

Primo VE and UNIMARC

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Abstract

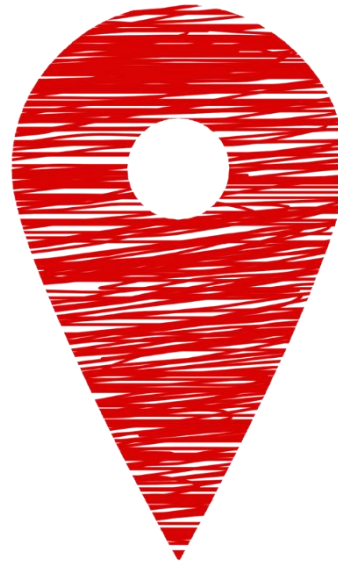
Since June 2018, some ITALE (*Italian Association of Ex-Libris Users*) institutions have been working on Primo VE implementation. The work focused mainly on UNIMARC and how Primo VE meets the needs of the standard.

This session illustrates the starting points, the improvements made by Ex-Libris, the issues still open

Agenda

Part one – ITALE

1. Background
 - National Italian Library System
 - ITALE
2. UNIMARC standard
3. ITALE «Primo VE and UNIMARC» report
4. Primo VE and UNIMARC critical points
 - OTB mapping
 - 4xx entry level block



Part two – Ex-Libris

1. UNIMARC Support in Primo VE
 - OTB Mapping
 - Localization
 - Browse
2. ITALE & Ex Libris Relationship - Primo VE Report
 - OTB Mapping vs. Localization
 - Relations Between Records
 - UNIMARCStatus – September 2020
 - Planned Activities

Background: SBN



The National Italian Library System (SBN):

- is the network of 6700 Italian libraries
- libraries grouped into 104 hubs
- hubs are linked to the SBN Central Index
- SBN Central Index is a shared catalogue

National Italian Library System (SBN)

- different library software system:
 - based on own cataloging procedures such as SBNWeb
 - based on UNIMARC such as Alma
- “common speech” is SBN MARC protocol
 - xml syntax
 - UNIMARC semantics

Background: ITALE



The Italian Association of Ex-Libris Users (ITALE) was officially established in September 1999.

Members:

- 34 Universities
- 1 Research Center
- 4 Public libraries
- 5 Special libraries

Working Groups:

- Alma
- Aleph/Alma & ILL-SBN
- Aleph/Alma & NILDE
- Cataloging standards, Aleph/Alma & SBN
- **Discovery tools**

ITALE and SBN

- ITALE cooperates with the National Italian library system (SBN) for the application of UNIMARC standards to the Italian Cataloguing Rules
- All the proposals related to UNIMARC formats are made in the UNIMARC National Committee
- ITALE "Cataloging standards, Aleph/Alma & SBN" Workin Group and **SBN MARC protocol** (release 2.02)

UNIMARC format



The primary purpose of UNIMARC is

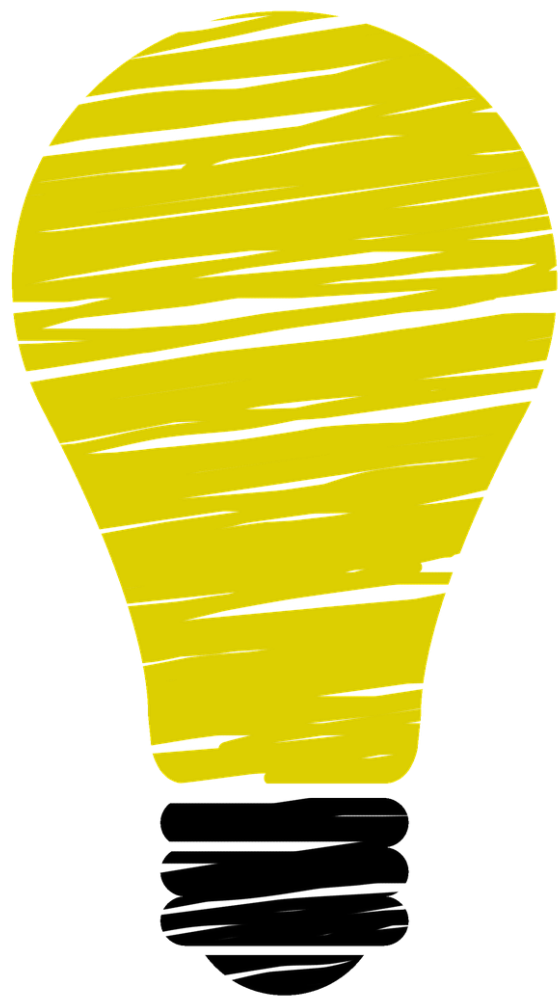
- *to facilitate the international exchange of bibliographic data in **machine-readable form** between national bibliographic agencies.*

The scope of UNIMARC is

- *to specify the content designators (tags, indicators and subfield identifiers) to be assigned to bibliographic records in **machine-readable form** and to specify the logical and physical format of the records*

UNIMARC is

- neither a kind of catalogue nor a method of cataloguing
- a short and convenient term for assigning labels to each part of a catalogue record so that it can be **handled by computers**
- an international MARC format which would accept records created in any MARC format
- maintained by the IFLA Permanent UNIMARC Committee



UNIMARC peculiarities

- 1) each record is a discrete entity
- 2) the fields are arranged in functional blocks
- 3) blocks organise data and punctuation according to ISBD
- 4) ISBD standard punctuation is automatically included
- 5) National «dialects»

- 6) SBN MARC protocol
- 7) use of «*Embedded fields technique*» in 4xx linking entry block

«Primo VE and UNIMARC» state of the art - Q2 2018

- 010 + 011 UNIMARC fields data reversed
- 200, 5xx UNIMARC fields: NO auto-complete for UNIMARC records
- 205 UNIMARC field (edition display field) NOT included in the OTB mapping

- 4xx linking entry block: relationship between records NO working
- 46x UNIMARC fields: hierarchical relationship (UP →DOWN) NO enabled
- 410, 225 UNIMARC fields: NO series search index

- 676 UNIMARC field (CDD display field) NOT included in the OTB mapping
- 7xx UNIMARC fields: NO Creator facet filter
- Creation Date facet field NO working

ITALE

«Primo VE and
UNIMARC»
report



A MARC advisory group should be established for the creation of drools normalization rules

- *Goal: to advise Ex Libris on the ideal OTB handling of standard MARC fields*
- *Why: many customers do extensive normalization customization on standard MARC fields to account for inadequacies in OTB rules. Leads to redundant work across customers.*
- *When: as soon as possible, before mass migration to Primo VE starts.*
- *Example: configuration for MARC field 382 (Medium of Performance) is not included in OTB at all*

- ELUNA/ IGeLU Primo Product Working, Primo VE Summit Report, March 22, 2019

«Primo VE and UNIMARC» timeline

June 2018 → Primo VE – UNIMARC “early adopter”

Q4 2018 → Alma [+ Primo VE] goes live at 3 ITALE institutions

August 2019 → IGELU Singapore Meeting and Ex-Libris Primo VE-UNIMARC support

November 2019 → the 68th ITALE members' Meeting approved the document

January 2020 → «Primo VE and UNIMARC» submitted to Ex-Libris

April 2020 → Ex-Libris + ITALE work in progress

«Primo VE and UNIMARC» structure 0

The problems still open have been divided into three priority levels:

- **priority 1, stopper**: the problem affects the use of Primo VE for the Italian installations
- **priority 2, high**: the problem requires a quick solution, but is not blocking
- **priority 3, normal**: the problem needs to be solved, but it is not blocking



suggested Ex-Libris workaround:

- ✓ use 9xx fields in bib record to create local fields in PrimoVE
- ✓ not compliant with SBN MARC protocol

«Primo VE and UNIMARC» structure 1

Priority 1, stopper:

1.1) 4xx linking entry block

1.2) features NOT active for UNIMARC bibliographic: auto-complete (\$ 200 a)

1.3) advanced search: missing index for series (225 \$a, 410 \$a)



This is «Primo VE and UNIMARC» state of the art - Q4 2019

«Primo VE and UNIMARC» structure 2

Priority 2, high:

2.1) lack of UNIMARC fields in OTB mapping (display / search fields)

2.2) refinement (facet fields): malfunctions

2.3) ordering of subfields

2.4) 9xx workaround malfunctions



This is «Primo VE and UNIMARC» state of the art - Q4 2019

«Primo VE and UNIMARC» structure 3

Priority 3, normal:

3.1) incorrect and / or incomplete display of data and / or punctuation

3.2) lack of UNIMARC subfields in OTB mapping (display fields)

3.3) features NOT active for bibliographic records in UNIMARC format: browse journals by category (UNIMARC 6xx fields)

3.4) malfunction of the "citation" functionality



This is «Primo VE and UNIMARC» state of the art - Q4 2019

Primo VE critical points

Out of the box (OTB) mapping

4xx linking entry block

Primo VE
critical point:
OTB mapping

There is an out-of-the-box mapping of UNIMARC tags for all Display, Search and Facet fields

This mapping is heavily coded and cannot be customized.

The current UNIMARC OTB mapping:

https://knowledge.exlibrisgroup.com/Primo/Product_Documentation/020Primo_VE/050Other_Configuration/Mapping_to_the_Display%2C_Facets%2C_and_Search_Sections_in_the_Primo_VE_Record#

OTB mapping

- 010/011 \$b
- 012 \$a, 9
- 4xx \$v
- 620 \$ a, d
- 676 \$a,c,v
- 7xx \$4



- Local display / search fields?
- OTB normalization rules customization?
- Addition in OTB mapping!

Primo VE
critical point:
4xx entry block

4 - - LINKING ENTRY BLOCK

STRUCTURE OF LINKING ENTRY FIELDS

This structure applies to all 4-- linking entry fields.

Definition and Scope of Fields

"The primary purpose of UNIMARC is to facilitate the international exchange of bibliographic data in machine-readable form between national bibliographic agencies. UNIMARC may also be used as a model for the development of new machine-readable bibliographic formats" — Purpose and Scope of UNIMARC.

It is therefore important that the UNIMARC format be hospitable to other MARC formats: otherwise conversion to and from UNIMARC is difficult or even impossible.

For this reason the **technique of embedded fields** has been supplemented by a **technique using standard subfields**. The structure of the agency's records will determine which system of linking entry fields is used.

Where there is a choice of system, the agency should weigh the advantages of the linking entry system, which allows fuller although more complex entries, against the advantages of the standard subfield system, which is easier to implement.

A statement that linking fields are present or absent together with a note of the type of contents in such linking fields, should be given in the documentation to accompany exchange records. For details, see Appendix K.

Within the Linking Entry Fields Section, both methods are described in the order: (A) embedded fields technique then (B) the standard subfields technique. All examples illustrate both methods.

Each linking entry field in a record will contain subfields that identify the item to which the link is being made. The data in this field should be sufficient to identify the record for the item being linked to, or, if there is no record, to identify the item itself.

In the following list the fields are labelled by the type of record **to which** the link is being made, e.g. 410

4xx linking entry block

Embedded fields technique

Standard subfields technique

EX 1A: Embedded fields technique

461 #0\$100177-10346\$12001#\$aCountries of Europe\$vol. 2

Field components: #0

\$1

001

77-10346

\$1

200

0#

\$a

Title

\$v

vol. 2

Indicators for field 461

Subfield identifier

Tag of embedded field

Data of 001 field

Subfield identifier

Tag of embedded field

Indicators of embedded 200 field

Subfield identifier for 200 field

Data of 200 field

Subfield identifier for 200 field

Data of 200 field

EX 1B: Standard subfields technique

461 #0\$077-10346\$0#\$aCountries of Europe\$vol. 2

- IFLA, UNIMARC Bibliographic, 3rd edition, update 2012

4xx linking entry block

Examples

EX 1: Embedded fields technique

200 1#\$aBuses in the East Midlands...

461 #1\$12001#\$aFleetbooks\$yno.7

Standard subfields technique

200 1#\$aBuses in the East Midlands...

461 #1\$1Fleetbooks\$yno.7

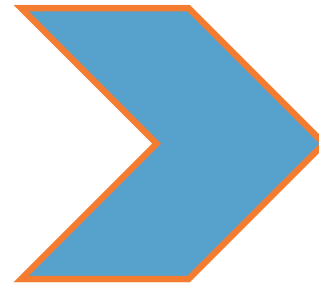
A monograph *Buses of the East Midlands* is part of a monograph series. Within the record of the monograph there is a field linking to the series entitled *Fleetbooks* which is represented by its title. This item is number 7 in the series. Note the use of subfield \$v in the embedded 200 field: although it is embedded in a reference to the monographic series, it is specific to the monograph.

4xx linking entry block

- Italy [ITALE + SBN MARC protocol] → embedded fields technique
- other UNIMARC “country” → standard subfields technique
- Ex-Libris OTB mapping → ONLY standard subfields technique

4xx linking entry block

Type ^v	Tag + Subfields ^v
main series	410 \$\$1 (control nr), \$\$t (title)
subseries	411 \$\$1 (control nr), \$\$t
original language	454 \$\$1 (control nr), \$\$ (title)
translation	453 \$\$1 (control nr), \$\$ (title)
supplement	421 \$\$1 (control nr), \$\$ (title)
supp_parent	422 \$\$1 (control nr), \$\$ (title)
contains	423 \$\$1 (control nr), \$\$ (title)
part_of	461, 463 \$\$1 (control nr), \$\$ (title)



Normalization rule for Related titles

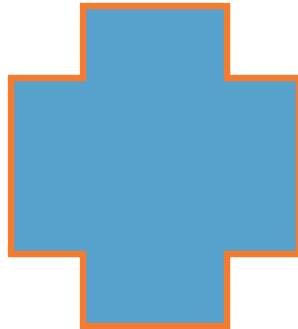
```
rule "Primo VE Display - Relation 461"  
  when  
    MARC is "461":t  
  then  
    set TEMP"1" to MARC "461":t  
    add prefix (TEMP"1";"$CPART_OF$V")  
    set TEMP"2" to MARC."461":t  
    remove substring using regex (TEMP"2";"(/:|:|=|,)+$")  
    add prefix (TEMP"2";"$Q")  
    remove substring using regex (TEMP"2";"^$$Q$")  
    concatenate with delimiter (TEMP"1",TEMP"2";"  
    set TEMP"3" to MARC."461" prima_x_relation "1"  
    concatenate with delimiter (TEMP"1",TEMP"3"; "  
      create pnx."display"."relation" with TEMP"1"  
  end
```

- Ex-libris OTB UNIMARC Display field mapping + default Primo VE norm rule

4xx linking entry block

Normalization rule for Related titles

```
rule "Primo VE Display - Relation 461"  
  when  
    MARC is "461".t  
  then  
    set TEMP"1" to MARC "461".t  
    add prefix (TEMP"1";$$CPART_OF$$V)  
    set TEMP"2" to MARC."461".t  
    remove substring using regex (TEMP"2";(/|:|;|=|,)+$")  
    add prefix (TEMP"2";$$Q)  
    remove substring using regex (TEMP"2";^$$Q$")  
    concatenate with delimiter (TEMP"1",TEMP"2";"  
    set TEMP"3" to MARC."461" prima_x_relation "1"  
    concatenate with delimiter (TEMP"1",TEMP"3";"  
      create pnx."display"."relation" with TEMP"1"  
end
```



Normalization rule for Related titles

```
rule "Primo VE Display - Relation 461 - Italy"  
  when  
    MARC."461" has any "a,e"  
  then  
    set TEMP"1" to MARC "461" subfields "a"  
    add prefix (TEMP"1";$$CPART_OF$$V)  
    set TEMP"2" to MARC."461" subfields "e"  
    concatenate with delimiter (TEMP"1",TEMP"2"; : "  
  
    set TEMP"3" to MARC "461" subfields "a"  
    set TEMP"4" to MARC."461" subfields "e"  
    concatenate with delimiter (TEMP"3",TEMP"4"; : "  
    remove substring using regex (TEMP"3";(/|:|;|=|,)+$")  
    add prefix (TEMP"3";$$Q)  
    remove substring using regex (TEMP"3";^$$Q$")  
    concatenate with delimiter (TEMP"1",TEMP"3";"  
    set TEMP"5" to MARC."461" prima_x_relation "1"  
    concatenate with delimiter (TEMP"1",TEMP"5"; "  
  
    create pnx."display"."relation" with TEMP"1"  
end
```

last considerations

UNIMARC is

- a well documented format
- born to facilitate the international exchange of bibliographic data
- it is not a set of local “dialects” or customs

BUT

- a lot of time and resources to get UNIMARC "translated" as part of discovery tools
- the clock of changes in the bibliographic data handling runs faster
- the needs of users (and librarians) change more rapidly





... and then?

- OTB mapping vs customization
- ITALE vs single customers
- “a [UNI]MARC advisory group should be established for the creation of drools normalization rules”?
- Discovery tools and linked data?
- Discovery tools and new data model for bibliographic description?

UNIMARC Support in Primo VE:



OTB Mapping



Localization



Browse

UNIMARC Support in Primo VE - OTB Mapping

- Display, Search and Facet

Out of the box mapping from UNIMARC bibliographic format for display of the records and ability to search and facet.

- Resource Types

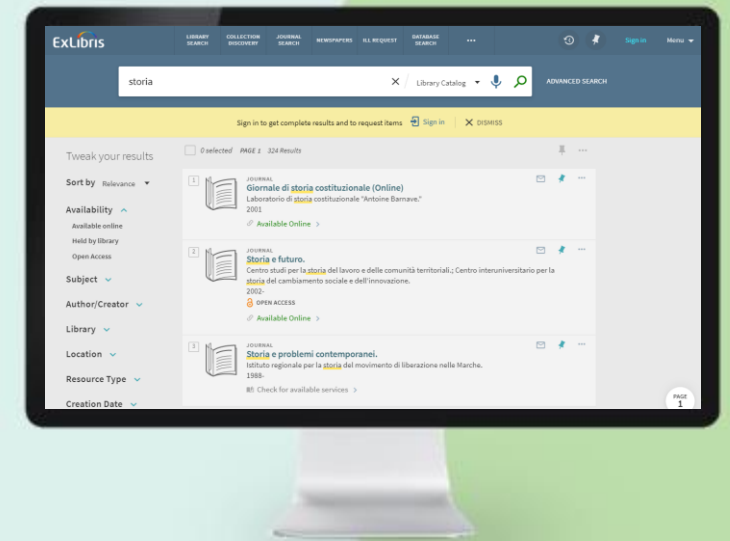
Mapping resource types from the UNIMARC bibliographic format.

- Displaying of Relationships Between Records

Displaying relationship between records in full display within Details and Get It sections.

- Dedup and FRBR Matching Algorithm

A Dedup and FRBR algorithm combines or groups redundant records in the brief results. The mechanism supports UNIMARC records.



UNIMARC Support in Primo VE - Localization

- Local fields

Allows customers to map additional information from bibliographic records to enrich the displayed information, extend search queries, and offer more facets to tweak the results.

There are 2 mapping methods:

- Bibliographic Local Field Mapping
- Normalization Rules

The screenshot shows the 'Define a Local Field' configuration interface. At the top, there are 'Back' and 'Save' buttons. Below that, the 'Field to edit' is set to 'local_field_12' and the 'Display label' is empty. The 'Local field details' section includes checkboxes for 'Enable field for search', 'Enable field for facet', and 'Use Translations'. There are also options to 'Use the parallel Local Field 01/50 from the Dublin Core record' and 'Use full text links for indexing'. Below this are sections for 'MARC21 Fields', 'MARC21 Normalization Rules', and 'UNIMARC Fields' (highlighted with a red box). The 'UNIMARC Fields' section shows 'No fields selected' and a '+ Add UNIMARC Fields' button. The 'UNIMARC Normalization Rules' section shows a table with one rule:

Normalization rule	Updated by	Updated date	
1 UNIMARC normalization rule for display	-	-	...

UNIMARC Support in Primo VE - Localization

- Refining OTB Display Fields

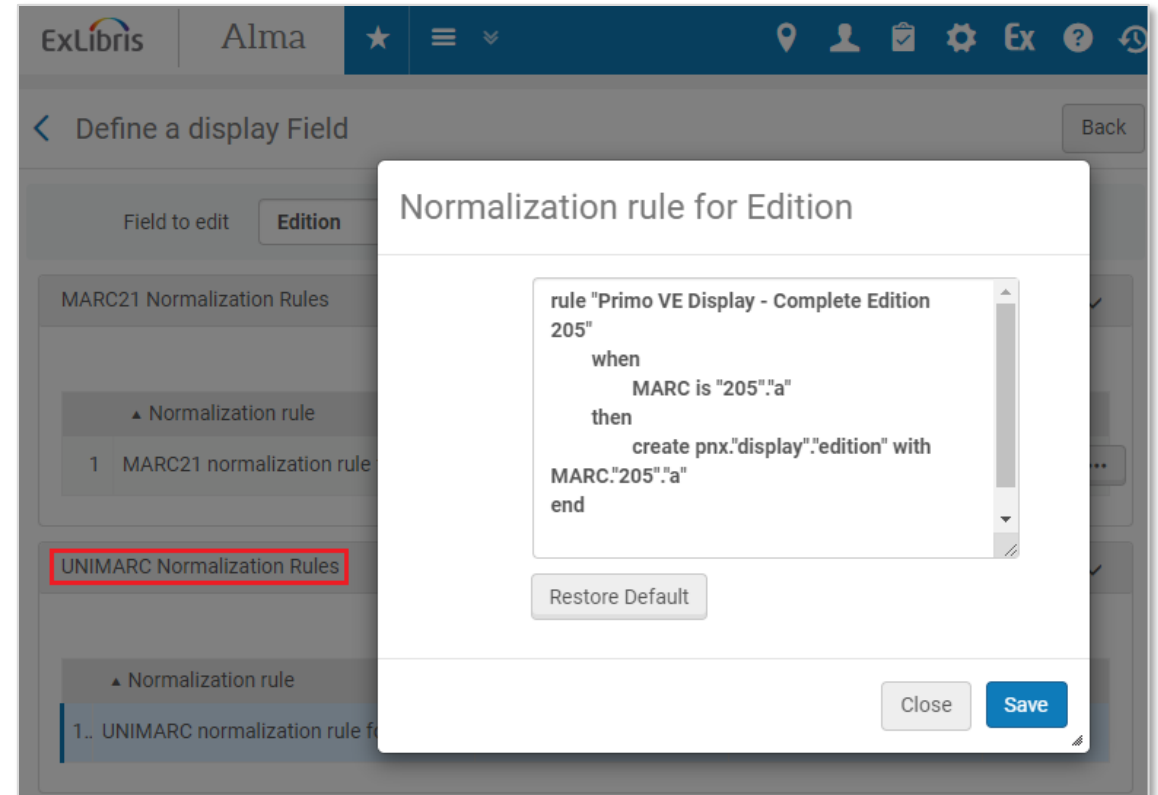
Alter the presentation of the OTB display fields, in case an OTB field needs to be modified to meet a customer need.

- Local Resource types

Allows customers to define their own special resource types for their unique materials.

- Thumbnail Configuration

Allows to configure local thumbnails which can be based on either a URL in the UNIMARC record or a template that contains parameters mapped from the UNIMARC record.



UNIMARC Support in Primo VE - Browse

- Browse Search and Virtual Shelf

Primo VE Utilizes the Alma browse functionality allows to:

- Browse bibliographic headings of the types: Author, Title, Series, and Subject
- Browse shelf listings with the various of the call numbers types.



The screenshot displays the Primo VE search interface. At the top, there is a navigation bar with tabs for LIBRARY SEARCH, COLLECTION DISCOVERY, JOURNAL SEARCH, NEWSPAPERS, ILL REQUEST, and DATABASE SEARCH. Below this is a search bar with a dropdown menu set to 'Browse by Title' and the search term 'storia'. To the right of the search bar are a clear button (X) and a search icon (magnifying glass). Below the search bar, a table lists the search results.

STORI Telling	1 record
Storia costituzionale	1 record
Storia dei Musulmani di Sicilia /	1 record
Storia dei nuovi scritti inediti di Gaspare Gozzi e Giacomo Leopardi /	1 record

ITALE & Ex Libris Relationship

Primo VE Report

ITALE Submitted a Report to Ex Libris

- Informative and thorough report summarizing the UNIMARC issues. Organized by priority.

Ex Libris Analysis

Ex Libris analyzed the issues to decide the appropriate solution:

- A fix/ adjustment of the current functionality
- Use customization options (modify OTB fields, using local fields)
- Completion of knowledge gap: normalization rules and local fields
- Ask for more information for unclear issues

Ex Libris Response

- Ex Libris created a response to the report, describing the solution for every issue

Review Meeting

- ITALE and Ex Libris have reviewed the solutions and resolution date in a joint meeting

Fixes/ Adjustments Release

- Ex Libris released most of the fixes

*The solutions taking into account all UNIMARC customers

OTB Mapping vs. Localization

PRIMO VE OTB MAPPING

- Default mapping has large set of fields commonly used by the customers.
- An option to modify OTB display fields

VS

PRIMO VE LOCAL FIELDS

- For library's unique materials and metadata
- Normalize ANY field from the bibliographic records for display, search and facet.
- No need to copy 9XX fields for local fields!
- [Local fields and normalization rules](#) session was provided to ITALE group members.

Requested fields that commonly used by UNIMARC institutions, will be added to the OTB UNIMARC mapping to avoid redundant work

OTB Mapping

Adjustments

Order of Subfields

- Display order of subfield as cataloged in the bibliographic record.
- New commands to support the order of subfields AND display the punctuations

```
rule "Primo VE Display title 200"
  when
    MARC "200" has any "a,b,c,d,e,f,g,h,i,v"
  then
    set TEMP"1" to MARC."200" sub without sort "a,b,c,d,e,f,g,h,i,v" wrap subfields
    replace wrapping delimiters (TEMP"1","a"," ; ","")
    replace wrapping delimiters (TEMP"1","b"," [",""]")
    replace wrapping delimiters (TEMP"1","c",". ","")
    replace wrapping delimiters (TEMP"1","d"," = ","")
    replace wrapping delimiters (TEMP"1","e"," : ","")
    replace wrapping delimiters (TEMP"1","f"," / ","")
    replace wrapping delimiters (TEMP"1","g"," ; ","")
    ...
```

- Fix in 2 stages:
 - 200, 210 fields – July 2020
 - 7XX and 606 – September 2020

Relations Between Records

UNIMARC linking fields are used to build the relations between the records in Alma.
Primo VE uses those relations for discovery needs:

DETAILS SECTION

- The relations and their types are presented as hypertext linking, providing the users the ability to find the related records

Details	
Title	Il letterato e le istituzioni / [scritti di Alberto Asor Rosa, Aurelio Roncaglia et al.]
Creator	Asor Rosa, Alberto > Roncaglia, Aurelio >
Publisher	Torino : Einaudi 1982
Format	XXII, 1975 p., [16] c. di tav. a colori, 1 carta 33x26 cm. ripiegata a 19,50x13,50 cm. ; 21 cm.
Related titles	Part of : Letteratura italiana >
DDC	850.9 >
Language	Italian
Identifier	ISBN : 88-06-05475-9

GET IT SECTION

- The availability of the related records is displayed as part of the Get it section

Get It	
Please sign in to check if there are any request options. Sign in	
LOCATIONS ▼	
Umanistica Balbisei Available , Prestabile ; Cons.Lett.105/1	📍 LOCATE >
LOCATIONS FOR RELATED TITLES	
Sede Sc.Politiche ↳ RELATED TITLE: Letteratura italiana / [direzione Alberto Asor Rosa] Available , Solo consultazione ; 850.9 LET	📍 LOCATE >

Relations Between Records

Direct Link Between Related Records

- Creating direct links from lower to upper records, like child to parent or succeeds to precedes.

Details	
Title	Il letterato e le istituzioni / [scritti di Alberto Asor Rosa, Aurelio Roncaglia et al.]
Creator	Asor Rosa, Alberto > Roncaglia, Aurelio >
Publisher	Torino : Einaudi 1982
Format	XXII, 1975 p., [16] c. di tav. a colori, 1 carta 33x26 cm. ripiegata a 19,50x13,50 cm. ; 21 cm.
Related titles	PART_OF: Letteratura italiana >
DDC	850.9 >
Identifier	ISBN: 88-06-05475-9
Language	Italian

	<p>BOOK</p> <p>Letteratura italiana / [direzione Alberto Asor Rosa]</p> <p>Asor Rosa, Alberto</p> <p>Torino : Einaudi, 1982-2000</p> <p> Available at Sede Sc.Politiche Solo consultazione (850.9 LET) and other locations ></p>
---	---

- Primo VE creates the relations based on the bibliographic metadata and the Alma relations table.

```
461 #1$1001000153128 $12001 $aLetteratura italiana $v1
```

Relations Between Records

Filtering of Record's Items in GetIt

- Items of related records are filtered in Get It when a specific issue, part, or page is specified for the record.

The screenshot shows the 'LOCATION ITEMS' section for a record. At the top, there is a link '< BACK TO LOCATIONS'. Below it, the text 'LOCATION ITEMS' is displayed. The record is identified as 'Main Library' with a 'RELATED TITLE: Psychiatrie française'. The status is 'Available, Stacks 234' and the date range is 'from:22 1991 until:38 2007'. A list of items is shown below, with the first item being 'Item in place (0 requests) v.38:no.1(2007)'. This item is 'Loanable' and has a 'Material Type: Issue' and 'Location: Main Library Stacks 234'. The 'Barcode: A15055' is highlighted with a red box.

- The filtering of the related record's items is based on the BIB record:

```
461    ##$tPsychiatrie française $x0755-9755 $1001(PPN)039663124 $vno:A15055
```

UNIMARC Status - September 2020

Priority 1, stopper:

1.1) 4xx linking entry block

1.1.1) Number of UNIMARC 4xx fields displayed → released, August 2020

1.1.2) No exact-linking between records (only for SBN MARC) → will be released, November 2020

1.2) Features NOT active for UNIMARC bibliographic: auto-complete → released, March 2020

1.3) Missing index for series (410 \$a) → local fields, consider adding to OTB mapping

Check [Release Notes](#) for more information

UNIMARC Status - September 2020

Priority 2, high:

- 2.1) Lack of UNIMARC fields in OTB mapping → local fields, consider adding to OTB mapping
- 2.2) Refinement (facet fields): malfunctions → released, August 2020
- 2.3) Ordering of subfields → released, August 2020
- 2.4) 9xx workaround malfunctions → solved

UNIMARC Status - September 2020

Priority 3, normal:

- 3.1) Incorrect and / or incomplete display of data and / or punctuation → released, September 2020
- 3.2) Lack of UNIMARC subfields in OTB mapping (display fields)
 - 3.2.1) fields 010 and 011 – add subfield \$\$b to the display → customization
 - 3.2.2) 4xx fields – add subfield \$\$v to the display → customization, change the OTB planned in Q4 2020
 - 3.2.3) fields 7xx – convert \$\$4 relator code to a description → will be released, Q4 2020
- 3.3) Features NOT active : browse journals by category →
Journals usually are activated from the Community Zone and they have categories. For journals cataloged locally in UNIMARC format, working with ITALE group to define the relevant field for categories.
- 3.4) Malfunction of the "citation" functionality → released, July 2020

ITALE & Ex Libris Relationship

Planned Activities

Remaining Fixes/ Adjustments

- Follow up remaining fixes in the next few releases

UNIMARC is well supported!

- Continue discussion with ITALE group to verify UNIMARC institutions have all the required tools.

References:

[website last check: 2020/08/20]

- IFLA (2008). *UNIMARC Bibliographic, 3rd edition (with updates)*. <<https://www.ifla.org/node/8415?og=33>>
- ITALE Discovery Tool Working Group (2020). *Primo VE e UNIMARC*. <<http://doi.org/10.5281/zenodo.39281633>>
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