Metadata Madness: Overcoming Obstacles to Launch a Library Platform and Discovery Layer ALA Mid-Winter TSWEIG Meeting January 23, 2017 1:00PM-2:30PM

Marilyn White-E-Resource Librarian
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National Institute of Standards and Technology

- Non-regulatory federal agency made up of about 3,000 science and technology researchers
- NIST promotes U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology
- The Research Library is located within the Information Services
 Office (ISO) on the Gaithersburg, MD campus

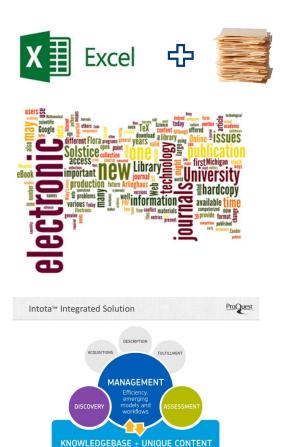
About the NIST Research Library

- Staffing
- Resources
- Federal environment
- Systems that are self-sustaining

Agenda

- Background on our Tech Services Systems
- Why we did what we did!
 - Improving user experience and library efficiency
 - Implementation and impact on tech services
- Challenges we faced and solutions
- Lessons learned

Evolution of E-Resource Management











Any mention of commercial products is for information only; it does not imply recommendation or endorsement by NIST, nor is it intended to imply that the products identified are necessarily the best available for the purpose.

What Does the Summon Index Search?

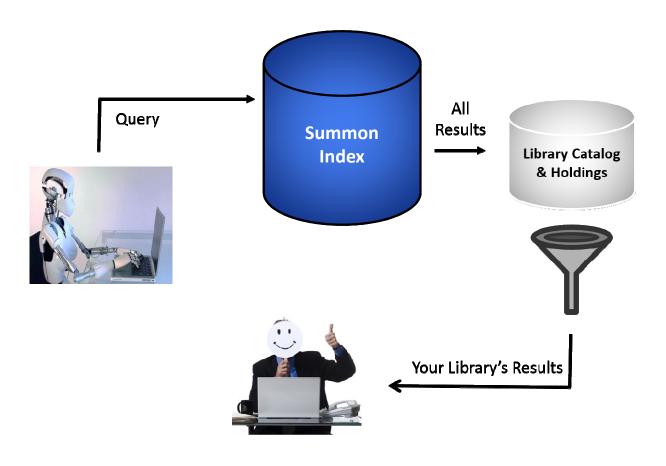
SUMMON INDEX

Online catalog

ERMS (holdings information)

Journal subscriptions and databases

How Does a Search in Summon Work?





Training Journey



Plan & document workflows



Fix the database

ERMS Clean Up



Broken links
Inaccuracies
Publisher changes
Mysteries









NIST Single Search: SUMMON and NIST Content

	NIST Authors in Proprietary Journals	NIST Authors in JRes	NIST Technical Publications	Photo Collection	Oral Histories
Metadata source	Proprietary databases	CrossRef	CrossRef, govinfo, Sirsi, Editorial Review System, Google Scholar	NDA	Sirsi
Full text source	PMC, proprietary databases	PMC	Govinfo, NIST publication server	NDA	
Proquest options	Summon Index/PMC	Summon Index/PMC	Sirsi	NDA	Sirsi
Our preferred option	Summon Index	PMC	Sirsi	NDA	Sirsi

Summon MARC21 Mapping

1 Summon MARC21 Mappir			_			
2 Summon Field Name	Summon Display Name	Display Location	Facet	Corresponding MARC Fields	Changes/Corrections?	Notes
3 Abstract	Abstract	Brief and Preview		520 \$a\$b		
4 Author	Author	Facet, Brief, and	Author	100 \$a\$b\$c; 700 \$a\$b\$c		
6 Corporate Author	Corporate Author	Brief and Preview		110\$a \$b \$c \$n, 710\$a \$b \$c \$n		
6 Document Title : Document Subtitle	Maps to Title field	Preview		245 \$a, 245 \$b		
7 Edition	Maps to Edition field	Preview		250 \$a		
8 Genre	Genre	Facet, Preview	Genre	600 \$v; 610 \$v; 611 \$v; 630 \$v; 648 \$v; 650 \$v; 651 \$v; 655 \$a\$v, 380 \$a		
9 ISBN	ISBN	Brief and Preview		020 \$a		
0 ISSN	ISSN	Brief and Preview		022 \$a		
1 LCCallNum	Call Num	Brief and Preview		099\$a\$b; 090\$a\$b; 050\$a\$b		
		Brief and Preview for				
		Content Type = Book				
2 PageCount	Pages	only		300 \$a		
3 PublicationSeriesTitle	Series	Preview		440 \$a; 490 \$a;		
4 Publisher	Publisher	Preview		260 \$b, 2641 \$b (2nd indicator=1)		
5 URL	Hyperlinked to title	n/a		856 \$u		
6 Volume (of series)	Volume	Brief and Preview		440 \$v; 490 \$v; 830 \$v		
7 ContentType	See Content Type Mapping wo		Content Type	See Content Type Mapping worksheet		
8 Language	Language	Facet/Preview	Language	008 (35-37); 041\$a\$b\$d\$e\$f\$q\$j		
9 Library Location	Library Locations provided by			Provided prior to initial ingest of records.		
PublicationDate	Date			260 \$c, 2641 \$c (2nd indicator=1), 2644 \$c (2nd indicator=4)		
1 Subject terms	Subject	Facet, Brief and Preview		600 \$x: 610 \$x: 611 \$x: 630 \$x: 648\$x: 650 \$a\$b\$c\$d\$x: 651 \$x: 653 \$a		
2 AuthorAffiliation	n/a	Index Only		100 \$u; 110 \$u; 111 \$u; 600 \$u; 610 \$u; 611 \$u; 700 \$u; 710 \$u; 711 \$u		
3 CODEN	n/a	Index Only		030 \$a		
4 Deleted Record Field	n/a	Index Only		Only for Option 1 delete method. Provided prior to initial ingest of		
		Index Only unless		I I I I I I I I I I I I I I I I I I I		
		enabled in Admin				
5 Dewey Decimal Number	n/a	Console		082 \$a		
Borrey Beering Hamber	100	00110010		130\$a\$d\$f\$k\$I\$m\$n\$o\$p\$r\$s: 210 \$a\$b: 222 \$a\$b:		
				240\$a\$d\$f\$k\$I\$m\$n\$o\$p\$r\$s; 242 \$a\$b\$n\$p; 246 \$a\$b\$f\$i\$n\$p; 600\$t;		
				610 St; 611 St; 630 \$a\$d\$f\$h\$k\$i\$n\$o\$p\$r\$s; 730		
6 DocumentTitleAlternate	n/a	Index Only		\$a\$d\$f\$k\$l\$m\$n\$o\$p\$r\$s, 740 \$a\$n\$p		
7 GeographicLocations	n/a	Facet	Region	600 \$z:610 \$z:611 \$z:630 \$z:648 \$z: 650\$z: 651 \$a: 655\$z		
8 InternationalArticleNumber (EAN)	n/a	Index Only	region	024-3\$a (1st indicator=3)		
9 LCCN	n/a	Index Only		010 Sa		
LOCIT	11/4	Brief. Preview for		010 ψd		
		Conference Proceeding				
		content type; otherwise		111 \$a\$n\$c\$d\$e\$q\$p; 611 \$a\$n\$c\$d\$e\$q\$p; 711 \$a\$n\$c\$d\$e\$q\$p; 811		
0 Meeting Name	n/a	Index Only				
o integring traine	III/d	index Only				
				500 5a, 502 5a505c5d5g50, 362 5a 52, 506 5a505c5d5e; 510 5a505c; 511 \$a; 518 \$a; 530 \$a\$b\$c\$d; 533 \$a\$b\$c\$d\$e\$f\$m\$n; 534		
31 Notes	2/2	Index Only		511 \$a; 516 \$a; 530 \$a\$b\$c\$d; 533 \$a\$b\$c\$d\$e\$f\$m\$n; 534 \$p\$a\$b\$c\$e\$f\$k\$l\$m\$n\$t: 538 \$a\$i: 583		
	n/a In/a	Index Only		\$p\$a\$b\$c\$e\$f\$K\$i\$m\$n\$t; 538 \$a\$i; 583		
32 OCLC number	III/a			1000 ag		
33 PublicationPlace	n/a	Index, Catalog Detail		260 Sp. 264 1 Sp. (2nd indicator=1)		
PublicationPlace	n/a	Page		260 \$a, 264-1 \$a (2nd indicator=1)		

Summon Content Type Mapping

		-		
Summon Content T	ype Mapping			
Default linking for all conte	nt types except eBook, eJournal, and Journal is to	the OPAC record. For eBoo	ok, eJournal, and Jou	rnal, default linking uses the
	there is only one, otherwise reverts to the OPAC			
Content Type	Default MARC Field Mapping	Exclude from Mapping	Additional Mapping	Notes
Archival Material	Leader(06) = p	11. 4		
	007(00) = s			
	OR			
	Leader(06) = i			
	OR			
Audio Recording	Leader(06) = j			
	Leader(06-07) = aa			
	OR Leader(06-07) = ab			
	OR			
	Leader(06-07) = ac			
	OR			
	Leader(06-07) = ad			
	OR			
	Leader(06-07) = am			
Book				
	008(26) = a, b, c, d, e, f, g, m OR z			
0	OR			
Computer File	Leader(06) = m			
Conference Proceeding	008(29) = 1 Leader(06-07) = am AND 007(00-01) = cr			
	OR			
eBook	Leader(06-07) = am AND 008(23) = s OR o			
	Leader(06-07) = as AND 007(00-01) = cr			
	OR			
eJournal	Leader(06-07) = as AND 008(23) = s OR o			
	200001(0001) 201112 000(20)			
	008(28) = a, c, f, i, I, m, o, s, OR z			
	AND			
	Leader(06) = a			
	AND			
Government Document	26x\$b does not contain 'University or Press'			
Image	Leader(06) = k			
Journal	Leader(06-07) = as			
	007(00) = o			
	OR			
Kit	Leader(06) = o			
Manuscript	Leader(06) = t			
	007(00) = a			
	OR			
	Leader(06) = e OR			
Мар	Leader(06) = f			
IMIGP	Loadel(00) = 1			

Part 1 Implementation from the Back End: Issues Pulling Catalog Metadata

- Uploading the Sirsi catalog to the Summon index
 - Creating a process to export catalog records for Summon index
 - Process used for the initial load and for pulling smaller batches of data for fixes
- Using API's to pull catalog metadata
 - Thought it would be the least disruptive
 - Turned out to be much more complex than anticipated

Title control # | Sirsi catalog key | Marc dump

Symphony Export Utility



Part 2 Implementation from the Back End: Problems We Faced

- NIST Pubs not displaying as government documents
- Items not linking to electronic versions
- Identifying where the fix needed to be
- Wrong match points between Sirsi catalog and Summon
- Preparing records for Marc 360 Updates

Part 2: Metadata Fixes We Made to our NIST Technical Publications MARC records

- Added local 590 field: \\\$aNISTPUB
- Deleted duplicate 035, 856, and 956 fields
- Edited our DOI urls
- Used Regular Expressions to edit Leader and 008 fields
- Added alternate search terms

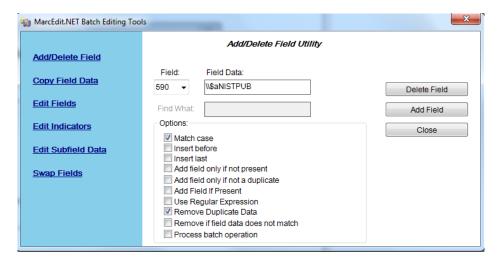
Tools Used

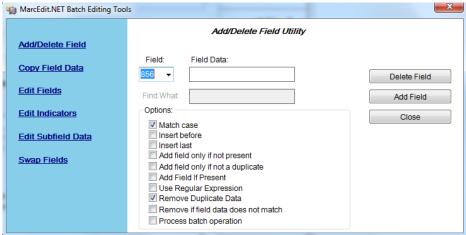
- Sirsi API
- Sirsi Utilities
- MarcEdit
- Some good tools and resources on using Marc Edit and regular expressions
 - Regular Expressions in MarcEdit PowerPoint Presentation
 - Regular Expressions in MarcEdit. Terry Reese Gray Family Chair for Innovative Library Resources. Topics. MarcEdit Regular Expression Support Information.
 - http://blog.reeset.net/
 - https://www.youtube.com/watch?v=qNJA9p2 -qU Terry Reese (YouTube videos and tutorials)

Add/Delete Using MarcEdit: Adding Local Field and Removing Duplicate Fields

Adding 590 NISTPUB Field:

Delete Duplicate Fields:





Editing DOIs

- Need to have the CrossRef DOI in the 856 field
- Use the Edit Fields Utility.
- Select 856 and do a find and replace
 - Find in records: http://dx.doi.org
 - Replace with: https://doi.org

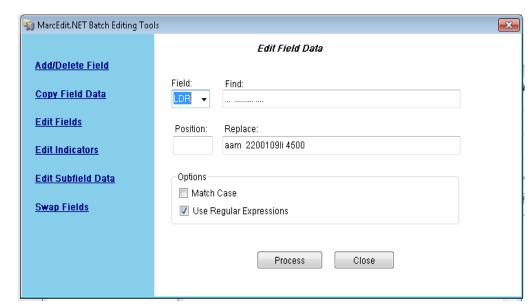
Replacing Leader Fields: Correcting Our Item Types in Summon

The regular expression for the LDR field is:

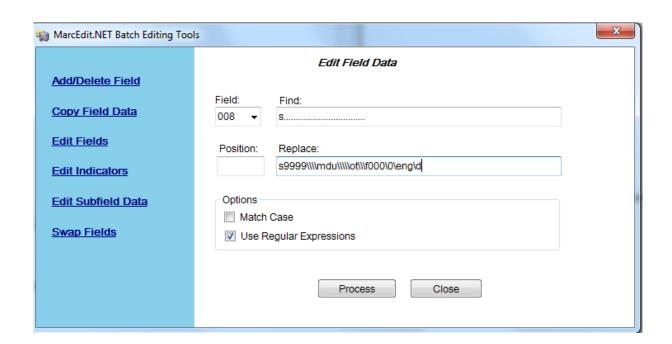
(...)

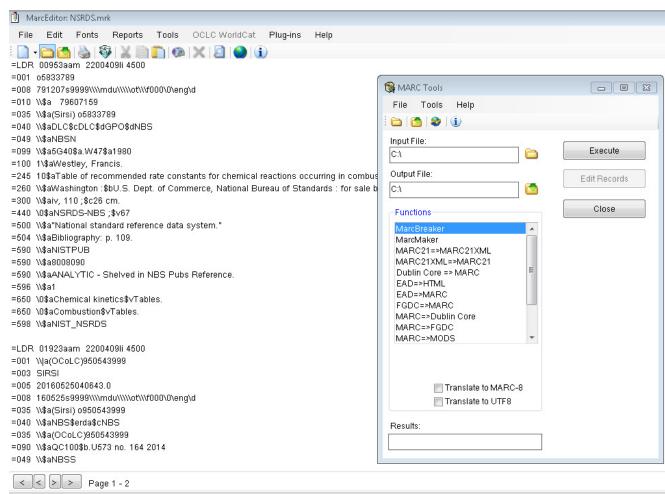
Replace in regex with: aam 2200109li 4500

(Regex formula is: 3 periods, 2 spaces, 9 periods, 1 space, 4 periods)



Editing 008 Fields: Correcting Our Item Types in Summon



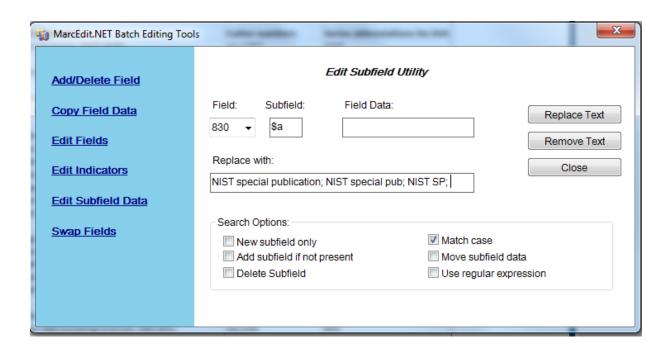


180 records processed in 0.093752 seconds.

Adding Alternate Search Terms

Illustration options	Series name	830 field series names and alternates	Cutter numbers	Series abbreviations for DO
illustrations (color)	NIST advanced manufacturing series	NIST advanced manufacturing series; NIST AMS;	no.U267	AMS
illustrations (black and	Ü	0 / /		
white)	NIST economic analysis brief	NIST economic analysis brief; NIST EAB;	no.U333	EAB
	NIST federal information processing			
	standards publication	NIST federal information processing standards publication; NIST FIPS;	(JK468) no.A8 A3	FIPS
	NIST GCR	NIST GCR; NIST grant-contract report; NIST grant contract report;	no.U6 N25	GCR
	NIST handbook	NIST handbook; NIST HB;	no.U51	НВ
	NIST monograph	NIST monograph; NIST MONO;	no.U556	MONO
	NIST NCSTAR	NIST NCSTAR; National Construction Safety Team Act report;	(TH443) no.N35	NCSTAR
	NIST special publication	NIST special publication; NIST special pub; NIST SP;	no.U57	SP
	NIST technical note	NIST technical note; NIST tech note; NIST TN;	no.U5753	TN
	NISTIR	NISTIR; NIST IR; NIST interagency report; NIST internal report;	no.U56	IR
	NSRDS-NIST	NSRDS-NIST; National standard reference data series;	no.U573	NSRDS
	Voluntary product standard	Voluntary product standard; PS;	no.U563	PS
	NBS report	NBS report; NBS RPT;	no.U843	RPT
	NBSIR	NBSIR; NBS IR; NBS interagency report; NBS internal report;	no.U56	IR
	NBS technical note	NBS technical note; NBS tech note; NBS TN;	no.U5753	TN
	NBS special publication	NBS special publication; NBS special pub; NBS SP;	no.U57	SP
	NBS miscellaneous publication	NBS miscellaneous publication; NBS miscellaneous pub; NBS MP;	no.U57	MP
	NBS monograph	NBS monograph; NBS MONO;	no.U556	MONO
	NBS handbook	NBS handbook; NBS HB;	no.U51	НВ
	NBS GCR	NBS GCR; NBS grant-contract report; NBS grant contract report;	no.U6 N25	GCR
	NBS building science series	NBS building science series; NBS building science; NBS BSS;	no.U58	BSS
	NBS building and housing	NBS building and housing; NBS BH;	(TH1) no.U4	ВН
	NBS commercial standards	NBS commercial standards; NBS CS;	no.U563	CS
	NBS commercial standards monthly	NBS commercial standards monthly; NBS CSM;	(HD62) no.U3	CSM
	NBS technical information on building	NBS technical information on building materials; technical		
	materials	information on building materials for use in the deisgn of low-cost	(TH1) no.U5	TIBM
	NBS building materials and structures report	NBS building materials and structures report; NBS building materials and structures; NBS BMS;	(TA410) no.U48	BMS

Adding Alternate Search Terms: Edit Subfield Utility



Serial Records Clean UP Prepare for MARC 360 Updates

• The issue:

- We want our electronic journals to be searchable at the title level in Summon results.
- We have e-only journal records, print journal records and "mutt-records!!!"

Lessons Learned

- Work across the skillset of your staff:
 - Know what you need to get the job done
 - Get the right expertise
 - Communication
- Careful investment and selection of a system:
 - Foster good vendor relationships that will last long after implementation
 - Do your homework: future growth, compatibility and ROI
 - Maintenance and staff time: what is required?
- Prioritize what you want your system to do:
 - Is it possible to get your unique content indexed?
 - Bottom line: good user experience

Acknowledgements

- Special thanks to the other members of the Discovery Team:
 - Katelynd Bucher-Metadata Librarian
 - Paula Deutsch-Systems Administrator
- Thank you to NIST Library staff

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