



MUSE

Smart Connector Technology for Federated Search

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MuseKnowledge™ Federated Search Platform

Delivering content integration technology since 1998

- Building and delivering the widest range of federated content through the industry's most flexible content integration platform
- Seamlessly integrate limitless content sources into applications and services
- Experienced and proven technology powering scaled applications
- 15 years of continuous development and integrations

We rapidly deliver comprehensive applications without substantial in-house development

- Muse Source Factory™ of 5,000 + content source connections enables partners to scale platforms and services

Muse is the only product of comprehensive, plug & play content integration technology

- Federation, Harvesting, Transformation, Enhancement, Security, Source Maintenance, Multiple Delivery Mechanisms, Analyzed extracted data

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MuseKnowledge™ and the Enterprise Search Platform

Muse's Value to Enterprise Search

- Expanding source connections, especially for information outside corporate repositories
- Providing enhanced (enriched) records from multiple sources
- Performing an array of advanced post-processing on results sets
- Multiple integration architectures and information delivery modes

MuseKnowledge™ Federated Search is complementary to Enterprise Search

- MuseKnowledge™ Federated Search is a content harvester, normalizer and feeder
- MuseKnowledge™ Federated Search is designed to be a pass-through technology, with no repository functionality
- Feeds directly to Enterprise Search Engine and, or repositories

MuseKnowledge™ can Federate the Enterprise Search engine and other Sources in real time for end users

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MuseKnowledge™ Federated Search

Multiple domains of applicability

- Library, University, Hospitals, Legal, Police
- Business (B2B), Government (B2G), Consumer (B2C)

Various types of sources

- Search, Writer, Enrichment, Content Mining, Inter Library Loan, Hold, Patron, DeDupe, Ranking, Shopping Cart

Various protocols supported

- Atom, HTTP/HTML, HTTP/XML, JSON, NCIP, OAI-PMH, RSS1.0, RSS2.0, SIP2, SQL, SRU, SRW, Telnet, Z39.50

Maintenance and management at runtime

- Application grouping and execution; parallel execution, thread control, post processing, DeDupe, Ranking, Content Mining, hot deployment, sandboxing

Scalability

- Single Muse instance vs. Shared Load Balanced Environment; *NFS* and *rsync* for synchronization

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More



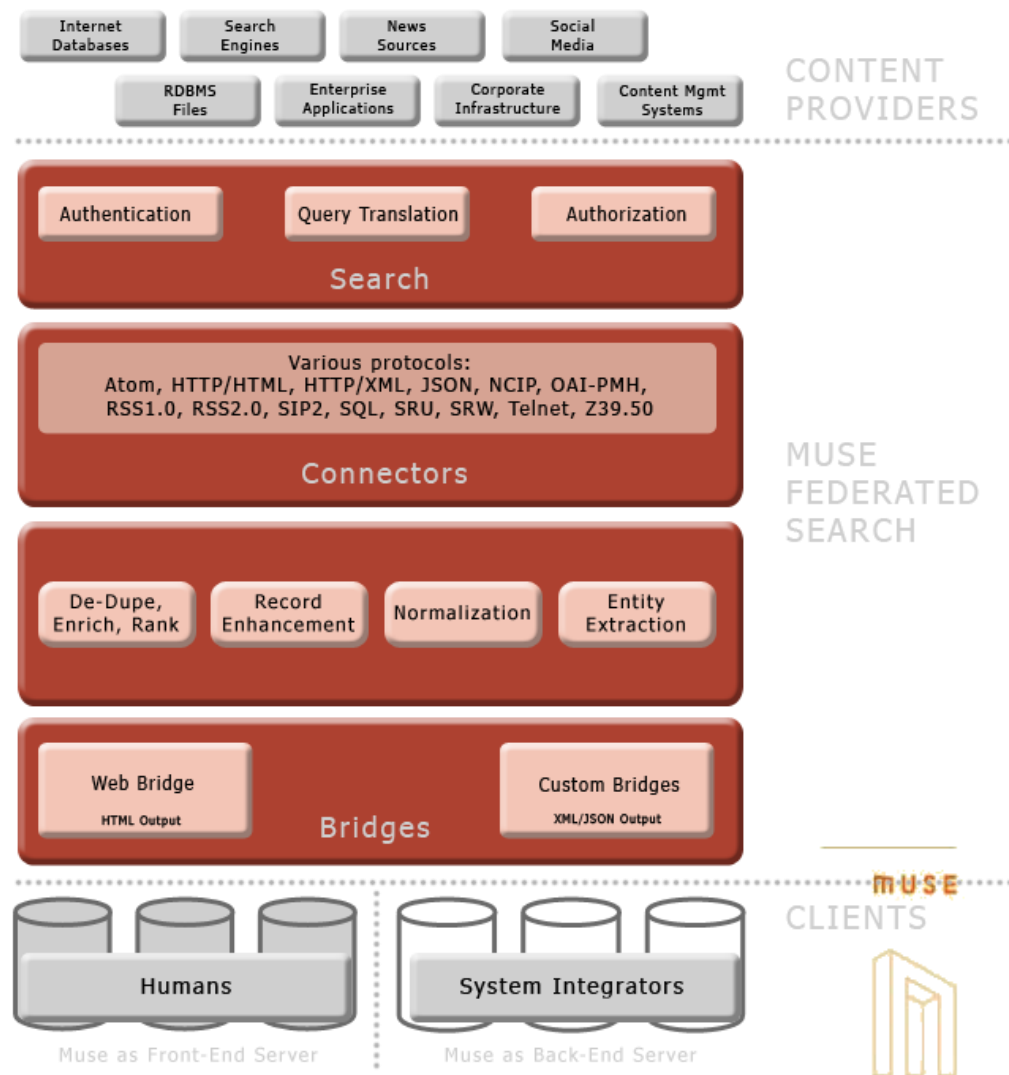
MuseKnowledge™ Federated Search

- **User searches via browser User Interface or client system**
- **Access to free and authenticated Sources**
- **Search translated for each Source**
- **Multiple Content Sources, Same Search Query, Single Integrated List**
- **Results enhanced from multiple Sources**
- **Results reformatted and normalized**
- **Result Set sort, rank, export, deduplication, processing**
- **Refine results functionality**
- **Search history and saved searches**
- **Personalization of functions and Sources**
- **Enterprise customization of UI and Sources**
- **User Interface for Mobile Devices**
- **Linking to the native detailed record**
- **Application server, sandboxing**
- **Statistics**
- **Vendor neutral**

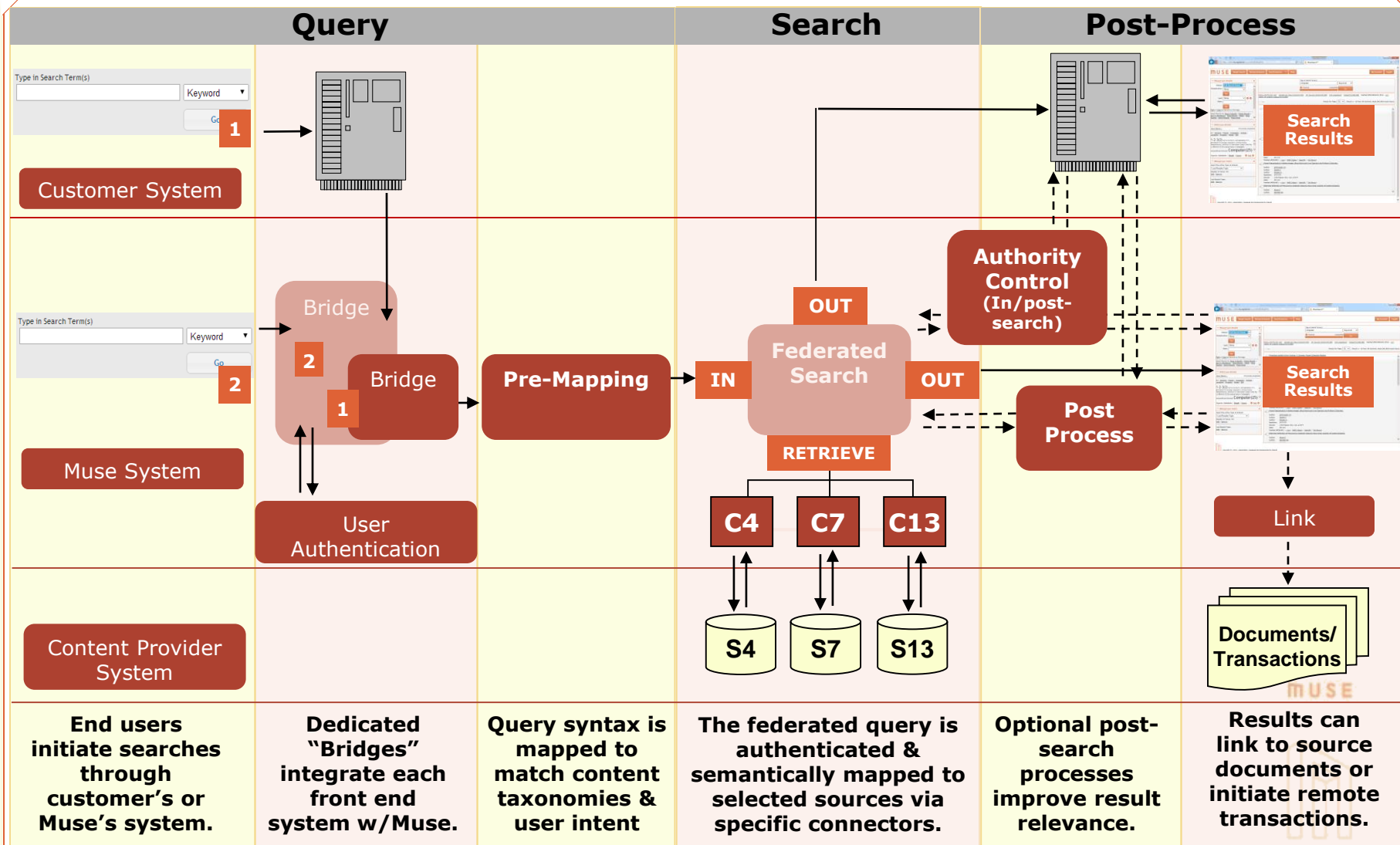


MuseKnowledge™ Federated Search

- **Layered Architecture**
- **Muse can integrate in multiple ways because of:**
 - Protocol handling Bridges
 - Message based interaction (loose coupling)
 - Symmetric message handling (listens and talks)
 - Session management (convert a transaction into a dialog)
- **Multi-processing & Multi-threading kernel allows:**
 - Handling multiple input message streams (user sessions)
 - Efficient resource usage through asynchronous processing
 - Robust operation with different speed external systems



The Federated Search Process



MuseKnowledge™ Architecture – Infrastructure Functionality

Sophisticated search and content integration solution, with advanced post-processing and a highly productive user environment, supported by a full complement of powerful management tools

Searching

- Source Selection
- Source Capabilities
- Source Limiters
- Pre mapping
- Stats & usage tracking

User Environment

- Post-search processing
- Personalized workspaces
- Alerts
- Advanced exploration
- Content Mining

Admin & Management

- Authentication & DRM
- User Interface customization
- Management consoles
- Source maintenance

Integration

- Content integration
- Application integration
- Message Passing Environment
- Session Management

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The Most Extensive Metadata Support Available

Sampling of key Metadata fields supported by Muse

- Control numbers (ISBN, ISMN, ISSN, etc.)
- Author, Title & Journal Title
- Citation Data (title, volume, issue, page, year, ISSN)
- Assigned Keywords & Derived Keywords
- Abstract
- Subject Headings
- Classification
- Category
- Location (geographical, within building, shelving, filing)
- Printing/publishing details (year, publisher/printer, location, etc.)
- Material Descriptors & Thematic Descriptors
- Target Audience
- Size (pages, bites, seconds, etc.)
- Linking (material, subject, location, thematic, etc.)
- Use Limiting Data (access rights, price, embargo, etc.)
- Availability Data (inventory, comparison shopping, shipping, etc.)
- Author Affiliation
- References (to other material)
- Object Linking (full text, image, video, audio)

Thousands more...

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Enrichment

- Create an enhanced record with content from more than one input record
- Secondary searches may use search parameters derived from main record
- Uses field level merging and whole record merging
- ExParsers (Extended Parsers) process record components for normalized data
- Dynamic selection (content based) of ExParsers
- OpenURL resolvers

Book cover retrieved from enrichment service provider

Search for: **Title java**

- ☐ **The art of Java / Herbert Schildt, James Holm**
 McGraw-Hill, 2003.
Source: Library Service
- ☐ **High wind in Java [text (large print)] / Peter Tonkin.**
 LARGE PRINT
Sutton : Severn House Large Print, 2010.
Source: Library Service

IDR:

Authentication Settings

Authenticator:

User Name:

User Password:

User Pin:

Extended Parser Settings

Use Extended Parser: ☒ Yes ☐ No

Extended Parser Class:

Extended Parser Encoding:

Extended Parser Configuration File:

Proxy Settings

Use Proxy: ☒ Yes ☐ No

Proxy Host:

Source Extended Parsers

The role of an Extended Parser is to parse additional data which will be added to the current record, usually by performing one or more additional requests to the Data Service.

Choose one of the allowed Extended Parsers for Academic Search Premier.

☐ No Extended Parser needed

☒ **ExParserEBSCO**

Description of the Extended Parser.

Extended Parser encoding.

Extended Parser configuration file.

Configurable ex-parsers



Pluggable Login Modules

Muse comes with a collection of login modules to define the desired authentication scenario. The Login Modules can be combined to form an authentication stack.

Existing Login Modules:

- ICELoginModuleXML - username/password authentication
- ICELoginModuleIP - IP authentication
- ICELoginModuleLDAP - authentication against LDAP
- ICELoginModulePPMS - personal user authentication
- ICELoginModuleHTTPReferer - referrer authentication
- ICELoginModuleHMAC - HMAC signature authentication
- ICELoginModulePropertiesExtractor - SAML authentication

Login Modules parameters and their semantics:

- **Required** - The Login Module is required to succeed. If it succeeds or fails, authentication still continues to proceed down the Login Module list;
- **Requisite** - The Login Module is required to succeed. If it succeeds, authentication continues down the Login Module list. If it fails, control immediately returns to the application (authentication does not proceed down the Login Module list).
- **Sufficient** - The Login Module is not required to succeed. If it does succeed, control immediately returns to the application (authentication does not proceed down the Login Module list). If it fails, authentication continues down the Login Module list.
- **Optional** - The Login Module is not required to succeed. If it succeeds or fails, authentication still continues to proceed down the Login Module list.

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Pluggable Login Modules

Authentication scenarios for MuseKnowledge™ Applications:

- Standard Username/Password authentication. The end-user enters a username and password at the Muse Applications login form;
- Standard IP authentication. If the IP of the end-user is authenticated he/she is allowed in the Muse Application;
- Standard LDAP authentication. The end-user enters his LDAP username/password details;
- IP authentication for on campus users and Username/Password for off-campus;
- IP authentication for on campus users and LDAP for off campus;
- IP authentication for on campus users and personal user details for off campus;

Example of configured login modules

Login Modules Available to Add

Login modules available in the Muse Console for Applications Administration

An exploration workflow

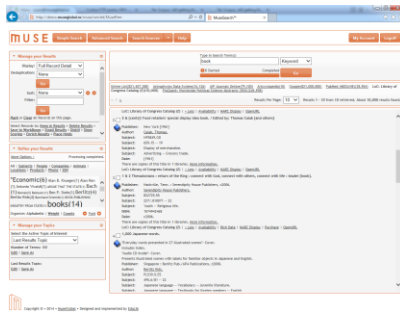
MuseKnowledge™ User Interface



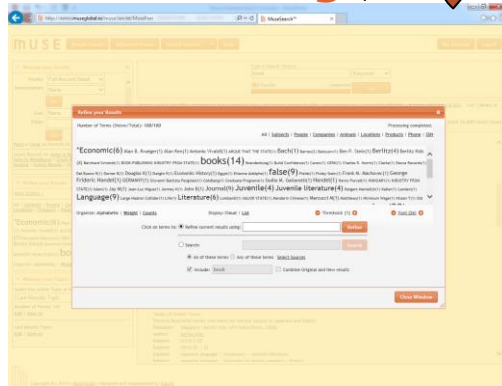
Linking To Native Full Text Record



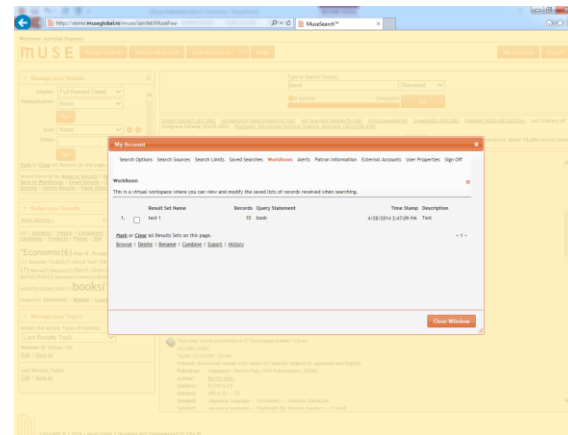
Search



Refine & Post Processing



Personal Workspace



Customer Federated Search

The screenshot displays a web browser window with the address bar showing 'demo.museglobal.ro/muse/servlet/MusePeer'. The page features a navigation bar with the 'MUSE' logo, buttons for 'Simple Search', 'Advanced Search', 'Search Sources', and 'Help', along with links for 'English', 'My Account', 'Skin: MGB', and 'Logoff'. The main search area includes three input fields for 'Type in Search Term(s)', each with a 'Keyword' dropdown menu. Below these fields are radio buttons for 'And', 'Or', and 'Not' search logic. At the bottom of the search area, there are radio buttons for 'Group Terms: Left' and 'Right', and a 'Go' button.

This screenshot shows the initial search screen designed to fit the look and feel of the rest of the Partner's website and other customer facing systems.



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More

Customer Federated Search

The screenshot shows the MuseSearch™ web interface. The browser address bar displays 'demo.museglobal.ro/muse/servlet/MusePeer'. The page features a navigation bar with the 'MUSE' logo, buttons for 'Simple Search', 'Advanced Search', 'Search Sources', and 'Help', along with language and account options. The main search area includes a text input with 'book', a 'Keyword' dropdown, and radio buttons for 'And', 'Or', and 'Not'. Below this, there are additional search fields and a 'Go' button. A 'Search Sources' modal window is open, displaying a list of sources with checkboxes. The 'Libraries' source is checked, and several other sources like 'Medical', 'Scientific', 'AIP Journals Online', and 'Astrophysics Data System' are also checked. The modal includes 'Apply' and 'Cancel' buttons at the bottom.

Query: book

Search Sources

Show or Hide All Sources | Check or Uncheck All Sources | Highlight Sources

<input checked="" type="checkbox"/> Libraries (1 1)	<input type="checkbox"/> Medical (0 3)
<input type="checkbox"/> Arts (1 4)	<input type="checkbox"/> Scientific (2 3)
<input type="checkbox"/> Reference (0 3)	<input checked="" type="checkbox"/> AIP Journals Online 1
<input type="checkbox"/> ERIC 1	<input checked="" type="checkbox"/> Astrophysics Data System 1
<input type="checkbox"/> EBSCO: Academic Search Premier (EBSCOhost) 1	<input type="checkbox"/> Scirus 1
<input type="checkbox"/> ProQuest: Conference Papers Index (SRU) 1	<input type="checkbox"/> Encyclopedias (0 2)
<input type="checkbox"/> Business (0 1)	<input type="checkbox"/> Web (1 2)

Apply Cancel

The "Search Sources" drop menu has been opened and some Sources selected in addition to the defaults. A simple search is typed in ("book") The user now clicks "Go"...



Customer Federated Search

Control panels allow the user to navigate and manipulate the whole result set. Selected records can also be saved, exported, etc.

Related Queries widget.

Search results are listed in the selected display format.

All Sources are listed with a record count. Clicking any one displays records from that Source only.

Side search widgets with specialized sources.

Term highlighting.

Special panel shows terms extracted from the results set which can be used to refine the results. Refine with year 2016 to narrow the results.

The screenshot displays the MuseSearch™ web application interface. At the top, there's a search bar with the text 'demo.museglobal.com'. Below it, the 'MUSE' logo is visible, followed by tabs for 'Simple Search', 'Advanced Search', 'Special Sources', and 'Links'. On the right, there are buttons for 'My Account' and 'Logoff'. The main content area shows search results for the term 'book', with a refined count of 2016. The results are displayed in a list format, showing details like author, source, and date. On the left, there's a 'Manage your Results' panel with options for display, deduplication, sorting, and filtering. Below this is a 'Searched Sources' panel listing various sources with their respective record counts. At the bottom left, a 'Refine your Results' panel shows a list of terms extracted from the results, with '2016(9)' highlighted. On the right, there are side widgets for 'Related Queries', 'Dictionary', and 'Wikipedia'. The interface is designed to be user-friendly and comprehensive, allowing for detailed search and analysis.

Customer Federated Search

The screenshot displays the MuseSearch™ web application interface. The browser address bar shows `demo.museglobal.ro/muse/servlet/MusePeer`. The application header includes the 'MUSE' logo, navigation tabs for 'Simple Search', 'Advanced Search', 'Search Sources', and 'Help', along with 'My Account' and 'Logout' buttons.

The main search area shows the search term 'book' entered in the 'Type in Search Term(s)' field. Below the search bar, it indicates '7 Started' and 'Completed' status, with a 'Go' button. The search results are refined to '2016'.

On the left sidebar, the 'Manage your Results' section includes options for 'Display' (Full Record Detail), 'Deduplication' (None), 'Sort' (None), and 'Filter'. Below this, there are links for 'Mark or Clear all Records on this page.', 'Select Records to: Keep in Results, Delete Results, Save to WorkRoom, Email Results, Enrich Results, Place Holds', and 'Save to Disk as: HTML, Text, Raw Data, RIS, EndNote, PDF'. The 'Searched Sources' section lists 'Entire List (3,880,090,751)' with sub-sources like 'Astrophysics Data System (34,680)', 'AIP Journals Online (0)', 'Antyclopedica (10)', and 'Google (3,880,000,000)'. The 'Refine your Results' section shows 'More Options...' and 'Processing completed.' with filters for 'All | Authors | Years | Subjects | Companies | Locations | Products'.

The search results list shows 9 records. The first record is a book review titled 'Topic Identification for cross-sectoral quality assurance in stroke and TIA treatment'. The second record is a book review titled 'Barbara Taylor, The Last Asylum: A Memoir of Madness in Our Times'. The third record is a book review titled 'Catharine Coleborne, Insanity, Identity and Empire: Immigrants and Institutional Confinement in Australia and New Zealand, 1873-1910'. The fourth record is a book review titled 'Quality agencies at the global level: characteristics and functions-a narrative review'. The fifth record is a book review titled 'The use of Clausenisa in insect pest control in Africa: A review'.

On the right sidebar, the 'Related Queries' section lists 'e book' and 'e book on medical record'. The 'Dictionary' section defines 'book' as 'noun 1. a handwritten or printed work of fiction or nonfiction, usually on sheets of paper fastened or bound together within covers. 2. a work of fiction or nonfiction in an electronic format: Your child can listen to or read the ...'. The 'Wikipedia' section defines 'Book' as 'For other uses, see Book (disambiguation). A book is a set of written, printed, illustrated, or blank sheets, made of ink, paper, parchment, or other'.

A red box highlights the breadcrumb navigation path: 'Home > Search > book > 2016'. A red arrow points from the text 'Breadcrumb functionality allows navigation between post-search action results and the original search results' to this path.

A red box highlights the 'Go' button in the search bar. A red arrow points from the text '... and then end up with 9 records. The desired record is a click away.' to this button.

Customer Federated Search

MUSE Simple Search

Manage your Results

Display: Full Record Detail
Deduplication: None
Sort: None
Filter:

Go

Mark or Clear all Records on this page.

Select Records to: Keep in Results • Delete Results • Save to WorkRoom • Email Results • Distill • Show Scoring • Enrich Results • Place Holds

Refine your Results

More Options - Processing comp

All | Subjects | People | Companies | Animals | Locations | Products | Phone | SSN

-- Miscellanea(4) 000000(6)
101 Tips(6) 66th Annual
(7) Adams(6) Adams

Organize: Alphabetic | Weight | Counts

Manage your Topics

Select the Active Topic of Interest
Last Results Topic

Number of Terms: 20
Edit | Save As

Last Results Topic:
Edit | Save As

Searching: Database
0 Recent searches | 0 Selected items | My Research | Exit

< All databases | Science & Technology databases

ProQuest COS Conference Papers & Proceedings
Basic Search | Advanced

Citation/Abstract

☐ Add to selected items

Efficacy of a Multifactorial Treat-to-Target (TTT) Approach in Subjects with Type 2 Diabetes (T2D) - Importance of an Intensive Structured Educational Diabetes Program (SEDP) and a Diabetes-Network (DN)

Lange, Martin; Wernsing, Marita; Schadwinkel, Nicole; Oberstadt, Stephan; Unger, Heinz; et al.
66th Annual Scientific Sessions of the American Diabetes Association (ADA 2006)

URL: <http://scientificsessions.diabetes.org/index.cfm?fuseaction=Locator.DiisplaySearchAbstract&CalledByID=1006>

Abstract (summary) Translate

Indexing (details) Cite

Subject: Diabetes mellitus; Education

Conference: 66th Annual Scientific Sessions of the American Diabetes Association (ADA 2006), Washington DC (USA), 9-13 Jun 2006

Organizer: American Diabetes Association

Event start date: 2006-06-09

Conference sponsor: American Diabetes Association

Session name: General

URL: <http://scientificsessions.diabetes.org/index.cfm?fuseaction=Locator.DiisplaySearchAbstract&CalledByID=1006>

Title: Efficacy of a Multifactorial Treat-to-Target (TTT) Approach in Subjects with Type 2 Diabetes (T2D) - Importance of an Intensive Structured Educational Diabetes Program (SEDP) and a Diabetes-Network (DN)

Conference title: 66th Annual Scientific Sessions of the American Diabetes Association (ADA 2006)

Author: Lange, Martin; Wernsing, Marita; Schadwinkel, Nicole; Oberstadt, Stephan; Unger, Heinz; et al.

Correspondence author: Lange, Martin

Publication title: 66th Annual Scientific Sessions of the American Diabetes Association (ADA 2006)

Publication year: 2006

Year: 2006

Source type: Conference Papers & Proceedings

Original full text, from free and subscription Sources.

4. ☐ Factors Associated with Glycemic Control in Children/Youth with Type 1 and Type 2 Diabetes

MuseKnowledge™ Application – Search Sources

- Select individual, multiple sources for searching
- Select entire groups of sources
- Highlight the source(s) by the quick find functionality

The screenshot shows a 'Search Sources' dialog box with a title bar and a close button. Inside, there are two tabs: 'Show or Hide All Sources' and 'Check or Uncheck All Sources'. A search bar labeled 'Highlight Sources' is on the right. The main area lists various source categories and individual sources, each with a checkbox and a count in parentheses. The categories are: Libraries (1 | 1), Arts (1 | 4), Reference (0 | 3), Medical (1 | 3), Scientific (2 | 3), Encyclopedias (0 | 2), and Web (1 | 2). Individual sources include LoC: Library of Congress Catalog (Z), Architectural Index, Artcyclopedia, ProQuest: ARTbibliographies Modern (SRU), ProQuest: Worldwide Political Science Abstracts (SRU), Google, and Yahoo. The 'Apply' and 'Cancel' buttons are at the bottom right.

Category	Count	Source	Selected
Libraries	(1 1)	LoC: Library of Congress Catalog (Z)	Yes
Arts	(1 4)	Architectural Index	No
		Artcyclopedia	Yes
		ProQuest: ARTbibliographies Modern (SRU)	No
		ProQuest: Worldwide Political Science Abstracts (SRU)	No
Reference	(0 3)		No
Medical	(1 3)		No
Scientific	(2 3)		No
Encyclopedias	(0 2)		No
Web	(1 2)	Google	Yes
		Yahoo	No

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MuseKnowledge™ Application – Search Options

- **Enrich Results**
- **Handle Duplicates**
- **Set how many results to retrieve per Source**
- **Set how many results to display**
- **Set Display Level: One Line, Brief, Full, Text, Raw, XML, Atom, RIS, EndNote;**
- **Control Search Progress and Details**
- **Sorting Options**

The screenshot shows a 'Search Options' dialog box with a title bar and a close button. Below the title bar is a subtitle: 'These settings are used when you start a search. Search results will be returned based on these settings.' The dialog is divided into two columns of settings. The left column includes: 'Enrich Library Results' (radio buttons for Yes and No, with No selected), 'Remove Duplicates By' (radio buttons for None, Title, Title3111, URL, and Host, with None selected), 'Display Duplicates' (radio buttons for Yes and No, with Yes selected), 'Results Per Source' (radio buttons for 10, 25, 50, and 100, with 10 selected), 'Results Per Page' (radio buttons for 10, 25, 50, and 100, with 10 selected), 'Results Display Level' (radio buttons for One Line Record, Brief Record Detail, and Full Record Detail, with One Line Record selected), and a group of radio buttons for output formats: Text, Raw Data, XML, Atom, RIS, and EndNote. The right column includes: 'Sorting By' (radio buttons for None, Relevance, Title, Author, Author Title, Date, Retrieved, Source, Banded Retrieval, and Topic Space, with None selected), and 'Sorting Direction' (radio buttons for Ascending and Descending, with Ascending selected). At the bottom right of the dialog are two buttons: 'Restore to Defaults' and 'Close Window'.

Search Options

These settings are used when you start a search. Search results will be returned based on these settings.

Enrich Library Results:
☐ Yes ☒ No

Remove Duplicates By:
☒ None ☐ Title ☐ Title3111 ☐ URL ☐ Host

Display Duplicates:
☒ Yes ☐ No

Results Per Source:
☒ 10 ☐ 25 ☐ 50 ☐ 100

Results Per Page:
☒ 10 ☐ 25 ☐ 50 ☐ 100

Results Display Level:
☒ One Line Record ☐ Brief Record Detail ☐ Full Record Detail

☐ Text ☐ Raw Data ☐ XML ☐ Atom ☐ RIS ☐ EndNote

Show Search Progress:
☒ Yes ☐ No

Show Progress Details:
☒ Yes ☐ No

Sorting By:
☒ None
☐ Relevance
☐ Title
☐ Author
☐ Author Title
☐ Date
☐ Retrieved
☐ Source
☐ Banded Retrieval
☐ Topic Space

Sorting Direction:
☒ Ascending
☐ Descending

Restore to Defaults Close Window

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MuseKnowledge™ Application – Search Limits

- **Set General Limits: Language, Material, Date, Full Text, Peer Review**
- **Or**
- **Source Specific Limits.**

Search Limits

These settings are used when you start a search. Search results will be returned based on these settings.

Language:

Material:

Date: yyyy / mm / dd

Full Text: ☐

Peer Review: ☐

Source Specific Limits

Scirus

Date: yyyy / mm / dd

LoC: Library of Congress Catalog (Z)

Language:

Google

Language:

Date: yyyy / mm / dd

PubMed (MEDLINE)

Language:

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MuseKnowledge™ Application – Post Search

Manage your Results

- Display Level
- Deduplication
- Sort
- Filter
- Handle the Records: Keep, Delete, Save to WorkRoom, Email, Distill, Enrich, Place Holds
- Save Records to Disk as: HTML, Text, RAW, XML, Atom, RIS, EndNote, PDF
- Place Orders
- Export to RefWorks, delicious, QuickBib, Dropbox, Mendeley, EndNote

Search Details

- See extraction status for all searched sources
- Stop All searches or individual searches

Search Details				
Sources	Hits Retrieved			Status
7 Started	109,057,623	51	Stop All	Completed
Astrophysics Data System	52,694	10	Stop	Done
Artcyclopedia	1	1	Stop	Done
AIP Journals Online	68	10	Stop	Done
PubMed (MEDLINE)	376	10	Stop	Done
Google	109,000,000	10	Stop	Done
Distiller Module	51	51	Stop	Done
LoC: Library of Congress Catalog (Z)	4,484	10	Stop	Done
Close Window				



MuseKnowledge™ Application – My Account

- **Store your Personal Search Options**
- **Set your individual access details for Sources**
- **Overwrite the default selected, hidden sources with your individual ones**
- **Set own search limits**
- **Administer the Saved Searches and saved WorkRoom**
- **Administer the Alerts**
- **Store Patron Information details to display the personal Patron Information**
- **Store External Accounts details: ILL, ShoppingCarts, Writers, Enrich**

The screenshot displays the 'My Account' application interface. The top navigation bar includes links for Search Options, Search Sources, Search Limits, Saved Searches, WorkRoom, Alerts, Patron Information, External Accounts, User Properties, and Sign Off. The main content area is divided into two panels. The left panel, titled 'Configure source authentication with personal details', shows a list of sources with checkboxes and 'Access' buttons. The right panel, titled 'Personalize the search experience', shows search options and settings. A red arrow points from the 'Access' button in the left panel to the 'Personalize the search experience' panel. The Muse logo is visible in the bottom right corner.

Configure source authentication with personal details

Sources Selected by Libraries

LoC: Library of Congress

Arts

Artyclopedia

ProQuest: ARTbibliogra

ProQuest: Worldwide Pi

Reference

Personalize the search experience

Search Options

These settings are only used as default start-up values. They are loaded into the current personal session at the time the user logs in. The search settings in use are the ones set by the user during the current session.

Enrich Library Results:

☐ Yes ☒ No

Remove Duplicates By:

☒ None ☐ Title ☐ Title3111 ☐ URL ☐ Host

Display Duplicates:

☒ Yes ☐ No

Results Per Source:

☒ 10 ☐ 25 ☐ 50 ☐ 100

Results Per Page:

☒ 10 ☐ 25 ☐ 50 ☐ 100

Sorting By:

☒ None

☐ Relevance

☐ Title

☐ Author

☐ Author Title


☐ Date

☐ Retrieval

Save Close Window

MuseKnowledge™ Application – General Settings

Configure every general aspect of the application through the MuseKnowledge™ Administration Consoles

- Application Name and Description;
- Email and contact information for the emailing features;
- Default Navigation Management settings used by the Application;
- Define the settings used for Proxy Configuration;
- Manage the HTTPS certificates used by the application's sources;
- Define the OpenURL resolver settings;
- Configure user interface options such as:
 - Default skins, Languages, Banner, Logo, Search Options, Search Sources, Search Limits, Application Functionality, Logoff Behavior;
- Configure the Application's Login Modules;
- Configure the Application Modules: Search, DeDupe, Jitterbug, Ranking, Circulation, ILL, Shopping Cart, Writer, Content Mining;
- Other Application settings such as: Name, Expiry Date, User Concurrent Sessions,  Maximum User Emails, Default Locale, Properties, Components Paths, etc.

More



MuseKnowledge™ Application – General Settings

Configure application email details

Information

The settings defined in these fields customize your access to the Global Source Factory and enable email responses to Source requests and other reports. These settings will be stored within your Application (except for the Application ID, which is sent to the Global Source Factory to validate access).

To modify the settings, make any necessary edits and click the Update button.

Information

Contact Information

Application ID: MuseSearch
Organization Name:
Contact Person:
Email Address: muse@museglobal.com
Reply To: muse@museglobal.com

Outgoing Email Server (SMTP)

SMTP Host: mail.museglobal.ro
SMTP Port:
SMTP User Name:
SMTP Password:
SMTP Use TLS: ☒
SMTP Use EHLO: ☒
SMTP Use SSL: ☐

Navigation Management

Define or update the default Navigation Management setting Application. More »

Navigation Management

Use Navigation Manager: ☒ Yes ☐ No
Navigation Manager Host: 127.0.0.1
Navigation Manager Port: 9797
Navigation Manager Pac:
Link URLs:

Update **Reset**

Interface options:
Application name,
Skin, Languages, etc.

Interface Options

General **Display Banner** **Search Options** **Search Sources** **Search Limits** **Functionality** **Logoff**

All the information will be stored within your Application. To modify this information return to this page at any time, edit it, click Update.

Application Name: MuseSearch™

☒ English MGB ☒ Español MGB
☒ Latin American Spanish MGB ☒ Français MGB
☒ العربية MGB ☒ Nederlands MGB
☒ Türkçe MGB ☒ 日本語 MGB
☒ 简体中文 MGB ☒ 繁體中文 MGB
☒ Română MGB ☒ Deutsch MGB
☒ Ελληνικά MGB

Default skin per language:
☒ Yes ☐ No

Enable Language Switching: ☒ Yes ☐ No

Default Language: English

Enable Simple Search Page: ☒ Yes ☐ No

Enable Advanced Search Page: ☒ Yes ☐ No

Default Search Page: ☒ Simple ☐ Advanced

Update

- Application Modules**
- Search Module
 - DeDupe Keys
 - Jitterbug Keys
 - Ranking Keys
 - Circulation
 - Hold Modules
 - Patron Modules
 - ILL Modules
 - Shopping Cart Modules
 - Writer Modules
 - Content Mining Keys

More

Edit Configuration

Use this page to change the basic Application configuration including the password and the number of users that can be logged in at one time. More »

Changes to other settings may prevent the Application from functioning and should only be made under instruction from Muse.

Edit Configuration

Authentication and Authorization

ID: MuseSearch
Password: 08+qmb+QLFjWcyIPIS/XptLJKuc=
Encryption: SHA1
New Password:
Confirm Password:
New Encryption: SHA1
Name: MuseSearch
Home Path: \${MUSE_HOME}/home/MuseSearch
Group: users
Account Expiry Date:

Server Settings

Properties: APPLICATION_HOME=\${MUSE_HOME}/home/MuseSearch
Profiles Path: \${APPLICATION_HOME}/profiles
Conversion Style Sheets Path: \${APPLICATION_HOME}/stylesheets
Scripts Path: \${APPLICATION_HOME}/scripts
WorkRoom Path: \${APPLICATION_HOME}/workroom

Close Window

Application configuration:
password,
expiry date,
etc.

Interface Options

General **Display Banner** **Search Options** **Search Sources** **Search Limits** **Functionality** **Logoff**

All the information will be stored within your Application. To modify this information return to this page at any time, edit it, and click Update.

General **Display Records** **Email Records** **Save Records to Disk**

Enable Search History: ☒ Yes ☐ No
Enable Saved Searches: ☒ Yes ☐ No
Enable WorkRoom: ☒ Yes ☐ No
Enable Alerts: ☒ Yes ☐ No
Enable Account: ☒ Yes ☐ No
Enable Help: ☒ Yes ☐ No
Enable Manage Topics: ☒ Yes ☐ No
Enable Document Scoring: ☒ Yes ☐ No
Enable Filter Records: ☒ Yes ☐ No
Enable Keep Records: ☒ Yes ☐ No
Enable Delete Records: ☒ Yes ☐ No
Enable Record Marc Display: ☒ Yes ☐ No
Enable Export Records to QuikBib: ☒ Yes ☐ No
Enable Export to RefWorksAPI Writer (version 01): ☒ Yes ☐ No

Update **Close Window**

Configure application interface functionality

MuseKnowledge™ Mobile Application

- **Lightweight application in terms of functionality;**
- **Based on jQuery Mobile (using Ajax calls);**
- **Suited for libraries;**

Features

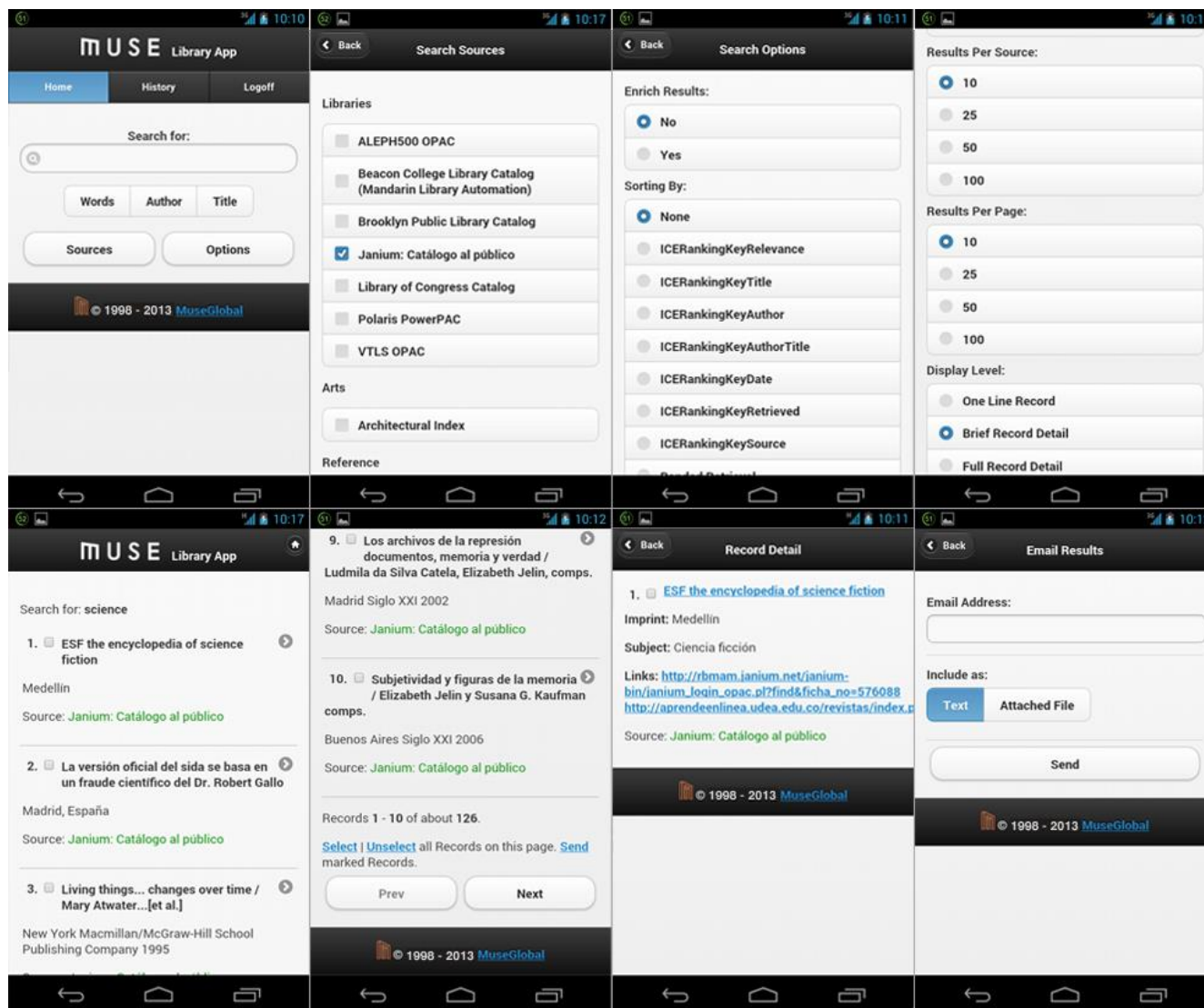
- Authenticate and retrieve patron information;
- "My Account" functionality is supported, including holds, charged fines, overdue, recall items, account messages;
- Display current availability status, placing hold and enrichment on demand;
- Interface Language localization: English, Spanish, Turkish, French, Japanese, Chinese, Arabic, Greek, Romanian, Nederland, Deutsch;
- Search History;
- Sorting, Display Level;
- Email Results;
- Keyword, Author and Title search.

MUSE

More



MuseKnowledge™ Mobile Application



MUSE



MuseKnowledge™ Source Connections

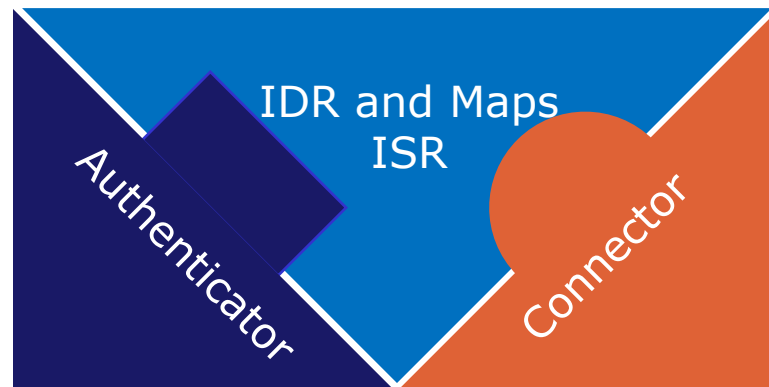
Unparalleled ability to extract value & relevance from disparate content sources

- **Cover full range of content and source types**
 - CMS, search engines, repositories, database systems
 - Magazine, news, journal, library archives, books, articles, images, web formats, videos, blogs, real objects
 - Traditional and online publishers (subscription, premium content)
 - Online content aggregators
 - Standard Web search & deep web information
 - Native database content (numeric and text-based)
- **Support multi-level metadata density and complexity**
 - From popular, consumer through to academic, research
- **Supported by Automated update mechanism**
- **Administered through central Source Factory**
- **Managed via browser based Consoles**
- **Highly Automated change reporting and fixing**
- **Retrieves at any of the three levels (user, application, data)**
- **Access through API or User Interface**
- **Can present metadata, abstracts and “full text”**
 - Link to native sources in real time



What is a Source Package?

- **Something that enables content from external Sources to be used by a technology platform, application as though it were native.**
- **A facility that creates 'clouds' of content to be available to users and systems based on need rather than format.**
- **A means of supporting the integration of information at a business layer instead of a technological layer.**
- **"Plug-and-play" bundles of code that address in a very consistent manner authentication, translation and linking from a Muse system to the target data service that the Source Package was built for.**



Muse Source Package



Source Packages – Building Blocks

- **Authenticator**

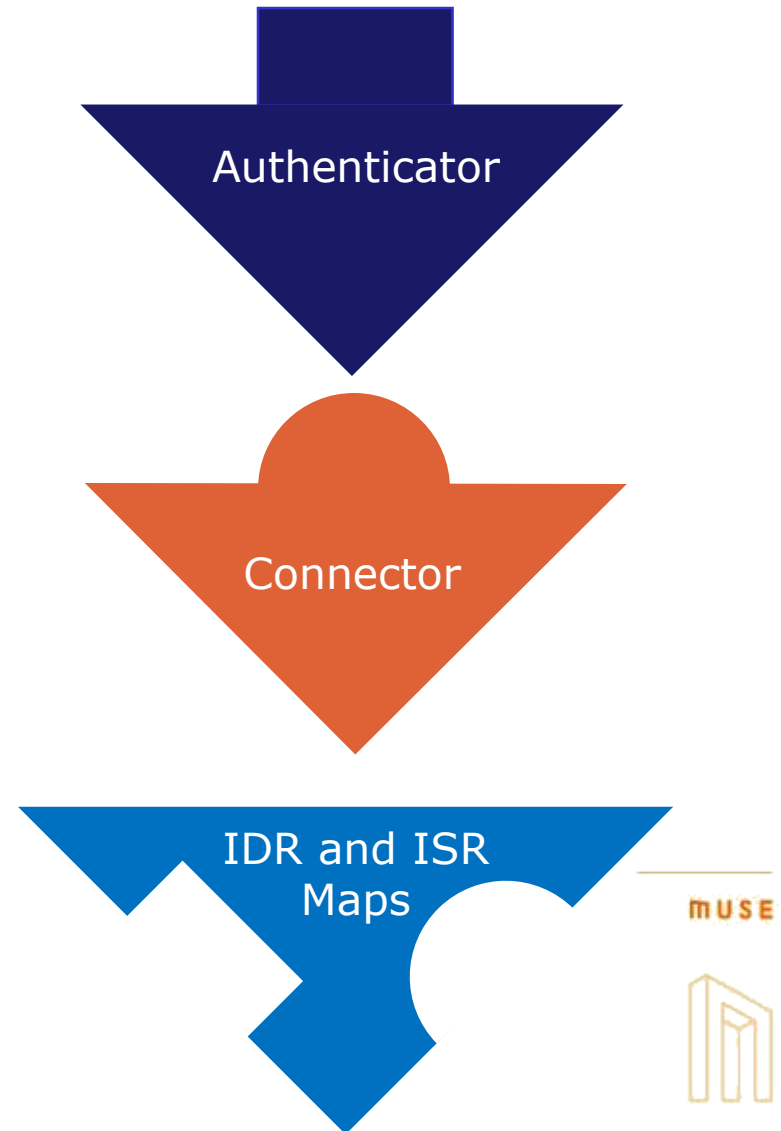
- Allows for different methods of credentialing for users
- Interchangeable between compatible sources
- Uses data in Source Package Profile to make connection

- **Connector**

- Code for communication between Muse and a Source
- Defines protocol for messaging back and forth
- Uses data in ISR and IDR to interpret searches & responses

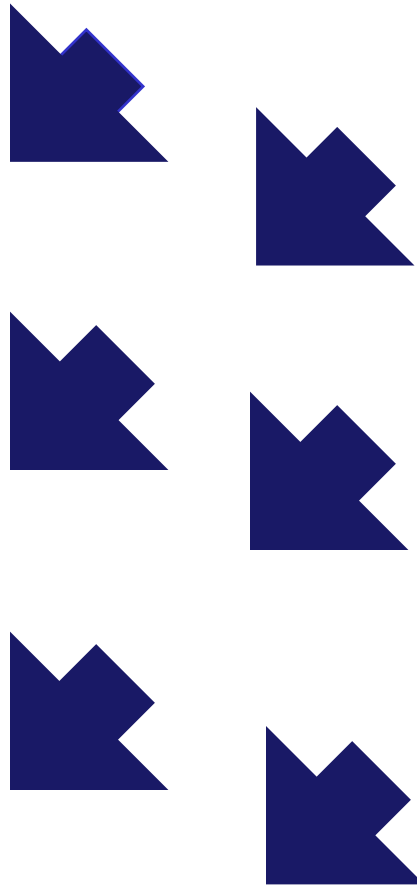
- **ISR & IDR Maps**

- Establishes translation for searches to native language of source
- Defines data-element tagging and normalization for specific data elements



Source Packages – Sum of Parts

Authenticator



IDR and ISR Maps



Connector

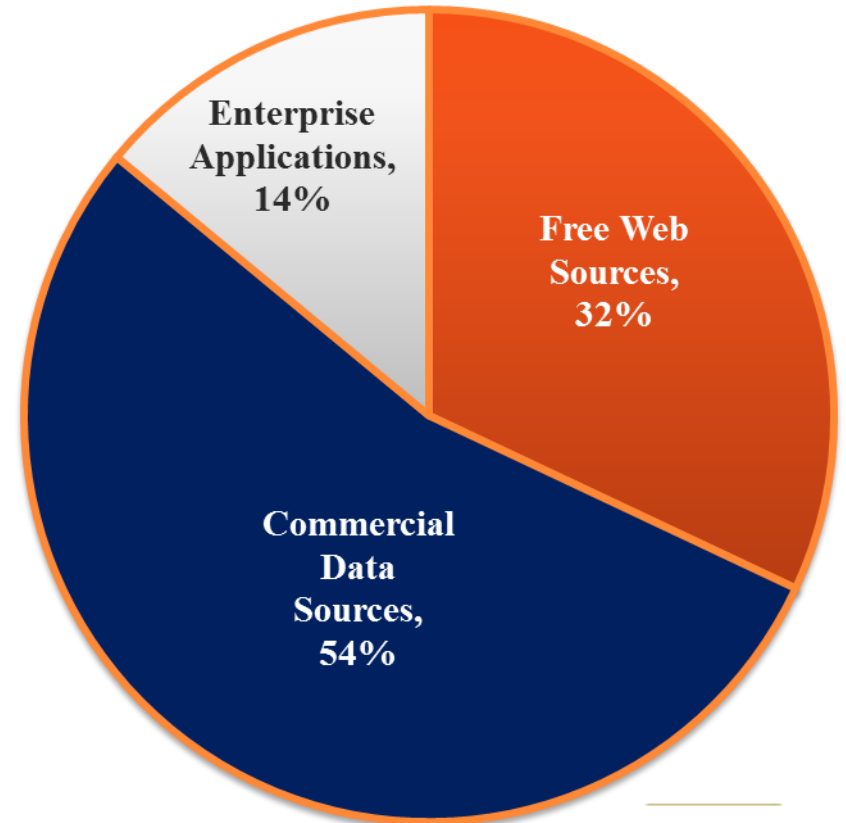


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Source Packages Types

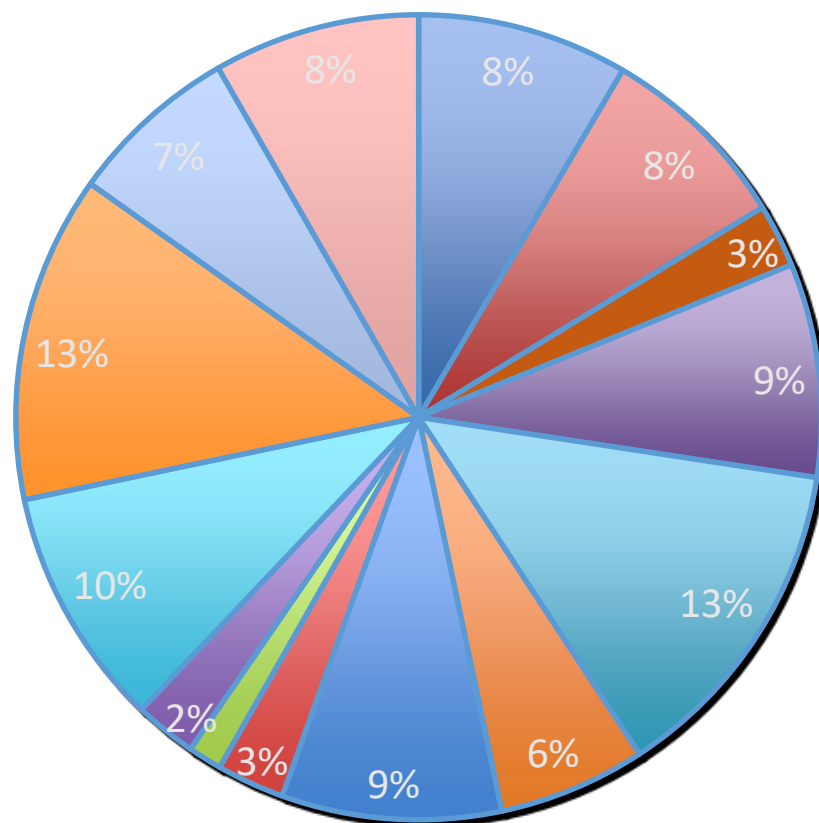
Business News
Health Care Art & Music
Technology & Standards Biomedical
Religion & Philosophy Environment Computing Education
Law Politics & Sociology
Science Humanities



MUSE



Source Packages Subjects (Spectrum)



- Technology & Standards
- Politics & Sociology
- Religion & Philosophy
- News
- Health Care
- Law
- Humanities
- Environment
- Education
- Computing
- Science
- Business
- Biomedical
- Art & Music

MUSE



Source Packages Configuration

Manage the MuseKnowledge™ Source Packages through the MuseKnowledge™ Administration Consoles: MuseKnowledge™ Console for Applications Administration and MuseKnowledge™ Console for Customer Support.

Source Actions

Mark: All | Suspicious | Newer | Not Installed
Sources with Replacement
Clear: All

- Add Source(s)
- Order New Source

Select a Source to:

- Edit Source Configuration
- Edit Source Advanced Configuration
- Restore Source

Select one or more Sources to:

- Update Source(s)
- Add Replacement Source(s)
- Test Source(s)
- Backup Source(s)
- Use Replacement for the Source(s)
- Delete Source(s)
- Delete Profile(s)

Organize Sources

Applications: MuseSearch Sources List

Use the functions in the left panels to set up the Sources searched by this Application. Click the Applications link below to view the list of Applications. More »

Sources List

1 - 12 of 12 Sources Skip to: Go Per Page: All Go

0/12	Name	ID	Installed Date	Status	Build Date	Version
1.	Academic Search Premier	EBSCOASP	2014-04-24	✓	2014-01-11	1.319
2.	AIP Journals Online	AIP	2014-04-24	✓	2014-01-11	1.149
3.	Artcyclopedia	Artcyclopedia	2014-04-24	✓	2014-01-11	1.98
4.	Astrophysics Data System	ADS	2014-04-24	✓	2014-01-11	1.93
5.	Business Source Premier	EBSCOBS	2014-04-24	✓	2014-01-11	1.320
6.	Google	Google	2014-04-24	✓	2014-01-11	1.187
7.	LoC: Library of Congress Catalog (Z)	LoCZ	2014-01-11	✓	2014-01-11	1.136
8.	ProQuest: ARTbibliographies Modern (SRU)	ProQuestARTBMSRU	2014-04-24	✓	2014-01-11	1.23

Filters:

Show only the source names beginning with:

Show only the source names containing:

Show only the sources with the following install status: All Values

Show only the sources with the following test status: All Values

Space separated list of case insensitive source IDs:

Place an ID in quotes to filter by the specific characters entered.

Callouts:

- Available Source Package Actions:** Points to the Source Actions panel on the left.
- Installed Source Packages:** Points to the Sources List table.
- The build date of the Source Package:** Points to the Build Date column in the table.
- The test status of the Source Package: Working, Not Working, Unknown, etc.:** Points to the Status column in the table.
- The version of the installed Source Package:** Points to the Version column in the table.
- The date when the Source Package was installed:** Points to the Installed Date column in the table.
- Filters for quickly identifying the desired Source Package(s):** Points to the filter section at the bottom.

More

Source Packages Configuration

- **Configure every aspect of a MuseKnowledge™ Source Package:**
 - Identification and Description;
 - Search and Home URLs;
 - Connection Parameters: User Agent, Time Slice, Connect Time Out, Read Time Out, Time to run, Encoding, Database Name;
 - Mapping Files: ISR, IDR;
 - Authentication Settings: Authenticator, User Name, User Password, User Pin;
 - Extended Parser Settings: Use Extended Parser, Extended Parser Class, Extended Parser Encoding, Extended Parser Configuration File;
 - Proxy Settings: Use Proxy, Proxy Host, Proxy Port, Proxy PAC, Proxy Authorization Scheme, Proxy User Name, Proxy User Password;
 - Server Settings: HTTP User Name, HTTP User Password, HTTP Authorization Scheme, SSL Certificates;
 - Navigation Manager Settings: Link URLs;
- **Import configuration values from Profile**
- **“Configure more Sources like this” feature**
- **Backup, Restore a Muse Source Package**

More

MUSE



Source Packages Configuration

Source Advanced Configuration

🔗 Edit the text on the page and click "Update" to modify details of this Source. Click "Reset" to remove your edits and restore the previous text. [More >](#)

Import Values from Profile

Profile:

☒ Backup Source before importing Profile

[Backup Source](#) | [Configure more Sources like this](#)

Source Advanced Configuration

[Raw View](#)

Identification and Description

Source ID: EBSCOASP The ID of the Source as it appears in the Application interface.
Name: Academic Search Premier The name of the Source as it appears in the Application interface.

Description: Provides full text for r publications covering including social scienc education, computer s language and linguisti

Search and Home Addresses

Home URL:
Search URL:

Connection Parameters

User Agent:
Time Slice:
Connect Time Out:
Read Time Out:
Time to run:
Encoding:
Database Name:

Mapping Files

Mapping Files

ISR:
IDR:

Authentication Settings

Authenticator: [Get Possible Authenticators](#)
User Name:
User Password: ☒ Use setting from Personal Profile
User Pin: ☒ Use setting from Personal Profile

Extended Parser Settings

Use Extended Parser: ☐ Yes ☒ No
Extended Parser Class: [Get Possible Extended Parsers](#)
Extended Parser Encoding:
Extended Parser Configuration File:

Proxy Settings

Use Proxy: ☒ Yes ☐ No Proxy Details will be used from General Settings but no settings have been entered.
Proxy Host:
Proxy Port:
Proxy PAC:
Proxy Authorization Scheme:
Proxy User Name: ☒ Use setting from Personal Profile
Proxy User Password: ☒ Use setting from Personal Profile

Server Settings

HTTP User Name: ☒ Use setting from Personal Profile
HTTP User Password: ☒ Use setting from Personal Profile

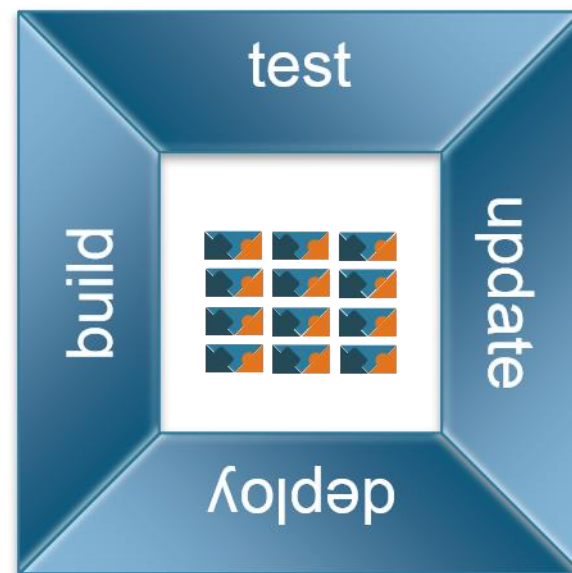
Control entirely the behavior of a Source Package through configurations

[General Settings - Proxy](#)

MuseKnowledge™ Source Factory

- Over the last decade, Muse has amassed a library of more than 6,000 Source Packages. This global library, called the Muse Source Factory, serves as a central repository of Source Packages that are licensed to Muse implementations.
- Built-in consoles in Muse let system managers choose from the vast array of sources in the Source Factory, and they can be downloaded seamlessly into local Muse installations.
- The seamless, bidirectional integration of the Source Factory into the administrative consoles of Muse mean that whenever a Source Package is corrected and published, the implementations of Muse out in the world get notification of the available update.
- Because Sources can change as their providers enhance them, Source Checking can identify those that need attention from the Muse development team, and they are flagged for testing and update.

Muse Source Factory



MUSE

More



MuseKnowledge™ Source Factory

Muse Sources

[Insert](#)
[Export to CSV](#)
[Export to Excel-XML](#)

1 - 20 of 7776 Records

Skip to:

 Go


Per Page: 20 Go

	Source Name	Source ID	Status		Date Created (UTC)	Build Date (UTC)	Data Service	Type	Host	Protocol	Access	Package Version
			Prod	Test								
1	21 Media: Shushengzhijia	TwentyOneMediaShushengzhijia_cn	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2006-04-25 18:23:28	2014-01-11 08:26:32	Shushengzhijia	Database	21 Media	HTTP/HTML	Subscription	1.73
2	4to40	FourTo40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2005-11-15 06:59:26	2014-01-11 05:31:49	4to40	Web Portal	Four to 40	HTTP/HTML	Free	1.94
3	A C Bilbrew Library (Z)	ACBLZ	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2005-06-14 02:03:30	2014-01-11 03:12:17	A C Bilbrew Library	Catalog	A. C. Bilbrew Library	Z39.50	Free	1.123
4	AAA: AnthroSource	AAAAS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2005-11-30 03:26:16	2014-01-11 03:09:17	AnthroSource		American Anthropological Association (AAA)	HTTP/HTML	Free	1.96
5	AAAS: Science Online	AAASSO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Science Online	Database	American Association for the Advancement of Science (AAAS)	HTTP/HTML		
6	AAPG: Datapages-- Petroleum Abstracts	AAPGDPetAbs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2010-12-28 03:18:05	2014-01-11 03:09:33	AAPG Datapages-- Petroleum Abstracts	Database	American Association of Petroleum Geologists (AAPG)	HTTP/HTML	Subscription	1.66



Smart Connector Ecosystem

... Connectors need a world to live and work in.

- **Deployment**

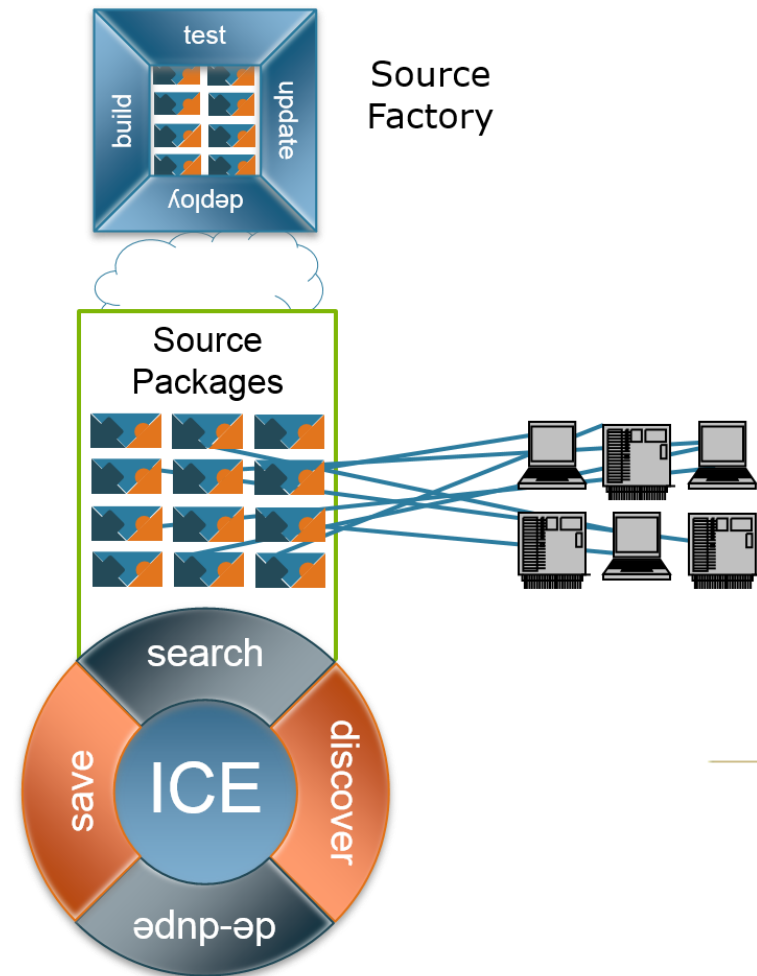
- The Muse Source Factory contains details of all Connectors
- Automated Source Update handles endpoint deployment

- **Monitoring**

- The Source Checker operates constantly
- Results of user operations are used for early warning

- **Repair**

- Automatic and user notification
- Tracking, testing and building system



MUSE



Tools for Source Package Maintenance

Source Packages Upgrade MuseKnowledge™ Control Center Task File

- No need to manually update the MuseKnowledge™ Source Packages, now it can be handled automatically;
- Very useful when administering a big number of applications;
- Complex algorithm for upgrading the Source Packages;
- Email notifications for task completion/error/failure with logs attached.

Tasks List » Task Report » Edit SourcePackagesUpgrade Task

The Source Packages Upgrade task performs a regular upgrade of Source Packages. [More Information ...]

Description Schedule Muse Admin Server Upgrade Parameters Algorithm Task Parameters

Algorithm Properties

The task will upgrade only those sources that have been selected and are out of date.

The list of upgradable sources can also be filtered by source status:

☒ Upgrade both working and non-working sources

☐ Restore sources if they aren't working anymore after the upgrade

The task needs to have a backup copy and to know the status of a source before and after the upgrade to restore it.

☐ Upgrade only non-working sources

Download all sources from all applications

Foreach Application in Applications **do**

☐ Update status of sources before upgrade

☒ Force upgrade modulesutil.jar

Foreach upgradable source **do**

☐ Backup source

Upgrade source

☒ Clean-up source related files

☒ Merge profile

☒ Update status for source after upgrade

☐ Restore source

endfor

endfor

Warning: Updating the Source's status by testing the Source implies bandwidth usage (depending on the Source the amount may vary) and also may be prohibited by the content vendor. Testing a vast amount of sources each time (possibly a certain number of sources going to the same content vendor) may put a high load on the vendor's servers which serve the content.

Update Clear

Upgrade Algorithm
for Source Packages

MUSE



More

Report Broken Source Packages for Fixes, Updates

-
- The screenshot displays the MuseGlobal application interface. At the top, there's a navigation bar with 'Find', 'Previous', 'Next', and 'Options' buttons. Below this, a 'Test Source(s)' section shows a search for 'Scirus' with a 'Test' button. A message indicates that Scirus cannot be read from the target. A 'Problem Report' button is visible. Below this, a 'Source Report' form is shown, which includes fields for 'Email To:', 'Contact Information', 'Organization Name:', 'Contact Person:', 'Email Address:', and 'Request Type'. The 'Request Type' section has two radio buttons: 'Report a problem with a source that was working previously.' and 'Request help with the configuration for a new source.' Below the form, there's a 'Source Details' section with fields for 'Source ID:', 'Name:', 'Description:', 'Home URL:', 'Search URL:', 'User Agent:', 'Time Slice:', 'Connect Time Out:', and 'Read Time Out:'. A table of application data is also visible, showing columns for 'ID', 'Installed Date', 'Status', 'Build Date', and 'Version'. The table lists several applications, including 'BSCOASP', 'UP', 'Krtyclopedia', and 'Scirus'.
- If the Source Package fails in retrieving results or if the parsed information is not correct simply click on the "Problem Report" button.
- Just fill in the requested information and submit the problem report.

Tools for MuseKnowledge™ Maintenance

Report a MuseKnowledge™ System Problem

- Easily done through the Muse Administrator Consoles;
- The Problem Report is sent upon submission to Muse Technical Support department;

Click on the "Problem Report" item to send a Muse

Just fill in the report to collect information

within quotes to limit the retrieval to the specific characters entered.

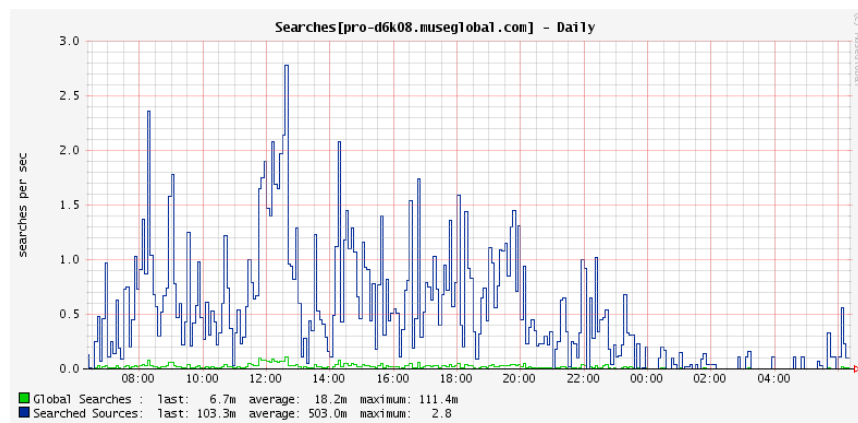
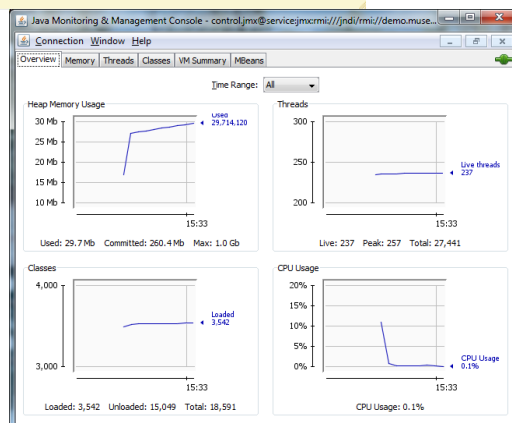
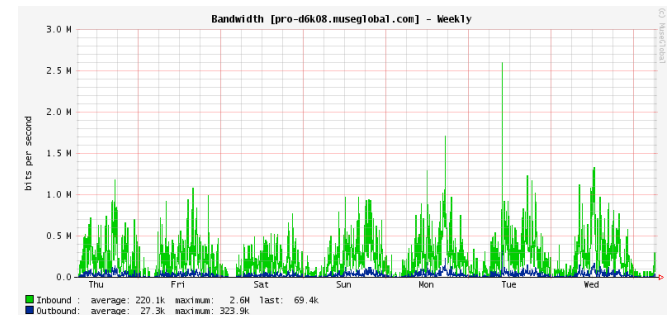
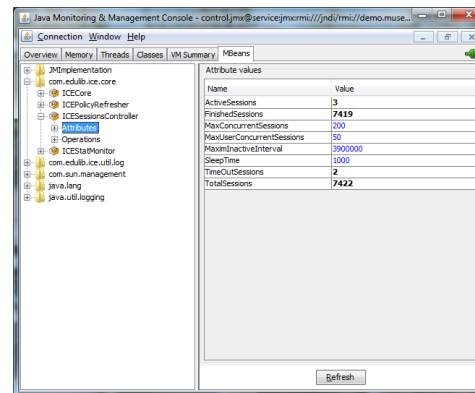
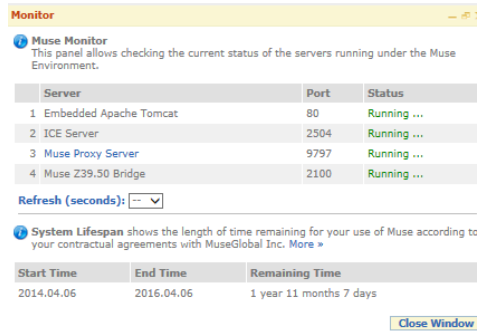
Click on the "Problem Report" menu item to send a Muse Problem Report.

Just fill in the requested information, allow the report to collect log files, attach any relevant information and submit the problem report.

Monitoring the MuseKnowledge™ System

Real Time Monitoring

- Check servers status and system lifespan through the MuseKnowledge™ Console for Applications Administration;
- Advanced monitoring of Muse servers through JMX;
- Historical JMX graphs with RRD Grapher;



MUSE



Usage Statistics

MuseKnowledge™ Statistics Monitor

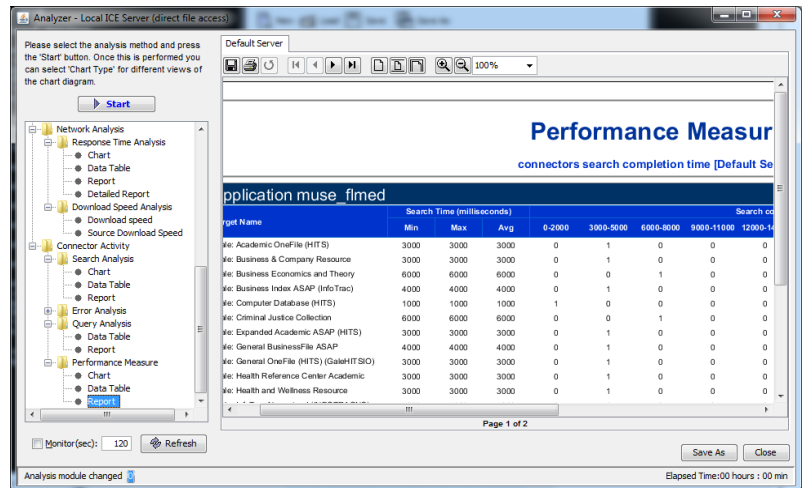
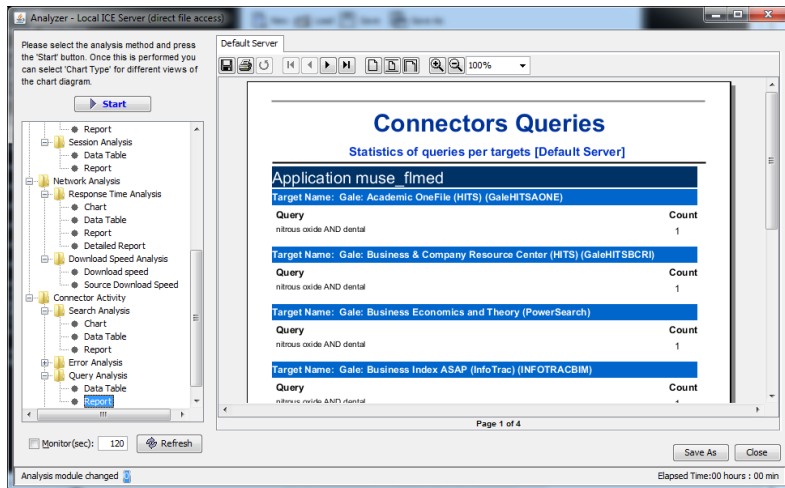
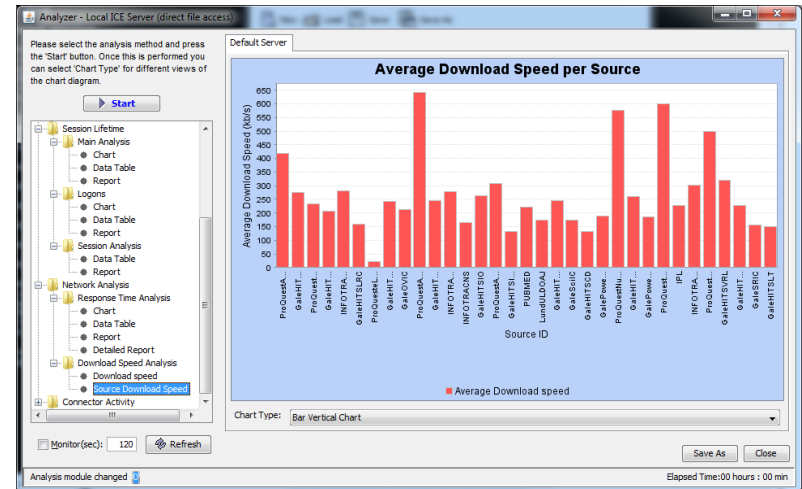
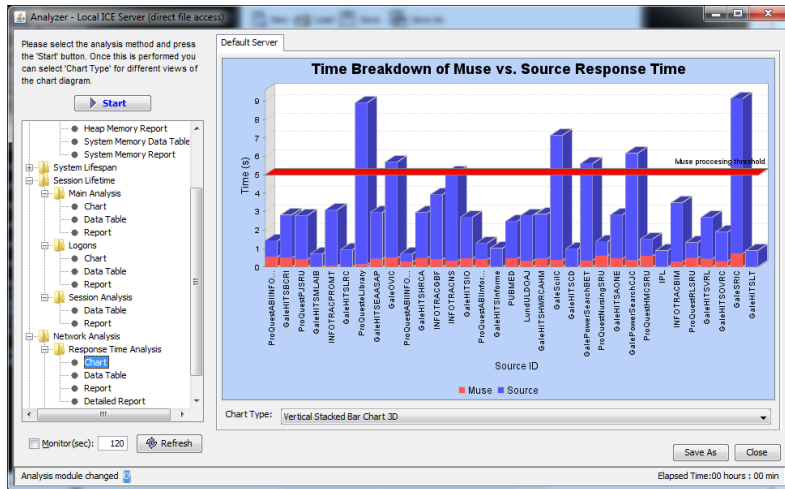
- Desktop tool for manually generating statistical information from dedicated log files;
- Can be connected with the MuseKnowledge™ Control Center for generating regular automated usage statistics;
- Allows filters to be specified: date filters, regular expression filters, etc.;
- Statistics are generated for 4 main areas of Muse activity:
 - User sessions - for gathering overall usage statistics such as number of sessions logged on, length of sessions, IP addresses of sessions, failed login attempts, etc.;
 - Muse Instructions - for gathering information about the activities within Muse - searches - including queries, databases searched, parameters used;
 - Muse Modules - more detailed statistics from individual search source or transaction modules including numbers of hits, time taken for query, download and processing time, etc.;
 - System information - available and used memory.
- Multiple analysis modules are available, depending on the requested statistics: Memory Usage, System Lifespan, Session Lifetime, Connector Activity, Network Analysis, etc.;
- Various output formats: CSV, XML, Graphical Tables/Charts/PDF files (only when running with the desktop GUI version).

More



Usage Statistics

MuseKnowledge™ Statistics Monitor





MUSE

**Smart Connector Technology for
Federated Search**