronological Term

### Character set changes

**Alif: display and export**

The Unicode value for the Extended Latin character Alif ( *ʾ* ) will change from *02BE* to *02BC*. All Connexion interfaces will correctly display the Alif. MARC-8 output is unaffected by this change.

Unicode Export:

- If you save a record to the local file in client 1.50 and use Unicode Export to export it from client 1.50 or 1.60, the Unicode value for Alif is *02BE* (old value).
- If you save a record to the local file in client 1.60 and use Unicode Export to export it from client 1.50 or 1.60, the Unicode value for Alif is *02BC* (new value).

MARC-8 Export:

Although the MARC-8 value has not changed for the Alif, Connexion client 1.50 users must download a software patch to continue exporting the correct MARC-8 value in:

- Records from WorldCat online or from the WorldCat online save file
- Records saved in the local save file after the May 2006 Connexion host installation

The software patch will be available on the Connexion Client Known Problems page at [http://www.oclc.org/connexion/support/client\\_known\\_problems.htm](http://www.oclc.org/connexion/support/client_known_problems.htm).

Offline Validation:

In both Connexion client 1.50 and 1.60, records containing the Alif saved in the local save file before the May 2006 Connexion host installation will fail offline validation. Simply perform an online validation instead and the records will pass.

**Script small L**

The Script Small L ( *ℓ* ) will now appear in OCLC-MARC output encoded in MARC-8 as hexadecimal value *CI* instead of the old value *BE*. UTF-8 output is unaffected by this change.

## 7 006 Template and Fixed Field Display Changes

### Typographic conventions

In the sections below on the fixed fields and field 006, the underscore ( \_ ) represents a blank ( ) and the pipe ( | ) represents the fill character.

New or obsolete elements are shaded, as below:

FMus:	u	LTxt:	n
Part:	_	TrAr:	_

### Connexion client

#### Field 006 - Score

New elements

Type:	c	Form:	_
Comp:	uu	Accm:	-----
FMus:	u	LTxt:	n
Part:	_	TrAr:	_
Audn:	_		

#### Field 006 - Sound Recording

New elements

Type:	i	Form:	_
Comp:	nn	Accm:	-----
FMus:	n	LTxt:	_
Part:	n	TrAr:	n
Audn:	_		

#### Field 006 -- Continuing Resources (formerly, Serial)

ISSN is now obsolete and no longer available.

Type:	s	EntW:	_
Freq:		Cont:	_
Regl:		GPub:	_
ISSN:	_	Conf:	_
SrTp:	_	Alph:	_
Orig:	_	S/L:	_
Form:	_		

**Fixed Field - Score**

New elements

Type:	c	ELvl:		Srce:	d	Audn:	_	Ctrl:	_	Lang:	
BLvl:	m	Form:	_	Comp:	uu	AccM:	_____	MRec:	_	Ctry:	
		Part:	_	TrAr:	_						
Desc:		FMus:	u	LTxt:	n	DtSt:		Dates:	,		

**Fixed Field - Sound Recording**

New elements

Type:	j	ELvl:		Srce:	d	Audn:	_	Ctrl:	_	Lang:	
BLvl:	m	Form:	_	Comp:	uu	AccM:	_____	MRec:	_	Ctry:	
		Part:	n	TrAr:	n						
Desc:		FMus:	n	LTxt:	_	DtSt:		Dates:	,		

**Fixed Field - Continuing Resources (formerly, Serial)**

ISSN is now obsolete and no longer available.

Type:	a	ELvl:		Srce:	d	GPub:	_	Ctrl:	_	Lang:	
BLvl:	s	Form:	_	Conf:	0	Freq:		MRec:	_	Ctry:	
S/L:	0	Orig:	_	EntW:	_	Regl:		ISSN:	_	Alph:	_
Desc:		SrTp:	_	Cont:	___	DtSt:	c	Dates:	,9999		

**Connexion browser****Field 006 - Score: Printed Music**

New elements

Comp:	uu	FMus:	u	Part:	_	Audn:	_
Form:	_	Accm:	_____	Ltxt:	n	TrAr:	_

**Field 006 - Score: Manuscript**

New elements

Comp:	uu	FMus:	u	Part:	_	Audn:	_
Form:	_	Accm:	_____	Ltxt:	n	TrAr:	_

**Field 006 - Sound Recording: Nonmusic Recording**

New elements

Comp:	nn	FMus:	n	Part:	n	Audn:	_
Form:	_	Accm:	_____	Ltxt:	_	TrAr:	n

**Field 006 - Sound Recording: Music Recording**

New elements

Comp: nn	FMus: n	Part: n	Audn: _
Form: _	Accm: _ _ _ _ _	Ltxt: _	TrAr: n

**Field 006 -- Continuing Resources (formerly, Serial)**

ISSN is now obsolete and no longer available.

Freq:	Regl:	ISSN: _	SrTp: _	Orig: _		
Form: _	EntW: _	Cont: _	GPub: _	Conf: 0	Alph: _	S/L: 0

**Fixed Field - Score**

New elements

Type: c	ELvl:	Srce: d	Audn: _	Ctrl: _	Lang:
BLvl: m	Form: _	Comp: uu	AccM: _ _ _ _ _	MRec: _	Ctry:
		Part: _	TrAr: _		
Desc:	FMus: u	LTxt: n	DtSt:	Dates:    ,	

**Fixed Field - Sound Recording**

New elements

Type: j	ELvl:	Srce: d	Audn: _	Ctrl: _	Lang:
BLvl: m	Form: _	Comp: uu	AccM: _ _ _ _ _	MRec: _	Ctry:
		Part: n	TrAr: n		
Desc:	FMus: n	LTxt: _	DtSt:	Dates:    ,	

**Fixed Field - Continuing Resources (formerly, Serial)**

ISSN is now obsolete and no longer available.

Type: a	ELvl:	Srce: d	GPub: _	Ctrl: _	Lang:
BLvl: s	Form: _	Conf: 0	Freq:	MRec: _	Ctry:
S/L: 0	Orig: _	EntW: _	Regl:	ISSN: _	Alph: _
Desc:	SrTp: _	Cont: _ _ _	DtSt: c	Dates:    ,	9999

## 8 Summary of Connexion Changes

### Differences among Connexion interfaces

This section lists differences among the Connexion browser (to be implemented May 2006), Connexion client 1.50 (to be discontinued as of October 1, 2006), and Connexion client 1.60 (to be released June 2006).

**To take full advantage of the new capabilities available in Connexion client 1.60 and to avoid the limitations of client 1.50, users are strongly encouraged to switch from 1.50 to 1.60 as soon as 1.60 is released in June 2006.**

### Client 1.60 and browser

#### Implementation dates

These changes will appear (or are already present) in the Connexion browser in May 2006 and in the client 1.60 upon its release in June 2006.

#### Record creation

To create new records for textual Serials and textual Integrating Resources, use the Continuing Resources (formerly Serials) workform. The same change also applies to the constant data workforms for textual Serials and textual Integrating Resources.

Use the 006 for Continuing Resources (formerly Serials) to create 006 fields for non-textual Serials and non-textual Integrating Resources.

#### Searching

New search limiters for Continuing Resources (*cnr*) and Integrating Resources (*int*) can be used both in command line searches and using dropdown lists.

- Continuing Resources retrieves both Serials and Integrating Resources.
- Serials and Integrating Resources can each be used as more specific limiters, each retrieving a different set of search results.

Search results for Integrating Resources:

- In brief record displays, records with Type *a* BLvl *i* will be identified with [INTEGRATING RESOURCE].
- In group displays, records with Type *a* BLvl *i* will appear under the heading “Textual Integrating Resources.”

#### ISSN

The ISSN fixed field element (ISSN) is removed from workforms. ISSN value will be converted to 022 subfield  $\sharp 2$  as the record is displayed, when appropriate.

#### Part and TrAr

New Music fixed field and 006 elements Part and TrAr will be present in workforms for Scores (default: blank) and Sound Recordings (default: n).

#### Musical Incipits phrase index

In the Connexion browser, the new phrase index (*mi=*) for Musical Incipits (field 031 subfield  $\sharp p$ ) will be available in the browse dialog and as a command line browse beginning in May 2006. In client 1.60, this index will not be available.

#### New characters

New characters are present, but do not currently pass validation. They will pass validation after the May Connexion host installation, but should not be used until announced in June 2006.



The Unicode value for the Extended Latin character Alif is changing from *02BE* to *02BC*. For all cataloging interfaces, the Alif will display correctly.

- If you save a record to the local file in client 1.50 and use Unicode Export to export it from client 1.50 or 1.60, the Unicode value for Alif is *02BE* (old value).
- If you save a record to the local file in client 1.60 and use Unicode Export to export it from client 1.50 or 1.60, the Unicode value for Alif is *02BC* (new value).

Offline Validation:

In both Connexion client 1.50 and 1.60, records containing the Alif saved in the local save file before the May 2006 Connexion host installation will fail offline validation. Simply perform an online validation instead and the records will pass.

## Client 1.50

### Implementation dates

These changes will appear (or are already present) in May 2006.

### Record creation

To create new records for textual Serials and textual Integrating Resources, continue to use the Serials workflow. The same also applies to the constant data workflows for textual Serials and textual Integrating Resources.

- Continue to use the Serials 006 for non-textual Serials and non-textual Integrating Resources.

### Searching

New search limiters for Continuing Resources (*cnr*) and Integrating Resources (*int*) can be used only in command line searches.

- In command line searches, *ser* will retrieve only (traditional) Serials, and will not include Integrating Resources; *int* will retrieve only textual Integrating Resources; *cnr* will retrieve all records in both the *ser* and *int* categories.
- When qualifying searches using the format dropdown list on the WorldCat Search dialog, “Serials” will retrieve only (traditional) Serials; neither Integrating Resources nor Continuing Resources is an option in the dropdown list.

Search results for Integrating Resources:

- In brief record displays, records with Type *a* BLvl *i* will be identified with [INTEGRATING RESOURCE].
- In group displays, records with Type *a* BLvl *i* will be grouped together, but the format heading “Textual Integrating Resources” will not be present in the display.

### BLvl

The dropdown list in the Bibliographic Level fixed field (BLvl) will not include the new code *i*. You may input the new code manually.

### ISSN

The ISSN fixed field (ISSN) will remain present in the workflow, but the only valid value will be blank (**␣**). Any existing ISSN value will be converted to 022 subfield **±2** as the record is displayed, when appropriate.

<b>Part and TrAr</b>	<p>Neither the Part nor the TrAr fixed field element will appear in the Music fixed field or 006 for Scores or Sound Recordings.</p> <ul style="list-style-type: none"> <li>• If a Replace is performed, any value in either position (including any value added in Connexion client 1.60 or Connexion browser) will be preserved in the WorldCat master record.</li> <li>• If an Export is performed, both positions will appear as blank (Ø) in the exported record.</li> <li>• If an Update is performed, any value in either position (including any value added in Connexion client 1.60 or Connexion browser) will be preserved in the archive record.</li> </ul>
<b>Relf</b>	<p>Code <i>h</i> will remain in the Relief fixed field (Relf) dropdown list, but records containing it will not pass validation.</p>
<b>Musical Incipits phrase index</b>	<p>The new phrase index (mi=) for Musical Incipits (field 031 subfield ‡p) will not be available.</p>
<b>Language codes</b>	<p>The dropdown list in the Language fixed field (Lang) will not include new or changed Language Codes. You may input the new codes manually.</p> <p>For searching, new and changed Language Codes will not appear in the Search WorldCat dropdown list, but can be used in command line searches.</p>
<b>Country codes</b>	<p>The dropdown list in Country fixed field (Ctry) will not include new or changed Country Codes. You may input the new codes manually.</p>
<b>New characters</b>	<p>New characters are already present in all relevant character entry tables, but do not currently pass validation. They will pass validation after the May Connexion host installation, but should not be used until they are announced in June 2006.</p> <ul style="list-style-type: none"> <li>• If you save a record to the local file in client 1.50 and use Unicode Export to export it from client 1.50 or 1.60, the Unicode value for Alif is <i>02BE</i> (old value).</li> <li>• If you save a record to the local file in client 1.60 and use Unicode Export to export it from client 1.50 or 1.60, the Unicode value for Alif is <i>02BC</i> (new value).</li> </ul> <p>MARC-8 Export:</p> <p>Although the MARC-8 value has not changed for the Alif, Connexion client 1.50 users must download a software patch to continue exporting the correct MARC-8 value in:</p> <ul style="list-style-type: none"> <li>• Records from WorldCat online or from the WorldCat online save file</li> <li>• Records saved in the local save file after the May 2006 Connexion host installation</li> </ul> <p>The software patch will be available on the Connexion Client Known Problems page at <a href="http://www.oclc.org/connexion/support/client_known_problems.htm">http://www.oclc.org/connexion/support/client_known_problems.htm</a>.</p> <p>Offline Validation:</p> <p>In both Connexion client 1.50 and 1.60, records containing the Alif saved in the local save file before the May 2006 Connexion host installation will fail offline validation. Simply perform an online validation instead and the records will pass.</p>

## Technical Bulletins Online

### Introduction

This section covers retrieving technical bulletins in electronic form.

### OCLC web site

To access technical bulletins on the OCLC Web site:

	Action
1	Type <i>http://ww.oclc.org/support/documentation/technicalbulletins/</i> in the address bar of your Web browser.
2	Click the name of the technical bulletin you want to view.

### Internet list

To subscribe to TECHBUL-L—a public list that e-mails an announcement of availability of new technical bulletins on the OCLC Web site:

Action
Type <i>https://ww3.oclc.org/oclc/app/listserv/</i> in the address bar of your Web browser. Click <b>Submit</b> after you complete the form.
Or
Type <b>subscribe techbul-l</b> in the body of an e-mail message and send it to <b>listserv@oclc.org</b> . To unsubscribe, type <i>unsubscribe techbul-l</i> in the body of an e-mail message, and send it to <b>listserv@oclc.org</b> or use the Internet List Request form.

### Comments

The OCLC Documentation Department welcomes comments about this document. Please send them via e-mail to **doc@oclc.org**.

## Current OCLC Technical Bulletins

List below is current as of June 2006. Technical Bulletins not listed are obsolete. Please discard them or mark them obsolete.

**Reminder:** Effective March 20, 2003, OCLC discontinued issuing printed copies of technical bulletins.

No.	Date	Title	OCLC Documentation Affected
252	0506	<i>OCLC-MARC Format Update 2006</i>	<i>Authorities User Guide, Bibliographic Formats and Standards, OCLC Input Standards Tables, OCLC-MARC Records, Searching WorldCat Indexes, Connexion browser and client help</i>
251R	0411	<i>Connexion WorldCat Searching</i>	Superseded by <i>Searching WorldCat Indexes</i>
250	0310	<i>Parallel Records</i>	<i>Bibliographic Formats and Standards, Enhance Training Outline</i>
249	0304	<i>OCLC-MARC Format Update 2003</i>	<i>Authorities User Guide, Bibliographic Formats and Standards, OCLC Input Standards Tables, OCLC-MARC Records, Searching WorldCat Indexes</i>
247	0211	<i>OCLC-MARC Format Update 2002</i>	<i>Bibliographic Formats and Standards, Cataloging Electronic Resources</i>
246	0207	<i>Database Enrichment</i>	<i>Bibliographic Formats and Standards</i>
244	0107	<i>OCLC-MARC Format Update 2001</i>	These technical bulletins are now obsolete. The relevant parts of these technical bulletins are now available in <a href="#">Bibliographic Formats and Standards</a> .
242	0104	<i>OCLC Symbol Expansion</i>	
241	0011	<i>National Library Control Number Changes</i>	
240	0008	<i>Pinyin Conversion Project</i>	