Pre-Processing E-Resource MARC Data for Batch Load:

Challenges and Solutions

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A map of this presentation

A bit of context – my institution and my role in it

OCLC WorldShare Collection Manager (WCM) MARC: brief overview

The WCM MARC-related mess we got into



Another twist: (hint: authority control vendor-related)

My solution: script + new load profile + workflow

Limitations/future work

Questions/discussion

A bit of context

my institution and my role in it



"It's complicated ... "



- University Library, UNC Chapel Hill
- Large institution, ARL member
- 6,877,981 bibs in OPAC
- 3 administrative/accounting units
- +/- 30 branches and specialized collection locations
- 1038 location codes
- Part of Triangle Research Libraries Network, sharing:
 - Index/online catalog
 - Physical storage space
 - Some MARC records
 - Some acquisitions
- 2 staff members with III load profile training
- 2017-03-14: Migrated from Millennium to Sierra

Photo of Davis Library @ UNC by benuski

My job: (LIBRARY DATA) Strategist

- Maintain overview of library data...
 - Formats
 - Sources
 - Systems
- ...where we...
 - Create/maintain the data
 - Contribute data
 - Use the data (or could use the data)

My job: Library (DATA STRATEGIST)

- Understand connections—existing and potential
- Lead a team* with domain expertise & tech skills to:
 - Leverage library data **at scale** from different sources...
 - To answer questions and solve problems (usually for our colleagues) across the Libraries**...
 - AND improve resource discoverability and other user services.
- Consult on projects across the Libraries to increase chances of:
 - Effective use/reuse of currently available data
 - Making data/metadata/system decisions that support future use/reuse of data

* Library Data Strategy & Services (LDSS), and, psst, we have an open Metadata Librarian position right now ** University Libraries (my home), Health Science Library, and Law library

Still my job: E-resources Cataloger

- My section* handles cataloging for e-resource titles representing over half our annual monographs budget
 - 1028 collections with unsuppressed MARC records in the catalog
 - 1,263,251 ebook records
 - 43,162 streaming video records
 - 25,869 streaming audio records
 - 17,575 serial/integrating resource records
 - 66 MARC sources+workflows
- This work still makes sense in the Library Data Strategy & Services section



OCLC WorldShare Collection Manager (WCM) MARC

brief overview

*hilarious Photoshop by IUG regular Jeff Campbell

WCM is a knowledge base... Select (track) your collections...

🤣 WorldShare'					Need Help? 🔹 Kr User support info	istina Spurgin 🔍
Metadata Admin						
Record Manager	Search Collections with "", My Selected Collections					
▼ Collection Manager	Collection Actions 🔻					
Collection ~	Filter by Select Reset			Day		
Search Clear	Results 1 - 100 of 514	A Tumo (öttrikutor	Brauidar			4 0 > >
Close All Tabs Search Collections with "", My Selected Collections	Collection Collection Collection ID: CUP.cjo	Knowledge base collection Customizable	Cambridge University Press	03/24/2017 03:57 AM	Selected by my library Titles: 129/318 Deselect	snaring
Activity History	Collection ID: openly.jsCate.aepress	Knowledge base collection Customizable 	Academic Electronic Press	04/01/2017 04:24 PM	Selected by my library Titles: 0/16 Deselect	
Global Collections View Recent Collections	Collection ID: ACM.seriesPub	Knowledge base collection Customizable 	Association for Computing Machinery	03/14/2017 12:36 PM	Selected by my library Titles: 0/999 Deselect	
Create a Collection Settings	ACS Symposium Series eBooks - 2011 Front Files Collection ID: ACS.symp2011	Knowledge base collection Customizable 	American Chemical Society	03/17/2017 10:52 AM	Selected by my library Titles: 30/30 Deselect	
My Files	ACS Symposium Series eBooks - 2012 Front Files Collection ID: ACS.symp2012	Knowledge base collection Customizable 	American Chemical Society	03/17/2017 10:52 AM	Selected by my library Titles: 30/30 Deselect	
	ACS Symposium Series eBooks - 2013 Front Files Collection ID: ACS.symp2013	Knowledge base collection Customizable 	American Chemical Society	03/17/2017 10:52 AM	Selected by my library Titles: 35/35 Deselect	
	ACS Symposium Series eBooks - 2014 Front Files Collection ID: ACS.symp2014	Knowledge base collection Customizable 	American Chemical Society	03/17/2017 10:52 AM	 Selected by my library Titles: 30/30 Deselect 	V

A collection lists the titles in that collection...

🤣 WorldShare'							Need Help? User support info	 Kristina Spurgin
Metadata Admin								
Record Manager	Collection: ACS Symposium Serie	s eBooks - 2011 Front Files						
▼ Collection Manager	Save Contribute Changes to Glo	bal Collection 🔻 🛛 Deselect (Collection					
Collection ~	Properties							
?	► Linking							
My Selected Collections	 Holdings and MARC Records 							
Search Clear	Sharing							
🗙 Close All Tabs								More Actions \sim
Search Collections with "", My Selected Collections	Search within Search							
Collection: ACS Symposium Series eBooks - 2011 Front	My Selected Titles All Titles Titles	Format		Journal Coverage		Reset		
Activity History	 Titles available individually Titles with current issues 	E-book/Proceeding Audio	□ Image □ Video	Full Text Frint	Selected Full Text Abstracts	<u></u>		
Approve Changes to			□ Other			Results 1 - 30 of 30	Rows 100	∽ I< < 1 > >I
Global Collections			Title			Content Availability	Identifiers	Selections
View Recent Collections	100+ Years of Plastics. Leo Baekela	} and and Beyond				E-book/Proceeding: 2011-01-01	OCN: 763178021	Held by my library
Create a Collection							<u>VVebsite</u>	-
Settings	Advances in Cereal Science: Implica	<u>itions to Food Processing and H</u>	lealth Promotion		/	E-book/Proceeding: 2011-01-01	OCN: <u>768826883</u> ISBN: 9780841226364 Website	Held by my library
My Files	Amphiphiles: Molecular Assembly an	1d Applications			1	E-book/Proceeding: 2011-01-01	OCN: 760176585 / ISBN: 9780841226500 Website	Held by my library
	Aquatic Redox Chemistry				,	E-book/Proceeding: 2011-01-01	OCN: 760176586 / ISBN: 9780841226524 Website	Held by my library
	Biotechnology and Nanotechnology	Risk Assessment: Minding and !	Managing the Potential Th	reats around Us	/	E-book/Proceeding: 2011-01-01	OCN: 763176276	Held by my

There are a lot of settings at the collection level...

🤣 WorldShare"							Usi	Need Help? er support info	*	Kristina Spurgin	~
Metadata Admin											
Record Manager	Collection: ACS Symposium	Series eBooks - 2011 Front Files									
▼ Collection Manager	Save Contribute Changes	to Global Collection 🔻 Deselect Co	lection								
Collection ~	 Properties 										
?	▶ Linking										
My Selected Collections	- Holdings and MARC Record	İs									
Search Clear											
🗙 Close All Tabs	Maintain WorldCat Holdings	Use institution setting O Disable for this collection									
Search Collections with "", My Selected Collections	Data Sources	All approved data sources									
Collection: ACS Symposium Series eBooks - 2011 Front		 Selected data sources only Manual upload only 									
Activity History	ILL allowed	O Yes ● No									
Approve Changes to Global Collections	Instructions	Choose		~							
View Recent Collections	Export to Google Scholar	O Use institution setting									
Create a Collection		 Disable for this collection 									
Settings	Enable MARC Record Delivery	Use institution setting Disable for this collection									

Institution settings: MARC: Customization

F 110

Settings		
Save		
 MARC Records 		
Enable MARC Records Deliver	 Yes Your symbol is <u>NOC</u>. Your symbol is <u>NOC</u>. 	
5		
Customize Rec	ords WorldCat Updates Record Delivery Cataloging Partner Options	
Customiza	Beeerde	
	Records nformation included in your institution's MARC records. You can also control MARC ontions for an individual o	ollection at the collection level
All Collections	5	
Holding Libra Code (049 \$2	ny NOCC	
Delete Fields	Tag 029 V Ind 1 Any V Ind 2 Any V	😳 😑 Reset
	Tag 938 V Ind 1 Any V Ind 2 Any V	0 👄
Delete Subfie	Tag V Ind 1 Any V Ind 2 Any V Subfield V	😳 😑 Reset
Add Eioldo		
Aud Fields	Tag 773 Ind 1 0 V Ind 2 Blank V	😳 😑 Reset
	1 Subfield t ~	0 🗢
	Value Collection Custom Text ~	0 🖨
	Custom Text Number Field 1 ~	
	Tag 598 Ind 1 Blank ~ Ind 2 Blank ~	0 🖨
	1 Subfield a -	0 🖨
	Value Enter Free Form Text ~	0 👄
	Enter text Reason for updated record:	

Institution settings: MARC: What constitutes an

update?

Save				
Enable MARC Records Delivery	● Yes Your symbol ○ No	is <u>NOC</u> .		
Customize Records	WorldCat Updates	Record Delivery	Cataloging Partner Options	
Updates Select the option fo O None O Based on o D Based on o Update Conditions	or WorldCat Updates. changes to WorldCat ma changes to WorldCat ma	ster records for my k ster records for my k	nowledge base and query collection nowledge base, query, data sync o	ons collections and WorldCat holdings
Define criteria to de	etermine when you woul	d like to receive upda	ted records based on changes to	the WorldCat master record.
 Any chang Select optic 	e to the WorldCat maste ons for specific changes	r record to the WorldCat mas	ter record	

Deliver records if the following fields are added, updated, or	Tag 1 v X v	X v Ind 1 Any v	Ind 2 Any V	😳 🖨 Reset
	Tag 2 ~ 4 ~	X ~ Ind 1 Any ~	Ind 2 Any ~	0 🖨
master record:	Tag 4 ~ 9 ~	0 ~ Ind 1 Any ~	Ind 2 Any V	0 🖨
	Tag 6 ~ X ~	X ~ Ind 1 Any ~	Ind 2 0 ~	0 🖨
	Tag 6 v X v	X ~ Ind 1 Any ~	Ind 2 2 ~	0 🖨
	Tag 7 ~ 0 ~	X ~ Ind 1 Any ~	Ind 2 Any ~	0 🖨
	Tag 7 ~ 1 ~	X ~ Ind 1 Any ~	Ind 2 Any V	0 🖨
	Tag 7 🗸 3 🗸	X 🗸 Ind 1 Any 🗸	Ind 2 Any V	0 🖨

Institution settings: MARC: Delivery

Se	ttings				
Sav	/e				
r	r roviaci ocuingo				
+	Sharing				
+	WorldCat Discovery				
•	MARC Records				
	Enable MARC	• Yes Your symbol	is <u>NOC</u> .		
	Records Delivery	○ No			
	Customize Records	WorldCat Updates	Record Delivery	Cataloging Partner Options	
	Record Delivery				
	Customize how often a	and under what conditio	ons your records will b	e delivered.	
	Standard	MARC 21 with UT	F-8 Unicode	~	
	Delivery Frequency	Weekly 🗸 🤇	2		
	File Output	🔽 Deliver my seri	iale in a conarato filo ((cor)	
	-			(.567)	
		Deliver records	s for WorldCat update	s in a separate file (.wcholdings)	
		de la companya de la			

Back at the COLLECTION level...

Contribute Chang	es to Global Collection Deselect Collection
nable MARC Record	Use institution setting
)elivery	O Disable for this collection
Customize Records	Record Delivery
Embed Local Bibliographic Data	Ose institution setting
Bibliographic Data	O Disable for this collection
Interleave Local	Ose institution setting
Holaings Records	O Disable for this collection
OCLC Symbols	Ose institution setting
	\odot Use these symbols for LHRs and local bibliographic data
	Enter OCLC Symbols
MARC Custom Text	
Custom Text 1	ACS symposium series (online collection). 2011
Custom Text 2	

There are some MARC delivery settings for each collection...

Contribute Changes t	o Global Collection 🔻 Deselect Collection
holar	\odot Use institution setting
	Oisable for this collection
nable MARC Record	Ose institution setting
elivery	O Disable for this collection
Customize Records R	ecord Delivery
Delivery Frequency	 Use institution setting Specify delivery frequency for this collection Daily
Subsequent Record Output	igodoldoldoldoldoldoldoldoldoldoldoldoldol
Delivery File Output	 Deliver records for this collection in the same file as other collections Deliver records for this collection in a separate file ACS Isolate this file output from other collection activity
Record Output	 Isolate this file output from other collection activity Include records already held in WorldCat
-	

My Files > Downloads

Downloads				
Filter by Select ~ Reset	~~			
Results 1 - 10 of 1674 📀				Rows 10 v K 1 2 3 4 5 >>
File Name	File Type	Size	Post Date 🔹	Download Date Action
metacoll.NOC.updates.D20170330.T183014.SPRolder.1.mrc	Records - Updated	196,255 KB	03/31/2017	Download
metacoll.NOC.updates.D20170330.T183014.SPR2016.1.mrc	Records - Updated	27,678 KB	03/31/2017	Download
metacoll.NOC.updates.D20170330.T183014.Video.1.mrc	Records - Updated	170 KB	03/31/2017	Download
metacoll.NOC.updates.D20170330.T183014.SciDir.1.mrc	Records - Updated	12,001 KB	03/31/2017	Download
metacoll.NOC.updates.D20170330.T183014.SerAsMono.1.mrc	Records - Updated	1,315 KB	03/31/2017	Download
metacoll.NOC.updates.D20170330.T183014.SPRgratis.1.mrc	Records - Updated	9,959 KB	03/31/2017	Download
metacoll.NOC.updates.D20170330.T183014.SPR2017.1.mrc	Records - Updated	8,912 KB	03/31/2017	Download
metacoll.NOC.updates.D20170330.T183014.DGprinceton.1.mrc	Records - Updated	14,780 KB	03/31/2017	Download
metacoll.NOC.updates.D20170330.T183014.RSC.1.mrc	Records - Updated	5,127 KB	03/31/2017	Download
metacoll.NOC.updates.D20170330.T183014.SPIE.1.mrc	Records - Updated	1,268 KB	03/31/2017	Download
Results 1 - 10 of 1674 📀				Rows 10 ~ K < 1 2 3 4 5 >>

A little digression on Delivery File Output...





Our mess

WCM MARC-related

Our initial setup:

- Receive add/update/delete files
- Over 250 collections set up for MARC delivery
- Collections output to ~15 files for MARC delivery
- Some files being delivered monthly, others every 2 weeks



Our initial workflow:

- Use regular e-book batch load profile
- Some steps were the same for all WCM collections:
 - Identifying/retrieving files
 - Pre-processing files
 - Some editing steps:
 - Removal of "=598 Reason for updated record:"
 - Cleanup of OCNs
 - Addition of "wcm" suffix to OCNs
 - Routine cleanup done on all OCLC batch records



Our initial workflow:

- File/collection-specific steps
 - # of concurrent users
 - Perpetual access or not
 - Collection-specific ID suffix
- THEN...
 - Back to overall WCM workflow for load notes and procedure





And the complexity grew: What should be simple...

- Train staff to identify/download the correct/complete files...
 - For a given file/set (i.e. SciDir)...
 - For a given date

Downloads					
Filter by Select ~ Reset					
Results 1 - 10 of 1674 🛛 💭				Rows 10 V 1<< 1 2	345>>
File Name	File Type	Size	Post Date 🔹	Download Date	Action
metacoll.NOC.updates.D20170330.T183014.SPRolder.1.mrc	Records - Updated	196,255 KB	03/31/2017		Download
metacoll.NOC.updates.D20170330.T183014.SPR2016.1.mrc	Records - Updated	27,678 KB	03/31/2017		Download
metacoll.NOC.updates.D20170330.T183014.Video.1.mrc	Records - Updated	170 KB	03/31/2017		Download
metacoll.NOC.updates.D20170330.T183014.SciDir.1.mrc	Records - Updated	12,001 KB	03/31/2017		Download
metacoll.NOC.updates.D20170330.T183014.SerAsMono.1.mrc	Records - Updated	1,315 KB	03/31/2017		Download
metacoll.NOC.updates.D20170330.T183014.SPRgratis.1.mrc	Records - Updated	9,959 KB	03/31/2017		Download
metacoll.NOC.updates.D20170330.T183014.SPR2017.1.mrc	Records - Updated	8,912 KB	03/31/2017		Download
metacoll.NOC.updates.D20170330.T183014.DGprinceton.1.mrc	Records - Updated	14,780 KB	03/31/2017		Download
metacoll.NOC.updates.D20170330.T183014.RSC.1.mrc	Records - Updated	5,127 KB	03/31/2017		Download
metacoll.NOC.updates.D20170330.T183014.SPIE.1.mrc	Records - Updated	1,268 KB	03/31/2017		Download
Results 1 - 10 of 1674 🛛 🌍				Rows 10 ~ << 1 2	345>>

And the complexity grew: Replacement: New + Delete

Ebook title in collection: Can cats and goats coexist?

Previous OCN association:

001 12345

245 Engineering dictionary

Corrected OCN association:

001 98765

245 Can cats and goats coexist?

In next record delivery after correction:

DELETE RECORD SENT

001 12345

245 Engineering dictionary

NEW RECORD SENT

001 98765

245 Can cats and goats coexist?

And the complexity grew: Replacement: Merge/update

Ebook title in collection: Tuxedo menagerie



At this point, I wrote the first iteration of a WCM pre-processing script.



And then things got worse...

2016-06-16

In Millennium

System went down, seemingly related to very long variable fields in overlaying records.

2016-09-16 We resume batch loads in production

^-- THREE MONTHS HAS ELAPSED



2016-09-16: WCM status



3 months of add+change+delete files for ~15 WCM filesets



Cries for help

1. OCLC cannot output a fresh set of base files

2. OCLC **strongly advises** against de-selecting and re-selecting all MARC collections to get fresh record sets.

3. "Include a complete set of records with every delivery" option now available, but only at collection level.

The workable solution: "Include a complete set of records with every delivery"

PROS

- It'll work
- Will always have latest complete files
 - Less tied to specific schedule of prep/load (if workflow is right)
- Less confusing for staff to get the right files
 - Mistakes easier to remedy



The workable solution: "Include a complete set of records with every delivery"

CONS

- Reset delivery option on ~250 collections... manually
- Requires completely rethinking workflow
- Especially in light of...



Another twist

minimize authority control vendor costs



Full-file workflow: what do we actually need?

- Only load updates that have changed
- Know which changes affected AC headings



- This is already too complex for a manual workflow.
- So, since I'll be writing some code...

Full-file workflow: what else would we like to do?

- No authority control for records w/ low encoding level (LDR/17)
- Have flexibility to follow our own processing/load schedule



Expectation vs. reality

"Include a complete set of records with every delivery"

My expectation (weekly delivery):





Our needs: Routine monthly load for most sets, but weekly delivery to ensure a relatively fresh full set at any time





Solution!

Script + new load profile + workflow

So I wrote (yet another) script

https://github.com/UNC-Libraries/MARC-record-set-wrangler

- Goal:
 - Create a solution to all pieces of the WCM problems I've mentioned...
 - That my staff can run in one step (complexity is mainly hidden)...
 - AND do it in such a way that hopefully other people can use it
 - Don't hard-code UNC-specific practices
 - Make it all configurable

So I wrote (yet another) script

https://github.com/UNC-Libraries/MARC-record-set-wrangler

- Result:
 - Just for us: utility will go far beyond WCM MARC processing
 - Complexity is all in setting up the configuration
 - But that part is my job, so it's ok
 - Is it potentially useful to others?
 - You tell me...



Collection-level configuration

```
collections:
  WCM - SPR2016:
    id affix value: 'SPR2016'
    add MARC field spec:
      - tag: '773'
        i1: '1'
        i2: * *
        subfields:
          - delimiter: 't'
            value: 'OCLC WorldShare Collection Manager managed collection. SpringerLink 2016'
      - taq: '590'
        i1: ' '
        i2: ' '
        subfields:
          - delimiter: 'a'
            value: 'Provider: SpringerLink.'
      - tag: '506'
        il: 'l'
        i2: ' '
        subfields:
          - delimiter: 'a'
Ι
            value: 'Access limited to UNC Chapel Hill-authenticated users.'
          - delimiter: 'f'
            value: 'Unlimited simultaneous users'
      - tag: '949'
        i1: ' '
        i2: '1'
        subfields:
          - delimiter: 'q'
            value: '1'
          - delimiter: 'l'
            value: 'ebnb'
          - delimiter: 't'
            value: '11'
          - delimiter: 'r'
            value: 'n'
          - delimiter: 'h'
            value: '0'
          - delimiter: 'u'
            value: '-'
          - delimiter: 'n'
            value: 'Perpetual access'
```

workflows: WCM - routine update using most recent whole file + last whole file: clean ids: - find: '^o(c[mn]|n)' replace: '' - find: ' *\$' replace: '' - find: '\\\$' replace: '' use id affix: true affix type: 'suffix' id affix value: 'wcm' use existing record set: true overlay merged records: true manipulate 019 for overlay: true flaq overlay type: true set record status by file diff: true report record status counts on screen: true omit from comparison fields: - taq: '005' - tag: '019' NEW: ' add' - taq: '035' - tag: '598' field has: 'Reason for updated record:' - tag: '655' field has: 'Electronic book' - tag: '773' field has: '\ (online collection\) ' - taq: '938' - taq: '994' - tag: '999' omit from comparison subfields: '040': 'cd'

Workflow-level configuration

flag rec status: true incoming record output files: CHANGE: '_change' STATIC: '_static' NEW: '_add' produce delete file: true report delete count on screen: true elvl sets AC status: true add AC MARC fields: false add noAC MARC fields: false add noAC MARC fields: true flag AC recs with changed headings: true warn about non-e-resource records: true warn about cat lang: true warn about cat lang: true log warnings: true

institution:
main id: '001'
merge id: '019a'
cat lang:
- 'eng'
overlay type flag spec:
- tag: '999'
i1: '9'
i2: '9'
subfields:
- delimiter: 'a'
value: 'Overlay type'
- delimiter: 'b'
<pre>value: '[OVTYPE]'</pre>
warning flag spec:
- tag: '999'
i1: '6'
i2: '6'
subfields:
- delimiter: 'a'
value: 'WARNING'
- delimter: 'b'
<pre>value: '[WARNINGTEXT]'</pre>
rec status flag spec:
- tag: '999'
i1: '7'
i2: '7'
subfields:
- delimiter: 'a'
value: 'Record status'
- delimiter: 'b'
value: '[RECORDSTATUS]'

el

elvl AC map:
'2': 'noAC'
'3' 'noAC'
'4': 'ncAC'
'5': 'noAC'
'7': 'noAC'
'8': 'noAC'
'K': 'noAC'
'L': 'noAC'
'M': 'noAC'
'J': 'noAC'
' ': 'AC'
'1': 'AC'
'I': 'AC'
fields under AC:
- tag: '1'
- tag: '240'
- tag: '4([04]0 1[01])'
- tag: '490'
i1: '0'
- tag: '6([013]. 5[01])'
i2: '[012]'
- tag: '6([013]. 5[01])'
12: '7'
field has: '\\$2(lcsh mesh lcac)'
- tag: '655'
12: '0'
field does not have: '\\$aElectronic book'
- tag: 16551
Ileid nas: '\\$2(lcsn mesn lcgIt gsaId)'
Ileid does not nave: '\\$aElectronic book'
- tag: '/([U3]U[1[U1])' #/UU, /10, /11, /30

- taq: '8([034]0|1[01])'

```
Institution-level
 configuration
```

add noAC MARC spec: - tag: '915' il: ' ' i2: ' ' subfields: - delimiter: '9' value: 'NOTAUTHO' - tag: '949' il: ' ' i2: ' ' subfields: - delimiter: 'a' value: '*b3=x' changed heading MARC spec: - tag: '599' i1: ' ' i2: ' ' subfields: - delimiter: 'a' value: 'LTIEXP'

730

Using the thing...

PS Microsoft.PowerShell.Core\FileSystem::\\ad.unc.edu\lib\departments\TechServ\ESM\e-resources cataloging\E-book record loads\WCM - OCLC WorldShare Collection Manager\OCLC-WorldShare-MARCprocessing> <mark>ruby</mark> .\MARC_set_wrangler.rb

1) WCM - routine update using most recent whole file + last whole file 2) WCM - whole file - new or fresh reload 3) WCM - routine update using most recent whole file + current ILS set Which of the above workflows do I use? 1

Using the thing...

1) WCM - ACS	
2) WCM - AGU	
3) WCM - AMS	
4) WCM - CTAO	
5) WCM - CUP	
6) WCM - DGcolumbia	
7) WCM - DGedition	
8) WCM $=$ DChanzand	
0) WCM - DGharvaru 0) WCM - DChonn	
10) WCM - DOpenn 10) WCM - DConincoton	
11) WCM - DGPHINCECON	
177 WCM - DYNCUP	
127 WCM - EMS	
IJJ WCM - GSW	
142 WCM - RSC	
IZŽ WCM – SPIE	
IO) WCM – SPRZQIO	
1/) WCM - SPR201/	
18) WCM - SPRgratis	
19) WCM - SPRolder	
20) WCM - SciDir	
21) WCM - SerAsMono	
22) WCM - Video	
Which of the above collect	ions do I use? 16

Using the thing...

Grabbed 6396 records from the following incoming_marc files: SPR2016_D20170319_new_1.mrc SPR2016_D20170319_updates_1.mrc

Grabbed 5937 records from the following existing_marc files: SPR2016_D20161221_updates_1.mrc

The suffix wcmSPR2016 will be added to 001, 019a.



Results: the output folder

\leftarrow \rightarrow \checkmark \uparrow \square \ll OCLC-WorldShare-MARC-processing	> output
Name	Size
SPR2016_D20170319_new_1_add.mrc	2,382 KB
SPR2016_D20170319_new_1_change.mrc	7,068 KB
SPR2016_D20170319_new_1_deletes.mrc	101 KB
👪 SPR2016_D20170319_new_1_log.csv	8 KB
SPR2016_D20170319_new_1_static.mrc	21,718 KB



Results: log file

	A	В	C	D	E
1	filename	recid	warning		
2	incoming_marc/SPR2016_D20170319_updates_1.mrc	186543952	Not our language of cataloging		
3	incoming_marc/SPR2016_D20170319_updates_1.mrc	701369029	Not an e-r	resource re	cord?
4	incoming_marc/SPR2016_D20170319_updates_1.mrc	944061786	Not our la	nguage of	cataloging
5	incoming_marc/SPR2016_D20170319_updates_1.mrc	944066684	Not our la	nguage of	cataloging
6	incoming_marc/SPR2016_D20170319_updates_1.mrc	946550919	Not our la	nguage of	cataloging
7	incoming_marc/SPR2016_D20170319_updates_1.mrc	950926105	Not our la	nguage of	cataloging
8	incoming_marc/SPR2016_D20170319_updates_1.mrc	950929612	Not our la	nguage of	cataloging
9	incoming_marc/SPR2016_D20170319_updates_1.mrc	950930675	Not our la	nguage of	cataloging
10	incoming_marc/SPR2016_D20170319_updates_1.mrc	950931650	Not our la	nguage of	cataloging
11	incoming_marc/SPR2016_D20170319_updates_1.mrc	950932625	Not our la	nguage of	cataloging
12	incoming_marc/SPR2016_D20170319_updates_1.mrc	950933662	Not our la	nguage of	cataloging
			l .	-	

Results: MARC from Change file

=999 66\$aWARNING\$Not an e-resource record?

- =LDR 03735cam a2200649la 4500
- =001 701369029wcmSPR2016 -
- =003 OCoLC
- =005 20170320101230.6
- =008 110104s2011\\\\ne\ab\\\\b\\\\001\0\eng\d
- =019 \\\$a704395405wcmSPR2016\$a704518941wcmSPR2016\$a771427754wcmSPR2016 -
- =020 \\\$a9400702760\$q(print)
- =020 \\\$a9400702779\$q(electronic bk.)
- =020 \\\$a9789400702769\$q(print)
- =020 \\\$a9789400702776\$q(electronic bk.)
- =020 \\\$z9789400702769
- =035 \\\$a(OCoLC)701369029\$z(OCoLC)704395405\$z(OCoLC)704518941\$z(OCoLC)771427754

=040 \\\$aQE2\$beng\$epn\$cQE2\$dGW5XE\$dEBLCP\$dOCLCQ\$dVPI\$dUKMGB\$dOCLCQ\$dN{dollar}T\$dE7B5 \$dDEBSZ\$dOCLCQ\$dIDEBK\$dJG0

- =050 \4\$aRC152\$b.K35 2011
- =245 00\$aKala azar in South Asia : \$bcurrent status and challenges ahead / \$cT.K. Jha, E. Noiri, editors.
- =260 \\\$aDordrecht ;\$aNew York :\$bSpringer,\$c©2011.
- =300 \\\$axi, 148 pages :\$billustrations, maps
- =504 \\\$aIncludes bibliographical references and index.

Results: MARC from Change file

- =506 1\\$aAccess limited to UNC Chapel Hill-authenticated users.\$fUnlimited simultaneous users
- =590 \\\$aProvider: SpringerLink.
- =650 $\0\aKala-azar\xDiagnosis\zSouth$ Asia.
- =650 $\0\aKala-azar\xTreatment\xHistory$.
- =700 1\\$aJha, T. K.,\$cMRCP, DTM.
- =700 1\\$aNoiri, E.\$q(Eisei)
- =773 0\\$tSpringer e-books (online collection). Biomedical and life sciences. 2016
- =773 1\\$tOCLC WorldShare Collection Manager managed collection. SpringerLink 2016 -
- =856_40\$uhttp://libproxy.lib.unc.edu/login?url=http://link.springer.com/10.1007/978-94-007
- =949 \1\$g1\$lebnb\$t11\$rn\$h0\$u-\$nPerpetual access
- =999 66\$aWARNING\$Not an e-resource record?
- =999 77\$aRecord status\$bCHANGE -
- =999 99\$aOverlay type\$bOVERLAY on 001

Results: Authority control changes

Previous/existing record:

=001 ocn958270280
=100 1\\$aQuirk, Thomas Joseph,\$eauthor.

=700 1\\$aCummings, Simone,\$eauthor.

Incoming -> output record:

=001	958270280wcmSPR2016				
=100	1\\$aQuirk, Thomas J.,\$eauthor.				
=599	\\\$aLTIEXP 🔶				
=700	1\\$aCummings, Simone,\$eauthor.				

Results: Authority control status

Incoming -> output record:

- =LDR 03770cam a2200673M 4500
- =050 \4\$aHC401
- =245 00\$aEconomic Crisis, Development and Competitiveness in
- Southeastern Europe\$bTheoretical Foundations and Policy Issues.
- =260 \\\$bSpringer Verlag\$c2016.
- =300 \\\$a1 online resource
- =700 1\\$aKarasavvoglou, Anastasios G.\$4edt
- =700 1\\$aKyrkilis, Dimitrios.\$4edt
- =700 1\\$aMakris, Georgios.\$4edt
- =700 1\\$aPolychronidou, Persefoni.\$4edt
- =915 \\\$9NOTAUTHO -
- =949 \\\$a*b3=x 🛶

New load profile

Main changes:

- On overlay:
 - Protect CAT DATE
 - Do not add item record if one already exists
 - Protect 915 (option d)
 - Protect 599 (option n)



Workflow

- 1. Retrieve files
- 2. Run through script using:
 - a. routine workflow config
 - b. appropriate collection config
- 3. Edit new/updated records for load
- 4. Load new + updated records
- 5. Post load queries/global updates
- 6. Deletes

Workflow

incoming elvl	script AC compare re 😁	script AC fields added 😁	in ILS 🔷	Type 🕋 after load	🔫 post load list logic	🕋 post load action	🕋 final coding	Will be pulled to send to LTI?
low	changes to headings	bcode3=x	bcode3=-	overlay bcode3=x	search on: overlay review file	Change bcode3: x -> -	bcode3=-	У
		599 LTTEXP	915 Under Authority Control	599 LTIEXP	bcode3=x		599 LTIEXP	
		915 NOT AUTHO		915 Under Authority	915 Under Authority Control		915 Under Authority Control	
low	no changes to headi	r bcode3=x	bcode3=-	overlay bcode3=x	search on: overlay review file	Change bcode3: x -> -	bcode3=-	n
		915 NOT AUTHO	915 Under Authority Control	915 Under Authority	bcode3=x		915 Under Authority Control	
				Control	915 Under Authority Control			
low	changes to headings	DCODE3=X	DCODE3=X	overlay bcode3=x	search on: overlay review file	Delete 599 LITEXP	DCODE3=X	n
		599 LITEXP	312 NUTAUTHU	599 LITEXP	DCODE3=X		915 NOT AUTHO	
		915 NOT AUTHO		915 NOT A0THO				
low	no changes to headi	r boode3-v	brode3-v	overlav brode3-v	JSS EITEAP		brode3-x	n
1000	no changes to heading	915 NOT ALITHO	915 NOT AUTHO				915 NOT AUTHO	"
high	changes to headings	599 LTIEXP	bcode3=x	overlav bcode3=-	search on: overlay review file	Add v599 LTIEXP	bcode3=-	V
			915 NOT AUTHO	599 LTIEXP	bcode3=-	Delete 915 NOT AUTHO	599 LTIEXP	,
				915 NOT AUTHO	915 NOT AUTHO	Delete duplicate field: 599		
high	no changes to headi	r.	bcode3=x	overlay bcode3=-	search on: overlay review file	Add y599 LTIEXP	bcode3=-	У
			915 NOT AUTHO	915 NOT AUTHO	bcode3=-	Delete 915 NOT AUTHO	599 LTIEXP	
					915 NOT AUTHO	Delete duplicate field: 599		
high	changes to headings	599 LTTEXP	bcode3=-	overlay bcode3=-			bcode3=-	У
			915 Under Authority Control	599 LTIEXP			599 LTIEXP	
				915 Under Authority			915 Under Authority Control	
high	no changes to headi	r.	bcode3=-	overlay bcode3=-			bcode3=-	n
			915 Under Authority Control	915 Under Authority			915 Under Authority Control	
				Control				
high	n/a		n/a	insert CAT DATE NEW			CAT DATE NEW	У
low	n/a	bcode3=x	n/a	insert CAT DATE NEW			CAT DATE NEW	n
		915 NULAUTHU		bcode3=x			bcode3=x	
hi.ah	ne changes to boardi		banda?-	915 NULAUTHU		i	915 NULAUTHU	
mgn	no changes to neaun	Γ.	COULES=-					y, chough tocal changes were
			333 LIILAF	JJJ EITEAF			JSS EITEAP	in WorldCat
high	changes to headings	599 LTLEXP	brode3=-	overlay brode3=-			bcode3=-	v
s.''	includes to neodings		599 LTIEXP	599 LTIEXP			599 LTIEXP	'
				599 LTIEXP			599 LTIEXP	
1								

Limitations

and/or, future improvements



Limitation

Comparing previously downloaded file to most recent downloaded file:

- Avoids the complexity of comparing unedited records in downloaded files with edited + loaded records
- BUT
 - can't account for authority control or other changes made in ILS since load



Initial intention for this

- Use Sierra API to grab relevant MARC records from ILS on the fly and compare to downloaded file
- Set up a separate workflow config to omit from comparison:
 - Fields/subfields routinely manipulated in pre-load processing
- We've been on Sierra in production less than a month, so I haven't done this yet... plus...



Limitation: Workaround

- Export relevant record set from ILS via data exchange.
- Use workflow accounting for edited vs. non-edited files.
- BUT, for some sets:
 - Entire record sets came back as "Changes" when they looked identical.
- I know exactly what the problem is, but haven't been able to figure out a way around it...



Known issues: character encoding will mess you up



Other things I want to add



- Have log file tell you what file a reported record was written
 to in addition to source file
- Check file for records with duplicate main ids
- Automated testing (but...)
- Ideally, an easier user experience (but...)
- etc.



Questions?

Comments? Discussion?

Gimlet





Emerson





Toddy



Hermes



Hestia

Thank you!