

## SEAMLESS AND SECURE REMOTE ACCESS TO RESOURCES

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### WHO WE ARE AND WHAT WE DO

- More than 20 years in the market for creating custom content solutions to propel education and innovation outcomes.
- Our products: Multi-user Universal Search Environment, known as MUSE simplify access to the best digital information collections; Muse Knowledge Search, Muse Knowledge Proxy.
- The Muse Knowledge discovery solutions support modern libraries, e-learning hubs, national education portals and research gateways in connecting people to the digital research and educational materials they need, wherever they are.
- Library Automation companies integrate MUSE in their ILS products to offer reliable single-search capabilities to thousands of research resources.
- Information Services companies distribute MUSE to provide affordable standalone federated search solutions for libraries worldwide.
- Online Database companies OEM MUSE to provide real-time unified search functionality within their search portals.
- Distance Education Companies use MUSE to deliver real-time searching in high-access virtual digital library environments.



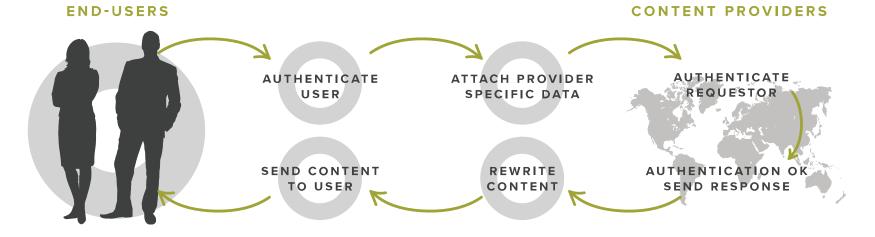


### MUSEKNOWLEDGE<sup>™</sup> PROXY

#### Highly customizable multi-platform proxy server

- Gateway to authenticated restricted content
- Rewriting web server
- Multi-tenant solution
- Easy to use and configure via the MuseKnowledge<sup>™</sup> Proxy Administrator Console
- Web Access Management (WAM)
- Standard HTTP Proxy server

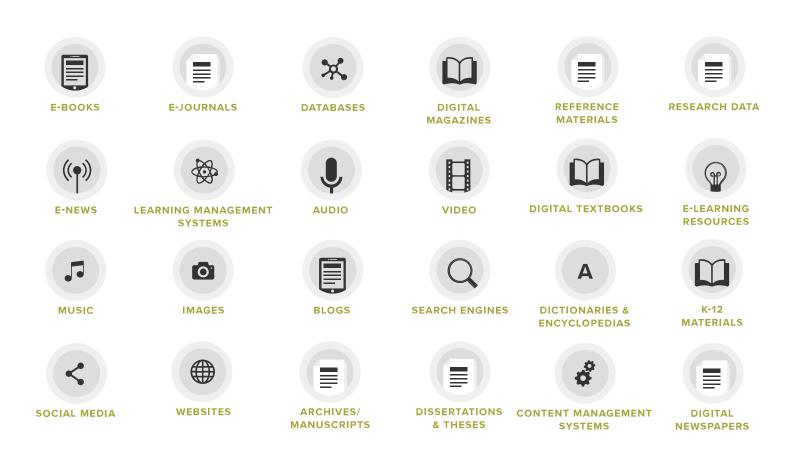
More than 15 years within the Muse Federated Search Platform to manage the authentication to resources and the navigation to full text.





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### MUSEKNOWLEDGE<sup>™</sup> PROXY



#### Overview

- SAML 2.0 Single Sign-on
- Learning Tools Interoperability<sup>®</sup> (LTI)
   integration
- Quickly delivers rewritten pages
- Search widgets and form integration
- Corporate infrastructure: load balancer ready, API ready
- Compatible with all browsers deliver results conveniently and reliably
- System maintenance via automatic Muse Navigation component update distribution service
- Online privacy, protection, and data transparency
- Proxyfied URL (shortcuts to entry point URLs)
- Proxy by path, proxy by host and proxy by API



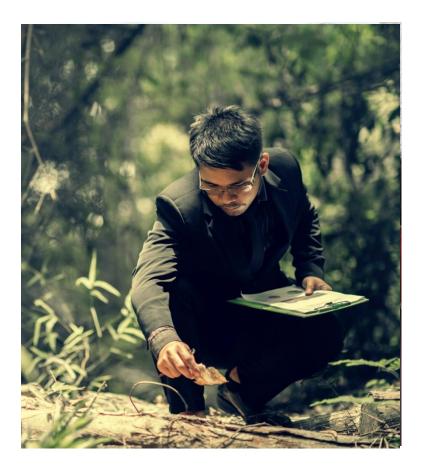
### **GENERAL FEATURES**

- Multi-tenant architecture.
- **Cache** support and **Separate cache** directory per each Server IP, based on the configuration.
- **Configurable authentication** using pluggable authentication login modules.
- Out of the box end user interface organizing sources by multiple views.
- **Patterns for** defining the list of server IP(s) on which to listen.
- **Individual authentication** per each application.
- **Regular HTTP proxy with** HTTP and HTTPS ( CONNECT tunnel) support.
- Support for SSL termination to ensure Load Balancing HTTPS traffic in a manner that avoids unnecessary encryption cycles. This is achieved by MuseKnowledge™ Proxy understanding *X-Forwarded-Proto* header field or the RFC 7239's Forwarded header field containing "proto=https" or "proto=http".

- **Support for** configuring different SSL certificate for each server IP.
- Compression (GZIP) support both for pages that are served after being rewritten (remote rewritten content from vendors) and for content originating to Muse Proxy itself.
- Scripting capabilities.
- **Default log** for messages regarding the activity and errors encountered in a human readable format.
- Access log in which there are written the requests served by Muse Proxy. The Access log can be analyzed using tools like AWStats (http://awstats.sourceforge.net/).
- **Statistics log** with detailed messages regarding Muse Knowledge<sup>™</sup> Proxy activity in a machine readable format.
- **Support** for rewriting WebSockets non binary traffic.
- Hot deployment of sources and applications.



### **GENERAL FEATURES**



- **Proxy chaining** with a next proxy using Proxy Host and Proxy Port or using Proxy PAC.
- **Support for** configuring the redirect of HTTP requests against Applications and Administrator Console to HTTPS.
- **Rewrite by Host** is selectable on a source by source basis.
- Localization support for server messages and also messages reported by configured login modules.
- The static resources are served using the Last-Modified HTTP response header in order to be cached by the browsers.
- Administration Console for managing Muse Proxy configurations.
- **Supports public,** authenticated and private resources in each application.



### MUSEKNOWLEDGE<sup>™</sup> NAVIGATION MANAGER (REWRITING COMPONENT) FEATURES

- Flexible URL patterns, using include and exclude rules, matching all URL components (domain, port, path, CGI parameters), to specify which URLs will be rewritten.
- Extract and navigate scenarios.
- Automatic rewriting of links from HTML attributes.
- Automatic rewriting of links constructed with JavaScript.
- Server side management of Cookies from the Set-Cookie HTTP Headers received from the target rewritten sites.
- Automatic rewriting of Cookies from *document.cookie* JavaScript object.
- Automatic rewriting of links from CSS files.
- Automatic rewriting of links written in page in plain text, using *document.write* sequences.

- **Rewriting links** from XML and JSON using Muse Navigation Manager filters.
- Automatic rewriting of HTML OBJECT and EMBED tags.
- **Rewriting** HTTP and HTTPS sites.
- Automatic authentication for rewritten links using authentication token.
- **Supporting custom charset** in the Content-Type HTTP header returned by the rewritten pages.
- Chaining support for the rewritten links, at server side level with a next proxy via Proxy Host and Proxy Port or Proxy PAC.
- Scheme protocol separation between browser and vendor access.



### MUSEKNOWLEDGE<sup>™</sup> NAVIGATION MANAGER (REWRITING COMPONENT) FEATURES

- Proxy-Authorization using Basic and Digest authorization schemes, at server side level, with a next proxy, for the rewritten links. Support for separate proxy authorization for different rewritten links.
- **HTTP Authorization** for the rewritten links using Basic and Digest authorization schemes, at server side level, with the target site. Support for separate HTTP authorization for different rewritten links.
- The Muse Navigation Manager component (*mnm.jar* file) can be updated at run-time, without restarting Muse Proxy.
- **Tiny URL(s)** support for integration with MuseKnowledge Search.
- **Support for** setting an initial set of Cookie HTTP headers, at server side level, when navigating on a rewritten link. Support for separate sets of cookies for separate rewritten links navigated for the same target site.

- **Support for** setting an initial Referer, at server side level, when navigating on a rewritten link. Support for separate Referer authorization for different rewritten links.
- Configurable Find and Replace filters acting on the HTTP body as well as HTTP headers can be crafted in the XML source profiles and will be interpreted at run-time, without the need to write Java code. Two types of filters: regular Proxy Java filters. Simple (just find/replace) and complex filter expression based and MuseKnowledge<sup>™</sup> Proxy token rule based, similar to the token rules written in Muse configurations involving conditions (such as *APPLY\_IF\_FIRST*) and variables are supported.
- Coookies handling policies.
- **Support for** Internationalized Domain Names (IDN).



### MUSEKNOWLEDGE<sup>™</sup> PROXY APPLICATIONS FEATURES

- A MuseKnowledge<sup>™</sup> Proxy Application can be configured to respond only on certain server IP(s) (domains) on which Muse Proxy listens.
- A MuseKnowledge<sup>™</sup> Proxy Application supports expiry after a certain date.
- MuseKnowledge<sup>™</sup> Proxy Applications users can be authenticated using configurable Authentication Groups.
- An Authentication Group used in a MuseKnowledge<sup>™</sup> Proxy Application performs the authentication using a list of configurable Login Modules. The current list of Login Modules that can be used by MuseKnowledge<sup>™</sup> Proxy Applications is: IP, User/Password, SIP, LDAP, IMAP, POP, SQL, FTP, Referer, HMAC, HTTP External Authentication, LTI, SAML, OAuth, OAuth2, OpenID Connect and CAS based SSO authentications.
- An Authentication Group has a dedicated login page, corresponding with the list of logon parameters required by the Login Modules configured in that Authentication Group.

- An Authentication Group used in a MuseKnowledge<sup>™</sup> Proxy Application allows access to the Sources from a Sources Group.
- The MuseKnowledge<sup>™</sup> Proxy Application web interface is completely configurable using FreeMarker template files (see http://freemarker.sourceforge.net/)
- A MuseKnowledge<sup>™</sup> Proxy Application supports a configurable HTML index page to be displayed when accessing the Muse Proxy Application's home URL.
- Automatic logon in a MuseKnowledge<sup>™</sup> Proxy Application with IP authentication.
- MuseKnowledge<sup>™</sup> Proxy Applications are ready for Load Balancing.



### MUSEKNOWLEDGE<sup>™</sup> PROXY APPLICATIONS FEATURES

- MuseKnowledge <sup>™</sup> Proxy supports Single Sign on Authentication as a Client. A wide range of OAuth, OAuth2, OpenID Connect SSO based authentication are supported. out of the box OAuth specific support is for: BitBucket, DropBox, Facebook, Foursquare, Github, Google, LinkedIn, Odnoklassniki, ORCiD, Paypal, Strava, Twitter, Vk, Windows Live, Word Press, Yahoo. Google ensures authentication with both the public gmail.com domain as well as Google hosted institutions via Google Apps for Education.
- MuseKnowledge <sup>™</sup> Proxy supports HTTP authentication to an external source.

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- A MuseKnowledge<sup>™</sup> Proxy Source can be profiled via EXTRACTORs, URLs, and POST\_PARAMETERs to conduct an extract and navigation scenario in order to obtain tokens or navigate to the desired link before handing over control to the browser with the first rewritten link.
- **MuseProxyFoundation based application supports** source icon configuration. If configured, the image will be displayed under the Source name, next to the source description.

- Sources can be hidden from the source listing but still usable via Entry Points either shortcuts, extended or normal.
- A MuseKnowledge<sup>™</sup> Proxy Application supports a configurable logout page that is displayed when the user was logged out.
- Links to MuseKnowledge<sup>™</sup> Proxy Sources from MuseKnowledge<sup>™</sup> Proxy Applications can be embedded dynamically in external portals. In this way, a customer may use the external portal authentication, but still provide access to MuseKnowledge<sup>™</sup> Proxy Sources links.
- Support for creating categories of MuseKnowledge™ Proxy Sources (grouping); E.g. group sources by subject, type, vendor, alphabetically - A to Z.



### MUSEKNOWLEDGE<sup>™</sup> PROXY APPLICATIONS FEATURES

#### About 1,600+ MuseKnowledge<sup>™</sup> Proxy Sources Profiles to download at this time.

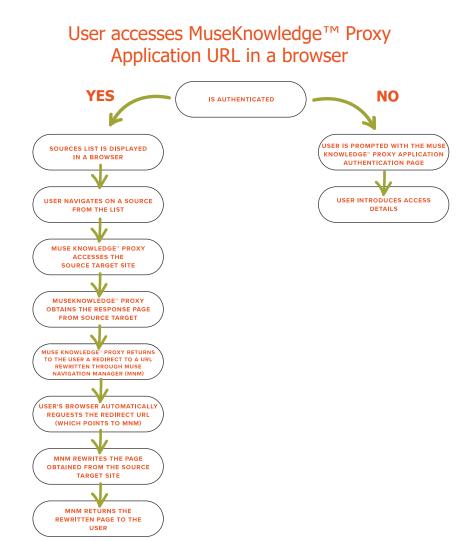
SAML 2.0 Authentication as a Service Provider is supported for a MuseKnowledge<sup>™</sup> Proxy Application. Being based on Spring Security SAML Extension, theoretically all products supporting SAML 2.0 in Identity Provider mode (e.g. ADFS, Okta, Shibboleth, OpenAM, Efecte EIM or Ping Federate) should be compatible;

#### Some of the SAML 2.0 related features

- Includes a local Discovery service.
- **Supports** external Discovery.
- Metadata management supporting adding IDP metadata and generating of SP metadata, pre-validation of IDP metadata to detect the need of certificates, tests for authentication, seeing SAML attributes, guidelines and more.
- **Supports specifying** the IDP metadata either by uploading the IDP metadata file or by specifying the IDP metadata URL with a local file backup with periodically refreshes.
- **Supports specifying** IDP metadata as a file/URL containing one EntityDescriptor or as multiple EntityDescriptor wrapped in *EntitiesDescriptor* (e.g., a federation) with filters eliminating conflicts if the SP metadata is also present in the same file.
- Post-SAML authentication decisions via server-side JavaScript on letting the user in the application, choosing a source group, choosing an attribute to be logged into the statistics. These, as well as other settings are grouped in the *ProxyLoginModuleSAML.xml* configuration file of the SAML login module.



### MUSEKNOWLEDGE<sup>™</sup> PROXY APPLICATIONS



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MuseKnowledge<sup>™</sup> Proxy Applications are web interfaces providing end-users grouped access to various resources from Internet or Intranet.

- The authentication is made via configurable authentication login modules, allowing various authentication types:
  - User/ Password, IP, SIP, LDAP, FTP, IMAP, POP, SQL, Referer, HMAC, SAML, SSO or any combination
- Multiple Authentication Groups can be defined in order to allow end-users to authenticate differently based on their location
- 2 default templates are available:
  - MuseKnowledge<sup>™</sup> Proxy Foundation
  - Anonymous



### MUSEKNOWLEDGE<sup>™</sup> PROXY APPLICATION - FOUNDATION

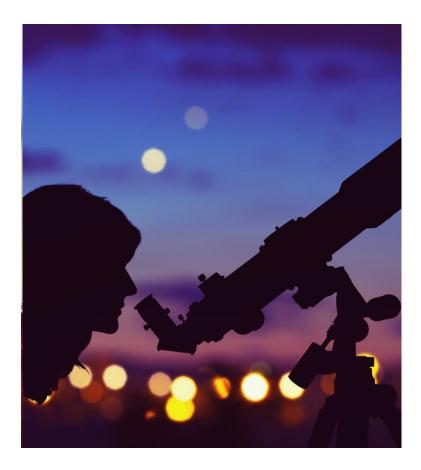
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### MUSEKNOWLEDGE<sup>™</sup> PROXY APPLICATION - ANONYMOUS

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users enjoy a single sign-on for all of the Library Administrators can add Sources	r configurable interface allowing administrators to setup remote or local Data Source e subscribed data. s to the Muse Proxy Application depending of licensing rights. Each Source stores t urce. In this way, Muse Proxy enables end users to reach all configured targets with	he necessary code and	List of Sources in a light Application interface
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		a with interface, multi-language support, and people who a are on the way. We have built the database infrastructure a a prigate that non-profit internet. Active, and a funded it Open project - the software is open; the data	A achievable, goal. To build it, we need hundheds of millions of book records, a brand new database infrastructure for handling huge arounts of dynamic information, re willing to contribute their time, effort, and book data. To date, we have gathwed about 30 million records (20 million are available through the site now), and more and the wilk interfere, and you can search millions of book records, narrow results by facet, and search aroos the full text of 1 millions as sumed books. Open Libery is n part by a grant from the California State Libery. We have according the face to the site is an boomentation is coen, and the site is open. Now it's your turn Everyone can participate in this project, whether you're programmer who wants to build on top of this is n boomentation is coen or of books who wants to make sure his favorites are well presented.
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#### Run-time configuration of:

- MuseKnowledge<sup>™</sup> Proxy Applications and their resources
- Patterns for the server IP(s) on which MuseKnowledge<sup>™</sup> Proxy must listen
- Administrative Access Rules and Passwords
- The list of Administrative Login Modules executed to authenticate each Administrative Web Context and the regular Proxy requests
- Java Policy Rules
- Access details to Global InfoBase, used for downloading the Muse Navigation Manager (*mnm.jar*) component
- SAML Authentication / SSO Authentication

#### Monitoring

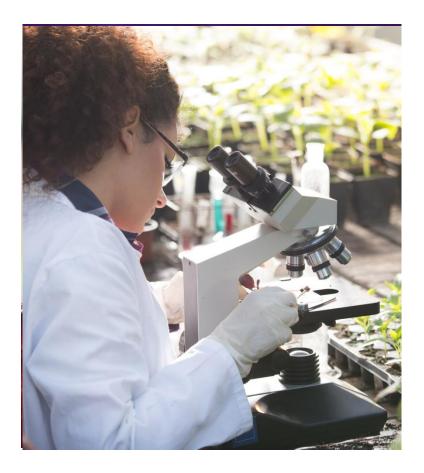
- Connections, Client sessions, TinyURL(s)
- View the Cache Status global statistics
- View the Cache Files for each cache directory

#### Download log files

#### Usage Limits:

• View Rules, Counters and Suspended Users





#### Utilities:

- Generate Type 1 rewritten links and Tiny URL(s)
- Un-Rewrite a MuseKnowledge<sup>™</sup> Proxy Rewritten URL in Type 1 or Type 2 format
- Evaluate Shortcut URL
- Encrypt a password using SHA1, SHA512, SHA256, DES or MD5 algorithms
- Decrypt password
- HMAC URL generator
- Evaluate Regex

#### Server Keystores:

Assigned KeyStores / Available KeyStores

#### **Operations:**

Clean Proxy PAC Cache, Refresh Applications, Refresh Configuration

#### Applications:

• Manage MuseKnowledge<sup>™</sup> Proxy Applications and their resources.



MUSE PROXY Admin	istrator Console		0 About 9 C	Contact 🚱 Logout			
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KeySt	tores, Usag	ge Limits and Applications	Sections				



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Administrative Access Rules		Entity ID is a unique identifier for an identity or service provider. Value is included in the generated metadata. If there are more Muse Proxy Applications intended to be accessed differentiate between the Entity IDs.		tor Console	♥ Contact 등• Logout
Administrative Passwords	Entity base URL:	http://raven.museglobal.ro.9797/ssoRWP			
Jaas Config		Base to generate URLs for this server. For example, https://proxy.example.com/ssoRWP. The public address used to access your server must be used here. Make sure you t and the correct ports if Muse Proxy or the load balancer is configured on ports other than the standard 80 or 443.	Monitoring	This page helps on configuration of new IDP metadata either by providing an URL to the resource where the metadata is extracted from or a local file. Note that the metadata resource entries, as in case of a federation.	can represent an EntitiesDescriptor containing more EntityDescriptor
Jaas Policy	Entity alias:		Statistics	The SAML component behind requires a Servlet Engine restart and due to the SAML complexity it is hard to have things work from the first try, requiring analysing the log file, Dr/muse, level testing (simulation) so that possible needs of defining a certificate, or wrong URL, or wrong XML file are spotted before real configuration and restart.	/proxy/logs/ext.log, too. To minimize downtime we provide some first
SAML Authentication	Chuy anas.	MKPF  Alias is an internal mechanism allowing collocating multiple service providers on one server. For Muse Proxy the alias must be the Muse Proxy Application ID.	Configuration	ever testing (simulation) so that possible needs or demining a certificate, or wrong UKL, or wrong AML the are spotted before real configuration and restart.	
SSO Authentication	Enable IDP discovery profile:	Yes V	Server IP(s)	Configuration » SAML Authentication » Metadata administration » Add New IDP Metadata files	
Cache		Discovery profile enables service provider to determine which identity provider should be used for a particular user. Spring Security SAML contains it's own discovery service wh	Proxy Configuration	Add New IDP Metadata files	
		from.	Administrative Access Rules	By URL By Upload	
Navigation Manager	Custom URL for IDP discovery:	Yes V	Administrative Passwords		
Utilities		When not set local IDP discovery URL is automatically generated when IDP discovery is enabled.	Jaas Config	Provide the URL pointing to the IDP metadata (it can be a federation URL, too). After final configuration, the system will refresh it periodically from that URL, caching it to a disk file, so that pulled from disk using the last fetched data.	, in the event that the metadata may not be pulled from the URL it may be
Advanced	Custom URL for IDP discovery:	No V	Jaas Policy SAML Authentication	Take metadata from URL:	
Applications	Custom URL for IDP discovery:	apolio (apolio) V	SSO Authentication	Timeout in ms to wait for metadata: 20000	
Applications		Key used for digital signatures of SAML messages. Public key will be included in the metadata.	Cache	Metadata Trust Check: No V	
	Encryption key:	apollo (apollo) V		Test IDP meladala	
		Key used for digital encryption of SAML messages. Public key will be included in the metadata.	Navigation Manager		
	Show Advanced Settings >>		Utilities		
	Generate metadata		Advanced		
			Applications		

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19

B.# MUSE © 1998-2018 MuseGlobal. All rights reserved.

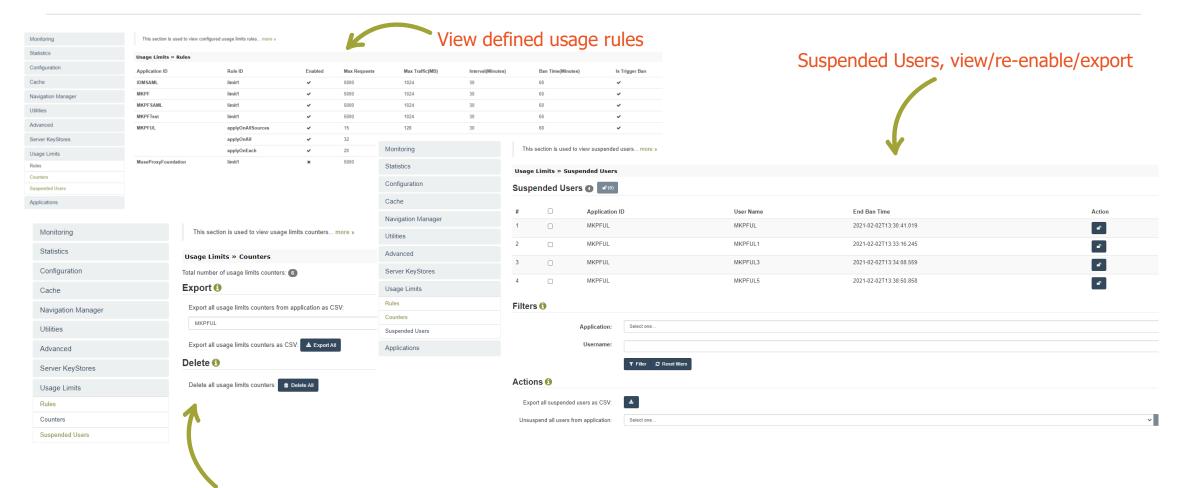






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		Assigned KeyStores	File Name	IP	Issuer	CN=MuseGlobal,O=MuseGlobal,L=RO	Validity	Action
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					Key size Certificate content	2048		a
						View as PEM		
20					Signed	Self signed Generate CSR		

### **MUSEKNOWLEDGE™ PROXY** ADMINISTRATOR CONSOLE



View current usage counters



### JMX FEATURES

#### View at run-time:

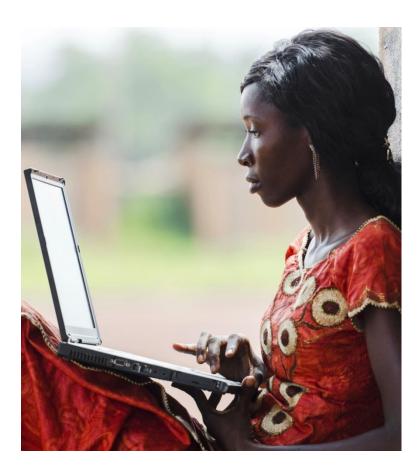
- Information regarding the memory and CPU used by MuseKnowledge™ Proxy
- **Information** regarding the MuseKnowledge<sup>™</sup> Proxy threads
- File Sets mappings (public, authenticated and private) for each Web Context
- MIME Mappings for each Web Context
- Global proxy configuration fields and update the editable fields
- MuseKnowledge<sup>™</sup> Proxy Statistics (traffic statistics and other server statistics) globally and per server IP

#### Set at run-time:

- Authentication Timeout for Proxy Requests and save the configuration to disk
- **Default Authentication Timeout** and Client Session Timeout for the Web Contexts and save the configuration to disk
- Authentication Timeout for a specific Web Context and save the configuration to disk
- Configurable parameters for each Web Module and see
   the value for the read-only parameters
- Patterns for the server IP(s) on which MuseKnowledge™ Proxy must listen and save the configuration to disk



### MUSEKNOWLEDGE<sup>™</sup> PROXY VERSION



#### MuseKnowledge<sup>™</sup> Proxy 5.2 released on May 5<sup>th</sup> 2020

- **SIP and POP** authentication modules.
- Address latest browser security changes, like the cross-domain standards with SameSite=None; Secure attributes.
- Support for localizing the server messages and also messages reported by configured login modules.
- New Pre-authentication module to interpret a set of rules which ensures that the configured login modules are called only if the request is successfully validated against those rules.
- New **administration features** are available: Add New Source from scratch, visually manage the users defined in the *ProxyLoginModuleUserPassword* file.

Available for download on the EduLib website <u>here</u> https://www.edulib.com/products/muse-proxy/download/.

Free 90 Day Trial period for evaluation is offered. Request a Trial License Key by simply filling in the trial form <u>here</u> https://www.edulib.com/products/muse-proxy/try/.



### **USAGE SCENARIOS** EDUCATION AND LIBRARIES

- **MuseKnowledge™ Proxy offers** convenient access to students and professors.
- MuseKnowledge<sup>™</sup> Proxy isolates and protects organizational sensitive credentials. MuseKnowledge<sup>™</sup> Proxy ensures the decoupling of such sensitive credentials from the normal usage scenarios, keeping the credentials and resource URLs transparent with regard to end-users.
- MuseKnowledge<sup>™</sup> Proxy offers library patrons access to bibliographic databases. Library patrons at home or elsewhere can log in through their library's MuseKnowledge<sup>™</sup> Proxy server and gain access to bibliographic databases to which their library subscribes either based on IP, user/password or other credentials.

#### MuseKnowledge<sup>™</sup> Proxy reduces hardware.

MuseKnowledge<sup>™</sup> Proxy Server can run on a machine that has multiple IP(s). Thus, instead of having many physical or virtual machines running with many MuseKnowledge<sup>™</sup> Proxy instances, it is enough to have just one, no matter it is physical or virtual. This means saving money for both hardware acquisition and for power consumption.

MuseKnowledge<sup>™</sup> Proxy offers better network and subscription change control. The access from the in campus computers to the Content Providers is done many times by authenticating all the IPs used by these computers to the target sites. There are situations when the campuses are changing the Internet provider, thus the entire class(es) of IPs. If all the on-campus access to the Content Providers is put through MuseKnowledge<sup>™</sup> Proxy then this offers a fluent control of these changes.

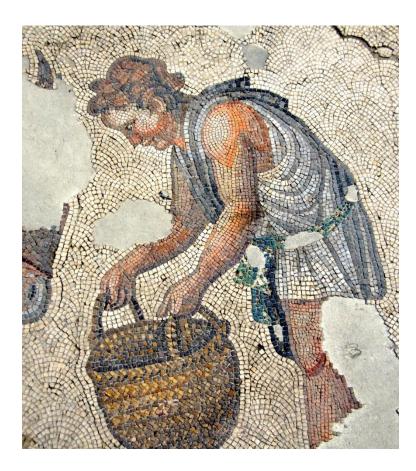


### USAGE SCENARIOS BUSINESS AND ENTERPRISE

- MuseKnowledge<sup>™</sup> Proxy simplifies external access to internal web resources. Instead of using a VPN which requires additional software or hardware, by using Muse Knowledge<sup>™</sup> Proxy the external access becomes straight forward even for mobile devices. Issue Tracking Systems, Help Desk Systems, CMS Systems, CRM Systems, ERP Systems, Internal Demonstration Systems, could selectively be grouped under one or more MuseKnowledge<sup>™</sup> Proxy Application(s).
- MuseKnowledge<sup>™</sup> Proxy offers company accounts protection. Simplified administration of the user groups authorized to access online company subscribed accounts, without the need to hand on company credentials for accessing important protected resources constitutes sensitive data and at the same time are a burden to maintain by each employee.
- MuseKnowledge<sup>™</sup> Proxy adds extra SSL protection. Muse Knowledge<sup>™</sup> Proxy can be used to encrypt the communication between the client and the proxy server using HTTPS even when loading non-SSL sites. MuseKnowledge<sup>™</sup> Proxy only requires a single SSL certificate, because you will always access its host/domain, all the resource URLs being translated to point back to that.
- MuseKnowledge<sup>™</sup> Proxy offers strict access to Internet. Enforce strict rules or access to web sites outside your Intranet. MuseKnowledge<sup>™</sup> Proxy will then be the only gateway to the permitted resources via a configurable MuseKnowledge<sup>™</sup> Proxy Application serving as index to those resources.



### **USAGE SCENARIOS** SOFTWARE INTEGRATION



- MuseKnowledge<sup>™</sup> Proxy replicates web session and context. If you need to transfer and use a web session from a server-side application to a distant front-end browser or a different application, then your Software can interact with MuseKnowledge<sup>™</sup> Proxy by using session authorization elements such as cookies, referrer, HTTP authorization, to migrate web sessions and contexts from servers to clients or other servers. Examples: Federated Search Engines, Discovery Services, Crawling, Harvesting or ETL processes.
- MuseKnowledge<sup>™</sup> Proxy can translate even POST or long GET requests. If the server-side handles long URLs which have more than 2047 characters then these cannot be navigated by some browsers as they are truncated. Using the Tiny URL feature, such long URL can be transformed dynamically to shorter ones.
- MuseKnowledge<sup>™</sup> Proxy offers distinct domains integration. In case you need two or more distant web sites with complex JavaScript processing to be placed under the same domain use MuseKnowledge<sup>™</sup> Proxy as a reverse URL rewriting proxy by accessing the distant site through a MuseKnowledge<sup>™</sup> Proxy located in the first domain.



- LTI launch requests can be used to include a MuseKnowledge<sup>™</sup> Proxy Application or proxified source directly within the Learning Management System (LMS) as an External Tool.
- Once a user is authenticated to the LMS (s)he can access a MuseKnowledge<sup>™</sup> Proxy application or source being defined as an External Tool. MuseKnowledge<sup>™</sup> Proxy acts as a Tool Provider.
- **Example** of LMS platforms supporting LTI: Moodle, Atutor, Sakai, Blackboard, Canvas.
- Working in **iframe** as long as browsers support third party cookies. Opening in new browser tabs is also possible.

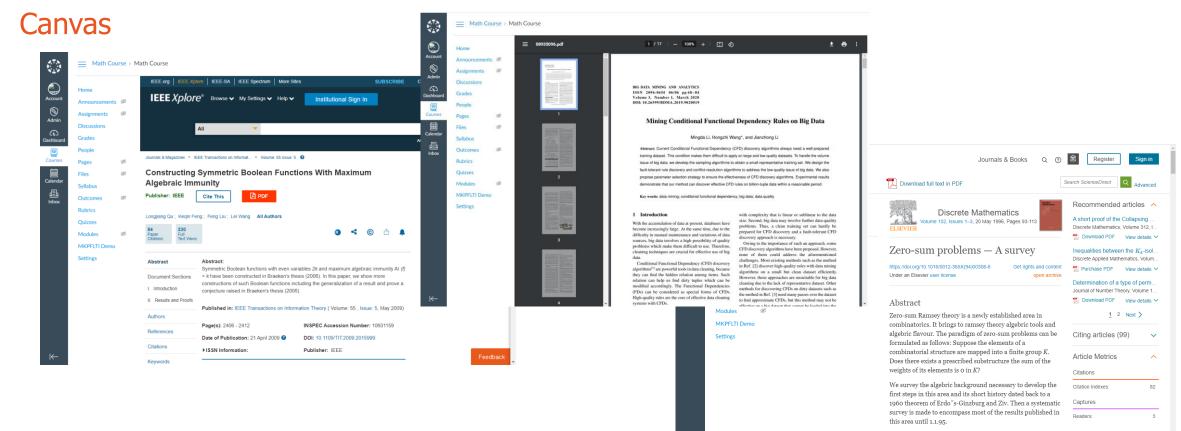




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Several conjectures and open problems are cited along this manuscript with the hope to catch the eyes of the interested



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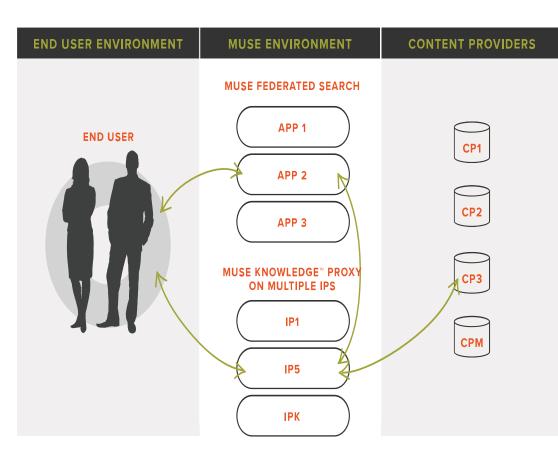
End user access to article content

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## MUSEKNOWLEDGE™ PROXY WITH MUSEKNOLEDGE™ FEDERATED SEARCH



- End user logins into Muse Search Application 2 and begins a search
- The search passes through the authenticated and configured IP IP5
- Information is extracted and the processing starts
- **MuseKnowledge™ Records** are created and stored in temporarily workroom including cookies and session IDs
- **MuseKnowledge™ Proxy is queried** for services and URLs are matched against configured patterns and rewritten
- **Tiny URLs are created** and stored in the Muse Knowledge<sup>™</sup> Proxy session
- **MuseKnowledge™ Application** displays the records to the End user
- End user clicks on a rewritten record link or Tiny URL to access
  full content
- **The MuseKnowledge™ Proxy connects** to Content Provider 3 via IP5 to get the full content page; the initial search connection is recreated due to the cookies and session IDs
- The MuseKnowledge<sup>™</sup> Proxy connects to Content Provider 3 via IP5



### MUSEKNOWLEDGE<sup>™</sup> PROXY MONITORING

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-Attributes	LogFileName	C: \muse/proxy/logs/MuseProxy.log
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	LogTimeInterval	24
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eom.edulib.muse.proxy.jmx eom.edulib.muse.proxy.update	LoggingLevel	
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🗄 🔒 com.sun.management	MaxBackupIndex	10
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- Real time monitoring with JMX
- RRD graphs
- AWStats like statistics for Muse Knowledge<sup>™</sup> Proxy Access log files
- MuseKnowledge<sup>™</sup> Proxy Administration Console

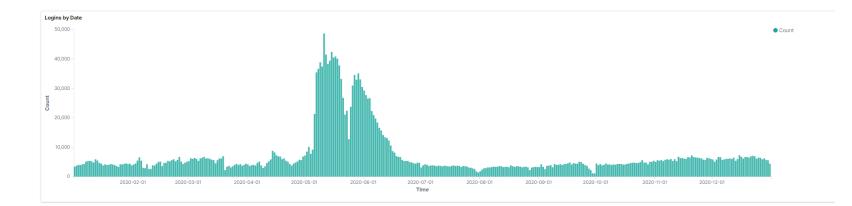
Countries		Pages	Hits	Bandwidth	
United States	us	139,427	141,021	2.17 GB	
Romania	ro	51	145	1.04 MB	
China	cn	49	49	153.51 KB	
Taiwan	tw	25	25	78.32 KB	
India	in	18	18	56.39 KB	
Chile	cl	13	13	40.73 KB	
France	fr	12	12	37.59 KB	
Germany	de	12	12	37.59 KB	
Japan	jp	6	6	18.80 KB	
Canada	ca	5	5	15.66 KB	
Others		10	10	39.51 KB	

W,	Hosts : 71 Known, 14 Unknown (unresolved ip) 84 Unique visitors	Info.	Pages	Hits	Bandwidth	Last visit
	5k03.museglobal.com	?	130,376	130,376	2.11 GB	13 May 2014 - 05:50
	nce.museglobal.com	?	8,612	8,612	1.45 MB	13 May 2014 - 05:59
	.museglobal.ro	?	50	144	1.04 MB	13 May 2014 - 01:13
	08-35-56-175.nwrknj.fios.verizon.net	?	44	50	2.90 MB	08 May 2014 - 07:46
	2-68-67.lightspeed.milwwi.sbcglobal.net	?	41	41	3.56 MB	12 May 2014 - 13:32
	.8bbdd42.static.optonline.net	2	39	182	5.97 MB	07 May 2014 - 12:44
dnat	-64-26-100-49.bcpl.lib.md.us	?	36	191	5.77 MB	12 May 2014 - 14:53
ool-addc8f02.static.optonline.net		?	31	163	4.04 MB	10 May 2014 - 09:18
c-24	24-16-174-164.hsd1.wa.comcast.net		30	96	1.86 MB	06 May 2014 - 12:46
122-146-47-35.adsl.static.spargnet.net			25	25	78.32 KB	13 May 2014 - 04:22
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_		<ul> <li>Last visit</li> </ul>		_		
0 different robots*				Hits	Bandwidth	Last visit

\* Robots shown here gave hits or traffic "not viewed" by visitors, so they are not included in other charts.



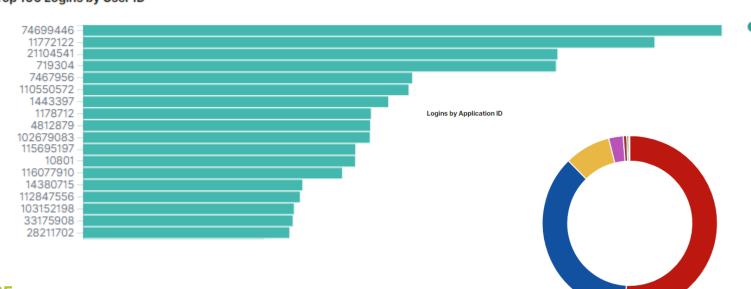
- Easy to access, web based;
- Provides visual charts and reports on logins, sessions, accessed resources;
- Advanced filtering capabilities;
- Provides enhanced usage statistics per publisher, downloads (full text PDF/HTML/EPUB, etc.), journals, books;
- Export data;
- Enrich with third party mechanisms for getting additional information;
- **Dashboards** with predefined statistical information;
- COUNTER Compliant Statistics <a href="https://www.projectcounter.org/">https://www.projectcounter.org/</a>





#### General Usage Statistics: Application Logins

- Total Number of Logins
- Total Number of Unique Users
- Logins by Date, by Muse Proxy Application ID, by User ID, by User IP, by User Country, by Server

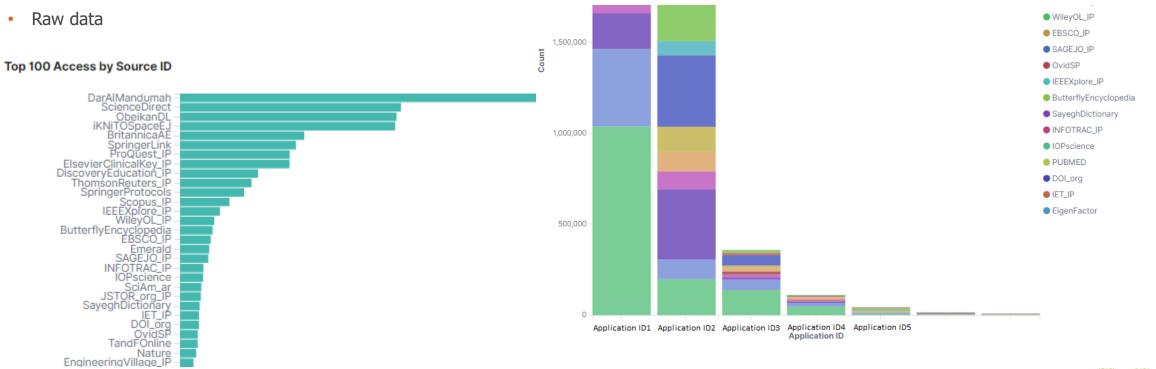




#### Top 100 Logins by User ID

#### General Usage Statistics: Source Accesses

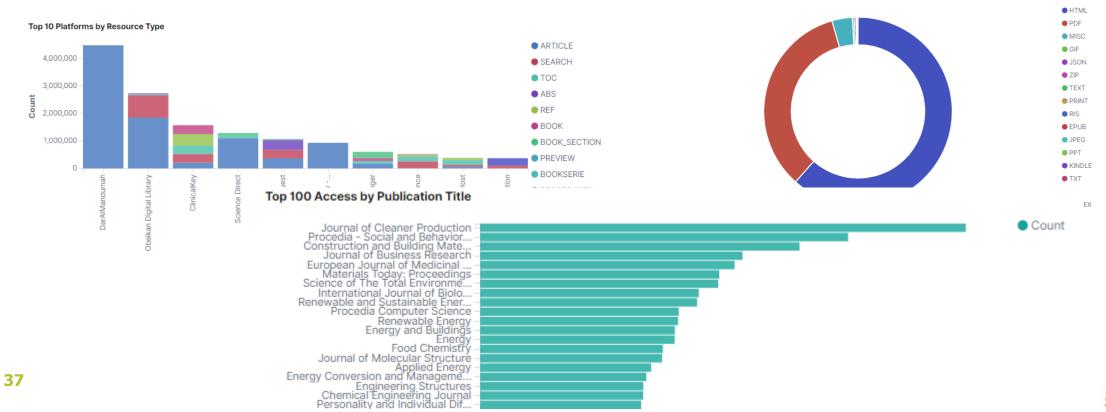
- Top 100 Access by Source ID
- Top 10 Accessed Sources per Application ID





#### Publisher Content Access Statistics

 Accessed Events (Full Text accesses, PDF downloads, etc.), by Date, by Muse proxy Application ID, by Platform, by Resource Type, by Resource Format, by Domain, by Identifier, by Publication Title



#### Security

• Find possible compromised accounts based on the originating IP address and Geolocation





#### **User Activity**

• Detailed user actions: Number of Logins, First Visit, Last Visit, Total Time Spent, Sessions, Accessed Sources, Number of Events (Full Text accesses, PDF downloads, etc.), Accessed Publication Titles, Operating Systems/Devices/Browsers used.





### REFERENCES

- Muse Proxy.pdf
- Muse Proxy Advanced Configuration.pdf
- Muse Proxy Administrator Console.pdf
- "MuseKnowledge Proxy Administration Console"
   presentation
- "MuseKnowledge Proxy and OAuth Authentication" presentation

- "MuseKnowledge Proxy and SAML Authentication"
   presentation
- "MuseKnowledge Proxy Applications" presentation
- "MuseKnowledge Proxy Integration" presentation
- "MuseKnowledge Proxy Source Profiling" presentation



# MUSE PROXY

## SEAMLESS AND SECURE REMOTE ACCESS TO RESOURCES

