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of ADELAIDE



CRICOS PROVIDER 00123M

A journey of many steps

Alma Integration with Libraries Australia

adelaide.edu.au

seek LIGHT

The practical stuff

The basics

- All the records you want to send to Libraries Australia must be tagged “Publish to Libraries Australia”
- Publish flag can be set individually, by a bulk process or on bulk import
- Holdings you don’t want to send should be suppressed from discovery
- Detailed journal holdings can be mapped from the holdings record
- Holdings with no inventory (including linked bibs) will not be published
- Electronic inventory will not be published (yet)
- Regular job you can schedule

Configuring the publish profile

- Set up an FTP integration for Libraries Australia under General Configuration>External Systems>S/FTP definitions

Name	Libraries Australia Record Import		
Description	FTP server details for publishing to Libraries Australia		
Server	ftp.librariesaustralia.nla.gov.au	UserName	[REDACTED]
Port	21	Password	[REDACTED]
Root directory	-	Max. Number of Files	1
Max. Number of Files	1	Max. file size	1
Size type	GB	Allow Navigation	True
Server Secured	No	FTP Passive Mode	No
Server Type	Default		



Configuring the publish profile (cont.)

- Configure publish settings under Resource Management Configuration>Record export>Publishing profiles

Profile name *	Publish holdings to Libraries Australia	
Profile description	Upload Holdings to Libraries Australia	
NUC Code *	SUA	
Run full publishing	<input type="checkbox"/>	
	<input checked="" type="radio"/> Call number <input type="radio"/> Label	HELD
FTP configuration *	Libraries Australia Record Import	Sub-directory * Import
Status	<input checked="" type="radio"/> Active <input type="radio"/> Inactive	
Scheduling	Every Saturday at 05:30	Email Notifications

Configuring the publish profile (cont.)

- If you have additional NUC codes, set them up in Resource Management Configuration>Record export>Institution NUC symbol

	Enabled	Library Code	Symbol
1		W	SUA:W
2		R	SUA:R

Alma will add a 984 for each NUC where holdings exist

Configuring the publish profile (cont.)

- Set up mapping for holdings: Resource Management Configuration>Record export>Map Holdings fields into Bib record Libraries Australia

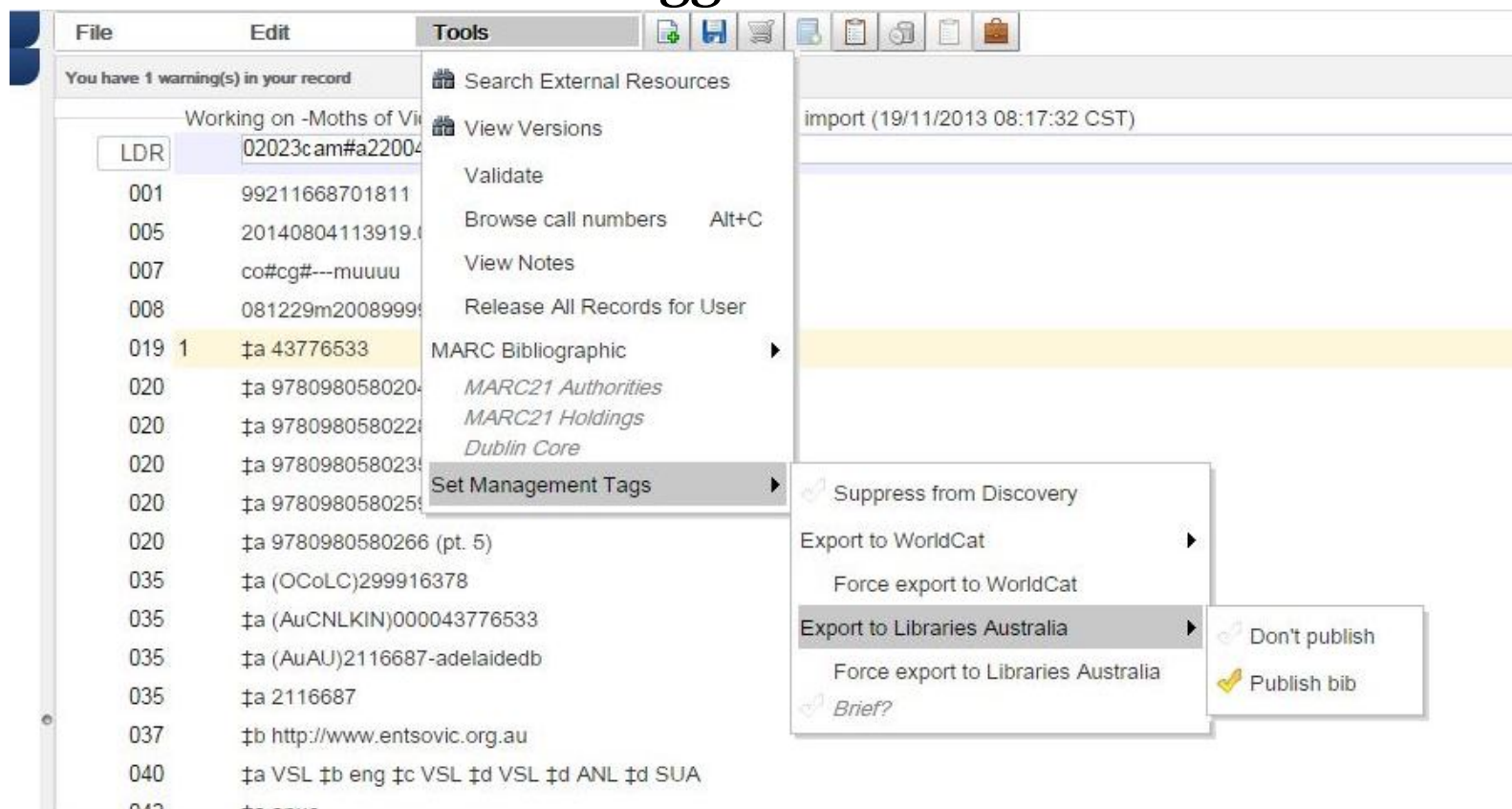
Mapping Table Rows						
	Enabled	targetCode	holdingTag	holdingSubfield	bibTag	bibS
1	<input checked="" type="checkbox"/>	866\$a to 984\$d	866	a	984	d

Maps Holding 866\$a to 984\$d

How does it work?

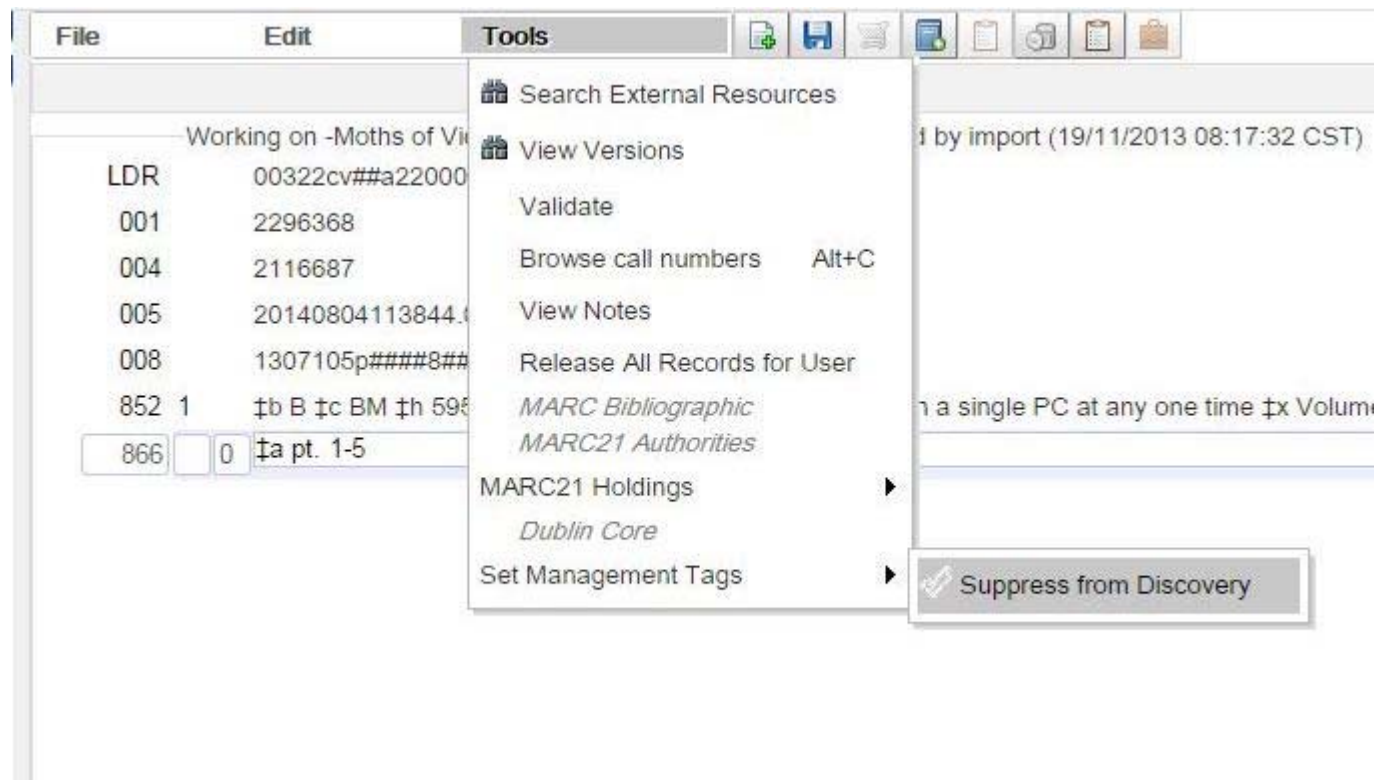
How it works:

- If a bib record is tagged Publish to Libraries Australia:



How it works (cont.)

- And the bib record has physical inventory which is not suppressed from discovery:



How it works (cont.)

- When the bib or attached holdings record are updated in Alma after the last publish to Libraries Australia, it is a candidate to be republished to Libraries Australia
- When the job is run, Alma will check the record against the previously published version to verify that the data is changed
- It will place a copy of that record in a file, with the ANBD number from the 019 1_ tag in the 001 tag, and a 984 tag built from attached unsuppressed holdings records. This will either store the Call no. from 852\$h or the word “HELD”

How it works (cont.)

- If a holding is deleted, Alma will add a copy of that record to the delete file, with a 984\$c delete for the each NUC with deleted holding(s)
- If a record's Publish to Libraries Australia tag, or Suppress from Discovery tag is changed to No, a copy of the record is placed in the delete file for all holdings (Don't publish bib) or selected holdings (where the change only affects a specific holding)
- No additional normalisation is possible as part of the Publish process

How it works (cont.)

- For migrated institutions: an initial full publish is needed to synchronise all holdings on the NBD and report new local system numbers to Libraries Australia
- Create a set of records to tag in bulk (optional)
 - We chose all bib records with 035 tags starts with (AuCNLKIN)* and Tag suppressed = No; we should have excluded items with process type Acquisition
- Create a set of all Physical titles where Tag Sync National Catalog equals "Publish Bibliographic records"
 - This is your set of records to include in the full publish

How did we get here?

A little history

- **Oct 2010 – first meeting of ANZ Collaborative Partners**
- **Nov 4 2011 priority for developing regional requirements set – to be included in Plan for Joint Development**
- **Jun/Jul 2012 Specifications discussed among partners**
- **Jul 5 2012 Final FSD distributed**

A little further history

- **Oct 2012 – final meeting of ANZ Collaborative Partners**
 - Regional requirements now to be tested as part of implementation, based on go-live requirements
 - RMIT and Swinburne required integration with Libraries Australia as a go-live requirement for Q1 2013
- **June 2012 – University of Adelaide begins its Alma implementation**
 - Decide to include Libraries Australia integration testing as part of implementation
- **Nov 26 2013 – University of Adelaide live with Alma**

Implementation testing: Aug-Dec 2013

- **Issues**
 - Disconnect between search and Publish (019 v. 035)
 - Search & import/merge via External target corrupts fixed fields, turning “#” to “^”, and control fields, where “ ” becomes “^”
 - Libraries Australia-sourced bibs migrated to Alma without setting the “Publish to Libraries Australia” field to yes. Majority of records tagged at the holdings level only
 - No way to set this tag via bulk process (fixed Dec 2013)
 - Unable to see from Repository MARC view which External system a record was tagged to synchronise (fixed Jan 2014)
 - Problems with format of 984
 - Problems with journal holdings data

Implementation testing (cont.)

- Only bibliographic records could be tagged to Publish to Libraries Australia, unlike previous system
- Suppressed holdings being published
- Local call number tags being published
- All 035 tags being published
- No local system number being sent (required by Libraries Australia)
- Publish files in wrong character set, Unicode instead of UTF-8
- **Most fixed by March 2014 Alma release**
 - Delete file still under development at that time

Data messages, pre-migration

- Aug-Nov 2013: about $\frac{3}{4}$ of our records (bib and holdings) touched, some multiple times
 - Move 984 data from bib to holdings; use 984\$d\$e to create 866\$a; move 984\$f to 866\$z
 - Move existing 866\$z data to 866\$a
 - Copy 019 1_ \$a to formatted 035 \$a
 - Delete old 035\$9 fields
 - Create linking fields for journal volumes with distinctive titles using 773 tags
 - Clean up invalid 008 language codes

Data messages, post-migration

- During 2014:
 - Move old data migrated into 852\$j – being included in call no. when not applicable
 - Used normalisation rule provided by Alma to create 866 tags from 853/863 pairs where 866 tag not present
 - A current project to transfer journals to storage sees a summary holding with data in 866\$a and other holdings with detailed location data in 866\$z (not sent to Libraries Australia)

Working with Ex Libris

- **Weekly integrations calls with Development, Sept. 2013-**
 - Libraries Australia integration always included as a “top 5” need (although not worked on continually during this time)
 - Regular fixes were included for identified issues
 - Still-required crucial changes notified Dec. 2013
- **Jan 2014 Adelaide asked to engage in QA on the publish process with a view to begin publishing in February 2014**
 - We highlighted the need to involve Libraries Australia staff in further testing.
- **Also in conversation with other Australian implementers on the progress of testing**

Engagement with Libraries Australia

- **Aug 1 2013 – alerted Libraries Australia to our move to Alma; checked no problem with Alma sending only ‘B’ and ‘D’ files**
- **Needed to bulk tag records to Publish - first publish file will include most of database contents**
- **Libraries Australia require new Alma LSNs – so full refresh needed anyway, could take months; some time lag guaranteed.**

Getting all parties involved

- Other implementers working separately with Ex Libris and Libraries Australia – co-ordination needed
- Delay in getting Ex Libris to include Libraries Australia in testing and development
 - concerned mostly with getting the job running and then dealing with the refresh problem
 - hadn't realised the importance of the LSN to Libraries Australia
- Meanwhile Adelaide agreed to proceed with a full publish (file to be archived) and Ex Libris would provide a catch-up method; full publish produced April 15 2014 (918, 476 bib records) and archived locally

Getting all parties involved (cont.)

- Ex Libris and Libraries Australia began talks and local community asked not to send any further publish files until mechanism perfected, at Libraries Australia's request (Apr 2014)
- Mid-Jul 2014 – Adelaide asked to provide test file of about 10,000 records
- Jul-Oct 2014 Adelaide participated in weekly calls with Ex Libris and Libraries Australia to progress testing

Joint testing

- **Libraries Australia feedback on test files**
 - Delete file records did not include 984 tag
 - Detailed discussions between Development and Libraries Australia to clarify behaviour of deletes, especially where multiple holdings at different locations (finalised end Jul)
- **Issue with records with no 019 tag – clarified no 001 tag should be sent**
- **Discussed providing a concordance file of Voyager IDs mapped to new Alma IDs**
- **Adelaide agreed to test ongoing publication for a week, and test direct FTP functionality to Canberra**

Joint testing (cont.)

- Issues were assigned a severity level (blocker, medium) to assist Development to prioritise
- Ex Libris clarified elements of the process
 - What triggers a publish?
 - What are the “Unpublished records” in the job report?
- Ex Libris agreed to send test files from other institutions, and contacted Flinders University and the University of South Australia

Outstanding issues August 2014

- Local system number (ongoing discussion)
- Delete functionality (Aug hotfix (x2))
- Unflagging a record will publish a delete to Libraries Australia (Oct release)
- Observe Suppress from discovery flag on holdings records, including those locations suppressed from externalisation (Oct release)
- More flexibility in scheduling options for the job (Feb 2015 release)
- Include electronic inventory (sometime in 2015)
- Still no time-frame for holdings refresh – capacity problems at Libraries Australia

Breakthrough (Sep 2014)

- Libraries Australia advised of a new approach
- New CBS Job Manager showed it could handle large files like our complete refresh
- This would facilitate synchronisation of Local system numbers
- Could we provide a full publish, chunked into files of 100,000 records?
- Ex Libris ran the job Sep 16 – 948,283 bibs published
- Libraries Australia tested the data and then loaded the records over a 7-day period, after first removing all our existing holdings from the NBD

Ongoing procedure*

- Libraries Australia contact migrated libraries
- Test files produced and checked
- Full publish run
- Full publish loaded to Libraries Australia
- Ongoing publication scheduled
- Libraries in implementation will do this as part of their implementation process going forward

- *as I understand it

Further integration with Libraries Australia

- Ex Libris and Libraries Australia to collaborate on development of publishing mechanism for electronic inventory
- Have a case in Salesforce asking if Libraries Australia authority records can be added to Community Zone
 - at Development
 - would like indication of support for this request



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Thank you

Questions?

christine.sloan@adelaide.edu.au

Sample records

```
Leader 01192dam a2200361 a 4500
001 000008927212
005 20150120132823.0
008 011219s1992 acaab b f00010 eng u
010 a abn92103107
019 1 a 8927212
020 a 0644244887 (overview)
020 a 0644244895 (v. 1)
020 a 0644246952 (v. 2B)
020 a 0644246960 (set)
020 a 0644244879 (v. 2A)
035 a 9968548201811
040 a NSL:R c NSL:R
043 a u-at---
082 a 333.750994 2 20
110 2 a Forest and Timber Inquiry (Australia)
245 10 a Forest and Timber Inquiry final report, March 1992
260 a Canberra : b Australian Gov. Pub. Service, c 1992
300 a 4 v. : b ill. (some col.), maps ; c 25 cm.
500 a Cat. nos. 9211999, 9211975, 9214502, 9211987
500 a At head of title: Resource Assessment Commission
500 a Running title: RAC Forest and Timber Inquiry final report 1992
504 a Includes bibliographies
650 0 a Forests and forestry z Australia.
650 0 a Timber z Australia.
710 10 a Australia. b Resource Assessment Commission
984 a SUA:R c delete
984 a SUA:W c delete
984 a SUA c delete
```

```
Leader 00857cam a2200253 a 4500
001 000001923655
005 20141208140028.0
008 810305s1981 xnaac 000 0 eng d
010 a anb95959193
019 1 a 1923655
020 a 0959591931 : c $3.00 Aust.
035 a 9990961601811
043 a u-at---
082 0 a 641.2/223/029494
245 14 a The red wines of Australia / c [edited by John Parkinson ; sketches by Donald Greenfield]
260 a Lane Cove, N.S.W : b Project Publishing, c c1981.
300 a 97 p. : b ill., ports. ; c 25 cm.
500 a A companion volume to The white wines of Australia, 1981.
650 0 a Wine and wine making z Australia.
700 1 a Parkinson, John.
730 4 a The white wines of Australia.
984 a SUA:R c 663.223 9
984 a SUA:W c 663.223 P2479r
984 a SUA c MMM022272 c 641.2223 P2479r
```