

## ISBN-13 Support in Voyager®

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Effective 1 January 2007, the International Standard Book Number (ISBN) will be expanded from a 10-digit to a 13-digit number. The new ISBN will be one and the same with the European Article Number (EAN) currently represented as a barcode printed on most trade and paperback books.

The next software release of Voyager, tentatively planned for general release in early Q2 2006, will include ISBN-13 support, including new indexes and modifications to Electronic Data Interchange (EDI) messages necessary for 13-digit ISBN numbers. Following are details on each aspect of ISBN-13 support in Voyager.

### Indexing

The new 13-digit ISBN, as mentioned above, is one and the same with the EAN, which is currently stored in the MARC 024\$a field with a first indicator 3. The book industry uses 978 or 979 as prefixes for the EAN, so new 13-digit ISBNs will also begin with 978 or 979.

To ensure appropriate indexing, Voyager has been modified to contain a composite index containing both the 020\$a (home of the 10-digit ISBN) and the 024\$a (with first indicator 3), if the EAN begins with 978 or 979. This index updates the existing "ISBL" index.

In addition, to support the composite index, two single-field indexes have been created: an "ISBN-13 (024a)" index (index code 024I) and an "ISBN-13: Cancelled (024z)" index (index code 024Y). Both of these indexes use a new normalization rule that only indexes subfields with 13 digits and begin with "978" or "979". If parenthetical indicators appear after the ISBN-13, they will be ignored.

Note that Voyager **does not** normalize 10-digit ISBNs to 13-digit ISBNs as part of indexing.

### EDI

EDItEUR, the group responsible for standardizing EDI messages, published a series of recommendations for libraries and vendors as the library community moves to the 13-digit ISBN. Voyager has been modified in several ways to address this transition.

### General

1) The 10-digit ISBN is transmitted in the EDI message's PIA segment, while the 13-digit ISBN is expected to appear in the LIN segment. Since 13-digit ISBNs are ordinary EAN numbers, they are coded as EANs – not as ISBNs – in EDI messages.

2) During 2006, libraries and vendors anticipate using a combination of 10- and 13-digit ISBNs; even after 1 January 2007, it's unlikely that only 13-digit ISBNs will be used for every publication represented in an EDI message.

### Invoices

Voyager recognizes the ISBN-13 in the LIN element, qualified as an EAN, which looks like: LIN+5+9781234567890:EN. Invoices may have contained these LIN values in the past, since they are valid EANs at present.

When incoming EDI invoices are loaded, Voyager attempts to match invoice line items against existing Purchase Order (PO) line items using a variety of criteria. Voyager will continue to match the 10-digit ISBN in the PIA segment against the 020\$a index (at least until 2007); in addition, Voyager has been modified to attempt a match between the EAN found in the LIN segment of the EDI invoice and the 024\$a index.



### **Purchase Orders**

Through 2007, when Voyager generates purchase orders, the ISBN from the first 020\$a of the MARC record will be placed in the EDI PIA segment with an "IB" suffix. This is how previous versions of Voyager populated the PIA segment. After the library community fully shifts to ISBN-13, Endeavor may consider eliminating this procedure in favor of storing the 13-digit ISBN in the LIN segment as described below.

Note that only 10-digit ISBNs will be placed in the PIA segment to avoid possible confusion for vendors; if the 020\$a does not contain an ISBN with 10 digits, it will not be placed in the PIA segment. Instead, if the 020\$a contains a 13-digit ISBN that begins with either "978" or "979", Voyager will store that information in the LIN element as an EAN.

If no 020\$a is found in the MARC record, Voyager looks for and uses data in the 024\$a (first indicator 3), provided that the EAN begins with "978" or "979". This data is placed in the LIN segment, qualified as an EAN. Only the first 024\$a found will be placed in the LIN segment at this time.

### **Serial Claims and Claim Responses**

No changes have been made to the EDI processing for serials claims and claim responses, as these types of messages should not contain ISBN data.