

Interoperability SIWG Update

ELUNA 2017 | Schaumburg, IL

Josh Weisman | VP Development, Resources Management

Agenda

- **Developer Network**
- **Alma**
- **Primo**
- **Summon**
- **Rosetta**



Developer Network



Ex Libris Developer Network



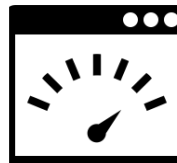
Documentation

Blog



Forum

Dashboard



Active Forum



[Login](#) | [Signup](#)



Developer Network

[Docs](#)

[Tech Blog](#)

[Code & Apps](#)

[Forum](#)

[Dashboard](#)



Resources:

[Primo](#)

[Alma](#)

[Rosetta](#)

[Leganto](#)

[bX](#)

[SFX](#)

[Aleph](#)

[Voyager](#)

Forums

Product Forums



General

A forum for discussing issues that are not product-specific



Alma

A forum for Alma developer community support



Primo

A forum for Primo developer community support

09/05/2017 06:03:55

[orim](#) ➔

09/05/2017 01:04:01

[kevinlin](#) ➔

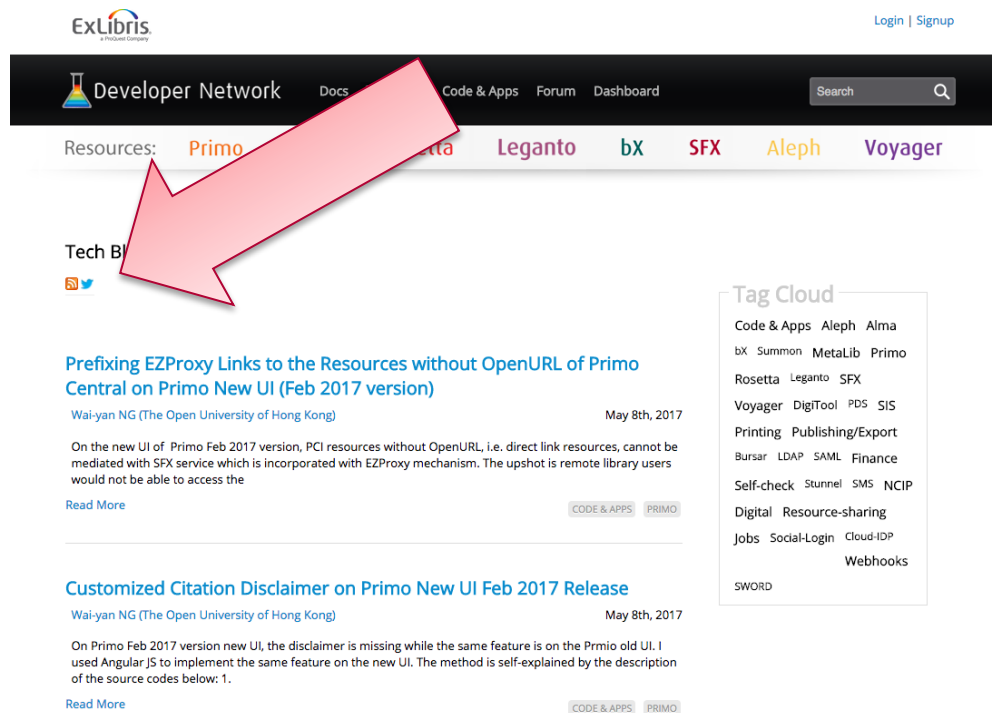
Remaining APIs Header

- We've added a new header which will be returned for each API request with the up-to-date number of remaining requests.
- The header's value is the number of requests left until midnight according to the Institution's Account Plan.

```
X-Exl-Api-Remaining: 49999
```

<https://developers.exlibrisgroup.com/blog/Advanced-API-Usage-Reports-Now-Available>
<https://developers.exlibrisgroup.com/blog/New-header-in-API-response-X-Exl-Api-Remaining>

Developer Network Blog



ExLibris
a ProQuest Company

Login | Signup

Developer Network Docs Code & Apps Forum Dashboard Search

Resources: **Primo** **Alma** **Leganto** **bX** **SFX** **Aleph** **Voyager**

Tech Blog

Prefixing EZProxy Links to the Resources without OpenURL of Primo Central on Primo New UI (Feb 2017 version)

Wai-yan NG (The Open University of Hong Kong) May 8th, 2017

On the new UI of Primo Feb 2017 version, PCI resources without OpenURL, i.e. direct link resources, cannot be mediated with SFX service which is incorporated with EZProxy mechanism. The upshot is remote library users would not be able to access the

[Read More](#) CODE & APPS PRIMO

Customized Citation Disclaimer on Primo New UI Feb 2017 Release

Wai-yan NG (The Open University of Hong Kong) May 8th, 2017

On Primo Feb 2017 version new UI, the disclaimer is missing while the same feature is on the Primo old UI. I used Angular JS to implement the same feature on the new UI. The method is self-explained by the description of the source codes below: 1.

[Read More](#) CODE & APPS PRIMO

Tag Cloud

Code & Apps Aleph Alma
bX Summon MetaLib Primo
Rosetta Leganto SFX
Voyager DigiTool PDS SIS
Printing Publishing/Export
Bursar LDAP SAML Finance
Self-check Stunnel SMS NCIP
Digital Resource-sharing
Jobs Social-Login Cloud-IDP
Webhooks
SWORD

Automatically Activate A Search After Changing Search Scope

Duncan Wilson

April 27th, 2017

The default behaviour of the Primo new UI forces users to click on the search button after changing the search scope. This piece of Angular/JavaScript changes the behaviour so that the search results are reloaded after changing scope from the drop down

[Read More](#)

CODE & APPS PRIMO

Shelf Inventory using Alma APIs

Dean Lingley

April 26th, 2017

At Purdue, we were in need of a solution which would help us get a handle on our shelves after not having done any shelf reading for approximately 2 years after going live with Alma in May of 2013. The staff wished to complete the shelf reading process

[Read More](#)

CODE & APPS ALMA

Binding Print Serials in Alma - Including Work Order Process

Richard McCart

April 20th, 2017

Contributor(s): Giuliana Tarascio, Amanda Martimbianco Background This workflow is designed to use functionality in Alma in order to help us keep track of print serials issues that we are binding. Key benefits of using Alma for binding

[Read More](#)

ALMA

Publishing Full text From Rosetta to Primo

Keren Fux

April 6th, 2017

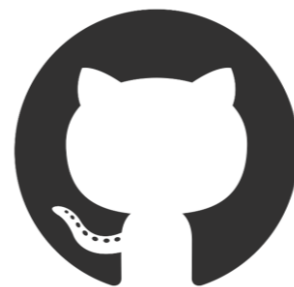
In this post we will show how to publish full-text content from Rosetta to Primo that is supported from version 5.2 of Rosetta. If you are new to the publishing process, here is a great place to start:

[Read More](#)

PRIMO ROSETTA

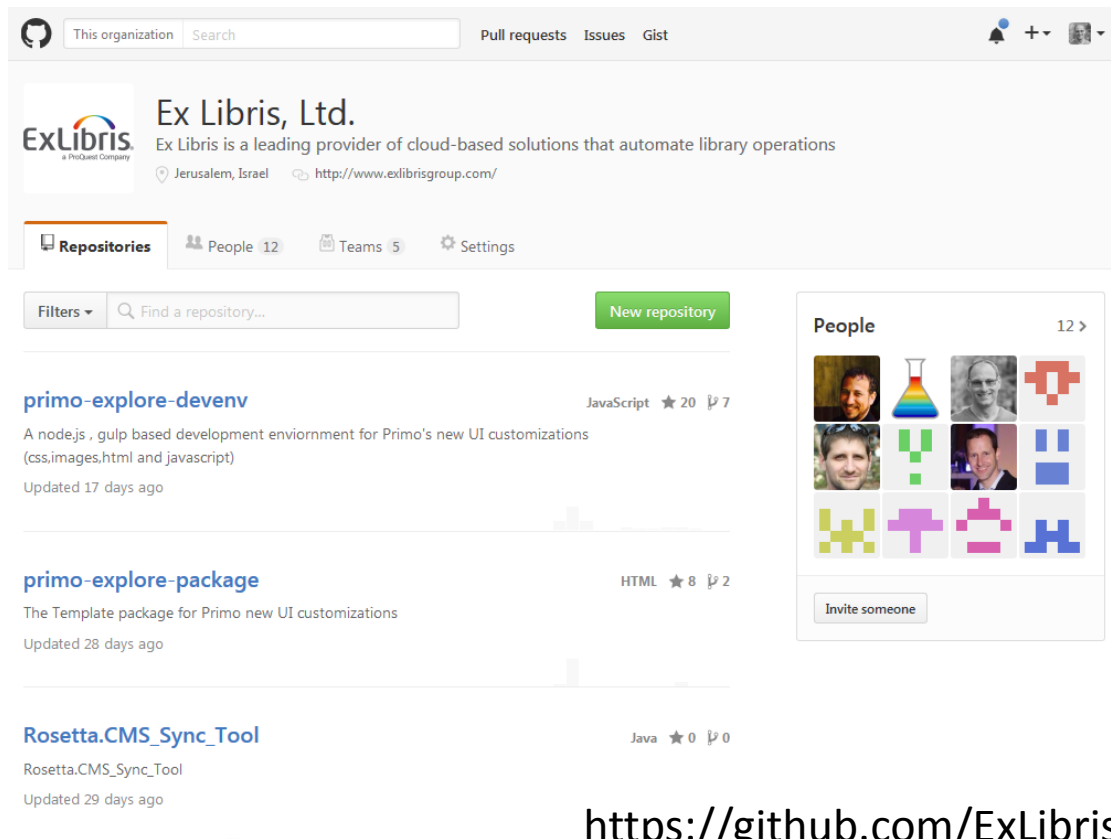
Ex Libris Github

- Ex Libris maintains a presence on Github to share integration demos, code samples, plugins, and collaborative projects
- Notable examples- Primo new UI toolkit, Rosetta plugins, Alma migration tools, Alma/Blacklight sample integration, Tableau Web Data Connector



GitHub

Ex Libris Github



The screenshot shows the GitHub profile for Ex Libris, Ltd. The header includes the GitHub logo, a search bar for the organization, and links to pull requests, issues, and gists. The organization's name and logo are prominently displayed, along with a brief description: "Ex Libris is a leading provider of cloud-based solutions that automate library operations." Below this, the location (Jerusalem, Israel) and website (http://www.exlibrisgroup.com/) are listed. The main section features a tabbed interface with "Repositories" selected, showing a list of repositories. The first repository, "primo-explore-devenv", is a JavaScript project with 20 stars and 7 forks, updated 17 days ago. The second, "primo-explore-package", is an HTML template package with 8 stars and 2 forks, updated 28 days ago. The third, "Rosetta.CMS_Sync_Tool", is a Java tool with 0 stars and 0 forks, updated 29 days ago. On the right, a "People" section displays 12 team members with their profile pictures and GitHub avatars, and an "Invite someone" button.

Ex Libris, Ltd.
Ex Libris is a leading provider of cloud-based solutions that automate library operations
Jerusalem, Israel <http://www.exlibrisgroup.com/>

Repositories People 12 Teams 5 Settings

Filters Find a repository... New repository

primo-explore-devenv JavaScript ★ 20 7
A node.js , gulp based development enviornment for Primo's new UI customizations (css,images.html and javascript)
Updated 17 days ago

primo-explore-package HTML ★ 8 2
The Template package for Primo new UI customizations
Updated 28 days ago

Rosetta.CMS_Sync_Tool Java ★ 0 0
Rosetta.CMS_Sync_Tool
Updated 29 days ago

People 12 >
Invite someone

<https://github.com/ExLibrisGroup>

Tableau Web Data Connector

- Tableau provides a way to visualize data from various sources
 - Many customers are already using Tableau
- Can aggregate and display data from various sources
 - How can we include library data as well?
- Tableau's "Web Data Connector" technology can be used to import data from APIs

Announcing an Ex Libris web data connector for use by all Ex Libris customers! The connector is [open source](#) and available for everyone.



Tableau Web Data Connector

The image displays two overlapping windows. The background window is the 'Ex Libris Analytics Tableau Web Data Connector' web application. It features a header with navigation icons and a URL bar showing 'https://eu-st01.ext.exlibrisgroup.com/delivery/wdc/exl.html'. The main content area is titled 'Alma Tableau Web Data Connector' and contains several input fields: 'API Key' (with a placeholder 'e.g. i7xx04fbcedffds882393xxd4323bxxxx1'), a checked 'Remember key' checkbox, 'Report Path' (with a placeholder 'e.g. /shared/Alma/Fulfillment/Reports/Count of Items Loaned by Pa...'), a 'Region' dropdown set to 'NA', and 'Max number of rows' set to '500'. A 'Get data' button is at the bottom.

The foreground window is a Tableau Desktop interface titled 'Tableau - Book1'. It shows a 'Connections' pane on the left with 'ExLibris Web Data' selected. The 'Table' pane below it lists 'Count of Items L... by Patron Group'. The main view displays a data source named 'ExLibris' with a connection type of 'Extract'. A preview table is shown with the following data:

#	Abc	Abc	Abc	#	#
Count of It...	Count of Items Loaned by P...	Count of Items Loaned ...	Count of Items Loaned by P...	Count of Item...	Count of Items Loaned by Patr...
0	Library Name	Loan Year	Patron Group	Loans	REPORT_SUM(Lo...

Below the table are buttons for 'Update Now' and 'Automatically Update'. The Tableau interface also includes a 'Sort fields' dropdown set to 'Data source order', checkboxes for 'Show aliases' and 'Show hidden fields', and a 'rows' limit set to '1,000'.

<https://developers.exlibrisgroup.com/blog/Tableau-Web-Data-Connector-for-Ex-Libris-Analytics>



Alma



Recently Released

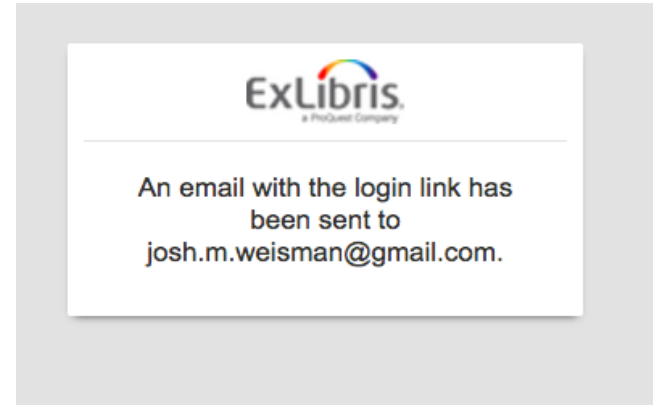
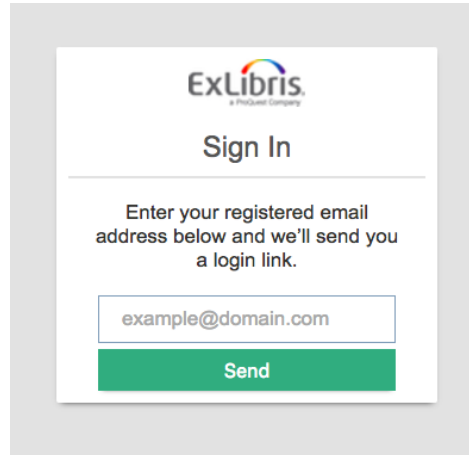
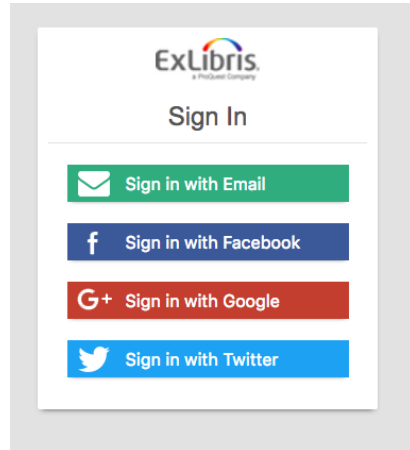
- Linked Data
 - RDA/RDF Linked Data API
- Set management
 - Create/delete itemized
 - Create itemized set from job
 - Transform logical to itemized
 - Create logical set
 - Add/removed itemized set members
- Process Orchestration
 - Run scheduled jobs
 - MD Import job details
- Electronic
 - Get e-collections, e-services, portfolios
- CRUD Collections

Coming Soon

- Electronic
 - CRUD e-collections, services, portfolios
- Login via email
- Set management
 - Add members via additional IDs
 - Combine sets
- Linked Data
 - BIBFRAME
- Reminders APIs
- License APIs
- Create user fine
- Publish MARC21 records in BIBFRAME format
- Delete BIB
- Validate/Normalize BIB
- Resource Sharing CRUD

Login via Email

- Users are registered in Alma with an email address by the circulation desk (or by the RESTF APIs)
- When users wish to login to Primo, they select the “login via email” option and provide their registered email address



Login via Email

- An email with a “magic link” is sent to the user. The user can click the link within 30 minutes and is automatically logged in to Primo. No password required.
- The link is cryptographically signed to prevent spoofing

Your.Department@organization.com

To: Josh Weisman

Login using your email address



Dear,

To log in, [click here](#) and follow the instructions provided.
This link will expire in one hour.

Sincerely,

Training and Integration
Jerusalem

Training and Integration

Alma Webhooks

- New paradigm for communicating with Alma
- When certain events happen in Alma, Alma calls out to a customer's REST endpoint with a defined payload
- Job end is the first event type, others on the way including loans and requests

Alma Webhook Benefits

- Alternative to “polling”- push rather than pull
- Respond to events in the system when they occur
- Asynchronous architecture
- Reduce API calls



Source: <http://www.webhooks.org>

Alma Webhook Support

- Job End
- Notifications
- User update – **NEW** in June 2017
- Others coming soon



<https://developers.exlibrisgroup.com/blog/tag/Webhooks>

IIIF Support

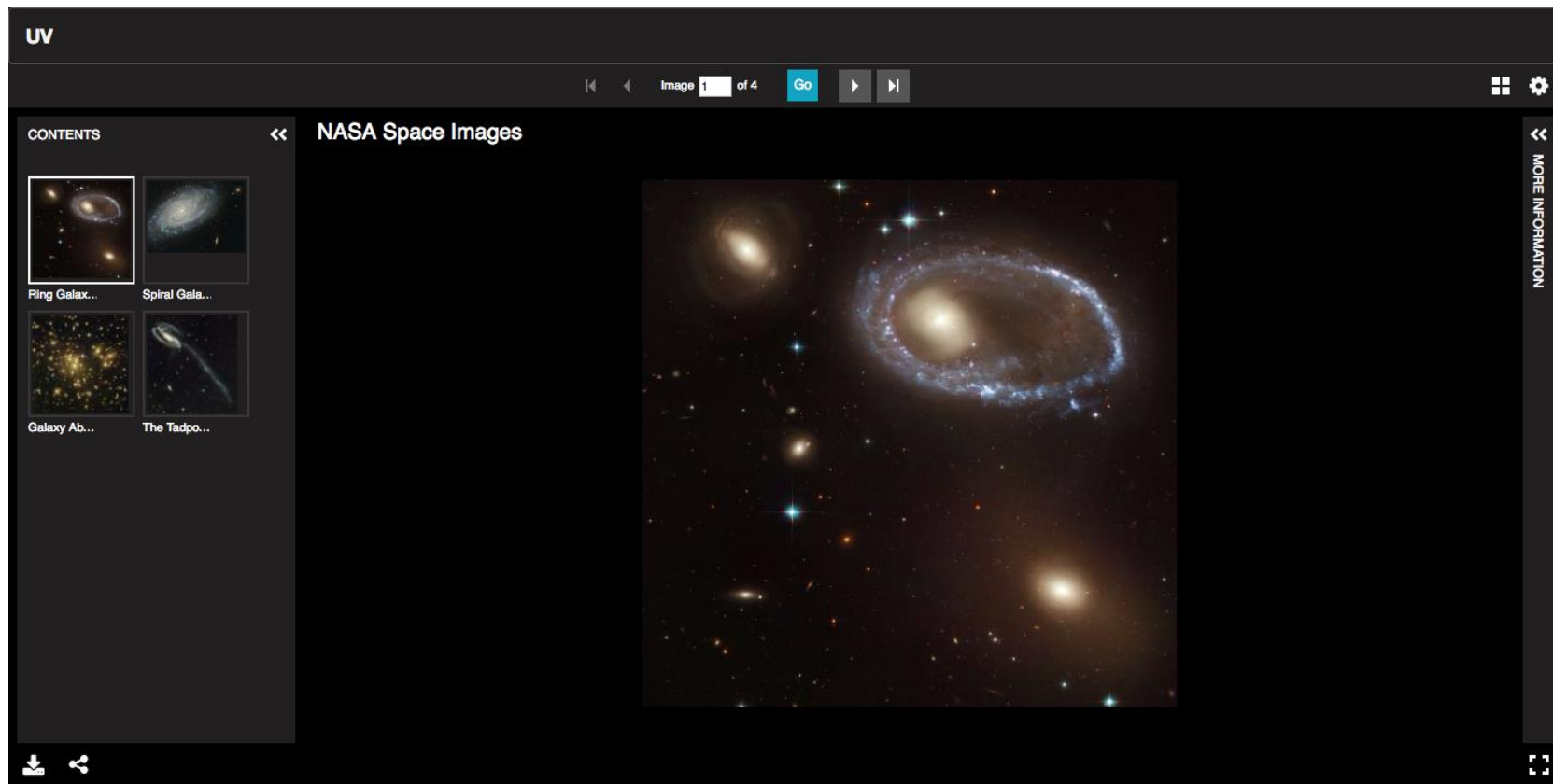
- International Image Interoperability Framework
 - Series of APIs intended to allow easy integration among digital repositories
- Alma will support the IIIF presentation API (manifest) and bundle the Universal Viewer
- Adds support for TIF files



IIIF Support – Presentation Manifest

```
{
  "@context": "http://iiif.io/api/presentation/2/context.json",
  "@id": "https://na01.alma.exlibrisgroup.com/view/delivery/TR_INTEGRATION_INST/1288029980000561",
  "@type": "sc:Manifest",
  "metadata": [
    {
      "label": "Title",
      "value": "NASA Space Images"
    },
    {
      "label": "Author",
      "value": "NASA"
    }
  ],
  "label": "NASA Space Images",
  "description": "",
  "viewingDirection": "left-to-right",
  "viewingHint": "individuals",
  "logo": "https://na01.alma.exlibrisgroup.com/infra/branding/logo/logo-login.png?institutionCode=TR_INTEGRATION_INST",
  "sequences": [
    {
      "@type": "sc:Sequence",
      "canvases": [
        {
          "@id": "1388029970000561",
          "@type": "sc:Canvas",
          "label": "Galaxy Abell 1689's \"Gravitational Lens\" Magnifies Light of Distant Galaxies",
          "width": 3853,
          "height": 4000,
          "images": [
```

IIIF Support – Universal Viewer

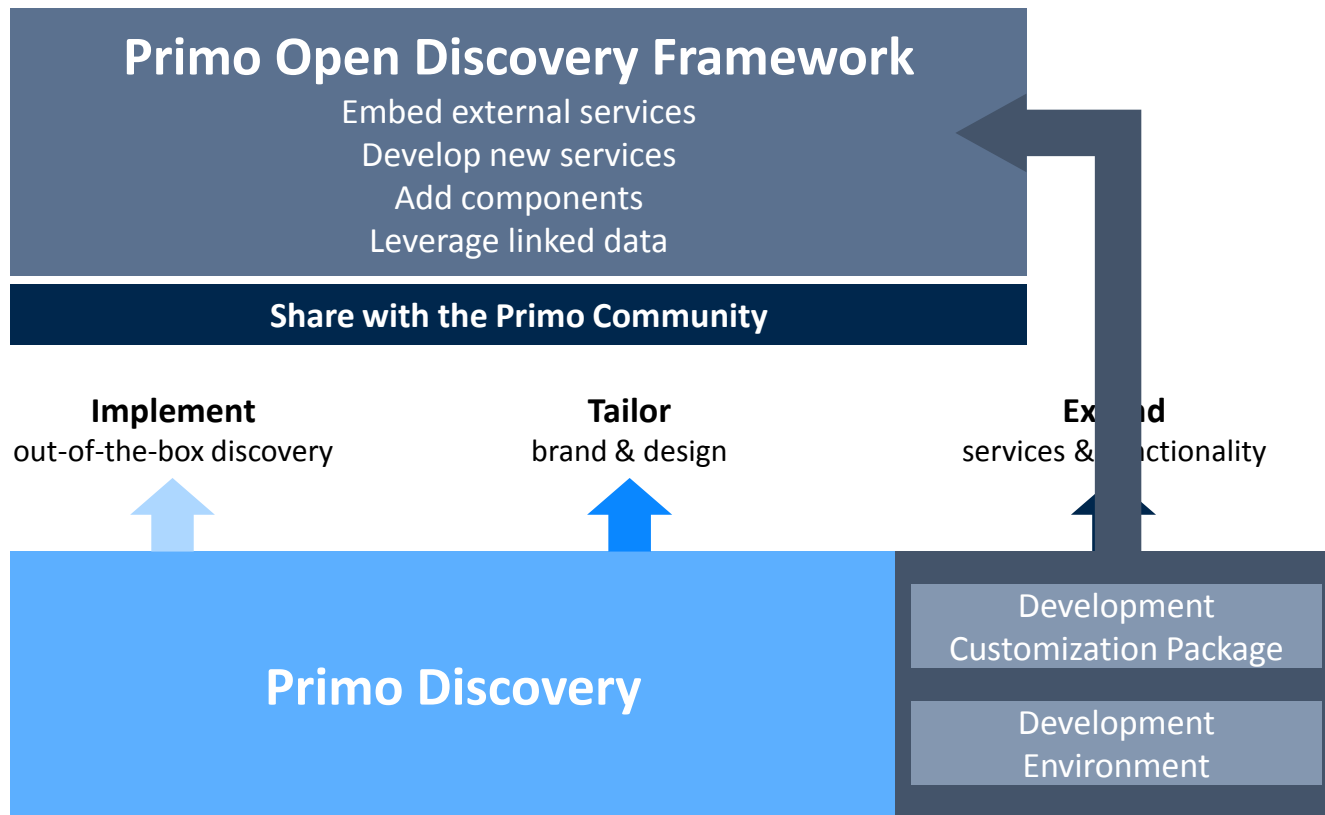




Primo



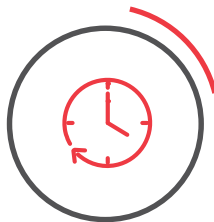
Primo Discovery: Extend and Share Innovations with the Community



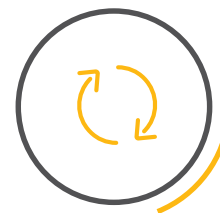
Primo Open Discovery Essentials



**Customize, Develop &
Collaborate**



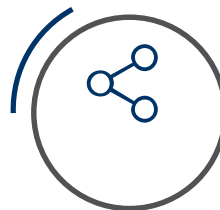
**Immediate display of
changes**



**Manageable
upgrades**



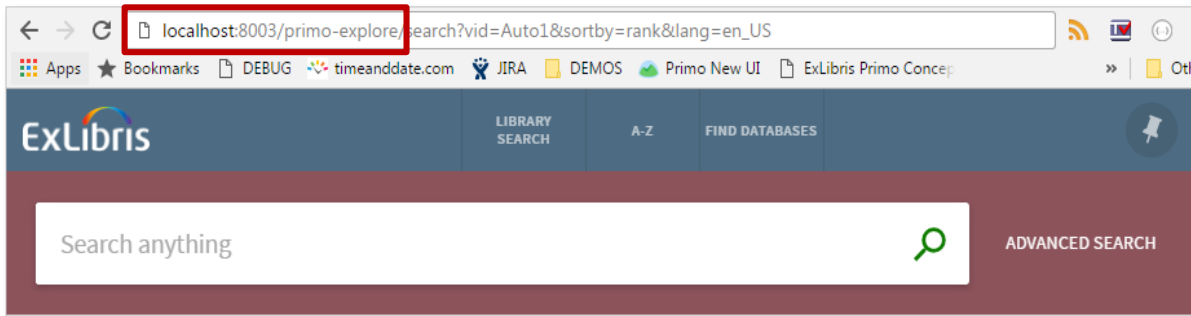
**Simple way to display
default 'factory' UI**



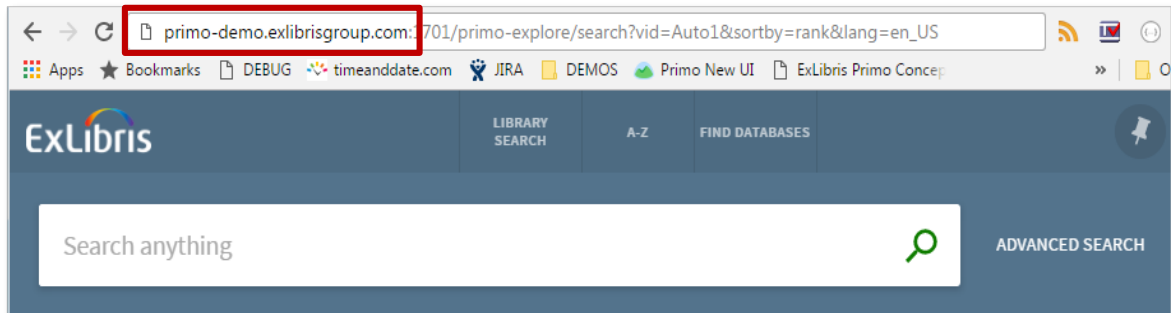
**Share with the
community**

Techies Paradise Playground

Customize and develop on your local server



With no affect to your production



Open Discovery Framework

<https://github.com/ExLibrisGroup/primo-explore-devenv>

The screenshot shows the GitHub repository page for `ExLibrisGroup / primo-explore-devenv`. The repository is described as "A node.js, gulp based development environment for Primo's new UI customizations (css, images, html and javascript)". It has 62 commits, 1 branch, 0 releases, and 5 contributors. The latest commit is by `noamam292` titled "Merge the OTB colors.json with the defined one in the package to avo..." on Jan 16. The commit history table lists various files and their commit dates. Below the commit history, the `README.md` is visible, starting with the title "The Primo New UI Customization Workflow Development Environment" and a section "Structure" which includes a bullet point for the `gulp` directory.

File	Commit Message	Time Ago
gulp	Merge the OTB colors.json with the defined one in the package to avo...	a month ago
help_files	initial commit	7 months ago
images	initial commit	7 months ago
node_modules	initial commit	7 months ago
packages	initial commit	7 months ago
primo-explore	initial commit	7 months ago
.gitignore	Build error styling and a basic ignore file added. IDE specific 'ide...	3 months ago
README.md	Continued: danmichaelo in : #12	3 months ago
app.css	initial commit	7 months ago
colors.json	initial commit	5 months ago
gulpfile.js	Support for browserify (#28)	2 months ago
package.json	Support for browserify (#28)	2 months ago
parse_css.js	initial commit	7 months ago

The Primo New UI Customization Workflow Development Environment

Structure

- gulp directory**: holds the various build scripts for the environment and the configuration file (config.js) in which the target proxy server is defined



Summon



API Improvements

Recent Enhancements:

- Faceting by Content Provider and Database
- Search by Discipline
- HTTPS Support

Coming Soon:

Availability for API

- Ability for API users to display availability information for content an institution has rights to

Topics for API

- Provide access to the necessary fields to create the topic explorer pane
- Should provide institution the ability to create a topic explorer with the same contents: Reference resource, suggested librarian, Recommended topics, Recommended Research Guides

Open Access Filter

- Faceting by Open Access

Addition of the API documentation to the Developers Network

From Wikipedia, the free encyclopedia

Physics

Physics (from) is a natural science that involves the study of matter and its motion through space and time, along with related concepts such as energy and force. More broadly, it is the general analysis of nature, conducted in order to understand how the universe behaves.

[Read more](#)

Suggested Librarian



Brent D. Cook

[Send Email](#)

206.555.1212

Related Topics

[Biophysics](#)

[Particle physics](#)

[Outline of physics](#)

Recommended Research Guides

[Browse Databases by Subject. Recommended Databases for Physics. Recommended Databases](#)
by Melanie Sturgeon

[Physics](#)

Summon Over Alma – Seamless Activation of Resources

Off Campus? Log in to access full text and more content.

SOALibrary 1

Global warming : understanding the forecast

Search

29,728 results sorted by **relevance**

Add results beyond your library's collection

Database Recommendations

Compendex - Engineering bibliographic database

Global warming : understanding the forecast /
by Archer, David
2007

GLOBAL WARMING

ISBN: 9781405140393 (pbk. : acid-free paper) , 1405140399 (pbk. : acid-free paper)
Available

- Activating resources in Alma powers discovery rights for Summon
- Automated holdings updates for some collections (such as ebooks)

My Library Card

OVERVIEW FEES BLOCKS + MESSAGES PERSONAL DETAILS

Loans

Lotus 1-2-3 applied : basic business mat...
Krumm, Rob.
Due: 01/16, 16:09
Return to: Main Library, Stacks

The urban South /
Vance, Rupert Bayless,
Due: 09/16/16, 16:09
Return to: Main Library, Stacks

The conquest of Mexico /
Prescott, William Hickling,
Due: 09/16/16, 16:09
Return to: Main Library, Stacks

VIEW ALL 4 LOANS

Women in Southern history.
REQUEST: In Process
Pick up: Main Library

Life insurance fact book, 1994.
REQUEST: In Process
Pick up: Main Library

Shiv'im ha-shanim ha-rishonot : sipur H...
REQUEST: In Process
Pick up: Main Library

VIEW ALL 35 REQUESTS

There are no fines

Blocks + messages

There are no blocks or messages

GET IT

DETAILS

Get It

LOCATION ITEMS

Main Library
Available, Stacks QC981.8.G56 A73 2007

Item in place
Stacks QC981.8.G56 A73 2007

EASTERN MICHIGAN UNIVERSITY

Going live in May 2017

API Documentation - Exactly Where Needed

Tech Blog
Data Dictionary
GitHub link-
outs

The screenshot shows the ExLibris Developer Network interface. At the top, there's a navigation bar with 'Developer Network' and links to 'Docs', 'Tech Blog', 'Code & Apps', 'API Dashboard', and 'Forum'. Below this, a banner reads 'Ready to Learn? ExLibris products all provide open APIs'. A row of resource links includes 'Primo', 'Alma', 'Rosetta', 'bX', 'MetaLib', 'Voyager', 'SFX', and 'Aleph'. The main content area is titled 'APIs / Users / Users Info / GET Retrieve user details'. It includes a sidebar with a tree view of API categories: 'Users' (with sub-items 'User Info', 'Requests', 'Loans', 'Fines', 'Holdings', 'Courses', 'Analytics'), 'Integrations', and 'Share'. The main panel shows the 'GET Retrieve user details' endpoint. It lists the 'Resource URL' as 'GET /alma/users/1234' and provides a 'Try it now' button. Below this, it details 'URL Parameters' with a table:

Parameter	Type	Required	Description
User identifier	Number	Required	A unique identifier for the user

. It also lists 'Query string Parameters' with a table:

Parameter	Type	Required	Description
identifier_type	User identifier	Optional	The type of identifier that is being searched. If this is not provided, all unique identifier types are used. The values that can be used are user_name or any of the values in the User identifier Type code table.

. 'Body Parameters' are listed as 'None'. 'Possible Error Codes' are shown in a table:

Code	Message
401650	User identifier is empty.
401651	User not found.
401652	General Error - An error has occurred while processing the request.

. 'Related links' include 'POST Create a new user' and 'PUT Update a particular user'. A box on the right indicates 'API Version: v1', 'Response object: User', and 'HTTP Method: POST'.

Rosetta



Highlights

- Version 5.2 (March 2017)
 - Support for Baglt Deposit
 - SAML Authentication built-in to Rosetta
 - Alma Remote Repository Integration Plugin - allows creation/deletion of digital inventory
 - Alma Remote Repository Access Rights Check- allows Primo (via Alma) to display access for digital resources stored in Rosetta
- Version 5.3 (August 2017)
 - IIIF Support
 - Integration with FigShare

THANK YOU

josh.weisman@exlibrisgroup.com