

MUSE
KNOWLEDGE

HARVEST

SMART CONNECTOR TECHNOLOGY FOR HARVESTING

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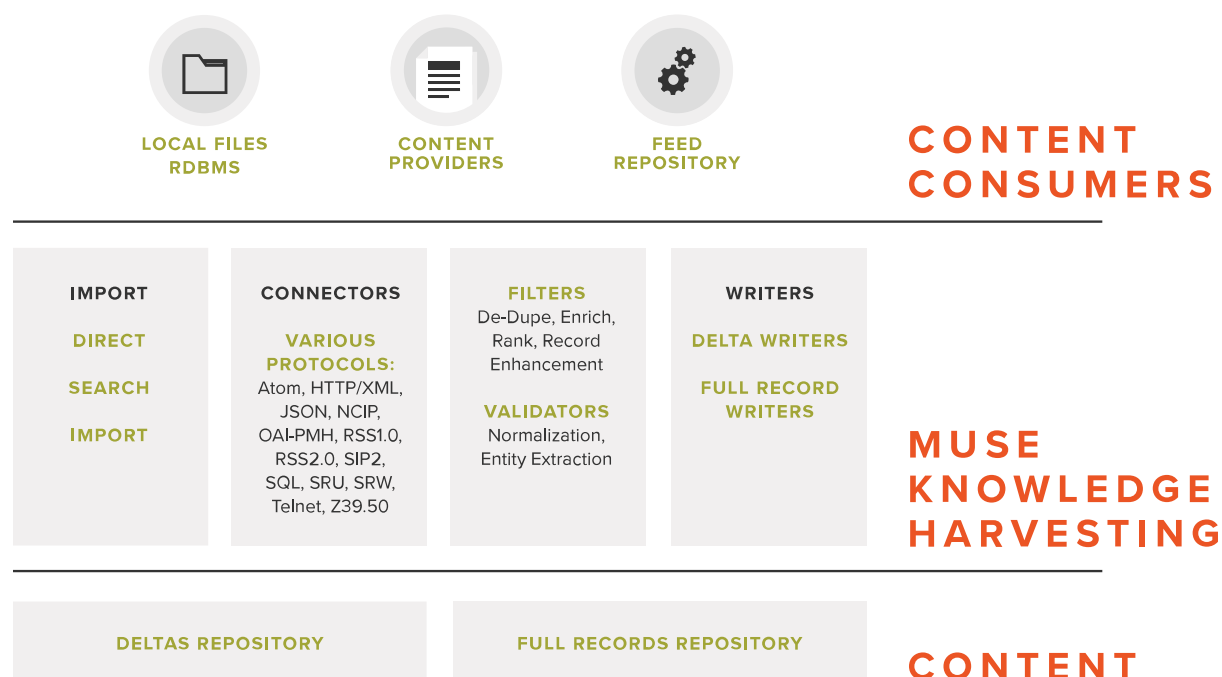
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HARVESTING IN MUSEKNOWLEDGE™



- **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



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



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



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 Muse Global 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.



MUSEKNOWLEDGE™ HARVESTING APPLICATION

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 bar with a placeholder 'Type in Search Term(s)' and a 'Keyword' button. A sidebar on the left contains the MUSE logo and copyright information: '© 1998 - 2013 MuseGlobal'.

Two panels are open over the main interface:

- Search Options Panel:** This panel allows users to configure search settings. It includes a 'Restore to Defaults' button and several sections:
 - Remove Duplicates By:** Radio buttons for 'None' (selected), 'Yes', and 'No'.
 - Display Duplicates:** Radio buttons for 'Yes' and 'No'.
 - Results Per Source:** Radio buttons for '10', '25', '50', and '100'.
 - Results Per Page:** Radio buttons for '10', '20', '25', '50', '100', '500', and '1000'.
 - Results Display Level:** Radio buttons for 'Raw Data' and 'XML'.
 - Sorting By:** Radio buttons for 'None' (selected), 'Retrieved', 'Source', and 'Banded'.
 - Limit Results To:** A dropdown menu with 'Any Language' selected.
 - Any Material:** A dropdown menu.
 - Sorting Direction:** Radio buttons for 'Ascending' (selected) and 'Descending'.
 - Show Search Progress:** Radio buttons for 'Yes' and 'No'.
 - Limit Results To:** A dropdown menu with 'Any Language' selected.
 - Full Text Review:** Checkboxes for 'Full' and 'Peer'.
 - Any Date:** A dropdown menu.
- My Account Panel:** This panel contains user-specific settings and a list of custom parameters.
 - Alert Expiry:** Fields for Year (2015), Month (2), Day (5), and a field for equivalent milliseconds (1423138181314).
 - Entities:** A dropdown menu with 'None / Other' selected.
 - Control Lists:** Radio buttons for 'Entities', 'People' (selected), 'Subjects', and 'Animals'.
 - Buttons:** 'Add current Terms to Control Lists', 'Reject List (word never required)', 'Accept List (terms always wanted)', and 'Advanced'.
 - Custom Parameters:** A table with columns for Parameter Name, Parameter Value, and a Delete button.

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

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.



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



MUSEKNOWLEDGE™ RECORD TRACKING SYSTEM

MUSE KNOWLEDGE

SEARCH

Muse RTS Console

Home

Logout

Actions

Display list of:

- Valid records
- Invalid records
- Dropped records
- Orphan records
- Messages

Search for:

- Messages

Display statistics of:

- Processed records

Valid Records

Select | Clear All Records on Page. 0 Selected Records.

Source: All Sources

Start Date: 2016-03-27 End Date: 2016-08-27 Set

1 - 10 of 61638 Records

Set Reprocess Flag to: Yes No Set

Per Page: 10 Go

Record ID	Source	Message	Reprocess
1. N30130000125011410	JXDM_RMSIncident_SpillmanRM_v61_nJHnonmouthCo	Good: Persist: Transaction committed. MessageLevel/StatusCode: 0	No
2. N30130000125011412	JXDM_RMSIncident_SpillmanRM_v61_nJHnonmouthCo	Good: Persist: Transaction committed. more »	No
3. N30130000125011418	JXDM_RMSIncident_SpillmanRM_v61_nJHnonmouthCo	Good: Persist: Transaction committed. more »	No
4. N3013000012510002	History for Record with ID: N3013000012510020		
5. N3013000012510020	Transaction committed.		
6. N3013000012510035	Transaction committed.		
7. N3013000012510036	Transaction committed.		
8. N3013000012510057	Transaction committed.		
9. N3013000012510096	Transaction committed.		
10. N3013000012510103	Transaction committed.		

1 - 10 of 26 Records

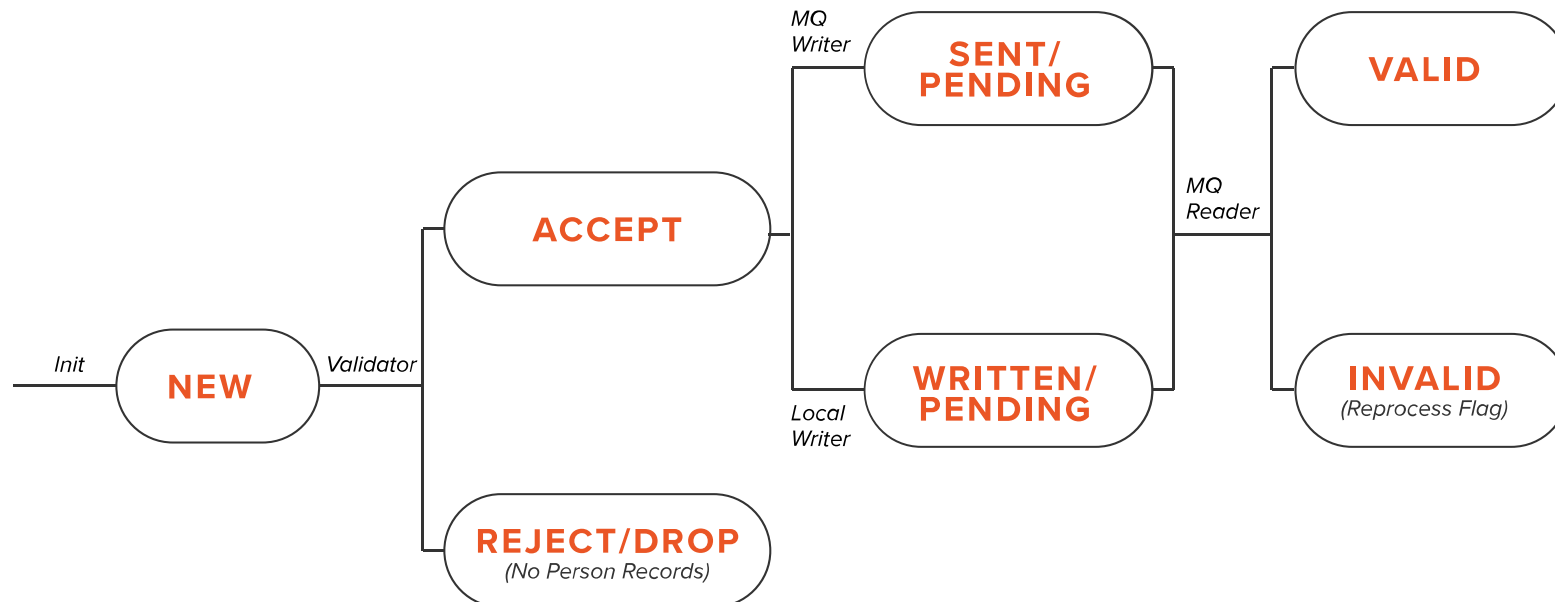
Updated	Processed Date	Processing State	Record State	Message
1. 2016-03-21 16:45:27.0	2016-04-27 04:50:01.568	-	VALID	Good: Persist: Transaction committed. more »
2. 2016-03-21 16:45:27.0	2016-04-27 04:37:00.232	WRITTEN	-	-
3. 2016-03-21 16:45:27.0	2016-04-27 04:36:58.182	SENT	-	-
4. 2016-03-21 16:45:27.0	2016-04-27 04:36:42.983	READY	-	-
5. 2016-02-01 21:23:39.0	2016-03-09 04:50:02.236	-	VALID	Good: Persist: Transaction committed. more »
6. 2016-02-01 21:23:39.0	2016-03-09 04:35:15.4	SENT	-	-
7. 2016-02-01 21:23:39.0	2016-03-09 04:35:15.32	WRITTEN	-	-
8. 2016-02-01 21:23:39.0	2016-03-09 04:35:07.241	READY	-	-
9. 2015-11-05 00:06:00.0	2015-12-07 01:10:01.604	-	VALID	Good: Persist: Transaction committed. more »
10. 2015-11-05 00:06:00.0	2015-12-07 00:33:05.284	SENT	-	-

Close Window

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.



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)



MUSEKNOWLEDGE™ CONTROL CENTER

SEARCH

Muse Control Center

Logout

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: Mar 27, 14:01:09 (GMT)

Local time: Mar 27, 17:01:09 (EEST)

\$(MUSE_HOME)/center/tasks/PDHarvestingTasks/PDHarvesting - Live.task

Turn Off Add Load Unload New Save Save as Save all Stop


The current set of tasks is turned ON. This will assure that tasks are started according to scheduled times.

Source Packages Upgrade Tasks.taskCollecting Search Data.taskPartner Log Upload.taskPDHarvesting Historical - Live.taskPDHarvesting - Live.task

	Name	Type	Status	Enable	Description
1	Muse Control Center Scheduler	Scheduler	Running	<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 [-<PD Name>]	Alerts	Idle	<input checked="" type="checkbox"/>	Incremental record processing for <PD Name> PD.
3	Upload Results [-<PD Name>]	FTP	Idle	<input checked="" type="checkbox"/>	Uploads Harvesting results from <PD Name> PD on a FTP server.
4	Output Validation [-<PD Name>]	Ant	Idle	<input checked="" type="checkbox"/>	Performs output validation using Muse Validator with all validation rules active.
5	eMail: Output validation [-<PD Name>]	Email	Idle	<input checked="" type="checkbox"/>	Send email with the Output Validation log from <PD Name>.
6	Alerts Logger	Log	Idle	<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	Idle	<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.

Users logged on: 1

Refresh 60 seconds.

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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.



MUSEKNOWLEDGE™ CONSOLE FOR APPLICATION ADMINISTRATION (MCAA)

MUSE KNOWLEDGE | SEARCH Muse Console for Applications Administration

Applications Users Monitor Problem Report Logoff

Application Actions

Mark | Clear all Applications on this page.

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
- Login Modules

Select one or more Applications to:

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

Application General Settings

Application Modules

The Muse Console for Applications Administration is used for managing Muse Applications and Administrative Users. An Application is the search tool used by end users. More »

Applications List

1 - 21 of 21 Applications Skip to: Go

ID	Name	ID	Description	Expiry Date
1.	<input type="checkbox"/> FEDGATEGUI Internal TRIAL ↗	FEDGATEGUI	Copy of amu	
2.	<input type="checkbox"/> Janium Application ↗	janium	Muse Template Application for Janium.	
3.	<input type="checkbox"/> LIRNSearch Application ↗	LIRN	Muse Template Application for Library and Information Resources Network.	
4.	<input type="checkbox"/> LongBeachFoundation Application ↗	LongBeachFoundation	Muse Template Application for Long Beach Memorial Medical Center.	
5.	<input type="checkbox"/> MobileSearch™ ↗	MobileSearch	MobileSearch™ Template Application.	
6.	<input type="checkbox"/> mobilevubis Application ↗	mobilevubis	Mobile Template Application for Infor.	
7.	<input type="checkbox"/> Modern College of Arts, Science and Commerce LIVE ↗	ModernCollege		12/24/2017 2017-12-24
8.	<input type="checkbox"/> Muse Foundation Application based on jQuery (Development) ↗	jDevFoundation	Muse Foundation Application containing features under development - DO NOT use for general App production.	
9.	<input type="checkbox"/> Muse Guest ↗	anonymous	Default Muse Guest Application.	
10.	<input type="checkbox"/> Muse Harvesting Application ↗	harvesting	Muse Template Application for Harvesting Process.	

Show only the Application names beginning with:

Show only the Application names containing:

Show only the Applications based on the template:

Show only the Applications created between:

Show only the Applications expiring between:

Space separated list of case insensitive Application IDs: Go

Place an ID within quotes to limit the retrieval to the specific characters entered.

Accounts: ■ Expired ■ About to expire (30 days)

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.



USAGE SCENARIOS ETL

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.



USAGE SCENARIOS MUSE METERS

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.

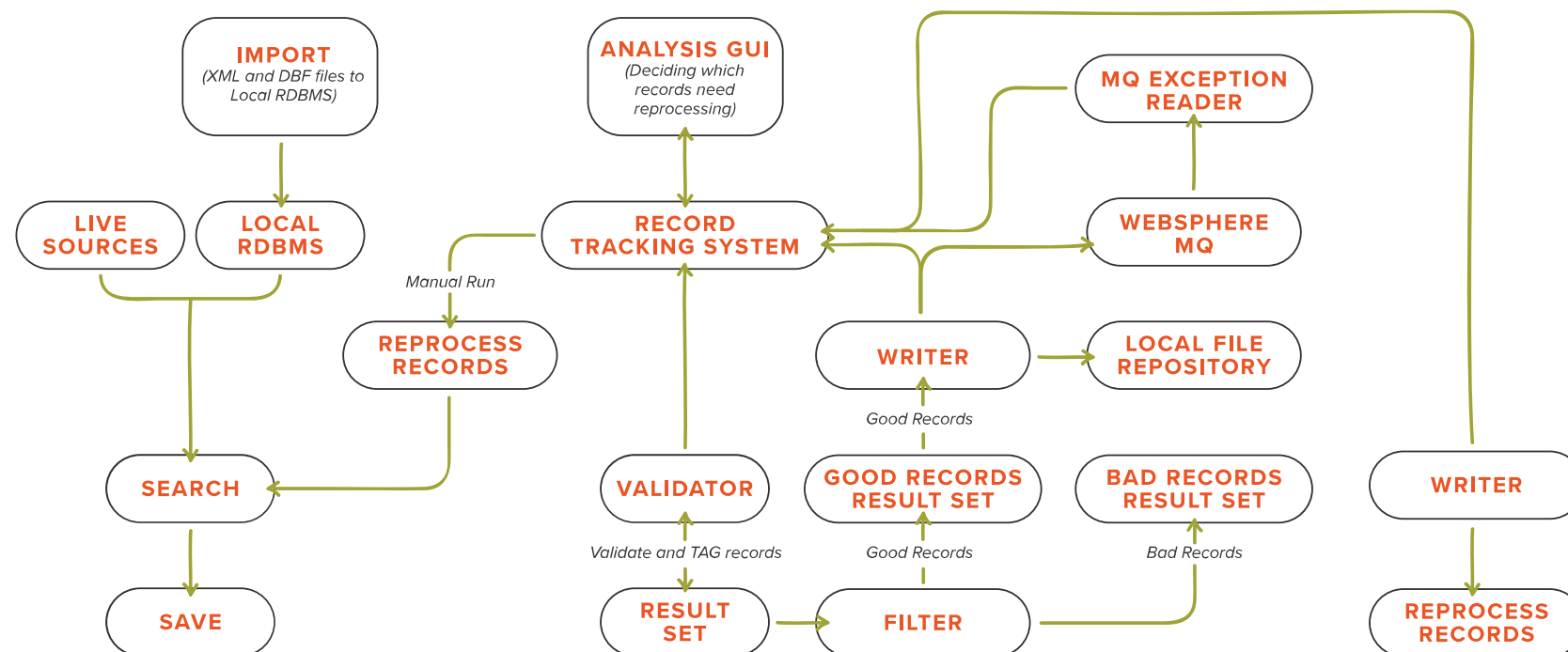
- **Step 1.** One or more 'Multi-Meter Alerts' are used to download the available records from a set of sources.
- **Step 2.** A second, user-set alert will inherit the properties from one or more 'multi-meter alerts' which will be calling parent alerts from now on. The only difference between this user 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.

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



USAGE SCENARIOS HARVESTING POLICE DATA

Workflow



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.



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
 - Schematron validation



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 DARTMOUTH.COM
NEWS

WEDNESDAY, MAY 28, 2008

NEWS | OPINION | SPORTS | ARTS | THE MIRROR | COMICS | ARCHIVES | FEATURES | ABOUT THE D

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TheDartmouth.com | America's Oldest College Newspaper. Founded 1799.
Daily, student-run, independent newspaper of Dartmouth College; publishes Monday to Friday, special inserts Monday (Sports Weekly), and Friday (The Dartmouth Mirror).

NEWS: Compton hired as rhetoric prof
Wednesday, May 28, 2008 12:00 AM

Three years after the College ended its speech program, Josh Compton will assume the role of lecturer of speech and rhetoric at the College's Institute for Writing and Rhetoric on July 1, 2008, according to a press release from the Office of Public Affairs. Compton will begin lecturing on public speaking and speechwriting during the Fall term. The College also hired Christine Donahue to lead the Institute, which was founded this January. Donahue will assume her post on Sept. 1, 2008.

NEWS: Pres. search may look for College affiliations
Wednesday, May 28, 2008 12:00 AM

Former and current college presidents, administrators, professors and possibly a member of the current Bush administration could make it onto the Board of Trustees' search committee's list for a successor to College President James Wright, who will step down in June 2009. The committee will be announced in early June.

NEWS: Venkatesan '90 drops plans for memoir
Wednesday, May 28, 2008 12:00 AM

Former Dartmouth writing instructor Priya Venkatesan '90 said she no longer plans to publish a memoir in the near future, recanting previous statements that she would write a book that would identify specific Dartmouth students who she claims discriminated against her and in addition to including their anonymous course evaluations. Venkatesan alleged that these students, all members of her Winter term Writing 5 class, invaded her personal space and displayed other means of disrespectful behavior towards her, according to statements she made in an interview with The Dartmouth.

NEWS: Beta alumni reject common student perception of frat
Wednesday, May 28, 2008 12:00 AM

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

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 1961 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 alumnus and board member Scott Sipple '84 said. As the number of female students at the College grew, women felt increasingly comfortable attending parties at Beta, according to Sipple. Beta's 1941 chapter book of Beta

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



USAGE SCENARIOS BUZZGAUGE

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	4	1 Liz Cox	3	36	8
4	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	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	6 Billy Bob	1	23	5
6	6	6 David Gilmour	1	23	5
6	6	6 Billy Bob Thornton	1	23	5
6	6	6 David Graham	2	23	5
6	6	6 Peter Vaa	2	23	5
		Sen. John	2	23	5
		Public Health	1	23	5
7	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

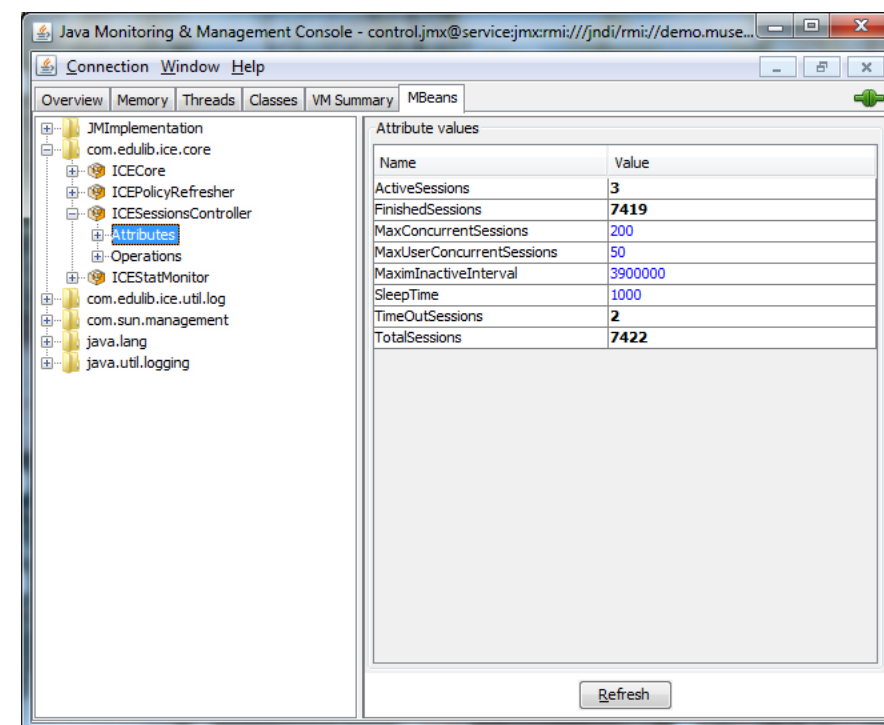
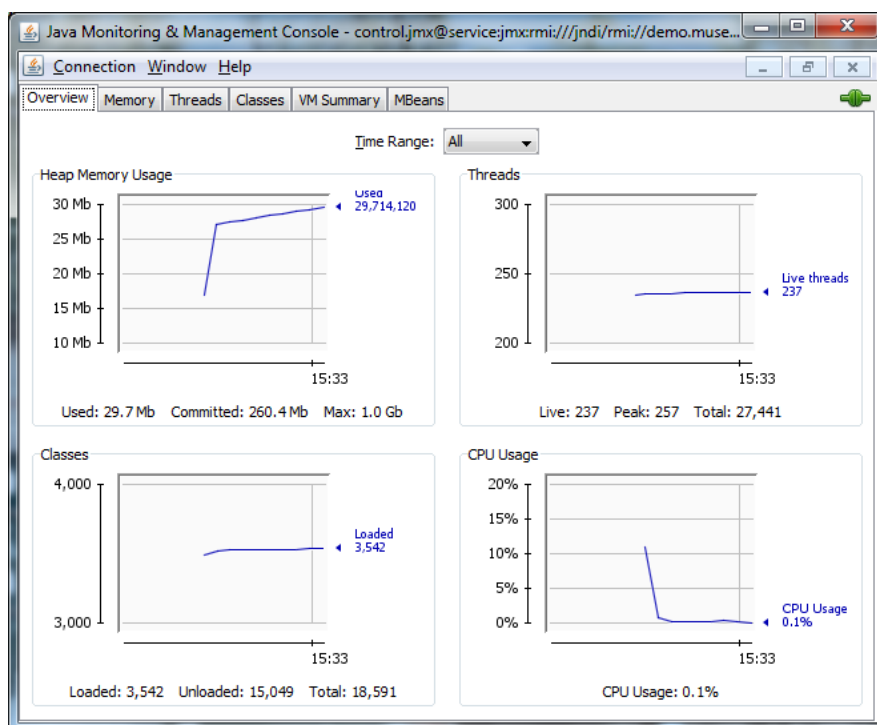
Share this Grab it ☆

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

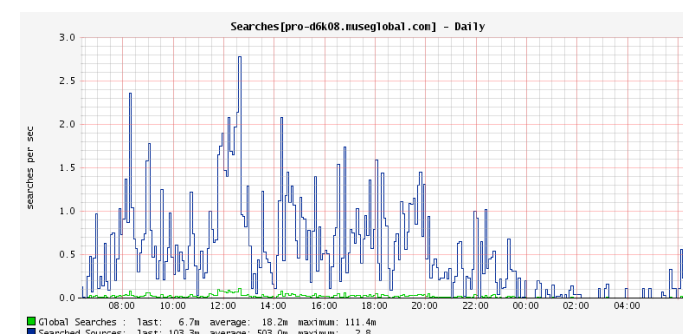
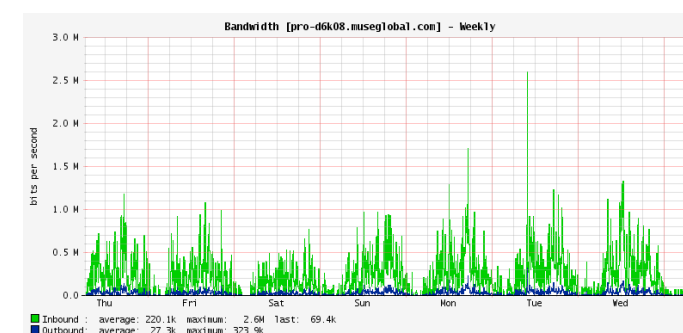
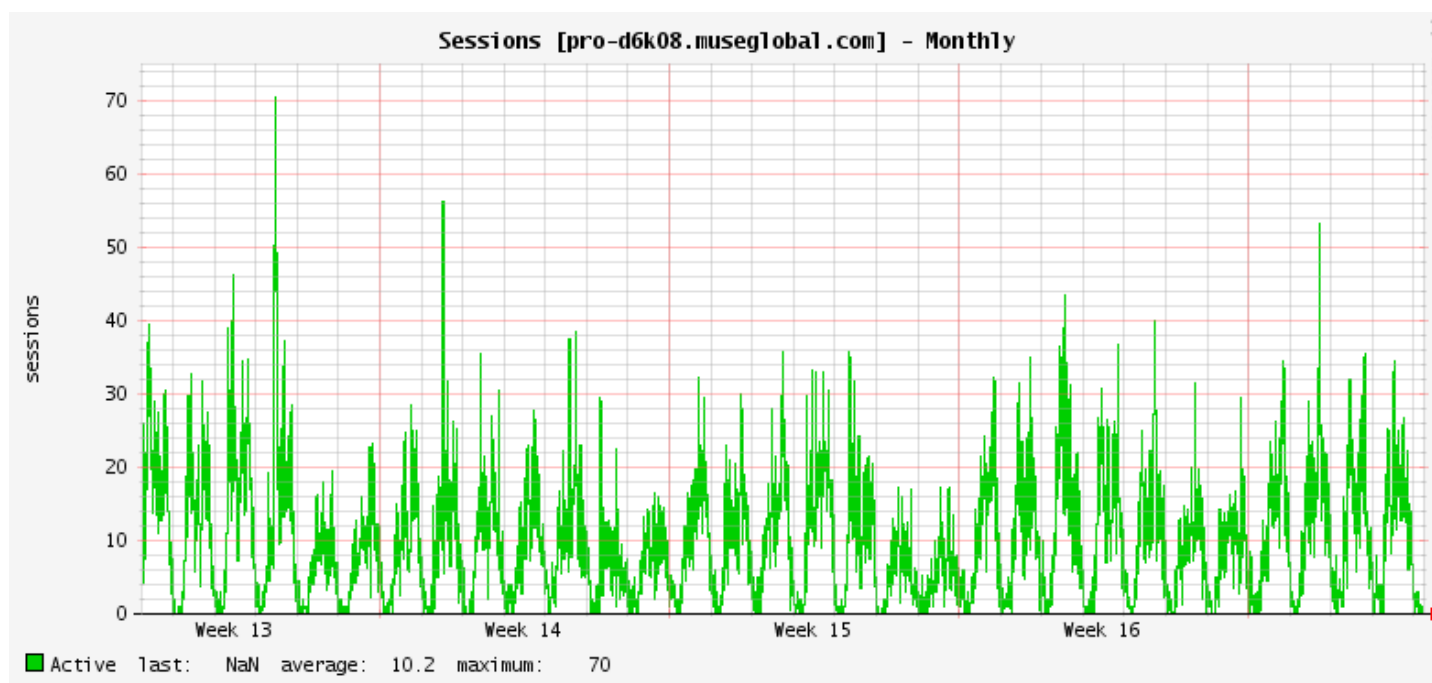
MONITORING THE HARVESTING

Advanced real time monitoring of Muse servers through JMX

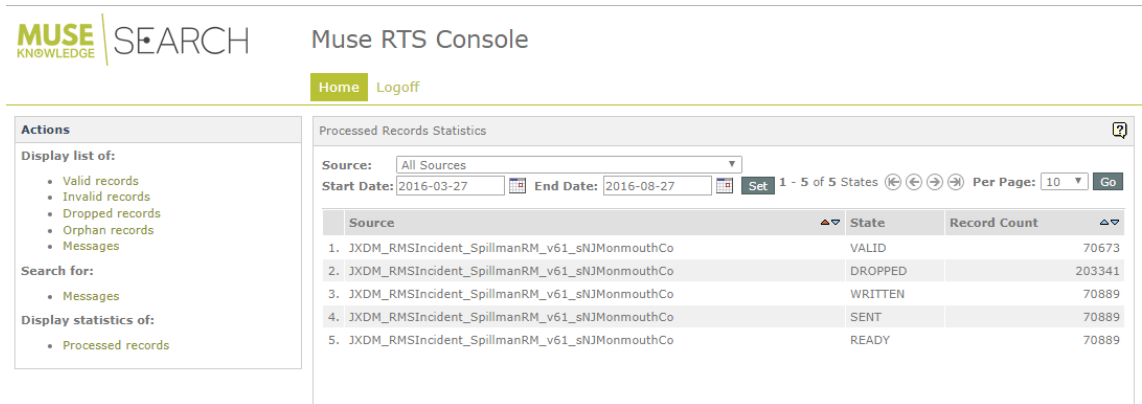


MONITORING THE HARVESTING

Historical JMX graphs with RRD Grapher



MONITORING THE HARVESTING



The screenshot displays the Muse RTS Console interface. On the left, there is a sidebar with 'Actions' and 'Display list of:' (Valid records, Invalid records, Dropped records, Orphan records, Messages) and 'Search for:' (Messages). Below this is 'Display statistics of:' (Processed records). The main area is titled 'Processed Records Statistics' and includes a 'Source' dropdown (All Sources), 'Start Date' (2016-03-27), 'End Date' (2016-08-27), and a 'Set' button. It also shows '1 - 5 of 5 States' and 'Per Page: 10'. A table lists the following data:

Source	State	Record Count
1. JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo	VALID	70673
2. JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo	DROPPED	203341
3. JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo	WRITTEN	70889
4. JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo	SENT	70889
5. JXDM_RMSIncident_SpillmanRM_v61_sNJMonmouthCo	READY	70889

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



MUSEKNOWLEDGE™ DOCUMENTATION

- [Muse Console for Application Administration.pdf](#)
- [Muse Control Center.pdf](#)
- [Muse Alerts.pdf](#)
- [Record Tracking System.pdf](#)





SMART CONNECTOR
TECHNOLOGY FOR HARVESTING

