

KOHACON23 – HELSINKI

UNIMARC and LRM transition

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KOHACON23 – UNIMARC HISTORY

> (very) Quick history :

- Format created in 1977
- > Developed and maintained by IFLA
- > Evolutions by PUC (Permanent Unimarc Committee)
 - In the last years, evolutions proposed only by CfU (Comité Français de l'Unimarc)

UNIMARC is used in France, by 95 % of the libraries

KOHACON23 – UNIMARC HISTORY

- Technically : MARC
 - > Leader
 - > Fields
 - Subfields

Semantically : not a declination of MARC21

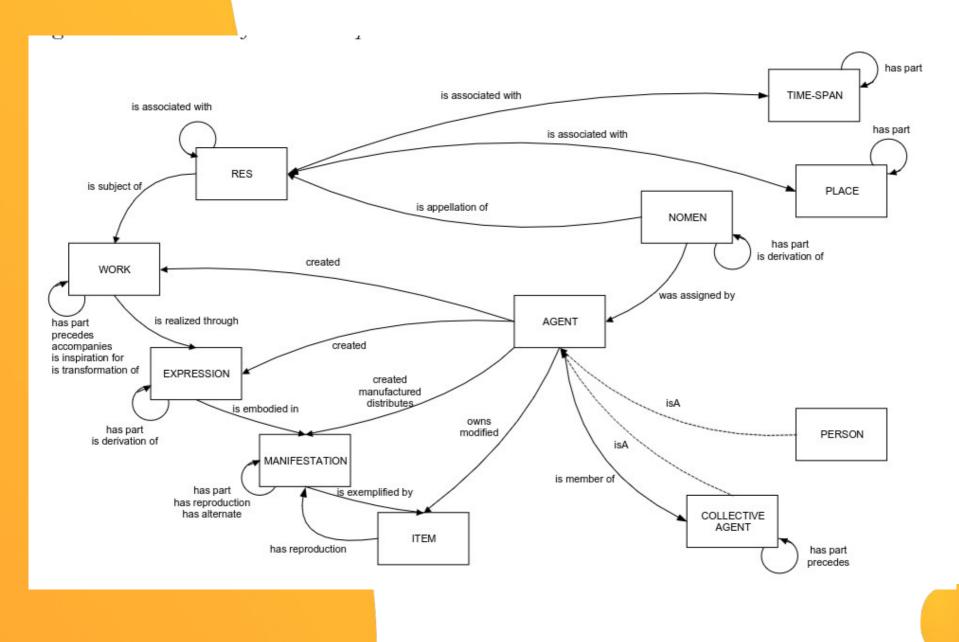
Organization is 99 % different (exception: 856)

> Title is in 200\$a, authors are in 7XX

Another big difference:

links (bib <> auth and bib<>bib) contain a \$3 field including the auth/bib number.

KOHACON23 – LRM



> How to move from Unimarc to LRM ?

>

- Marc bibliographic records "splitted" in Work, Expression, Manifestation, Item (WEMI)
 - Goal: identify the work / expression / manifestation in a MARC bibliographic record

Marc authorities transformed in Nomen, Agent, Place, Time-span

Le 8/28/23

KOHACON23 – UNIMARC > LRM

> How to move from Unimarc to LRM ?

Easy decisions for Authorities: extend them, link them using \$3 in links

> Biblios

> Example:

101 0. \$a fre	langua	age	
102 \$a FR		~ 5 ~	
105 \$a z 00			
106 \$a r			
181 .0 \$6 01 \$a i \$b xxxe		title	
181 \$6 02 \$c txt \$2 rdacontent			
182 .0 \$6 01 \$a n		support	
182 \$6 02 \$c n \$2 rdamedia			
200 1. \$a Notre-Dame de Paris \$b Texte imprimé \$f Victor Hugo			
210 \$a [Paris] \$c Librairie générale française \$d 1973 \$e Paris \$g impr. Crété		edition	
215 \$a 1 vol. (443 p.) \$d 22 cm			
225 . \$a Les Chefs-d'œuvre des lettres		size	
300 \$a Rel			
410 .0 \$0 34266307 \$t Chefs-d'œuvre des lettres \$v 21		author	6
500 11 \$3 11967596 \$a Notre-Dame de Paris \$m français \$2 lien automatique		aution	
700 . \$3 11907966 \$0 ISNI000000121200982 \$a Hugo \$b Victor \$4 070			

KOHACON23 – UNIMARC > LRM

How to identify W / E / M / I ?

- Title and author => Work
- Langage => Expression
- Support, edition, size => Manifestation
- (no Item in my example)
- What kind of record must/can/should we create ?
- French lesson :
 - Work = Oeuvre
 - Expression and Manifestation = French words
 - Item = we use the term Item even if it's not French
 - DEMI = WEMI

KOHACON23 – UNIMARC > LRM

- > What's happening in France :
 - > 2 major institutions:
 - > BNF (National Library)
 - SUDOC (national catalogue of academic libraries)
 - A working group, and a website:
 - > Www.transition-bibliographique.fr
 - CfU is a part of the process



A la une de la Transition bibliographique



Un datathon autour de données LRMisées, le 30 novembre 2023



Décision du CSB du 28 juin 2023 : report du projet FNE

28/07/2023

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KOHACON23 – UNIMARC > LRM

Some decision already taken

- > Work and Expression will be authorities
- > Manifestation will be bibliographic records
- Link records using new fields

Create a "UNIMARC-ER" (Entity-Relation) flavor / declination of UNIMARC

Zones <u>Unimarc</u> B	Catalogage historio	œuvre	expression	Manifestation	ltem
182 – Zone de données codées : Type de médiation (2016)	h		e		
183 – Zone de données codées : Type de support (2019)	h			m	
200 – Titre et mention de responsabilité (mise à jour 2019)	h			m	
203 – Forme du contenu et type de médiation (mise à jour Ifla 2016)	h			m	
205 – Mention d'édition (2010)	h		e	m	
206 – Zone particulière à certains types de ressources : Ressources cartographiques – Données mathématiques (2019)	h		e	m	
207 – Zone particulière à certains types de ressources : Ressources continues – Numérotation (2010)	h			m	
208 – Zone particulière à certains types de ressources : Musique notée – Présentation musicale (2010)	h			m	
210 – Publication, production, diffusion, etc. (mises à jour Ifla 2012 et 2019)	h			m	
211 – Date de publication prévue (2011)					



Zones <u>Unimarc</u> B	Catalogage historio	œuvre	expression	Manifestation	Item
182 – Zone de données codées : Type de médiation (2016)	h		e		
183 – Zone de données codées : Type de support (2019)	h			m	
200 – Titre et mention de responsabilité (mise à jour 2019)	h			m	
203 – Forme du contenu et type de médiation (mise à jour Ifla 2016)	h			m	
205 – Mention d'édition (2010)	h		e	m	
206 – Zone particulière à certains types de ressources : Ressources cartographies – Données mathématiques (2019)	h		e	m	
207 – Zone particulière à certains types de ressources : Ressources co Numérotation (2010)	h			m	
208 – Zone particulière à certains types de ressources : Musique entation musicale (2010)	h			m	
210 – Publication, production, diffusion, etc. (mises à jour)	h			m	
211 - Date de publication prévue (2011)					

200 field is an "historical" field

200 field still used in UNIMARC-ER. It contains the title of the manifestation



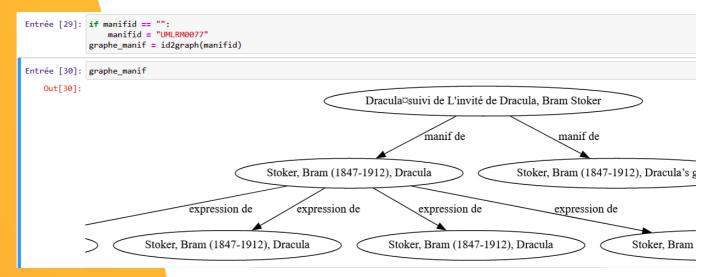
Zones <u>Unimarc</u> B	Catalogage historio	œuvre	expression	Manifestation	ltem
500 – Titre uniforme (mise à jour Ifla 2012)	h				
501 – Rubrique de classement (2011)	h				
503 – Titre de forme (2010)	h				
506 – Point d'accès autorisé – Identification d'une œuvre (mise à jour Ifla 2012)				m	
507 – Point d'accès autorisé – Identification d'une expression (mise à jour Ifla 2012)				m	
510 – Titre parallèle (mise à jour <mark>Ifla</mark> 2018)	h			m	

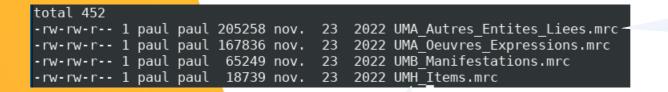
506 field link to the Work

507 field link to the Expression

> Data sample :

https://zenodo.org/record/7358799#.Y4R-bt_jJPY 340 MARC records, related to vampire and dracula





Nomen, places, ...

A = authority B = biblio H = holding



Manifestation

01281ngm#a2200277#i#450#
001 UMLRM0003
071 41 \$a DVD103 \$b RDM vidéo
073 0 \$a 3125127221033
100
102 \$a FR
115 \$a c###aaizxuxz###bkxxc
181 0 \$6 01 \$a b \$b xa2ea#
181 \$6 02 \$c tdi \$2 rdacontent
182 0 \$6 01 \$a g
182 \$6 02 \$c v \$2 rdamedia
200 1 💲 Nosferatu \$f Réalisation Friedrich W. Murnau \$g d'après le roman "Dracula" de Bram Stoker \$g scénario et adaptation Henri
k Galeen \$g avec Max Schreck, Greta Schroeder, Gustav von Wangenheim [et autres]
214 0 \$a [Sannois] \$c RDM vidéo \$d [DL 2012]
214 2 \$a [Sannois] \$c RDM vidéo
214 4 \$d 2011
215 \$a 1 DVD vidéo \$c monoface simple couche, 4/3, 24 im./s, PAL, toutes zones
225 2 \$a Les trésors du cinéma
327 2 \$a Contient aussi : Biographie et filmographie du réalisateur. Fiche technique
410 0 \$0 FRBNF42648324 \$t Les Trésors du cinéma \$x 2259-4388 \$d 2012
451 1 \$0 UMLRM0176 \$t Les grands classiques du cinéma allemand \$c [Sannois] \$n RDM vidéo \$d [DL 2013] \$p 7 DVD vidéo
507 1 \$3 ULRM0002 \$7 ba0yba0y \$8 freger \$a Nosferatu, eine Symphonie des Grauens \$c film \$l Version restaurée \$w 60mn \$o 1995 \$m F
rançais
801 0 \$a FR \$b FR-751131015 \$c 20220924 \$g RDA-FR \$h FRBNF42632683000000X

Link to the Expression



Manifestation

451 I \$0 UMLKM0170 \$t Les grands classiques du cinema allemand \$c [Sannois] \$n KUM video \$d [UL 2013] \$p 7 UVU video 507 1 \$3 ULRM0002 \$7 ba0yba0y \$8 freger \$a Nosferatu, eine Symphonie des Grauens \$c film \$l Version restaurée \$w 60mn \$o 1995 \$m F rancais

801 0 \$a FR \$b FR-751131015 \$c 20220924 \$a RDA-FR \$h FRRNF42632683000000X

Expression

01357nx##a2200253.##450#
001 UMLRM <mark>0002</mark>
100
101 1 \$a fre \$c ger
102 \$a FR
104 \$a d1995#####
105 \$a ba
127 \$a 010000
145 \$a b \$b xa2ea#
145 \$a tdi \$b rdacontent
147 \$a a \$e d \$h a
152 \$a RDA-FR
154 \$a xb
232 \$3 ULRM0001 \$7 ba0yba0y \$8 freger \$a Nosferatu, eine Symphonie des Grauens \$c film \$l Version restaurée \$w 60mn \$o 1995
rançais
371 🛛 \$f Film muet avec intertitres en français \$f Version restaurée, restauration de 1995 : 60 min (24 im./s), musique de Gal
a Moravioff
502 1 \$3 FRBNF14122771 \$7 ba0yba0y \$8 fre### \$o ISNI 0000 0000 0886 412X \$a Moravioff \$b Galeshka \$4 230
532 🛛 \$5 xxq \$3 UMLRM0175 \$7 ba0yba0y \$8 frefre \$a Les grands classiques du cinéma allemand \$k RDM vidéo \$m Anglais, allemand,
nçais ; sous-titrage en français \$n Image animée
640 5 \$0 Date de restauration \$f #1995#####

\$a Nosferatu / réalisation Friedrich W. Murnau ; d'après le roman "Dracula" de Bram Stoker ; scénario et adaptation Henri 810 aleen ; avec Max Schreck, Greta Schroeder, Gustav von Wangenheim... [et autres]. - [Sannois] : RDM vidéo [éditeur, distributeur] DL 2012]. - [Image animée : (video]

\$a Wikipédia : https://fr.wikipedia.org/wiki/Nosferatu le vampire (2020-12-28) \$b Version restaurée 810

Le 8/28/23



Manifestation

451 I \$0 UMLKM0176 \$1 Les grands classiques du cinema allemand \$c [Sanhois] \$n RDM video \$d [DL 2013] \$p 7 DVD video 507 l \$3 ULRM0002 \$7 ba0yba0y \$8 freger \$a Nosferatu, eine Symphonie des Grauens \$c film \$l Version restaurée \$w 60mn \$o 1995 \$m F rançais

801 0 \$a FR \$b FR-751131015 \$c 20220924 \$g RDA-FR \$h FRBNF42632683000000X

Expression

232 \$3 ULRM rançais 271 ¢f Eilm	M0001 \$7 ba0yba0y \$8 freger \$a Nosferatu, eine Symphonie des Grauens \$c film \$l Version restaurée \$w 60mn \$o 1995 number avec intertitres en français ¢f Version restaurée, restauration de 1005 ; 60 min (24 im (s), musique de Cal	DT (
	Work	
001 UMLR 033 \$ 033 \$ 052 \$ 100 \$ 101 0 \$ 102 \$ 104 \$ 125 00 \$ 127 0 \$ 140 \$ 145 0 \$ 145 0 \$ 145 0 \$ 145 0 \$ 145 \$	a https://data.bnf.fr/ark:/12148/cb11943761j \$2 data.bnf.fr a https://www.wikidata.org/wiki/Q151895 \$2 Wikidata a 0000-0000-4EBA-0000-H-0000-0000-N a 20220924afrey50######ba0 a ger a DE a DE a d1922#####	

> Next steps:

- BNF and ABES are working on tools to automatically create WEMI MARC records from current MARC record
 - Long process, several iterations
 - > No planning (that I know)
 - Defining the final format (bibframe ? UNIMARC-ER ?)
 - Work in Progress
 - Different constraints for BNF and ABES
 - **>**BNF has catalogers
 - ABES relies on libraries to catalog

KOHACON23 – NEXT STEP ?

> Which opportunities for Koha ?

- Store UNIMARC-ER
- Take profit of UNIMARC-ER in search
- > Long term: new tool to catalog

KOHACON23 – STORE

Storing UNIMARC-ER means:

- > Having authorities types for Works and Expression
- Adding new fields

Good news:

• the code is already able to handle that !

We just need to create authorities and update frameworks

But that's the smallest step, more to work on...

KOHACON23 – SEARCH

> Changing the search

So ...

- How to improve the search module to improve user experience
 - 1st goal: do not bother user with WEMI vocabulary and concepts ;)
 - 2nd goal: that would be a pity to show that we have a given book, know in the database that we have it in another "form", and not showing that to the user, he may be interested. Or not !

KOHACON23 – SEARCH

> Changing the search

- User search "Harry potter and the phenix order"
- Should we show:

Work

Harry Potter and the phenix order Expression/Manifestation We have it • As a book, 1997, translated by John Doe, 250 pages, 30cm As a book, 2001, translated by John Doe, 280 pages, 15cm OR As a book, 2010, translated by Jean Martin, 300 pages, 35cm Harry Potter and the phenix order As a read book, 2004, read by Sophie Dupont, 4 hours We have it as a Book Work • 1997, translated by John Doe, 250 pages, 30cm OR • 2010, translated by Jean Martin, 300 pages, 35cm We have it as a Read book Harry Potter and the phenix order • 2004, read by Sophie Dupont, 4 hours We have it Translated by John Doe, Book, 1997, 250 pages, 30cm Book, 2001, 280 pages, 15cm Expression Translated by Jean Martin, Book, 2010, 300 pages, 35cm read book, 2004, read by Sophie Dupont, 4 hours **Manifestation** 21 Le 8/28/23

KOHACON23 – SEARCH

> What about facets ?

Date Language Format Support Editor

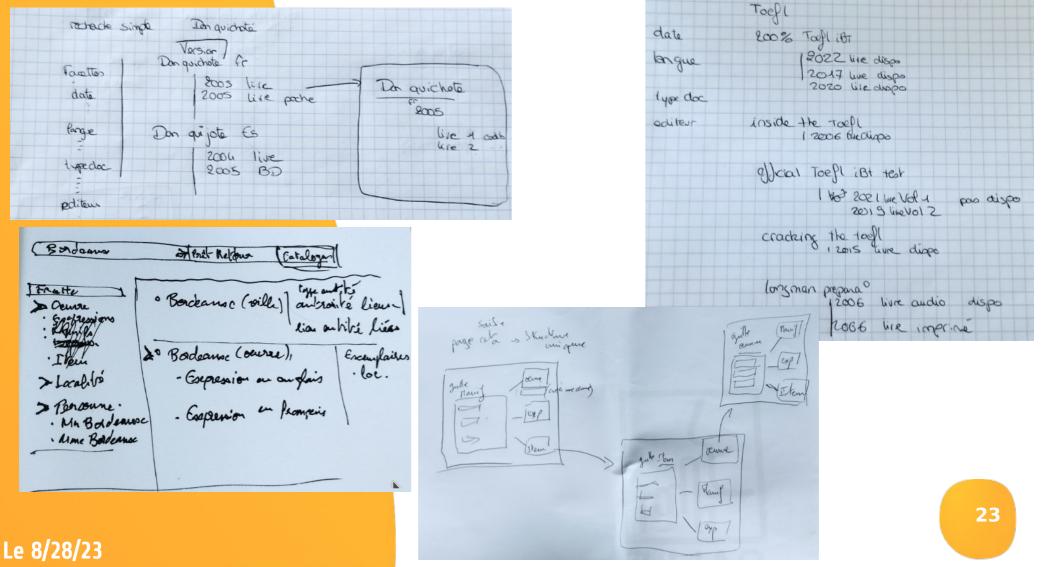
Harry Potter and the phenix order We have it

- As a book, 1997, translated by John Doe, 250 pages, 30cm
- As a book, 2010, translated by Jean Martin, 300 pages, 35cm
- As a read book, 2004, read by Sophie Dupont, 4 hours



KOHACON23 – SEARCH

BibLibre (internal) workshops



KOHACON23 – CATALOGING

- > Very long term plan !
 - Should we catalogate from W to M or from M to W ?
 - From W to M:
 - New record > search/create a work > search/create an expression > search/create a manifestation
 - From M to W:
 - New record > show an empty manifestation > link an expression > link a work

KOHACON23 – CATALOGING

> If we continue using UNIMARC-ER:

- > Currently M to W:
 - Koha > cataloging > new => a manifestation
 - In the cataloging module, field 507 has the small icon to open authority search
 - > Link the authority expression
 - What about W to M ?
 - > It has to be discussed with users

KOHACON23 – CATALOGING

> If we switch to bibframe

- > Write a completely new cataloging module
 - Database structure:
 - We currently support only MARC
 - BUT biblio_metadata contains format, schema and metadata field that can store anything
 - In Koha, very frequently used data (title, publisher, publicationdate,...) are "decoded" from MARC and stored in "generic" fields (biblio.title). We could add a RDA/bibframe "decoder". Other module would work without change

> Cataloging module:

- Must be written from scratch (hint: the BNF is writing such a module)
- > A HUGE work.

KOHACON23 – CATALOGING

And MARC21 ?

- > Work & Expression will be bibliographic records
 - Will be tricky to keep UNIMARC and MARC21 at the same level in Koha !
 - This is a real challenge for Koha. Other ILS in France:
 - >Are local => support UNIMARC only
 - Are international => support MARC21, with an additional quick (and sometimes dirty) UNIMARC layer

Bibliography

- https://www.transition-bibliographique.fr
- http://www.rda-rsc.org/sites/all/files/Lecomte_RDA%20and%20UNIMARC.pdf
- https://www.ifla.org/wp-content/uploads/2019/05/assets/cataloguing/frbr-lrm/i fla-lrm-august-2017_rev201712.pdf
- https://www.bnf.fr/fr/actualites-du-catalogue-no-56-juillet-2023

Credits:

- Sample UNIMARC-ER: https://zenodo.org/record/7358799#.Y4R-bt_jJPY
- Etienne Cavalié (Lully) for his great work on the data sample

https://bibliotheques.wordpress.com/2022/12/07/340-notices-en-unimarc -lrm-1-presentation-du-jeu-de-donnees-et-des-classes-dobjets/

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KOHACON23 – UNIMARC > LRM

Thank you !