

A photograph of a fox resting on a log, used as a background for the presentation title. The fox is curled up on a weathered log, looking towards the left. The background is a soft-focus green forest.

Tired of Migration? Time for some REST ...

APIs

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Background

Migrated June 2019

Post Migration Cleanup

API Solution

Quick API Overview

- REST = Representational State Transfer
- API = Application Programming Interface
- API key = unique, holds permissions and grants access
- Get, Put, Post, Delete methods
- `https://api-na.hosted.exlibrisgroup.com/almaws/v1/bibs/MMSIDHERE/holdings?apikey=YOURUNIQUEAPIKEYHERE`
- Used throughout Alma/Primo and many Ex Libris products
- You probably have used or are already using APIs

Collections		
GET	/almaws/v1/bibs/collections	Retrieve Collec
POST	/almaws/v1/bibs/collections	Create Collecti
DELETE	/almaws/v1/bibs/collections/{pid}	Rem
GET	/almaws/v1/bibs/collections/{pid}	Retrie
PUT	/almaws/v1/bibs/collections/{pid}	Updat
GET	/almaws/v1/bibs/collections/{pid}/bibs	
POST	/almaws/v1/bibs/collections/{pid}/bibs	
DELETE	/almaws/v1/bibs/collections/{pid}/bibs	

```

"bib_data": {
  "mms_id": "991024736889705716",
  "title": "Frankenstein : the rock opera /",
  "author": "Greenlee, Jon.",
  "issn": null,
  "isbn": null,
  "complete_edition": "",
  "network_number": [
    "(OCoLC)1078399510",
    "(NcDaD)1078399510-01dcoll_inst"
  ],
  "place_of_publication": "[Minneapolis, MN] :",
  "date_of_publication": "[2003]",
  "publisher_const": "Frankenstein the Rock Opera",
  "link": "https://api-na.hosted.exlibrisgroup.com/almaws/v1/bibs/991024736889705716"
},
"holding_data": {
  "holding_id": "22101719840005716",
  "call_number_type": {
    "value": "0",
    "desc": "Library of Congress classification"
  },
  "call_number": "M1500 .F7 2004",
  "accession_number": "",
  "copy_id": "",
  "in_temp_location": false,
  "temp_library": {
    "value": null,
    "desc": null
  },
  "temp_location": {
    "value": null,
    "desc": null
  },
  "temp_call_number_type": {
    "value": "",
    "desc": null
  },
  "temp_call_number": "",
  "temp_policy": {
    "value": "",
    "desc": null
  },
  "link": "https://api-na.hosted.exlibrisgroup.com/almaws/v1/bibs/991024736889705716/holdings/22101719840005716"
},
"item_data": {
  "pid": "23101719830005716",
  "barcode": "0207504760902",
  "creation_date": "2019-05-27Z",
  "modification_date": "2019-05-27Z",
  "base_status": {
    "value": "1",
    "desc": "Item in place"
  }
}

```

BIB API

Allows access to:

- Bibs
- Holdings
- Items
- Portfolios
- Loans
- Requests
- Collections (Digital and Electronic)
- Representations
- Reminders
- Authorities

Tools Used

Alma Enumerator

The Update Script

Grima

Alma Enumerator

- “A set of Python scripts to update enumeration and chronology information in Alma”
- Developed by Wesley Teal for Wartburg College library’s 2016 migration
- Volume designation was migrated to Description field in the Item record
- Causes issues in display of availability in Alma and Primo

The Literary Digest. Literary digest (New York, N.Y. : 1890) Funk & Wagnalls New York : Vol. 1, no. 2 (July 10, 1937) = -no. 2464.

Location Main Library: Periodicals; LITERAR... [View all holdings](#)

1 - 20 of 106

Status: All Year: All Volume: All Description: All Receive Date: All

	Barcode	Library	Location	Call Number	Item Call Number	Year	Volume	Description	Temporar Location	Status	Process type
1	0207503485881	Main Library	Periodi...	LITERARY DIGEST	-	-	-	v.16 Jan-Jun 1898	No	Item in place	-
2	0207503485899	Main Library	Periodi...	LITERARY DIGEST	-	-	-	v.17 Jul-Dec 1898	No	Item in place	-
3	0207503485907	Main Library	Periodi...	LITERARY DIGEST	-	-	-	v.18 Jan-Jun 1899	No	Item in place	-
4	0207503485915	Main Library	Periodi...	LITERARY DIGEST	-	-	-	v.19 Jul-Dec 1899	No	Item in place	-
5	0207503485923	Main Library	Periodi...	LITERARY DIGEST	-	-	-	v.20 Jan-Jun 1900	No	Item in place	-
6	0207503485931	Main Library	Periodi...	LITERARY DIGEST	-	-	-	v.21 Jul-Dec 1900	No	Item in place	-

LOCATION ITEMS

Main Library
Available, Periodicals - Ground Floor LITERARY DIGEST
Summary holdings: v.16-124(1898-1937)

Filters: location volume description

Item in place (0 requests) Not loanable Other.. Jun 1898

Item in place (0 requests) Not loanable v.17 Jul-Dec 1898

Item in place (0 requests) Not loanable v.18 Jan-Jun 1899

Item in place (0 requests) Not loanable v.19 Jul-Dec 1899

Item in place (0 requests) Not loanable v.20 Jan-Jun 1900

[SHOW MORE ITEMS](#)

Alma Enumerator

Enumeration A

Chronology I

Description

- Uses MMS ID to call item data
- Takes data in Description field, parses out enumeration and chronology and applies them to the corresponding fields
- Can be used with an individual MMS ID or in bulk with a text file of MMS IDs
- Need minimal understanding of Python in order to edit/run

Alma Enumerator

MMS ID

Output File

Input File

Error File

API Key

```
AEbatch.txt - Notepad
File Edit Format View Help
991017681649705716
991017681779705716
991017682169705716
991017683089705716
991017683469705716
991017683509705716
991017683719705716
991017683759705716
991017686109705716
991017686349705716
991017686929705716
991017687509705716
991017687899705716
```

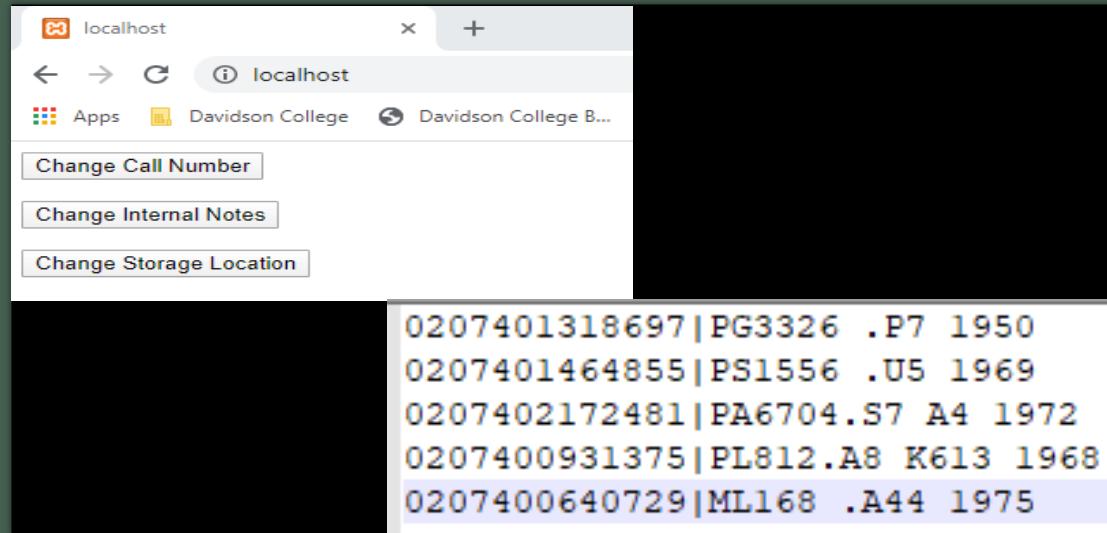
The Update Script

- Developed by Nazzeno Bedini at University of Pisa
- PHP script originally written to update call numbers
- Can be modified to change ANY field in Bib API
- Uses CSV file as input

ISBN	OTHER_SYSTEM_NUMBE	PORTFOLIO_PID	MMS	TITLE
0-472-11956-7	(MdBmJHUP)muse61030	53221563400005716	991024740492805716	Late Sophocles : the hero's evolution in Electra,
1-936235-41-2	(MiAaPQ)EBC3110543	53221563420005716	991024740286605716	Mo(ve)ments of resistance : politics, economy a
3-8487-4050-8	(CKB)266000000041331	53221563440005716	991024740394405716	Islamic peace ethics
0-9991570-5-1	(CKB)4100000007522817	53221563460005716	991024889172705716	The Logic of Invention
0-8223-6936-2	(MiAaPQ)EBC5105858	53221563480005716	991024889172605716	A theory of regret / Brian Price.
3-11-054467-9	(CKB)4100000005043696	53221563500005716	991024740535005716	Philosophy of Globalization
1-322-50745-7	(MdBmJHUP)muse37595	53221563520005716	991024740492705716	Consumption and violence : radical protest in Co
90-8728-218-4	(MdBmJHUP)muse54584	53221563540005716	991024749776405716	Regulating political parties : European democrac
3-8376-4422-7	(CKB)4100000007178835	53221563560005716	991024740266005716	Aging and Self-Realization
1-62616-472-X	(CKB)4100000003844732	53221563580005716	991024889173405716	Aquinas on Virtue
1-5017-1394-9	(MiAaPQ)EBC4987888	53221563600005716	991024740270105716	Secession and security : explaining state strateg
1-78308-579-7	(MiAaPQ)EBC4737034	53221563620005716	991024740091305716	Bestsellers in nineteenth-century America / edit
0-8101-2994-9	(MdBmJHUP)muse33293	53221563640005716	991024740490105716	Essential vulnerabilities : Plato and Levinas on re
90-8964-590-X	(PQKB)11182214	53221563660005716	991024740090005716	Emerging Memory [electronic resource] : Photo

001e,086\$a,245\$a,260c;264c,999\$a
991017163549705716,Y 1.1/8:113-11,"""Billions of federal tax dollars misspent on New York's Medicaid program"" /
991014409989705716,D 103.43/2:4,"""Dear friends at home--." :",1985,Electronic
991017853949705716,I 19.16:950,"""Nature to be commanded ..."" :",1978;1979,Electronic
991012686739705716,D 110.9:3,"""Not war but like war"" :",1981,Electronic
991015979119705716,Y 4.J 89/1:112-16,"""Regulatory Flexibility Improvements Act of 2011"" :",2011,Electronic
991016445849705716,Y 4.J 89/1:112-64,"""STEM"" the tide :",2011,Electronic
991015632399705716,I 29.2:L 62/3,"""With liberty and justice for all"" :",2005,Electronic
991015807239705716,Y 4.2:EN 2/G 21/8,{dollar}4 gasoline and fuel economy :,2010,Electronic
991016511759705716,Y 1.1/5:112-144,10 Million Solar Roofs Act :,2012,Electronic
991016019059705716,Y 4.H 75:111-73,100 percent air cargo screening :,2011,Electronic
991016853189705716,Y 4.P 84/10:99-65,1990 census adjustment procedures and coverage evaluation :,1986,Electronic
991016833839705716,Y 4.P 84/10:101-79,1990 census coverage evaluation operations :,1991,Electronic
991014825069705716,C 3.224/3:990 CH-1-19,1990 census of housing.,1992,Electronic
991014825139705716,C 3.224/3:990 CH-1-20,1990 census of housing.,1992,Electronic

The Update Script




No	Barcode	Call number from Alma	New call number from file	Outcome/error
1	0207401318697	891.7 D72c-Tg 1950	PG3326 .P7 1950	OK 1 changes: PG3326 .P7 1950
2	0207401464855	828 D89u	PS1556 .U5 1969	OK 1 changes: PS1556 .U5 1969
3	0207402172481	876 S987L-T	PA6704.S7 A4 1972	OK 1 changes: PA6704.S7 A4 1972
4	0207400931375	895.6 N27k-Tk	PL812.A8 K613 1968	OK 1 changes: PL812.A8 K613 1968
5	0207400640729	888 A615	ML168 .A44 1975	OK 1 changes: ML168 .A44 1975

[Back to home](#)

- Call number script for conversion of Dewey collection
- Added storage locations for our Rare Books
- Cleaning up and adding Internal Notes for withdrawn materials
- Need a web server environment (Apache) and some knowledge of PHP

grima

grima - whispering into
alma's ear with APIs

 [View On GitHub](#)

This project is
maintained by [zemkat](#)

grima

Welcome to Grima, the library that makes it easy to work with Alma using APIs. Check out the [documentation](#) to learn how to [set up grima](#) or try some of the grimas below:

Display or Print records

- [PrintBib](#) – display bib record in printable web page
- [PrintHolding](#) – display holding record in printable web page
- [PrintHoldingsFromBarcode](#) - display holding record in printable web page using barcode as identifier
- [Hierarchy](#) – view bib/mfhd/items in hierarchy view
- [ResolveLink](#) – resolve a link in Alma/Primo window
- [ShowItemsFromHoldings](#) – display all items from a holding record

Edit Records

- [InsertOclcNo](#) – insert OCLC number into 035
- [Boundwith](#) – create boundwith in Alma using bib 501/774, holding 014
- [RemoveTempLocation](#) – remove temporary location from item
- [AddInternalNote](#) – add internal note 1 to an item record
- [MarkImportTemporaryLocation](#) – mark items from an import job as being in a temporary location
- [AppendToNoteOnSet](#) – add a note to every item in a set, appending if there is already a note there
- [ChangeCallNumberClassification](#) - change the classification of a call number

Edit Item Records

- [Change Location](#) – change the location of the item
- [Change Storage Location ID](#) – change the storage location ID for the item
- [Change Internal Note](#) – change any internal note of the item
- [View Xml Item Barcode](#) – view Item record as Item object XML using barcode as identifier

Grima

- Developed by Kathryn Lybarger at University of Kentucky
- “Used to speed up various cataloging tasks in Alma”
- PHP scripts run from web server

```
?php
require_once("../grima-lib.php");

class ChangeLocation extends GrimaTask {

    function do_task() {
        $item = new Item();
        $item->loadFromAlmaBarcode($this['barcode']);
        $item['location'] = $this['location'];
        $item['location_code'] = $this['location_code'];
        $item->updateAlma();
    }

    function print_success() {
        GrimaTask::call('ViewXmlItemBarcode', array('barcode' =>
    }

}

ChangeLocation::RunIt();
```

Grima: Change Item Location

Item Location

Item Location Code

Barcode

Grima

- Grimas can be easily written
- Can be used for day-to-day work
- Works alongside Alma
- Movement of materials between several locations in Archives and Special Collections
- Need knowledge of PHP, XML, web server environment

Resources

Alma Enumerator

- <https://journal.code4lib.org/articles/13947>
- https://github.com/wtee/alma_enumerator

The Update Script

- <https://developers.exlibrisgroup.com/blog/using-alma-bib-api-in-order-to-retrieve-and-update-call-numbers/>
- <https://www.youtube.com/watch?v=gErB3unoa5I>

Grima

- <https://works.bepress.com/kathrynlybarger/40/>
- <https://github.com/zemkat/grima>

A photograph of two brown and white goats resting their heads on each other in a green field. The image is overlaid with a dark green semi-transparent rectangle containing white text.

THANK YOU!

Now get some rest!
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