



MUSE

Smart Connector Technology for Harvesting

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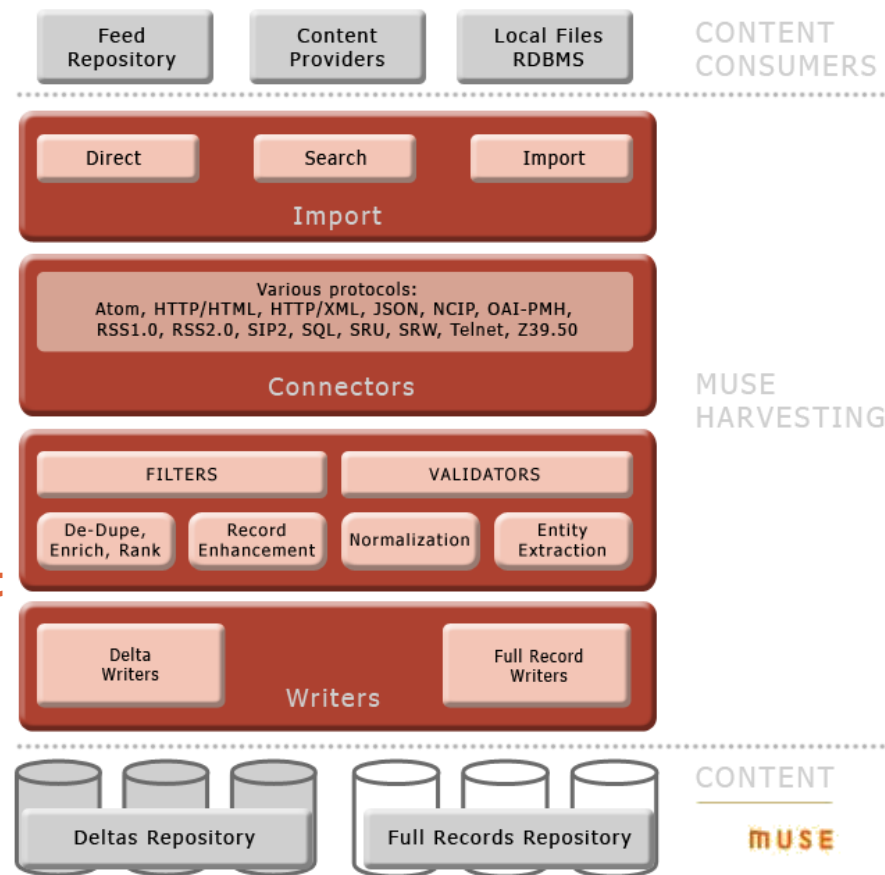
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Harvesting in MuseKnowledge

- **Harvesting in MuseKnowledge is based on different types of controlled extraction:**
 - Search-based
 - Date-based
 - Feed-based
- **Aggregated from any number of sources**
- **Gathered by feed or query**
- **Timed or 'on demand' operation**
- **Consistent delivery record format**
- **Enhanced, 'virtual records'**
- **Delivered by file or feed**
- **Deliver both full results or deltas**



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Features

- **Strong Base, Strong Results.** Running on top of The MuseKnowledge™ Platform, its import capabilities, supported protocols, filters, validators and writers are capable of filling any repository with the right data.
- **Flexible Configuration.** MuseKnowledge™ Administrator Consoles, MuseKnowledge™ Control Center are used to administer MuseKnowledge™ Harvesting Applications which are not much different than a MuseKnowledge™ Federated Search Application.
- **Input and Output.** Up to 10K records per run per input, delivery via files, feeds, deltas or full records repository.
- **Retrieve Records from all Sources by:**
 - Searching the Deep Web, databases and Applications;
 - Polling Feeds (RSS, Atom, etc.);
 - Focused Crawling of web pages.
- **Detailed Extraction of Content:**
 - Page, Record and Source specific data extraction;
 - Multiple records per page or just one, or multiple pages per record;
 - Extract down to finer than field level granularity.
- **Contiguous Extraction.** Based on date interval, number of records, or combined. The extraction order of slices is guaranteed for 2 successive extractions.

More



Features

- **Normalization and Consistency**
 - Consistent field level semantic normalization;
 - Specialized parsers for unstructured elements.
- **Regular Timed Processing**
 - Aligned on minutes granularity;
 - Irregular frequency.
- **Completeness**
 - Comparison of records retrieved and number reported;
 - Immediate (or next run), multiple re-tries (network congestion, etc.);
 - MD5 checksums for transmission.
- **The Right Content.** Use of filters and validators, depending on the semantics of the data extracted. New filters and validators can also be developed and used, depending on semantics of the data extracted as well as other criteria that may apply to a system or another.
- **Media Downloader.** Download all content (documents such as PDF, DOC, XLS, etc., media files such as movies, audio files, images, etc.) that accompanies the records and store it locally and/or upload on FTP.
- **Email Notifications.** Receive email notifications with execution reports in all cases: success/error/failure.

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Harvesting Implementation Phases

- **Planning time and gathering the pre-requisites**
 - Contact vendors for access to APIs;
 - Obtain access details;
- **Implementation time**
 - Create the necessary MuseKnowledge™ Source Packages for the sources to be harvested;
 - Implement the requested business logic e.g. create the necessary ICE Scripts, Ant Scripts, MuseKnowledge™ Control Center tasks, etc.;
- **Tests**
 - Corrections can be made during tests;
- **Acceptance**
 - The customer must accept the harvesting system before going further;
- **Historical phase.** This is the extraction process of data up to the current date.
- **Monitoring.** The extraction process is monitored and necessary corrections are applied.
- **Incremental phase.** This is the regular extraction process which harvests the deltas.
- **Monitoring.** Monitoring procedures are followed to make sure the harvesting process is smooth.



Key Components

- **MuseKnowledge™ Harvesting Application** - MuseKnowledge™ Application specially created and preconfigured for harvesting process; Multiple records display options are available for better management of extracted fields: XML, RAW, Atom.
- **MuseKnowledge™ Record Tracking System** - Track the statuses of the processed records; The MuseKnowledge™ RTS Console connects to the MuseKnowledge™ RTS DB and provides a basic HTML interface for the processed records.
- **MuseKnowledge™ Control Center** - Execute tasks at any given moment; The system functionality is given by a set of dynamically loaded tasks, which are driven by events generated by the core system or by the other tasks running into system; Every task generates its own events to inform about a certain status or exceptions, which can arise during execution.
- **MuseKnowledge™ Console for Application Administration (MCAA)** - Manage the MuseKnowledge™ Source Packages from inside MuseKnowledge™ Harvesting Applications; Configure many areas of the Muse System such as the administration users and their rights; Problem reporting to MuseGlobal Support.
- **MuseKnowledge™ Alerts** - Searches saved that are re-run automatically by Muse (more exactly MuseKnowledge™ Control Center will run the appropriate Alerts script).
- **ICE Scripts** – Scripts that are used to define the business logic of the harvesting process.

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MuseKnowledge™ Harvesting Application

- Individual instance that runs inside MuseKnowledge™ at a customer site or at a group of sites to provide harvesting of resources. As the harvesting process is complex, there are MuseKnowledge™ Application templates specially created and preconfigured for harvesting processes.

The screenshot displays the MuseGlobal Harvesting application interface. The main header includes the 'MUSE GLOBAL' logo and navigation links for 'Simple Search', 'Advanced Search', and 'Search History'. Below the header, there is a search input field labeled 'Type in Search Term(s)' and a 'Keyword' button. A sidebar on the left contains the 'Search Options' panel, which includes settings for 'Remove Duplicates By', 'Display Duplicates', 'Results Per Source', 'Results Per Page', 'Results Display Level', 'Sorting By', 'Limit Results To', and 'Show Search Progress'. The 'My Account' panel on the right shows 'Alert Expiry' settings, 'Entities' (None / Other, Subjects, People, Animals), 'Control Lists' (Entities, People, Subjects, Animals), and 'Custom Parameters' (Parameter Name, Parameter Value, Delete).

MUSE GLOBAL

Simple Search Advanced Search Search History

Type in Search Term(s)

* Keyword

Search Options | Search Sources

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Search Options

Restore to Defaults

Remove Duplicates By:
☒ None
Display Duplicates:
☒ Yes ☐ No
Results Per Source:
☒ 10 ☐ 25 ☐ 50 ☐ 100
Results Per Page:
☒ 10 ☐ 20 ☐ 25 ☐ 50 ☐ 100 ☐ 500 ☐ 1000
Results Display Level:
☐ Raw Data ☒ XML

Sorting By:
☒ None
☐ Retrieved
Order
☐ Source
☐ Banded
☐ Retrieval
Sorting Direction:
☒ Ascending
☐ Descending

Show Search Progress:
☒ Yes ☐ No
Limit Results To:
Any Language
Any Material
Full Text Review
Any Date

Save changes and Close Window Ignore changes and Close Window

My Account

Search Options Search Sources Saved Searches WorkRoom Alerts User Properties Sign In

Alert Expiry: Year Month Day (equivalent milliseconds)
2015 / 2 / 5 1423138181314

Entities:
Distill Keys: None / Other Subjects People Animals

Control Lists: Entities: ☒ People ☐ Subjects ☐ Animals

Add current Terms to Control Lists
Reject List (word never required)
Accept List (terms always wanted)
Advanced

Custom Parameters

Parameter Name	Parameter Value	Delete
dateIncrementStep	4	Delete
agencyID	N95	Delete
partialStart	1	Delete
feedNumber	884	Delete
navigation	date	Delete
dateMargin	4	Delete
repeatSearch	0	Delete

New Parameter Name: New Parameter Value:

MuseKnowledge™ Harvesting Application

- The application comes with an extended Alerts editing interface for configuring each aspect of a MuseKnowledge™ Alert:
 - Basic parameters such as name, query, query type and comments associated with the Alert;
 - Searched Sources;
 - Expression Sources. This is needed for constructing a hierarchy of MuseKnowledge™ Alerts.
 - Search Options such as: Enrich Results By, Remove Duplicates By, Dedupe Mode, Dedupe Mix Mode, Sorting By, Sorting Mode, Sorting Direction, Results Per Source, Results Per Page.
 - Result Set details;
 - Alert Options such as the Alert Interval and Expiry;
 - Entities. Change the Content Mining control lists for various entities such as: People, Subjects and Animals. One can set here both accept and reject control lists for each of these three entities;
 - Custom Parameters. One can define custom parameters needed to run the Alert script through MuseKnowledge™ Control Center;
 - Alerts Parents. This is part of the Alerts inheritance mechanism for defining parents for the current Alert.

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MuseKnowledge™ Record Tracking System

- Track the statuses of the records processed by the system from the moment these records enter the system either through a search connector or imported from 3rd party databases to the moment these records are exported by the system in one of the various outputs and the recipient acknowledges the correct input.

The screenshot displays the 'Muse RTS Console' interface. On the left, there is a sidebar with the 'MUSE CONSOLE' logo and a menu under 'Actions' including 'Display list of:' (Valid records, Invalid records, Dropped records, Orphan records, Messages) and 'Display statistics of:' (Processed records). The main area is titled 'Dropped Records' and shows a table of records that failed validation. The table has columns for Record ID, Source, Message, and Reprocess. Five records are listed, all from the source 'JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo'. The messages indicate validation failures using 'MuseValidatorXSD' and 'MuseValidatorSchematron' classes. A 'Set Reprocess Flag to: Yes' button is visible at the top right of the table area.

Record ID	Source	Message	Reprocess
1. 07TF04853	JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo	1. Validator class: MuseValidatorXSD, validator name/id: muse-xsd, validation required: false, message: VALID more »	No
2. 1024L	JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo	1. Validator class: MuseValidatorSchematron, validator name/id: njdex-no-person, validation required: false, message: <?xml version="1.0" encoding="utf-8"?>1024L: Fatal: No person type element present more »	No
3. 11TF07026	JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo	1. Validator class: MuseValidatorXSD, validator name/id: muse-xsd, validation required: false, message: VALID more »	No
4. 12	JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo	1. Validator class: MuseValidatorXSD, validator name/id: muse-xsd, validation required: false, message: VALID more »	No
5. 12-031647	JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo	1. Validator class: MuseValidatorSchematron, validator name/id: njdex-no-person, validation required: false,	No



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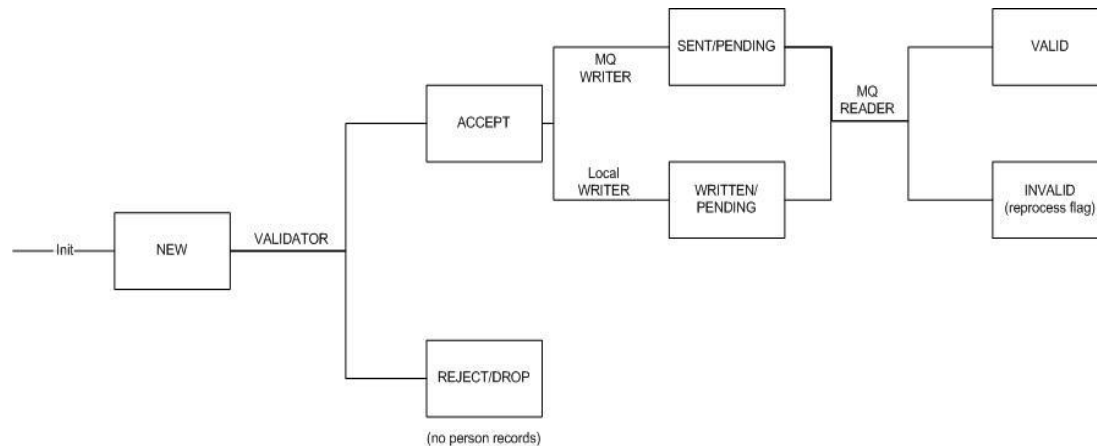
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MuseKnowledge™ Record Tracking System

- Record Tracking System statuses:
 - record has entered the system;
 - record has been validated by the system: valid/invalid;
 - record has been exported by the system;
 - accepted or rejected by target system (ex. via Queue Manager such as WebSphere MQ).



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MuseKnowledge™ Control Center

- Used to execute tasks at any given moment. The tasks lists can be used for various purposes, starting from regularly updating the MuseKnowledge™ Source Packages to sending emails to users or even generate usage statistics of the system they run on.
- Runs saved queries (MuseKnowledge™ Alerts) on various sources at any moment, without any intervention.

Muse Control Center

Logoff »

Tasks List

The system functionality is given by a set of dynamically loaded tasks, which are driven by events generated by the core system or by the other tasks running into system. The core system can be considered a task itself. Every task generates its own events to inform about a certain status or exceptions, which can arise during execution. [\[More Information ...\]](#)

Standard time: Oct 04, 06:13:12 (GMT)

Local time: Oct 04, 02:13:12 (EDT)

/opt/muse/center/tasks/Harvesting/Harvesting Historical - Live.task

Turn On

Add

Load

Unload

New

Save

Save as

Save all

Help

The current set of tasks is turned OFF. Tasks will NOT BE STARTED at scheduled times. To turn ON the set of tasks use the Turn On button.

Maintenance.task▶

Harvesting - Live.task■

Harvesting Historical - Live.task■

RecordReprocessing.task■

ExceptionsRetrieval.task■

		Name	Type	Status	Enable	Description
1	⬇	Muse Control Center Scheduler	Scheduler	Stopped	<input checked="" type="checkbox"/>	This task generates time events for the other tasks to trigger at different moments of time (hourly, daily, weekly or monthly).
2	⬆ ⬇	Alerts	Alerts	Stopped	<input checked="" type="checkbox"/>	Incremental record processing.
3	⬆ ⬇	Upload Results	FTP	Disabled	<input type="checkbox"/>	Uploads Harvesting results on a FTP server.
4	⬆ ⬇	Output Validation	Ant	Disabled	<input type="checkbox"/>	Performs output validation using Muse Validator with all validation rules active.
5	⬆ ⬇	eMail: Output validation	EMail	Disabled	<input type="checkbox"/>	Send email with the Output Validation log.
6	⬆ ⬇	Alerts Logger	Log	Done	<input checked="" type="checkbox"/>	Writes all messages coming from the Alerts task to a log file for future analysis.
7	⬆ ⬇	eMail: Alerts Task Done	EMail	Done	<input checked="" type="checkbox"/>	Send email when Alerts tasks are done.
8	⬆ ⬇	eMail: Task Failed	EMail	Idle	<input checked="" type="checkbox"/>	Send email for any task failure.
9	⬆	eMail: Task Error	EMail	Done	<input checked="" type="checkbox"/>	Send email for any task error (multiple errors, hence emails for the same task can happen).

Users logged on: 1

Refresh :

60

seconds



MuseKnowledge™ Console for Application Administration (MCAA)

- Administration tools used to add, delete and manage access rights to MuseKnowledge™ Applications. By means of administrator consoles there is access to any settings of the system.

MUSE CONSOLE

Muse Console for Applications Administration

Applications Users Monitor Problem Report Logoff

Application Actions

Mark | Clear all Applications.

New Application:

- Create an Application
- Import an Application

Select an Application to:

- Edit Name & Description
- Edit Configuration
- Setup and Organize Sources
- Personal Users
- Copy the Application
- Export the Application
- Check the Application
- Restore the Application

Select one or more Applications to:

- Backup the Application(s)
- Upgrade the Application(s)
- Delete the Application(s)
- Application Source Audit

Application General Settings

Application Modules

The **Muse Console for Applications Administration (MCAA)** is used for managing Muse Applications and Administrative Users. An Application is the search tool used by end users. The settings on the Application page (this page) of the MCAA determine an Application's look and feel, functionality, and the number and selection of searchable Sources (databases and other resources) available. The User page is used to set up Administrative Users with specific Console administration rights.

Applications can be created by copying an existing Application or by importing a previously exported Application. This page also provides functions for backing up and upgrading Applications.

Applications List

96.	<input type="checkbox"/>	FR : demo ovid France ecolteau	rgt199	Copy of ssoleuro
97.	<input type="checkbox"/>	FR : euro template (with no connectors)	rgt999	eurossol template with no connector
98.	<input type="checkbox"/>	FR : INIST Application Test	inistest	Application de tests
99.	<input type="checkbox"/>	FR : INIST n°1 , Bibliovie	inistsdv	Inist Life Sciences Portal
100.	<input type="checkbox"/>	FR : INIST n°2 , BiblioStic	bibliostic	Information Sciences Portal
101.	<input type="checkbox"/>	FR : INIST n°3 , BiblioSHS	biblioshs	Human Sciences Portal
102.	<input type="checkbox"/>	FR : INIST n°4 , TitaneSciences	bibliochimie	Inist Chemistry portal
103.	<input type="checkbox"/>	FR : INIST n°5 , BiblioSciences	inist	Scientific portal inist
104.	<input type="checkbox"/>	FR : Université Lyon I	lyon999	Université Lyon I
105.	<input type="checkbox"/>	George Washington University	wl5199	Group wl5199
106.	<input type="checkbox"/>	George Washington University	wl5899	Group wl5899
107.	<input type="checkbox"/>	George Washington University	wl5999	Group wl5999
108.	<input type="checkbox"/>	George Washington University	wlbao2	Group wlbao2
109.	<input type="checkbox"/>	GlaxoSmithKline Trial	gskoss	GlaxoSmithKline
110.	<input type="checkbox"/>	GR: ATHENS UNIVERSITY OF ECONOMICS AND	atheconbus199	Distributor Contact: Maria T. Paradise - MBA

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Usage Scenarios

Extraction, Transform and Load tools

- **Step 1.** Extract from a variety of distinct protocols, distinct data types, distinct sources, structured or non-structured :
 - CMS, search engines, repositories, database systems;
 - Magazines, news, journal, library archives, books, articles, images, web formats, videos, blogs, real objects;
 - Traditional and online publishers (subscription/premium content);
 - Online content aggregators.
 - Examples of standards: Atom, HTTP/HTML, HTTP/XML, JSON, NCIP, OAI-PMH, RSS 1.0, RSS 2.0, SIP2, SQL, SRU, SRW, Telnet, Z39.50.
- **Step 2.** Transform into a single standard protocol and format: XML, SQL, JSON, etc.
- **Step 3.** Filter, Validate: Syntactic, Semantic.
- **Step 4.** Feed into the target system's bus: queue managers, databases, content repository, etc.
- **Step 5.** Receive transaction feedback, analyze it, store it, etc.

Target: Justice and Law enforcement, Enterprise, Media.

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Usage Scenarios

Muse Meters - Want to know what's hot? And what's not? And what's hotter today than it was yesterday?

- **Step 1.** Extract from a variety of sources, structured or non-structured: RSS feeds, blogs, newsletters, newspapers.
- **Step 2.** Transform into a single standard protocol and format: XML, JSON, etc.
- **Step 3.** Perform content mining to identify relevant terms for the day/hour and present the evolution.
- **Step 4.** Construct the lists of people, teams, products, topics, etc. and feed into the Meter.

Muse Multi-Meters – A variation of Muse Meters.

- **Step 1.** One or more 'Multi-Meter Alerts' are used to download the available records from a set of sources.
- **Step 2.** A second, user-set alert will inherit the properties from one or more 'multi-meter alerts' which will be calling parent alerts from now on. The only difference between this user alert and a normal one is that the user alert will run the search - with the user set query - over the result set created by the 'multi-meter alert'.
- **Step 3.** Perform content mining and construct the list of items to feed into the Multi-Meter.

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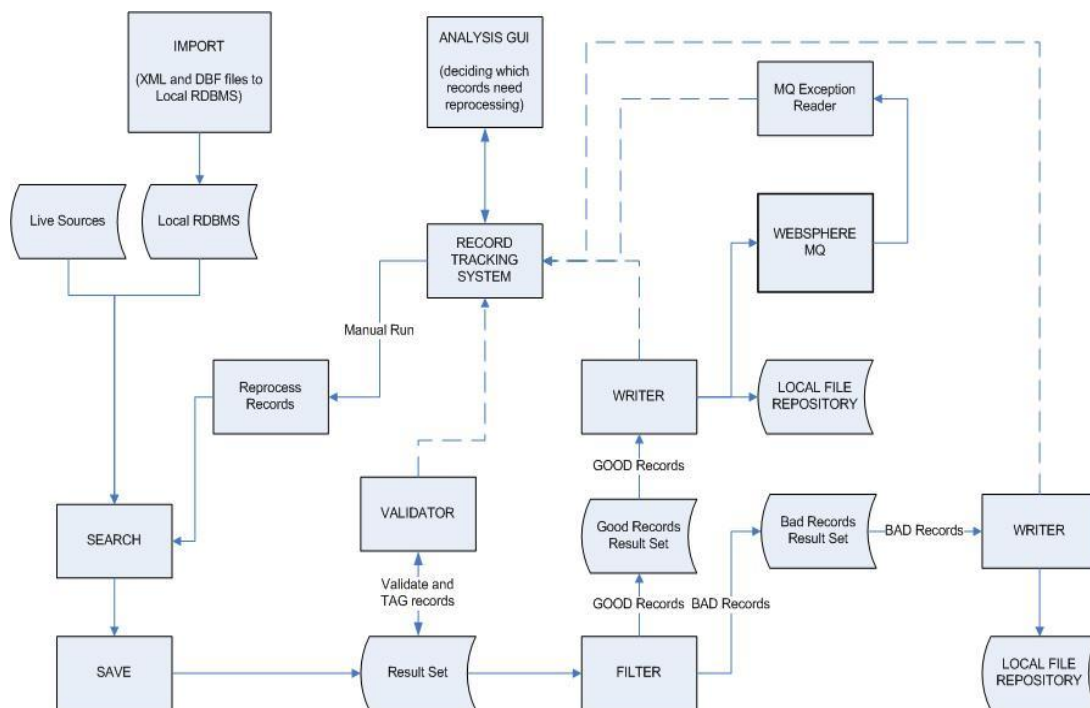
Target: Media, Marketing, News, Sports, Politics.

Usage Scenarios - Harvesting Police Data

Harvesting Police Data

Automatically harvest name and incident information from the police departments' Records Management Systems (RMSs) and uploads the information to a target union database (state, national, etc.) - IBM WebSphere MQ (WMQ) system.

Workflow



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Usage Scenarios - Harvesting Police Data

Incremental and Historical Import

Incremental import workflow: extraction, validation, local storing, RTS storing, WMQ exporting, exceptions retrieval, record reprocessing for WMQ invalid records.

Historical import - particular case of the incremental with a few exceptions:

- It runs at a higher frequency to import all the records until the current day;
- Records extracted using a historical task are not sent to WMQ, but sent rather using other methods: disk, tape, FTP;
- Store in RTS for tracking purposes.

Validating the Result Set

- The validation is handled by the Muse Validator module;
- The validation can be done with multiple validation schemas;
- Each record from the Result Set is appended the result of the validation;
- Currently there are only 2 implementations: XSD and Schematron validation;

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Usage Scenarios - Harvesting Police Data

Splitting and Writing the Result Set

- **Split module:**
 - filters the records received from the records stream and pass them to different modules;
 - adds in the RTS entries corresponding to the validation results;
 - splits the Result Set into 4 result sets:
 - a Result Set which contains all the VALID records;
 - a Result Set containing all the DROPPED records (records for which the validation output was ERRORS for Schematron validation);
 - a Result Set containing all the M_INVALID records (records for which the validation output was ERRORS for XSD validation);
 - a Result Set containing all other records. Normally this is empty.
- **Writer module:**
 - writes the records after split into Result Sets;
 - has several implementations:
 - for the valid records uses the local writer implementation and the WMQ writer implementation, with RTS;
 - for the dropped records uses only the local writer, no RTS;
 - for the XSD invalid records uses only the local writer, with RTS;



Usage Scenarios - Harvesting Stories

Harvests stories from 275 college newspapers every hour. Removes duplicates, normalizes the records, and delivers the new (deltas) and updated stories via an FTP feed.

The screenshot shows the Dartmouth College website with the headline "Beta alumni reject common student perception of frat". The article text discusses the Beta Theta Pi fraternity's history and its current status at Dartmouth. A yellow callout box highlights the RSS feed link: "This is where we start. The original RSS feed and full story from the Dartmouth College newspaper website...".

URL: <http://thedartmouth.com/2008/05/28/news/beta/>
IDENTIFIER: <http://thedartmouth.com/2008/05/28/news/beta/>
ABSTRACT: Dartmouth alumni of Beta Theta Pi fraternity contend that current students hold misconceptions about the fraternity's history at the College, regarding the fraternity as a group of football-playing troublemakers and not the brotherhood committed to charity work and diversity that alumni maintain it once was. Beta, which was permanently derecognized by the College in 1996, will regain possession of its house on 6 Webster Avenue, currently occupied by Alpha Xi Delta sorority, this summer. Beta alumni will be allowed to host recruitment events this Fall term but neither the College nor the Beta national organization have officially agreed to re-recognize the chapter at Dartmouth.
DATE: Wednesday, May 28, 2008
BODY: Dartmouth alumni of Beta Theta Pi fraternity contend that current students hold misconceptions about the fraternity's history at the College, regarding the fraternity as a group of football-playing troublemakers and not the brotherhood committed to charity work and diversity that alumni maintain it once was. Beta, which was permanently derecognized by the College in 1996, will regain possession of its house on 6 Webster Avenue, currently occupied by Alpha Xi Delta sorority, this summer. Beta alumni will be allowed to host recruitment events this Fall term but neither the College nor the Beta national organization have officially agreed to re-recognize the chapter at Dartmouth. The Beginning: Beta comes to Dartmouth Dartmouth's chapter of Beta began as Sigma Delta Pi fraternity, which established a chapter at Dartmouth in 1858. The organization was renamed the Vitruvian Society in 1871 and eventually became the Alpha Omega Chapter of Beta Theta Pi in 1889. From its inception, Beta maintained its affiliation with the national organization, except for a brief period from 1961 to 1962. Throughout the 1930s and 1940s, Beta's membership included athletes, members of The Dartmouth and the Jack-O-Lantern, performers in the marching band and members of the College's glee club, according to Beta's chapter book from 1941. The Glory Days: Beta turns 100 During the winter of 1953, Dartmouth's chapter of Beta and eight other Beta chapters in New England passed a resolution that condemned racial discrimination within the national fraternity and demanded that each chapter lift its membership restraints, according to the Manchester Union Leader from December of that year. Further disagreement over racial discrimination in 1951 led Dartmouth's Beta chapter to disassociate from the national organization for two years. Dmitri Gerakaris '69, a member of Dartmouth Beta Board of Trustees, said in an interview. Several other national fraternities at the College went local at this time for similar reasons, according to Deb Carney, director of coed, fraternity and sorority administration. "During the late '50s and early '60s, trustees made a statement that all of our fraternities must be open and inclusive to all," Carney said. "And some of our national frats had discrimination clauses — those fraternities either changed or went local." Dartmouth's Beta chapter, geographically isolated from the fraternity's national headquarters, had minimal ties to the national organization after reaffiliating in 1962, according to Gerakaris, who was president of both Beta and the InterFraternity Council during his senior year at the College. The End is Near: Beta in the 1980s and 1990s Following coeducation in 1972, women would often frequent Beta for its parties and comfortable atmosphere. Beta alumni and board members grew, women felt welcome at Beta parties, and Beta's reputation as a place where women could relax and enjoy themselves grew.

... and this is where we end up. A normalized, structured record, ready for export.

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Usage Scenarios - BuzzGauge

Buzz-meter: A set of Muse functions which gather content from a wide range of Sources, analyze it for Entities, generate secondary content about it, and distribute that “buzz” for widgets, newsletters, mashups, dashboards, etc.

- Display lists of people, teams, products, topics
- Show movement, rank, importance, Stories, etc.
- Skin the widget to you look & feel
- Flash® and JavaScript widgets supported
- Direct secure connection to Muse server
- Various lists and data elements
- Live links from list items to results list and original records

People Buzz-meter

Sort By: Hot | Rising | Falling | New

Rank	Change	Subject	Stories	Weight	Rel. Abs.
1	1	Big Ten	16	100	22
2	2	Virginia Tech	5	59	13
3	6	3 Notre Dame	7	55	12
4	4	Alan Greenspan	2	45	10
5	4	1 Seann William	2	36	8
= 4	▼	1 Liz Cox	3	36	8
= 4	▼	1 Seann William Scott	2	36	8
=		Tar Heel	7	36	8
9	5	4 Wake Forest	7	32	7
10	5	5 Blue Devil	5	27	6
= 6	▼	4 Jena Six	3	27	6
12		Mike Hart	2	23	5
=		Scott Bell	2	23	5
=		Joanna Arnold	2	23	5
=		Robert Soave	1	23	5
=		Sen. John Kerry	2	23	5
=		John Kerry	2	23	5
=		Division I	2	23	5
= 6	▼	6 Billy Bob	1	23	5
= 6	▼	6 David Gilmour	1	23	5
= 6	▼	6 Billy Bob Thornton	1	23	5
= 6	▼	6 David Graham	2	23	5
= 6	▼	6 Peter Vaa	2	23	5
=		Sen. John	2	23	5
=		Public Health	1	23	5
= 7	▼	5 Duke University	5	23	5
=		Ann Arbor.	2	23	5
=		Andrew Meyer	2	23	5

300 x 600

The Buzzer
the hottest names in college hoops

TOP 100 RISING FALLING NEW

Change	Rank	Subject
▲	1	St. Joe
▲	2	Travis Ford
▼	3	Eric Gordon
▼	4	Golden Eagles
=	5	Kevin O
=	6	Kevin Thomas
▲	7	St. Joseph
▲	8	St. Mary
▼	9	St. John
=	10	Chris Lowery

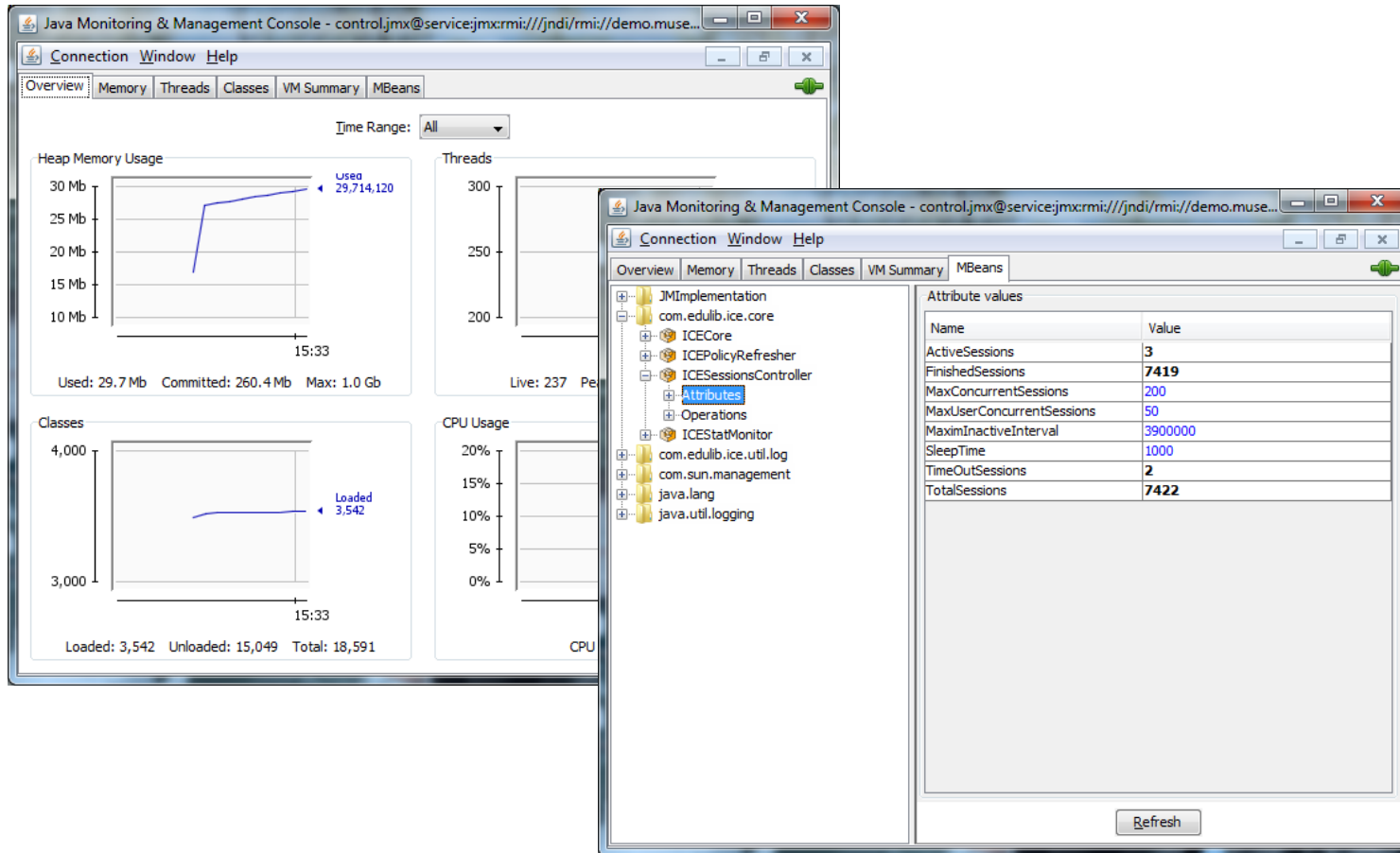
Share this Grab it ✖

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Monitoring the Harvesting

Advanced real time monitoring of Muse servers through JMX



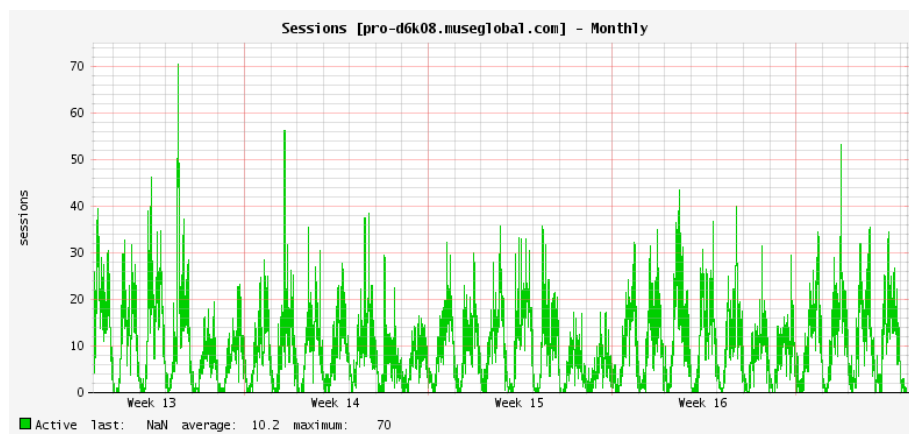
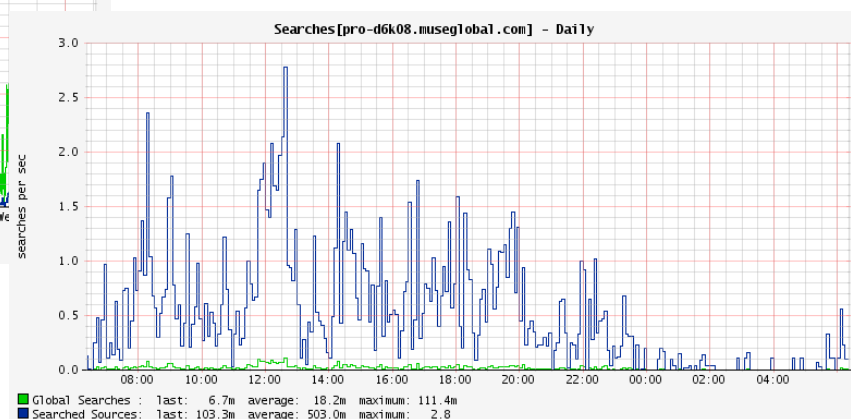
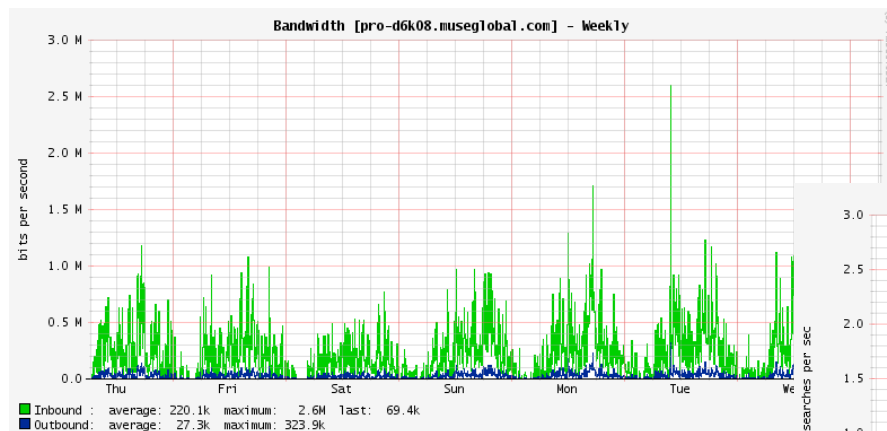
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Monitoring the Harvesting

Historical JMX graphs with RRD Grapher



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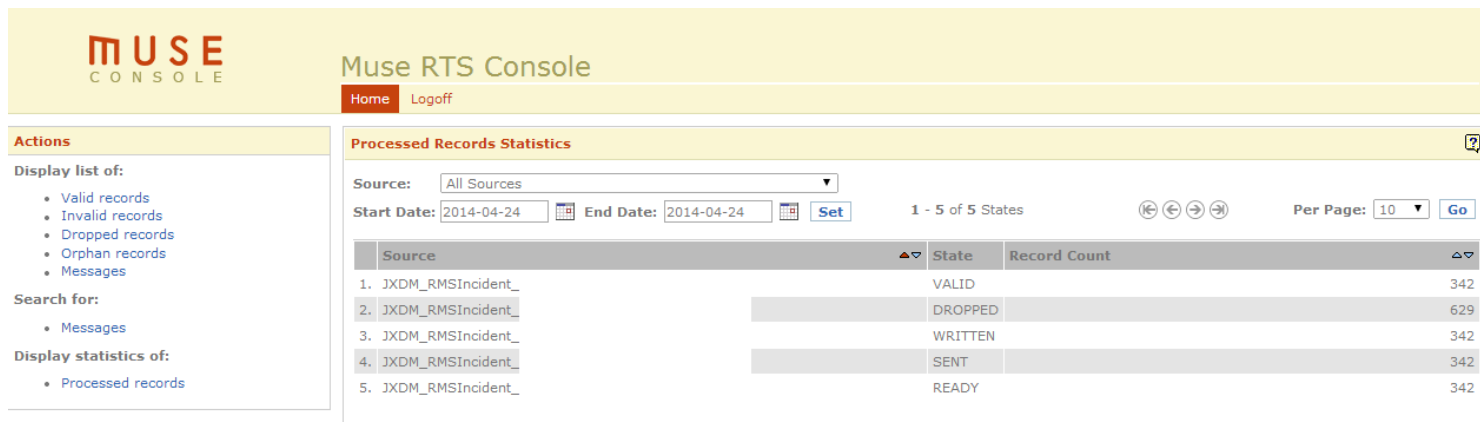
Monitoring the Harvesting

Get email notifications for success/error/failure executions

- MuseKnowledge™ Control Center email tasks are used for this purpose;
- Email tasks can be configured to be sent on completion, error or failure events;
- Log file(s) with execution reports can be attached to the emails as they are or archived;

Log files - Muse reports various types of statistical and debugging information in log files.

MuseKnowledge™ Record Tracking System statistics



The screenshot displays the Muse RTS Console interface. The top header features the 'MUSE CONSOLE' logo and the title 'Muse RTS Console' with 'Home' and 'Logoff' links. The left sidebar contains navigation options: 'Actions' (Display list of: Valid records, Invalid records, Dropped records, Orphan records, Messages) and 'Display statistics of: Processed records'. The main content area is titled 'Processed Records Statistics' and includes filters for 'Source' (All Sources), 'Start Date' (2014-04-24), and 'End Date' (2014-04-24). It shows '1 - 5 of 5 States' and 'Per Page: 10'. A table lists the record counts for each state:

Source	State	Record Count
1. JXDM_RMSIncident_	VALID	342
2. JXDM_RMSIncident_	DROPPED	629
3. JXDM_RMSIncident_	WRITTEN	342
4. JXDM_RMSIncident_	SENT	342
5. JXDM_RMSIncident_	READY	342

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Muse Documentation

- Muse Console for Application Administration.pdf
- Muse Control Center.pdf
- Muse Alerts.pdf
- Record Tracking System.pdf

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**Smart Connector Technology for
Harvesting**