13-digit ISBNs in Unicorn

July 2006
Agenda

• ISBN 13 Background
• Related Unicorn Updates

• Affects Unicorn functionality

  1. Title Control No.
     – “Load Bibliographic Records” report (aka bibload) and SmartPort “match & load”
  2. Searching
     – (including “general” or “word/phrase” or “everything”)
  3. EDI and BISAC
  4. ISBN validation

• All changes discussed here are included in GL3.1
What are ISBNs for?

- **ISBN** stands for International Standard Book Number
  - Uniquely identifies each edition of published books.
- Created by the Book Industry Study Group (BISG)
- ISBNs are like catalog numbers for books
- ISBNs allow for ease of understanding between:
  - Booksellers
  - Schools/colleges
  - Wholesalers
  - Distributors
  - Libraries
Side-by-side comparison

ISBN-10: 1500789224

- Country code
- Publisher code
- Unique number
- Check digit

- Prefix: 978

- Same 9 digits

- Different calculation for each
- ISBN-10 check digit can be X; ISBN-13 check digit is never X
Why ISBN-13?

• The world is running out of 10 digit numbers!
• Question: So why not 11 digits?
• Answer: An opportunity to jump on the EAN bandwagon
• EAN: was European Article Number
• EAN: now International Article Number
• EAN is like the UPC
• ISBN-13 = Bookland EAN
Timeline for ISBN-13

• Transition period for now
  - 2005 and 2006

• Cutoff is January 1, 2007
  - Only ISBN-13 to be issued
  - 979 prefixes will eventually be used, not just 978
LC & OCLC

  020 __ 9781873671000  (ISBN-13 first)
  020 __ 1873671008   (ISBN-10 second)

- OCLC is putting ISBN-13 in 024 (indicator 1 = 3)
  020 __ 1873671008   (ISBN-10 in 020)
  024 3_ 9781873671000 (ISBN-13 in 024)

- For the latest on OCLC and ISBN-13 see:

- Ask your other MARC vendor(s) for their ISBN-13 practices & plans!
Why Should You Care?

Affects Unicorn functionality

1. Title Control No.
   - (Bibload report and SmartPort “match & load”)
2. Searching
   - (including “general” / “word/phrase” / “everything”)
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4. ISBN validation
Title Control Number lookup

- Search option in most WF wizards
Title Control Number match & update

- “Title control number source” in Bibload

In this example:
i = ISBN
s = ISSN
l (el) = LCCN
Title Control Number matching

- “Match & Load” in SmartPort

In this example:
- i = ISBN
- l (el) = LCCN
Title Control Number matching

• Title control number: long enough already (14)
  - Letter “i” + 13 digits

• GL3.1 will convert ISBN-10 Title Control Num to ISBN-13
  - 978 prefix is added “on the fly”
  - Check digit is recalculated

  - In both bibload and SmartPort (if using ISBN as match point)
  - If ISBN-10 is found in first (or only) 020
    • 978 prefix is added “on the fly”
    • Check digit is recalculated “on the fly”
  - Database is checked for Title Control Num match on ISBN-13 form
Title control is updated, not MARC data

- 020 and 024 tags are **NOT** altered
- Only the title control numbers that are built from ISBN-10 are converted
  - OCLC, LCCN, RLIN, etc. title control numbers are **NOT** altered
After upgrade to GL3.1, the ISBN-10 title control number was updated, but the MARC tag is untouched.
Why Should You Care?

Affects Unicorn functionality

1. Title Control No.
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3. EDI and BISAC

4. ISBN validation

• All changes discussed in this presentation are included in GL3.1, released in June 2006.
• Also available in a patch for GL3.0 as of July 2006.
ISBN-10: Indexing Twice in GL3.1

- Works from General or Word/Phrase search

- This enhancement works from dedicated ISBN search of the “020” index in WF or OPAC
Indexing ISBN-10 Twice

ISBN-10 in an 020 tag indexed twice
- Once “as is”
- Once with 978 prefix and ISBN-13 check digit

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FORM ^F1
COPY ^L1
COPY ^L1 ^H1 ^T5 ^B1
LANG ENG
HEAD ^G00141 ^G00142 ^G00261 ^G00262 ^G0043 ^G0044 376
SSU Prisons United States
T020 0912616296
T020 9780912616292
T100 McCuen, Gary E, ed UNAUTHORIZED
T245 America's prisons - correctional institutions |
   ry E. McCuen, editor.
T250 (New revised and extended ed )
```
ISBN-10: Indexing Twice

• After upgrade, works right away for newly added catalog records

• Works for any record that gets updated

• “Rebuild Text Database” required for retroactive effect
  - (records created prior to upgrade to GL3.1 or GL3.0 w/ patch, in other words)

• Rebuildtext not urgent. Run when convenient.
Bib record creation: 3 scenarios

- Two ISBNs in 020 tag
  - ISBN-13
  - ISBN-10

- One ISBN in 020 tag
  - ISBN-10

- One ISBN in 020 tag
  - ISBN-13
Bib record creation: ISBN scenario #1

- Import a record *new* bib record with:
  - ISBN-10 in the second 020: 1565924274

- Using ISBN as Title Control Num
- ISBN-13 (first 020) is used to create the Title Control Num: i9781565924277
- Both 020 tags are indexed
Bib record creation: ISBN scenario #2

- Import a record with just one 020
  - ISBN-10 format: 1416500359

- If ISBN is the Title Control Num source, then:
  - Unicorn GL3.1 & GL3.0 w/ patch will convert to ISBN-13 i9781416500353
  - Unicorn 2003.1 and earlier would not convert this: i1416500359

- In GL3.1, will be indexed as **both** ISBN-10 and ISBN-13

- Keyword searches for either form will succeed
  - Either 1416500359 or 9781416500353

- In earlier Unicorn versions, indexed as ISBN-10 **only**
Bib record creation: ISBN scenario #3

• Import a record with just one 020
  - ISBN-13 format: 9781565924666

• If using ISBN as Title Control Num source, then:
  - Title Control Num will be i9781565924666
  - Regardless of Unicorn version

• Keyword searching will work by the ISBN-13 form only
  NOT ISBN-10


• And, this is the intention of BISG

• And, 979 ISBN-13s can share 9 digits w/old ISBN-10
Bib record match-and-update

• Example: Bib with Title Control Num i9781500789224 already in Unicorn

• Import matching bib with 020 9781500789224
  - Will match at any Unicorn version!

• Import matching bib with 020 1500789220 (“matching” ISBN-10 form)
  - Will match if Unicorn version is GL3.1 or GL3.0 w/ patch
  - Will not match at any previous Unicorn version
Bib record match-and-update (part 2)

• Example: Bib with Title Control Num i1500789224 already in Unicorn

• Import matching bib with 020 9781500789220 (“matching” ISBN-13 form)
  - Will not match at Unicorn 2003.1 and earlier
  - At GL3.0, matches only w/ patch applied
  - Remember... GL3.1 upgrade and GL3.0 w/ patch converts ISBN-10 Title Control Nums to ISBN-13!
    (i500789224 >> i9781500789220)
  - So non-issue at GL3.1.
  - Why? ISBN-10 Title Control Num is already converted at those versions, so incoming record matches existing ISBN-13 Title Control Num
Why Should You Care?

Affects Unicorn functionality

1. Title Control No.
   - (Bibload report and SmartPort “match & load”)
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   - (including “general” / “word/phrase” / “everything”)
3. EDI and BISAC
4. ISBN validation

- All changes discussed in this presentation are included in GL3.1, released in June 2006.
- Also available in a patch for GL3.0 as of July 2006.
Unicorn EDI and ISBN-13

- Vendor’s EDI transmission may use ISBN-10 or ISBN-13
- If Unicorn EDI received only ISBN-10
  - Response has ISBN-10, “IB” qualifier
  - Response has ISBN-13, “EN” qualifier
- If Unicorn EDI received only ISBN-13
  - Response has ISBN-13 only, “EN” qualifier
- If Unicorn EDI received both, respond with both
  - ISBN-10 with "IB" qualifier
  - ISBN-13 with "EN" qualifier
- In both cases, IB (ISBN-10) is first
BISAC Purchase Order Notices Report

• BISG has decided not to support ISBN-13 in BISAC standard
• With no ISBN-10 being issued, BISAC transmissions no longer valid as of Jan 1, 2007
• Therefore Unicorn BISAC Purchase Order Notices Report is obsolete!
• Anyone still using BISAC should make plans to convert to EDI before Jan 1 2007!
Why Should You Care?

Affects Unicorn functionality

1. Title Control No.
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4. ISBN validation

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• Also available in a patch for GL3.0 as of July 2006.
Validation of ISBN-13

- ISBN-13 validation available in Unicorn GL3.1
ISBN validation and optional alert

- Order wizard properties shown here

Remember, it’s only an alert (an alert that can be turned off!) Despite alert, ISBN is saved as-is.
Here’s Why You Should Care

Affects Unicorn functionality

1. Title Control No.
   - Requires GL3.1 or GL3.0 w/ patch to guarantee that ISBN-10 in MARC data will match ISBN stored in Title Control Num

2. Searching

3. EDI and BISAC
   - BISAC cannot use ISBN-13, so invalid as of Jan 1, 2007

4. ISBN validation
   - ISBN-13 can be validated in GL3.1 and in GL3.0 w/ patch
Recommended Reading

- ISBN.org
  - http://www.isbn.org/toolkit.html
- BISG.org (Book Industry Study Group)
  - http://bisg.org/isbn-13/
- ISBN-13 For Dummies (no I’m not kidding!)
- BISG links to ISBN-13 calculator websites
  - http://www.loc.gov/catdir/cpso/13digit.html
Download

This presentation can be downloaded from http://www.sirsidynix.com/Solutions/techtalk_presentations/ISBN-13_webinar.ppt

(This link is also present at the bottom of the Unicorn Cataloging FAQ “Unicorn and the 13-digit ISBN”.)