

How to Create Links Between BIB Records

Version 21



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TABLE OF CONTENTS

ALEPH LINKS	4
1. LKR LINKS	4
2. USMARC LINKS - DEVELOPED FOR IDS (SWITZERLAND)	11
3. UNIMARC LINKS DEVELOPED FOR LABT (LITHUANIA)	13
4. UNIMARC LINKS DEVELOPED FOR ITALY	22
5. MAB LINKS	25

ALEPH Links

The ALEPH integrated library system holds information in different types of records and different types of "libraries". A standard system has a BIB library, for storing bibliographic data, and an ADM library, for storing administrative data. The total picture of a record is dependent on links between the records. Many links are system generated (e.g., links of copies to a bibliographic record), other links can be user generated (e.g., links between two bibliographic records and/or a bibliographic record and items that belong to another bibliographic record).

Links between records are held in the **Z103** table. The types of links that are active for a library are defined in the library's **/tab/tab_z103 file**.

This document does not include information on links between bibliographic headings and authority records, which are based on a different linking mechanism.

Links in ALEPH are based on six different "link" types and procedures/programs:

1. LKR link

Based on ALEPH LKR field (/tab/tab_z103: update_z103_lkr, update_z103_lkr_extended)

- 2. USMARC link Based on USMARC linking fields (/tab/tab_z103: update_z103_ids)
- 3. UNI_2 link Based on UNIMARC linking fields (/tab/tab_z103: update_z103_uni_2)
- 4. UNI link Based on UNIMARC linking fields (/tab/tab_z103: update_z103_uni)
- 5. MAB link Based on MAB linking fields (/tab/tab_z103: update_z103_mab)
- 6. **DAN link** Based on Danish linking fields (/tab/tab_z103: update_z103_dan)

The links are created either:

- Per record, as part of record indexing through the pc_server (when a record is created or updated), or
- Using the b_manage_12 procedure. The procedure should be run first on the "satellite" libraries (HOL and ADM library types), and then on the BIB library.

1. LKR links

There are two types of LKR links: system generated and user generated LKR fields. This is defined in the library's /tab/tab_z103 as update_z103_lkr or update_z103_lkr_extended. The two programs have similar behavior. The difference is that **update_z103_lkr_extended** handles also the additional item filters (see below).

1. System generated LKR fields

In the cataloging module, a cataloging record is created when the cataloger opens a holdings (HOL) or administrative (ADM) record for the bibliographic (BIB) record. This record automatically includes an LKR field, in which sub-field **\$\$a** is set as HOL or ADM.

2. User generated LKR fields

In the cataloging module an LKR field can be added to a BIB record in order to link between two bibliographic records or between a bibliographic record and items that belong to another bibliographic record. The LKR field is cataloged in one of the records; the system will automatically create the other side of the link.

Since the HOL and ADM links are usually system generated, they are not included in this document.

The LKR Field Structure

The structure of the LKR field is as follows:

\$\$a <type of link>

The types of links are: UP, DN, PAR, ANA, ITM, HOL, ADM

UP

Creates an up link from the record that has the LKR field to the record to which it is linked, and a down link from the linked record back to the record with the LKR field.

DN

Creates a down link from the record that has the LKR field to the record to which it is linked, and an up link from the linked record back to the record with the LKR field.

Note: Since the title being cataloged is usually the lower-level, UP will usually be used to define the link.

PAR

Creates a parallel (reciprocal) link from both sides.

Based on the LKR field cataloged in a record, the update_z103_lkr routine sets a reciprocal link between the record and a corresponding one. To configure this, set up the following routine in the library's /tab/tab_z103 table:

In order to prevent the automatic creation of a reciprocal PAR link, set the routine in the library's /tab/tab_z103 table with the lway-par parameter. For example:

This setup prevents the creation of a reciprocal link so that Z103 is not created from the corresponding record. The link is one-way – from the current record to the corresponding record – but not vice-versa.

ITM

Creates a link between a bibliographic record and the items of another bibliographic record.

For this link the item filter fields must be used. These are sub-fields y, v, p and i. Note that the system number must be the ADM system number and you must enter the name of the ADM library.

ANA

Creates both ITM and UP-DN type links. In other words, it creates a link between the two bibliographic records and to the item/s.

Note: **\$\$b** should be the BIBliographic system number (unlike the ITM type link).

HOL

Creates links between bibliographic and holdings records. These are usually a system generated record and an LKR field.

ADM

Creates links between bibliographic and administrative records. These are usually a system-generated record and an LKR field.

- **\$\$b** The system number of the linked record
- **\$\$1** Library (This field is not mandatory. The default is the current library.)
- **\$\$m** Text that is displayed when the "up" link is displayed. If the LKR type is UP, this is usually the title of the record to which the link is being made. If the LKR type is DN, this is usually the title of the record in hand. This field is not used for ANA type links. Note that this field is also used to determine the sort display of down (DN) links.
- **\$\$n** Text that is displayed when the "down" link is displayed. If the LKR type is UP, this is usually the title of the record in hand. If the LKR type is DN, this is usually the title of the record to which the link is being made. This field is not used for ANA type links.
- **\$\$r** MARC tag (reason for link).

The captions for each type of **\$\$r** can be defined in **tab05** (in the tab directory of the library). This field is not used for ITM type links.

\$\$s Sort sequence; can be alphanumeric. Example: *1,2,3*... or *a,b,c*...

Filter for link to item:

- **\$\$y** Year used only for link to item of type ISSUE
- **\$\$v** Volume
- **\$\$p** Part
- \$\$i Issue used only for link to item of type ISSUE

Additional filters for link to item:

- \$\$d Fourth level of enumeration
- \$\$e Fifth level of enumeration
- \$\$f Sixth level of enumeration
- \$\$g Alternative first level of enumeration
- \$\$h Alternative second level of enumeration
- \$\$j Second level of chronology
- \$\$w Third level of chronology
- \$\$0 Forth level of chronology
- \$\$q Alternative chronology.

In order for the additional filters to be applicable:

- Z103X table must be defined in all relevant libraries (BIB and ADM).
- Update_z103_lkr_extended program must be configured in tab_z103.
- Run manage-12 in order to re-create the links.

Using sub-field **r** the system will create a caption to display before **\$\$n** and **\$\$m**, according to definitions in the library's **/tab/tab05** list. The following example of **tab05** is based on USMARC links:

Tag		caption for \$\$n	caption for \$\$m
-	760	Main series:	Subseries of:
	762	Has subseries:	Main series:
	765	Translation of:	Translated as:
	767	Translated as:	Translation of:
	770	Has supplement:	Supplement to:
	772	Supplement to:	Has supplement:
	773	In:	
	775	Other edition available	ble: Other edition available:
	776	Available in other for	orm: Available in other form:
	777	Issued with:	Issued with:
	78000^{1}	Continues	Continued by
	78001	Continues in part	Continued in part by
	78002	Supercedes	Superceded by
	78003	Supercedes in part	Superceded in part by
	78005	Absorbed:	Absorbed by
	78006	Absorbed in part:	Absorbed in part by
	78500	Continued by	Continues:
	78501	Continued in part by	Continues in part:
	78502	Superceded by	Supersedes:
	78503	Superceded in part b	by Supersedes in part:
	78504	Absorbed by	Absorbs:
	78505	Absorbed in part by	Absorbs in part
	787^{2}		

Examples:

1. PAR Type Link Between Two Bibliographic Records

Record 1: SYS 10901 245 \$\$aHistory of the world Record 2: SYS 20309 245 \$\$aHistory of the world 250 \$\$a2nd ed. \$\$aPAR LKR \$\$b10901 \$\$r775 \$\$nHistory of the world (1st edition) \$\$mHistory of the world (2nd edition)

The second record is a newer edition of the first.

¹780 and 785 have additional types but they are too complex and must be entered manually in \$\$n and 2 USMARC does not define a caption. Every user will probably decide for himself.

2. ITM Link To Record With Items Of Type BOOK

Record 1: SYS 706 245 \$\$aHistory of Ancient cities Record 2: SYS 707 245 \$\$aAthens LKR \$\$aITM \$\$b706 \$\$r773 \$\$nHistory of Ancient cities \$\$mAthens \$\$v1

The second record is the first volume of the first record. All items are created and managed under the first record.

3. ANA Link To Record With Items Of Type ISSUE

Record 1: SYS 809 245 \$\$aAnnals of the Chemical society the items belong to ADM sysno. 780 Record 2:

SYS 1002 245 \$\$aChemistry and the medical world LKR \$\$aANA \$\$b780 \$\$IUSM01 \$\$y1998 \$\$v38 \$\$i3

The second record is in issue 3 of volume 38 of the Annals of the Chemical Society. The first record manages all items. There is a DN link from the first record to the second , and an UP link from the second record to the first.

4. ITM Link To Record With Items Of Type ISSUE

This example uses the same records but creates a link to the item only.

Record 1: SYS 809 245 \$\$aAnnals of the Chemical society Record 2: SYS 1002 245 \$\$aChemistry and the medical world LKR \$\$aITM \$\$b809 \$\$r773 \$\$nAnnals of the Chemical society \$\$mChemistry and the medical world \$\$y1998 \$\$v38 \$\$i3

The second record is in issue 3 of volume 38 of the Annals of the Chemical society. The first record manages all items.

2. USMARC LINKS - developed for IDS (Switzerland)

Special links between BIBliographic records, using standard USMARC fields, have been developed for IDS (Switzerland). The **Z103** record is directly created, without an LKR field. Creation of the **Z103** record depends on the presence of the ALEPH system number to which the record is linked in the sub-field **\$\$w** in the linking field of the bibliographic record. This is defined in the library's **/tab/tab_z103** as **update_z103_ids**.

The content of the **Z103** record for each USMARC linking field is described below.

Tag 490

z103_lkr_type	UP
lkr_library	same base
lkr_doc_number	content of 490 \$w, with leading zeroes added
z103_lkr_text_n	content of 490 \$a
z103_lkr_text_m	content of 490 \$v, followed by ": ", followed by content
	of 245 \$a
z103_sort	content of 490 \$i

If 490 has \$\$9=N, then **Z103** with an UP link is built; if 490 has \$\$9=Y, or no \$\$9, then two **Z103** records are built, UP and DN.

Tag 772

z103_lkr_type	PAR
lkr_library	same base
lk_doc_number	content of 772 \$w, with leading zeroes added
z103_lkr_text_n	content of 772 \$t
z103_lkr_text_m	content of 245 \$a \$n \$p

Tag 780 + second indicator 0, 1 or 5:

z103_lkr_type	PAR
lkr_library	same base
lkr_doc_number	content of 780 \$w, with leading zeroes added
z103_lkr_text_n	content of 780 \$t
z103_lkr_text_m	content of 245 \$a \$n \$p

Tag 773 + second indicator A

z103_lkr_type	ANA
lkr_library	same base
lkr_doc_number	content of 773 \$w, with leading zeroes added
z103_lkr_text_n	content of 773 \$t
z103_lkr_text_m	content of 773 \$g, followed by ": ", followed by content
	of 245 \$a
lkr_year	content of 773 \$1

lkr_volume	content of 773 \$2
lkr_part	content of 773 \$3
lkr_issue_number	content of 773 \$4

Tag 773 + second indicator U

z103_lkr_type	UP
lkr_library	same base
lkr_doc_number	content of 773 \$w, with leading zeroes added
z103_lkr_text_n	content of 773 \$t
z103_lkr_text_m	content of 773 \$g, followed by ": ", followed by content
	of 245 \$a
z103_sort	content of 773 \$j

3. UNIMARC LINKS developed for LABT (Lithuania)

Links between BIBliographic records, using standard UNIMARC fields have been developed for LABT (Lithuania). The **Z103** record is directly created, without an LKR field. Creation of the **Z103** record depends on position 9 in the LDR field (where "1" indicates that the record is a "father" record, and "2" indicates that the record is a "son" record), and on the presence of the ALEPH system number to which the record is linked in sub-field **\$1** of the linking field in the bibliographic record. This is defined in the library's **/tab/tab_z103** as **update_z103_uni_2**.

The content of the **Z103** record for each UNIMARC linking field is described below.

Linking fields and link type

461##UP DN 410##UP DN 462##UP DN 463##UP DN 421##PAR 422##PAR 423##PAR 430##PAR 431##PAR 432 ##PAR 433 ##PAR 434 ##PAR 435 ##PAR 440##PAR 441##PAR 442##PAR 443##PAR 444##PAR 445##PAR 448##PAR 451##PAR 452##PAR 453##PAR 454##PAR 455##PAR 456##PAR 470##PAR 481##PAR 482##PAR 488##PAR

The system creates an UP link from the "son" record to the "father" record, using the data entered in the "son" record. This also generates a DN (down) link from "father" to "son". The system creates PAR (parallel) links between records, in both directions. The linking field is only present in one side.

The captions for the links between records are taken from **tab05**. The caption from "son" to "father" (UP link) is determined by data from the "father" record.

The caption from "father" to "son" (DN link) is created automatically.

Example

UP-DOWN

Series "Moon and Sun" - "father" record. Novel "Moon, Book1" - "son" record.

The ALEPH System number of the "father" record is entered in sub-field **\$\$1** of the **4XX** linking field in the "son" record .

Although the UNIMARC standard requires defining "200\$\$a" in the linking field, this is not necessary, since ALEPH uses 200\$\$a as the link text. The fields "500\$\$a" and "5300#" should be used for additional information in the linking field. Field 4XX \$\$1 is repeatable.

The "father" record has the following fields:

LDR nam1 001## 1234567 2001# \$\$a Moon and Sun

The "son" record has the following fields:

LDR nam2 001## 2001# \$\$a Moon, Book 1 4XX## \$\$1 0011234567

Rules – ALEPH actions when linking

Position 9 in LDR defines the type of link:

- 0 link is not created (cataloged only)
- 1 link is created (defined in "father" record)
- 2 link is created (defined in "son" record)

The system checks only LDR1 against LDR2 for matches. If the LDR/9 = 0, the **4xx** linking field includes only the field text. It does NOT include the ALEPH system number, and no **Z103** link is generated.

4xx - Indicators in the linking fields (block 4XX)

The first indicator is not defined. The second indicator is 0 or 1

4XX#0 - if the second indicator is '0', the 'Linking Note' field will not be displayed in the GUI/WEB OPAC.

4XX#1 – if the second indicator is '1', the 'Linking Note' field will be created automatically by the system for the GUI/WEB OPAC.

Expand 4XX#1 \$\$1 to 311## \$\$a ('Linking Note')

If the second indicator in 4XX is '0', 311## \$\$a will not be displayed automatically in the GUI/WEB OPAC. Therefore, 311## \$\$a should be cataloged manually. 4XX#0 \$\$1 will include only the System number of the linked record.

If the second indicator in 4XX is '1', 311## \$\$a will be automatically created by the system.

In order to have the system automatically create 311## \$\$a, catalog the records with either:

In 4XX#1 \$\$1 <nested field/s>

or

In 4XX#1 \$\$1 <nested field/s and the System number of the linked record>

If the 4XX field includes the system number of the linked record, the system generates UP/DOWN links and a 311 field. If the 4XX field does not include the system number of the linked record, only a 311 field is generated.

311## \$\$a is built from the content of the nested fields which are registered in 4XX#1 \$\$1.

Example:

4XX#1 \$\$1 2001 \$\$d \$\$c \$\$g \$\$f **\$\$v** \$\$1 500\$\$a \$\$1 700\$\$a \$\$b \$\$g \$\$1 210\$\$a \$\$c \$\$d

311## \$\$a is displayed in the Full + Link, Catalog Card and MARC Tags formats in GUI / WEB OPAC.

Captions for 311## \$\$a are taken from **tab05** (col. 2) and are identical to the captions of the linking fields block 4XX.

The program which creates the 'Linking Note' 311## \$\$a field is **expand_doc_bib_uni_311.cbl**

Display of the 311## \$\$a field depends on the setup of the following tables:

- tab_expand
- edit_field.lng
- edit_doc_999.lng
- tab01.lng

Example 1

LDR	nam	0
001		
2001#		\$\$a History of art
454#1		\$\$1 500\$\$aGrand Meaulnes
		\$\$1 700\$\$aAlain-Fournier \$\$f1886-1914
		\$\$1 210\$\$aParis \$\$cEmile-Paul \$\$d1913

In GUI / WEB OPAC the above displays as:TitleHistory of artLinking NoteTranslation of: Le Grand Meaulnes. Paris: Emile-Paul, 1913

Note 1: Link is not created because position 9 of the LDR=0 Note 2: 'Translation of' is a caption for the linking field 454, and has been taken from tab05 (col. 2). Note 3: Link is not created because the System ID is not registered in 4XX \$\$1

Example 2

LDR	nam	1
001		
2001#		\$\$a Romance and chronicle
461#1		\$\$1001System Number of the linked record
		\$\$1 500\$\$aStudy of Malorase prose
		\$\$1 700\$\$aBronshtein Moshe

In GUI / WEB OPA	AC the above displays as:
Title	Romance and chronicle
Linking Note	Set of: Study of Malorase prose, Bronshtein Moshe

Note 1: Link is created because position 9 of the LDR=1 Note 2: 'Set of' is a caption for the linking field 461, and has been taken from tab05 (col. 2). Note 3: Link is not created because the System ID is not registered in 4XX \$\$1

Linking field 604## \$\$1 (Name and Title used as subject)

The program creates headings from nested fields which are cataloged in 604## \$\$1. Nested fields are displayed in the GUI/WEB OPAC

Example 1

604## \$\$a 700\$\$aBeethoven \$\$bLudwig Van \$\$a 500\$\$aSymphonies \$\$bno. 5

In the GUI / WEB OPAC the above will be displayed as:

1. Name, title subject Beethoven Ludwig Van, Symphonies, no. 5

Rules

- 604## \$\$1 field structure is the same as 4XX.
- 604## \$\$1 can have the following tags: 200, 500, 700, 701, 702, 710, 711
- Indexing is the same as for nested fields in 4XX.
- Data in 604## \$\$1 can be filled in manually or created from the Authority Database
- 604## \$\$1 does not contain the System number of the linked record, and does not create an UP or a PARALLEL link.
- Subject headings must be searchable from this field and displayed as subject headings in GUI / WEB OPAC.
- Records with all hierarchical levels can have this subject-heading field.

Display of 604 depends on the setup of the following tables:

- tab11
- tab_expand_split
- tab_expand
- tab01.lng
- edit_doc_999.lng

Indexing the nested fields in 4XX and 604

Nested fields, which can be cataloged in the linking block 4XX are: 200 \$\$v, 500, 530, 700, 210

Nested fields, which can be cataloged in the linking field 604 are: 200, 500, 700, 701, 702, 710, 711

Set up the next tables in order to create indexing for the nested fields:

- tab_expand
- tab_expand_join
- tab_expand_split
- tab11

Concept of the nested field 5300# in 4XX

You can catalog the field 5300# in the linking fields' block.

Example

4XX#0/1 \$\$1 001System number \$\$1 5300

Rules

If 530 has the first indicator '0', 5300 is equivalent to the field 200 \$\$a of 'father' record, and content of the field 200 will be displayed in the GUI/WEB OPAC.

Example

Series "History of Photography" - "father" record Volume 1 "20th century" - "son" record

Create "father" record as follows:

LDR nam 1 001## 2001# \$\$a

Create "son" record as follows:

LDR nam 2 001## 2001# \$\$a 4XX## \$\$1 001[System Number of "father" record] \$\$1 5300

Merged record display

The merged display of linked records is accomplished through the **expand_doc_uni_merge** procedure, which must be defined in the library's /tab/tab_expand table:

E-DOC-038 expand_doc_uni_merge

(Where the document format 038 is defined in edit-doc, edit-paragraph, and pc_tab_sear.eng)

In order for the display to be in ISBD format, the library's /tab/edit_field.<lng> table should have the following lines:

1 L 200## 2 2 2 2 2 2 2 2	L g A ;^	a A d A :^ e A ^:^ f A ^/^ c A ;^
1 L 210##		
2		a A ^^-^
2		c A ^:^
2		d A ,^
1 L 215##	L	
2		a A ^^-^
2		c A ^:^
2		d A ;^
2		e A +
1 L 4####	L	
2		v A
1 L 7####	L -348	
2		a A ^
2		b A

.

:

and the library's /tab/edit_doc_999.<lng> table should have the following lines:

010#1 E	D LISBN	Y
E 011#1 E	D LISSN	Y
675#1 E	D LUDC No.	ΥS
7#0#1 E	D LAuthor	ΥF
200#1 8 - E	D LTitle	ΥZ
5###1 E	D LTitle	ΥS
205#1 E	D LEdition	Y
210#1 E PUB	D LPublication	ΥZ
215#1 E	D LDescr.	Y
E 225#1 E	D LSeries	ΥS

101#1 D	LLanguage	Y	
	LGen. Note	Y	
—	LBoundWith	Y	
_	LLinking note	Y	Ζ
—	LBibliogr.	Y	
- 7#1#1 D	LAdd.Entry	Y	Ζ
E 7#2#1 D E	LAdd.Entry	Y	Ζ
	LLocation	Y	

For correct ISBD display in paragraph format (edit_doc.<lng>), a paragraph like the following should be defined in the library's tab/edit_paragraph.<lng> table:

- 1 /		-				
514	200#4	Ь				
514	200#3	L				
514	200#2	L				
514	7###4	L				
514	7###3	L				
514	7###2	L				
514	210#4	L				
514	210#3	L				
514	210#2	L				
514	4####	L	~ ^			
514	200#1	L	^			• ^
514	210#1	L	_^			
514	215#1	L				

The above table assumes the following line in the following library tables:

/tab/pc_tab_sear.<lng> FO UNI01 L ISBD 038 and /tab/edit_doc.<lng> 038 514

Example:

If the 'son' record contains '4XX#1 \$\$1 200\$\$v' Then the ISBD format of the 'son' record display will be as follows:

• 'father' record - sub-fields content of the 'father' record.

- '4xx#1 200\$\$v'- content of '200\$\$v' as it is cataloged in 4XX of the 'son' record.
- 'son' record sub-fields content of the 'son' record.

- Record 1

LDR nam1 001 10324 2001# \$\$a European culture \$\$f Lev Karsavin 210## \$\$a Vilnius \$\$c Vaga \$\$d 1997-

ISBD format display:

European culture / Lev Karsavin. - Vilnius : Vaga, 1997- .

- Record 2

LDR nam201 10325 2001# \$\$a Renaissance 210## \$\$d 1997 215## \$\$a 320 p. \$\$c ill. 461#1 \$\$1 00110324 \$\$1 200\$\$vVol. 3

ISBD format display (as it is defined in edit_field.lng, and using 'expand_doc_uni_merge' for records merging) :

European culture / Lev Karsavin. - Vilnius : Vaga, 1997- . Vol. 3 : - 1997. - 320 p. : ill.

4. UNIMARC LINKS Developed for Italy

Creating analytic links (**update_z103_uni**) between BIB records, according to the UNIMARC standard, based on linking fields (block 461, 462, 463 and 464).

- 461/2/3/4 take sub-fields v ":" a ":" f from 2001 field of own document for lkr txt m.
- 461/2/3/4 take 2001 a and f from target document for lkr text n.
- 464 check ldr positions 7 and 8 if a2 then create LKR as do for 463.

When a new record is sent to the server:

- If 461/2/3/4 then take 200 a f from the target document as specified in 1001 and put as 461 1 2001 \$\$a and \$\$f.
- Create 001 field from aleph system number.
- Update 801 sub-field c from current date and 100 position 0-4 with date and 26-29 with charset = 03.

UNIMARC update 5 added the following four linked fields to UNIMARC records:

- 412
- 413
- 424
- 425

The PAR links should be build for the following two pairs:

The "offprint" fields pair for PAR link:

- 412 Source excerpt or offprint related field (reciprocal of the relationship)
- 413 Excerpt of offprint

The "update" fields pair for PAR link:

424 - is updated by related field (reciprocal of the relationship) 425 – updates

In order to create linked records, one of three programs must be defined in the ./unimarc_bib_library/tab/tab_z103 table. The most common program to create the links between UNIMARC records is update_z103_uni_2. Another two programs, update_z103_uni_3 and update_z103_uni_ana are also able to create the links between the 4XX fields.

The following is a description of the functionality of the three update z103 programs: <u>update_z103_uni_2</u> - Creates a DN (down) link from parent to child automatically. The UP link is created through the 461 field in the child record.

The PAR linking field has to be defined on both the parent and the child side in order the link to work.

<u>update_z103_uni_3</u> Creates a DN (down) link from parent to child automatically just like update_z103_uni_2.

The linking field has to be defined only on one side. The system creates the PAR link in both directions. If the linking fields are present in both records, the link is displayed twice.

<u>update z103 uni ana</u> Enables the retrieval of item information at the child side without the need to go through the parent side.

<u>update_z103_uni_ana_2</u> – Like update_z103_uni_2, but also enables the retrieval of item information at the child side without the need to go through the parent side.

Currently, update_z103_uni_ana works like update_z103_uni_3 in that the PAR linking field has to be defined only on one side. It cannot be used by customers that create links through update_z103_uni_02. (In that program, the PAR linking field has to be defined in both records in order to work). If update_z103_uni_ana were used for all the records already present in the Catalog, each record would have a double link when the record is saved again on the server.

The following is a sample of two UNIMARC records with 412 and 413 fields: Record 1:

Document 16151 contains field 412 with the indicator 1 \$\$1 that points to document 16150 (document with 16150 in the 001 tag):

412	1	1	001000016150
		1	2001
		a	Ingénieurs et architectes suisses
		x	0251-0979
		v	(1980-08-18) n. 17

Record 2:

Document 16150 contains field 413 with the indicator 1 \$\$1 that points to document 16151 (document with 16151 in the 001 tag):

413	$1 \overline{1} 001000016151$	
	1 2001	
	a Régularization des eaux du Benaco	
	🗜 Jacques Bruschin, Arthur Hartmann	
	🔽 (1980-08-18) n. 18	

If tab_z103 is set to activate update_z103_uni_2, update_103_uni_3, or update_z103_uni_ana, the above records will be linked in a parallel link.

Note:

The update_z103_uni_2 program requires that the 4XX pair tag will be defined in both the parent and child records in order to create the PAR link (as in the above example).

The update_z103_uni_3 and update_z103_uni_ana programs require the linking field to be defined only in one record (as in the above example. Only one record with field 412 should be defined). The system creates the PAR link in both directions.

Navigation between the records from the GUI and the Web OPAC is possible by clicking the link option. The caption for the parallel link is taken from the ./unimarc_bib_library/tab/z05.<lng> table.

The PAR link should be created only if there is a matching record, i.e. only if the record identified in \$\$1 actually exists and has a paired field.

5. MAB Links

Special links between BIBliographic records, using standard MAB fields, have been developed. The **Z103** record is directly created, without an LKR field. Creation of the **Z103** record depends on the presence of the MAB identification number to which the record is linked in the linking field of the bibliographic record.

If filter information is entered, the system automatically builds an ITM link.

Z103_LKR_TEXT_N and Z103_LKR_TEXT_M could be defined using the table "edit_lkr_text".

The different linking fields are described below.

Tag 010

z103_lkr_type	UP/DN (multi-volume-publication)
lkr_library	same base
lkr_doc_number	content of 001

Filter for link to item (ITM):

Tag 090 = volume numbering

- **\$\$y** Year used only for link to item of type ISSUE
- **\$\$v** Volume
- **\$\$p** Part
- **\$\$i** Issue used only for link to item of type ISSUE

Tag 453\$\$a, 463\$\$a, 473\$\$a, 483\$\$a, 493\$\$a, 623\$\$a, 629\$\$a

z103_lkr_type	SRU/SRD (series title)
lkr_library	same base
lk_doc_number	content of 001

Filter for link to item (ITM):

Tag 456, 466, 476, 486, 496, 626, 632 = volume numbering

\$\$y Year - used only for link to item of type ISSUE

\$\$v Volume

\$\$p Part

\$\$i Issue - used only for link to item of type ISSUE

Tag 526-534, \$\$9

z103_lkr_type	PAR
lkr_library	same base
lkr_doc_number	content of 001

Captions are taken from sub-field \$\$p or if \$\$p is missing from tab05.

Tag 599\$\$a (only Indicator blank)

z103_lkr_type	ANU/AND (title of book or periodical for article)
lkr_library	same base
lkr_doc_number	content of 001

Filter for link to item (ITM):

Tag 596 = volume numbering

\$\$v	Year - used only for link	to item of type ISSUE
ψψ	i cai usea oni y toi nink	to nem of type 1000L

- **\$\$v** Volume
- **\$\$p** Part
- **\$\$i** Issue used only for link to item of type ISSUE

Examples:

UP Multi-volume publication

 Record 1:

 001
 M2000000409

 331
 <<Der>>> Herr der Ringe

Record 2: 001 M2000000419

010 M200000409

089	Erster Teil
090v	1

= Volume - used for link to item. The same must be registered in the field "Volume" of the item

331 <<Die>> Gefährten

UP Series title

Record 1:

001 M200000392

331 Kieler Schrifttumskunden zu Wirtschaft und Gesellschaft

Record 2:

- 001 M200000394
- 100 Giersch, Herbert
- 331 Bestandsverzeichnis seiner Veröffentlichungen
- 451 Kieler Schrifttumskunden zu Wirtschaft und Gesellschaft ; 26

453 M200000392

- 454 Kieler Schrifttumskunden zu Wirtschaft und Gesellschaft
- 455 26

PAR

Record 1:

001 M200001102

- 331 Ölhydraulik und Pneumatik
- 531x \$\$a Pneumatik

\$\$9 M200001104

Record 2:

- 001 M200001104
- 331 Pneumatik
- 533x \$\$a Ölhydraulik und Pneumatik \$\$9 M200001102

UP articles

Record 1:

001 M200000667

331 Industrie-Anzeiger

Record 2:

- 001 M200059610
- 100 Eversheim, W.
- 331 Auswahlentscheidungen fuer flexible Fertigung
- 590 Industrie-Anzeiger
- 596 110.1988,53/54, S. 30 33
- 599 M200000667