

FuegoBPM Archive Viewer 5 Documentation

Fuego, Inc.

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by Fuego, Inc.

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FuegoBPM Archive Viewer 5 documentation

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Chapter 1. FuegoBPM Basics

Business Services Orchestration

The FuegoBPM (TM) Suite embraces and extends the concept of Business Process Management (BPM) through its vision of Business Services Orchestration (BSO.)

BPM is a discipline that includes many different types of tools and methodologies. A simple process modeling tool, such as Visio, can be considered a BPM utility. Business Intelligence tools can be considered BPM utilities. True, in today's market more people are starting to see BPM as a new category of software that **automates business processes**. The problem is: what do we really understand by automating business processes?

- For the creators of BPEL, it is the organization in time of web services invocation
- For EAI fans, it is a state server that coordinates messages on a proprietary bus
- For some ERP vendors, it is the business logic embedded in an ERP system
- For traditional workflow vendors, it is the organization of the collaboration between people

FuegoBPM can be used to fit in any of the above visions, but they fall short of what FuegoBPM was meant to do.

For FuegoBPM, automating business processes consists of **managing the behavior of people, systems and organizations to orchestrate a repeatable business service**.

Therefore,

- FuegoBPM sees organizing the invocation of web services as managing the behavior of systems, and not all systems: only those exposed as web services.
- FuegoBPM sees a state server to coordinate messages as managing the behavior of systems, and not all systems: only those that have adapters into a proprietary messaging bus.
- FuegoBPM sees the business logic embedded in an ERP system as a service that manages the behavior of organizations limited by the rules in the ERP system. This service can be reused in the context of a cross application enterprise process.
- FuegoBPM sees the organization of the collaboration between people as managing the behavior of people.

Fuego's vision of BPM includes all the above visions in one single holistic vision: Business Services Orchestration. FuegoBPM sees anything a person, system or organization does within an enterprise as a **Business Service**. FuegoBPM provides all the necessary tools to **Orchestrate** composite business services using existing ones, manages and measures the service levels of those composite business services and continuously improves them.

This is what we call *Full Lifecycle Management of Orchestrated Business Services*.

To be able to do this, FuegoBPM provides the full set of tools that enables companies to:

1. Model Processes.
2. Transform Process Models into executable designs.
3. Simulate the execution of designs to study the feasibility of a service level.

4. Harmonize and catalog business services from existing systems to be able to use them regardless of what technology is used to expose them.
5. Catalog the different services from people that can be rendered by the organization and their availability in time.
6. Expose composite services that orchestrate services from systems people and organizations to be reutilized.
7. Monitor the orchestration in production according to the parameters set forth in the simulation.
8. Measure the performance of the process from a historical perspective.
9. Use statistical data to refine future simulations.

FuegoBPM can be used to manage the full spectrum of business processes, from the mostly automated (like BPEL) to the more collaborative processes like those that involve specialized workers and creative activities.

When designing with FuegoBPM, it is critical to understand that the Server was conceived to manage **behavior** rather than just to pass data. When working with a business service, the invocation of the service provokes behavior, when presenting a user with a work portal, the Work Portal suggests the adequate behavior to the user. Obviously, the user is free to do as he or she wishes, but it is very convenient not to need to remember the adequate behavior in each intervention in each process in which a user is involved. And, whatever gets done in effect by people, systems and organizations is logged into a process log that allows the tracking, tracing and measuring of performance.

Without any doubt, Business Services Orchestration is the most complete way to automate the management of a business process designed, for example, as a result of a six sigma exercise, ISO

compliance exercise or BPR exercise. Why?

Because the FuegoBPM Enterprise Server will elicit behavior that otherwise would have implied months of training and convincing, and eons of application integration.

Moreover, Business Services Orchestration is the easiest way to build composite apps that integrate existing ones and expose them as web apps or web services.

To provide the ideal Orchestration platform FuegoBPM has centralized all the design and development tools in a single environment: FuegoBPM Studio. As well the design can be previously defined in the FuegoBPM Designer and the development can be completed using the FuegoBPM Studio.

The orchestrations created in Studio run on an orchestration server that comes in two categories: Express and Enterprise.

The Express category of servers is designed for quick deployment of departmental and small business orchestrations that will require no administration or for proof of concept projects in their pre-rollout stage.

The Enterprise category of servers is designed for full featured Enterprise security, scalability and failover capabilities as well as to run inner-departmental and inter-enterprise processes.

What's FuegoBPM

FuegoBPM is a full-life cycle development and runtime environment for managing business processes from a Business Services Orchestration (BSO) perspective. This means that FuegoBPM focuses on managing the behavior of people, systems and organizations (through a process metaphor) to fulfill a measurable and repeatable business service that may span departments, divisions and company boundaries.

The full-life cycle development environment is FuegoBPM Studio.

Studio provides all the necessary functionality for a BSO approach towards BPM.

The full-life cycle runtime environment is provided through two runtime server editions:

- FuegoBPM Express - an entry level server that requires zero administration, fit for self-contained business services or for proof-of-concept projects.
- FuegoBPM Enterprise - the full fledged enterprise edition to run processes that span departments, divisions and enterprises with all the scalability, security and flexibility features you would expect from an enterprise grade product.

FuegoBPM caters to the needs of our customers in terms of TCO (Total Cost of Ownership) and ROI (Return on Investment). This is why we can really improve the way businesses run. FuegoBPM helps businesses increase operational efficiencies, reduce costs and increase profitability with an agile BPMS that can adapt to any budget and manpower. FuegoBPM allows companies to take control and tangibly optimize enterprise assets—applications, people and core business functions – and how they work together. With FuegoBPM, companies can quickly fill the gap between business strategy and execution in order to gain immediate payback.

FuegoBPM provides a BMPS software that makes the critical enterprise assets work the way you do and change as you change. By orchestrating applications, people and partners into executable, end-to-end processes that can be exposed as new composite business services, FuegoBPM fills the gap between business strategy and business execution.

FuegoBPM shields the process logic from the differences that arise from location (timezone, holidays, vacations, language), from IT infrastructure (MS, Unix, Legacy), from IT strategy (J2EE, .NET, Websphere, CORBA) and from the applications that contain reusable

services (SAP, Peoplesoft, I2, Siebel, legacy, etc.). Therefore, allowing non-specialized business analysts to model, design and change processes with no need to be domain experts.

FuegoBPM reduces complexity, enhances productivity and makes any company as competitive as its creativity allows (not limiting process automation to that which their enterprise software vendors provide.)

Chapter 2. Archive Viewer Introduction

Using the Archive Viewer

The Archive Viewer is a web application tool that allows you to retrieve information of instances that, after being completed or aborted have been stored in a database.

The FuegoBPM system does not retain instance information once an instance has completed or is aborted.

Usually, whenever an instance reaches the End Activity, the instance actually remains in the End activity with a status of completed or aborted.

The disposer is the tool responsible for deleting these instances according to the schedule configured in the FuegoBPM Web Console's Server Properties. The Disposer is also responsible for archiving; before disposing of the instances it will check to see if archiving was requested. This archiving functionality allows you to save the instance information into a database; storing relevant instance information as well as external variables.

First Steps: Enabling Archiving and How to launch the application

To ensure archiving is enable and that you can launch the FuegoBPM Archive Viewer review the following steps:

1. Start the **FuegoBPM Enterprise Admin Center**.
2. If the *Launch FuegoBPM Archive Viewer* option is disabled:
 - a. Click **Configuration**,
 - b. Go to the **Web Application Server** tab,

- c. Select the **Start FuegoBPM Archive Viewer..** check box.
3. Start the **FuegoBPM Web Console**, click the name of the server and click the **Services** tab. Ensure that in the **Archiving** section that *Enable archiving* checkbox is checked.
4. Click the **Create a new configuration** link. For the user, enter a user name that is the same name as the database and click "Save".
5. Click the name of the server again and click **Manage database**. Note the new **Archiving database creation** section.
6. Click the bottom two checkboxes and enter the system administrator (sa) user and password.
7. Edit the C:\fuego5.5\enterprise\webapps\archivingviewer\WEB-INF\archiving.properties file and make sure that the log's fuego.log.archiving.file property is not commented out (# sign in front of it) and is pointed to a valid directory.
8. Add the JDBC driver for the database you're using through the **Install Driver...** option in the **Configuration/Directory** tab.

Logging into the Archive Viewer

To log into the Archive Viewer application, select the **Launch FuegoBPM Archive Viewer** from the FuegoBPM Administration Center. If the option is not available, verify in the **Web Application Server** tab in the configuration dialog, that the option **Start FuegoBPM Archive Viewer on Web Application Server startup** is checked.

The archiving viewer administrator has to define the security policy and rely on any of the well-known web containers security

mechanisms. Therefore, FuegoBPM does not provide anything to avoid users to connect to it by default.

About Access Configurations to Archiving Databases

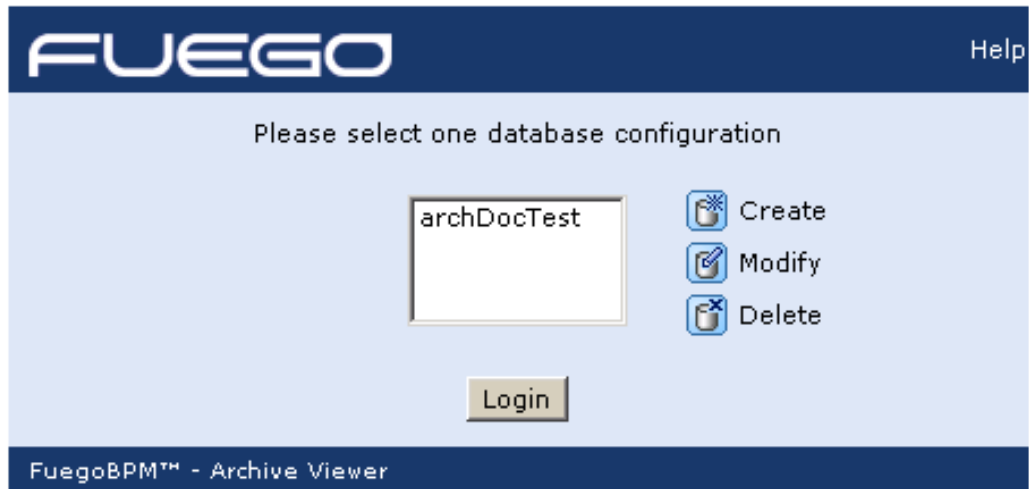
The first time the FuegoBPM Archive Viewer web application is opened, no access configuration is created so it will prompt the *create database configuration* window. Access configurations are defined **only to connect** to the archiving database. But this configurations do not interfere with the access configuration to the archiving database defined in the FuegoBPM Web Console for the FuegoBPM Server. That is the configuration used to archive data. The configuration required in the FuegoBPM Archive is only used to access the archived data. Both have to be defined with the same configuration parameters.

Access configurations to archiving databases are common for all the users. These access configurations are stored in the installation file *\$INST_DIR/webapps/archivingviewer/WEB-INF/configDrivers.xml* file. This file holds the accesses defined to log in to the archiving databases.

If any user modifies an access configuration, all the users will be affected by the modification. But, again, it does not interfere with the *archiving* process, it will only attempt to connect to another database.

Follow the indications given in Creating a new access database configuration to create an access to the archiving database.

Choose from the access configurations created to log in, and click the **Login** button.



From the Archive Viewer main window you can also do one of the following:

- Select an archiving database configuration to log into
- Create a new access configuration to an archiving database
- Modify an access configuration to an archiving database
- Delete an existing access configuration to an archiving database

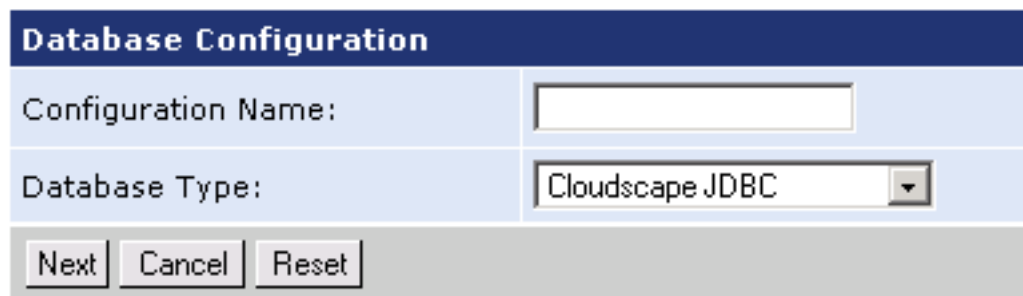
Chapter 3. Managing Archiving database access configurations

Creating a new access configuration to an archiving database

In order to be able to retrieve the information of instances archived in the Archiving database, a new configuration must be created with the same connection information used when defining the Archiving database configuration from Web Console application.

To create a new archiving database access configuration

1. From the log in window, click the **Create** button. The *Database configuration* window displays.



Database Configuration	
Configuration Name:	<input type="text"/>
Database Type:	Cloudscape JDBC <input type="button" value="v"/>
<input type="button" value="Next"/> <input type="button" value="Cancel"/> <input type="button" value="Reset"/>	

2. Type a name for this access configuration you are creating, in the **Configuration Name** field.
3. Select the database type from the drop-down list to configure the Archiving database, and click **Next** to continue.
4. Complete the database configuration fields.

Database Configuration	
Configuration Name:	archDocTest
Database Type:	MSSQL

Properties	
Host	<input type="text" value="jesse"/>
Port	<input type="text" value="1433"/>
Database	<input type="text" value="archiving"/>
User	<input type="text" value="doc"/>
Password	<input type="password" value="xxxx"/>

Runtime	
Maximum Pool size	<input type="text" value="10"/>
Connection Idle time (Mins)	<input type="text" value="5"/>
Maximum opened cursors	<input type="text" value="50"/>

The required fields will change based on the database type selected. Refer to the System Administrator Guide document, **Appendix A - Database Considerations** for more information. See also, **Appendix A - Archiving Database Structure**.

5. Click **Save** to save the database configuration.

Modifying an access configuration to

an archiving database

To modify an archive database configuration

1. From the log in window, select the configuration you want to edit and click **Modify**. The window displaying all the configuration data is displayed.

Database Configuration	
Configuration Name:	archDocTest
Database Type:	MSSQL

Properties	
Host	<input type="text" value="jesse"/>
Port	<input type="text" value="1433"/>
Database	<input type="text" value="archiving"/>
User	<input type="text" value="doc"/> Change password

Runtime	
Maximun Pool size	<input type="text" value="10"/>
Connection Idle time (Mins)	<input type="text" value="5"/>
Maximum opened cursors	<input type="text" value="50"/>

2. Modify the appropriate fields and click **Save** to save changes and return to the log in window.

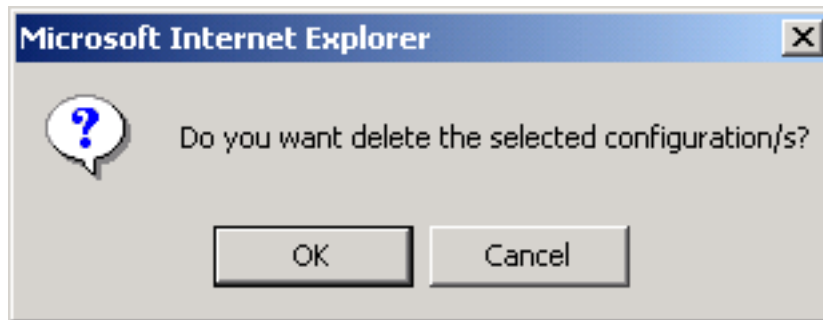
3. Click **Cancel** to exit without changing any data, or **Reset** if you want the original data to be reloaded.

Deleting an access configuration to an archiving database

The delete function in the Archive Viewer application only allows you to delete the configuration used to access the archive database. If you want to actually delete the archiving database, you have to do it from the Web Execution Console.

To delete an archiving database configuration

1. From the log in window, select the database configuration to delete and click **Delete**.
2. The confirmation dialog popup will display. Click **OK** to delete.



Chapter 4. Retrieving Instances

Selecting the Processes to retrieve instances

To select the archived processes

1. From the Archiving Viewer main window select the organization, containing the archived process, from the drop-down list. A list of archived processes, their publishing date, and the option to download the process' xpdL file displays.

FuegoBPM™ Archive Viewer Queries Status - Help - Logout

Archive Viewer Search Clear

Organization company

Processes

☒ **CustomerManagement** [Select] Feb 1, 2004 6:46:21 AM ☒ **StockAdministration** [None]

☒ /CustomerManagement#Default-1.0(2)

Filter Options ☐ Batch Request

Case Sensitive Matching: ☐ E-mail:

Maximum amount of instances to retrieve: Query Description:

Instances order: Ascending ☒ Descending ☐ Hours until expire:

Sort instances by: Copy

Conditions

Match all of the following ☒

Add Condition: Copy +

Search Clear

Filter Description

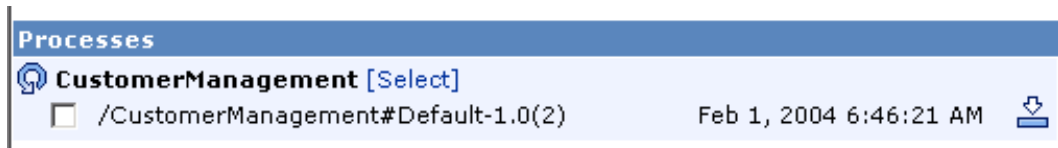
FuegoBPM™ - Archive Viewer


2. To search for archived instances you must select at least on process or one of the versions of any of the available processes. Every Procesess listed has three different selection status

indicated next to each process name : the options are [None], [All] and [Select]. If you select [None], no instance of that process will be retrieved by the search function. If you select [All], instances of that process, no matter the version of the process they belong to, will be retrieved. To retrieve instances of a specific version of one of the listed processes, you must use the [Select] option which expands the list showing all the archived versions of the process and allows you to select one or more of those versions. By default, all the processes appear unselected [None]. Click on the process icon to select all the process' versions, the text **[All]** will be displayed on the right side of the process name.



3. Click on the process icon again to select that process and expand the process' version. When a process is selected the text indicator **[Select]** will appear on the left of the selected process' name and all the existing versions of the process will be listed below.



4. To select a specific version, click in the check box next to that version. If you click on the Download icon , the process .xpd file is downloaded.
5. If you click on the icon again, you will deselect all the versions, and the text **[None]** is displayed on the right side of the process.

Processes **CustomerManagement** [None]

Filter Options and Conditions

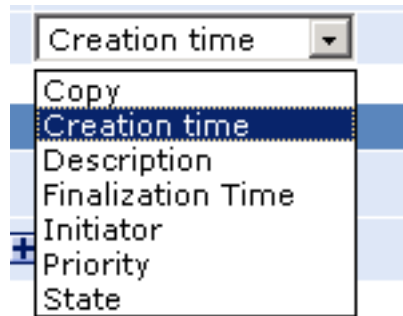
The Archive Viewer Filter Options allow you to quickly find specific instances by setting a range of options and conditions for searching.

Filter Options

In the Filter Options area of the Archiving Viewer main window,

Filter Options	
Case Sensitive Matching:	<input type="checkbox"/>
Maximum amount of instances to retrieve	<input type="text" value="10000"/>
Instances order	Ascending <input checked="" type="radio"/> Descending <input type="radio"/>
Sort instances by	<input type="text" value="Copy"/>

1. Click in the Case Sensitive checkbox if you want case sensitive matching of the specified conditions.
2. Type in a number in the Maximum amount of instances to retrieve field. This number will indicate the maximum number of instances you want retrieved from your query.
3. Click in the Ascending or Descending radio buttons to indicate the sorting order for the retrieved instances.
4. Select the sort criteria from the Sort Instances by drop-down list. Options include: Author, Copy, Creation Time, Description, Priority, and State.



Conditions

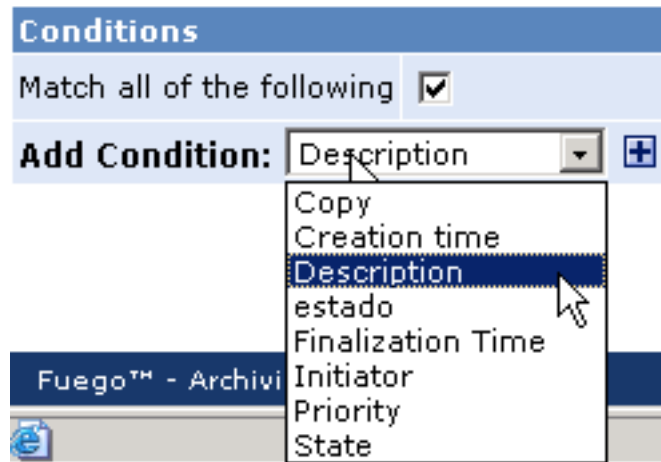
Conditions may be established on standard attributes and external variables.

- **Standard Attributes** are the default instance values provided by FuegoBPM on which you can build the conditions. Valid attributes include: Author, Copy, Creation Time, Description, Priority, Shipping Date, State,
- **External Variables** are instance variables. The external variable is used to save information across processes. (For more information, see External Variables in FuegoBPM Studio documentation)

1. Click in the Match all the following checkbox if you want all conditions met.

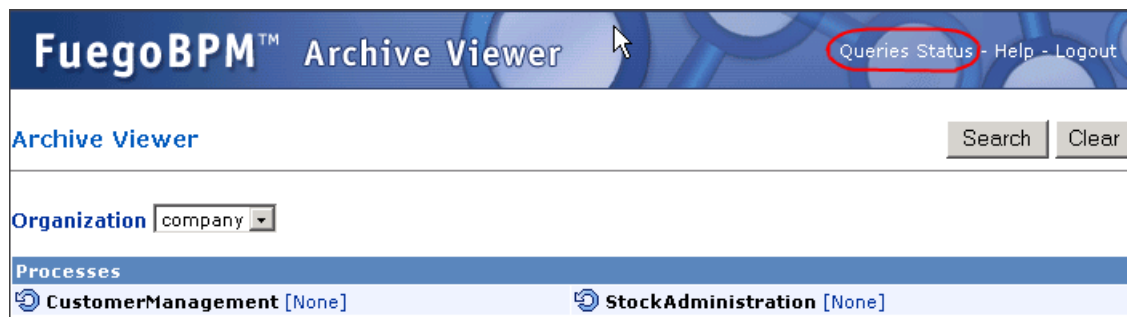


2. Select an attribute from the Add Condition drop-down list. The list includes the standard attributes and the list of external variables.



Query Status

You can get the status of your query by clicking on Query Status, in the top right corner of the archive viewer main window.



The Query Status displays with the following information:

- Request ID
- Current state of the query

- Description of the query
- Available date and time the query will be able to be accessed
- Notification email

FuegoBPM™ Archive Viewer

Queries Status - Help - Logout

Request Id	State	Description	Available until	Notification Mail Address
1109067415058000	Query finished	Testing Archive Viewer- Customer Management	2/22/05 8:16 AM	gloria@fuegolabs.com;

Previous Page

Reviewing Retrieved Instances

The information retrieved consists of all the instances matching the condition specified up to the maximum amount indicated in the maximum amount of instances to retrieve, in the Filter Options area.

Showing 1-5 of 5							
Description	Priority	State	Creation time	Process	Initiator	Copy	Finalization Time
Martin Hanks	Normal	Completed	Jul 1, 2004 12:39:57 PM	/CustomerManagement#Default-1.0	fuego Fuego	0	Jul 1, 2004 12:40:15 PM
John Smith	Normal	Completed	Jul 1, 2004 12:45:01 PM	/CustomerManagement#Default-1.0	fuego Fuego	0	Jul 1, 2004 12:46:39 PM
Peter McDowell	Normal	Completed	Jul 1, 2004 12:45:19 PM	/CustomerManagement#Default-1.0	fuego Fuego	0	Jul 1, 2004 12:46:42 PM
Ann Parker	Normal	Completed	Jul 1, 2004 12:45:40 PM	/CustomerManagement#Default-1.0	fuego Fuego	0	Jul 1, 2004 12:46:45 PM
Dan Pike	Normal	Completed	Jul 1, 2004 12:46:13 PM	/CustomerManagement#Default-1.0	fuego Fuego	0	Jul 1, 2004 12:46:47 PM

In the top right corner you can move between pages by clicking Next or Prev.

If you click on an instance description the following will display in the instance information panel:

- General information,

- All variables and their values,
- Attachments and Notes,
- Audit trail of the instance, as in the Work Portal.

FuegoBPM™ Archive Viewer Queries Status - Help - Logout

Martin Hanks 

Details

Process Name:	/CustomerManagement#Default-1.0	Priority:	Normal
State:	Completed	Creation time:	Jul 1, 2004 12:39:57 PM
Initiator:	fuego Fuego	Copy:	0

Variables

estado:	APPROVED
----------------	----------


Notes

Description	Date	Participant	Activity
No notes available.			

Attachments

Name	Version	Creator	File Name
No attachments available.			

FuegoBPM™ - Archive Viewer

To view an instances audit trail, click the audit trail icon , on the right of the instance name. The following window appears.

Audit trail Help

Instance: /CustomerManagement#Default-1.0/1/0

Activity	Event	Responsible	Date	Copy
<u>NewCustomer</u>	Completed		01/07/2004 12:39:57	0
<u>Begin</u>	Completed		01/07/2004 12:39:57	0
<u>AppCustomer</u>	Completed		01/07/2004 12:39:57	0
<u>AssignCreditLimitToCustomer</u>	Completed		01/07/2004 12:40:06	0
<u>FinalCustomerInfoCheck</u>	Completed		01/07/2004 12:40:09	0
<u>End</u>	Completed		01/07/2004 12:40:14	0

Close

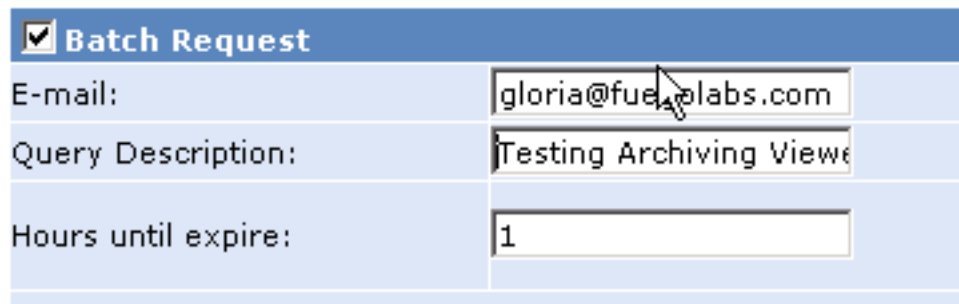
FuegoBPM™ - Archive Viewer

Batch Request

With the FuegoBPM Archiving Viewer you have the ability to submit a batch request. Because the archiving database contains lots of information, querying the archive database could take a long time. However, with the Archive Viewer, you can submit your query as a batch request. The query will be performed in the background and the query results will be accessible through the link available in the notification mail or the query status panel.

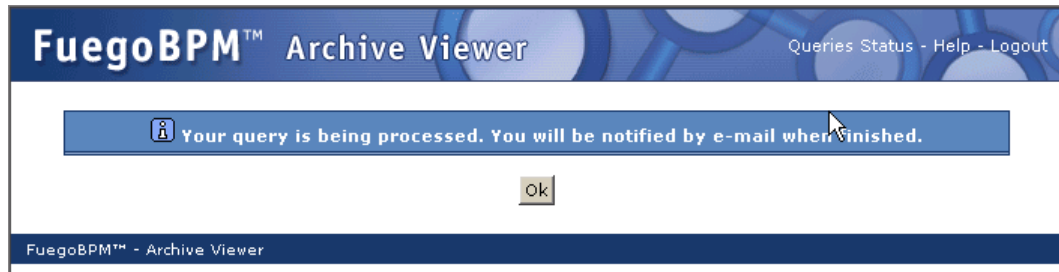
To perform a batch request

1. From the Archiving Viewer main window, click in the Batch Request check box to indicate you are submitting this query as a batch request.



<input checked="" type="checkbox"/> Batch Request	
E-mail:	gloria@fuegelabs.com
Query Description:	Testing Archiving Viewer
Hours until expire:	1

2. In the email field, type the address of the person you want notified when the batch query is completed.
3. Type a description of the query in the Query Description field.
4. **Hours until expire:** Type a number indicating the **quantity of hours until the query will be available to access**.
5. When you submit your request the following window will display.



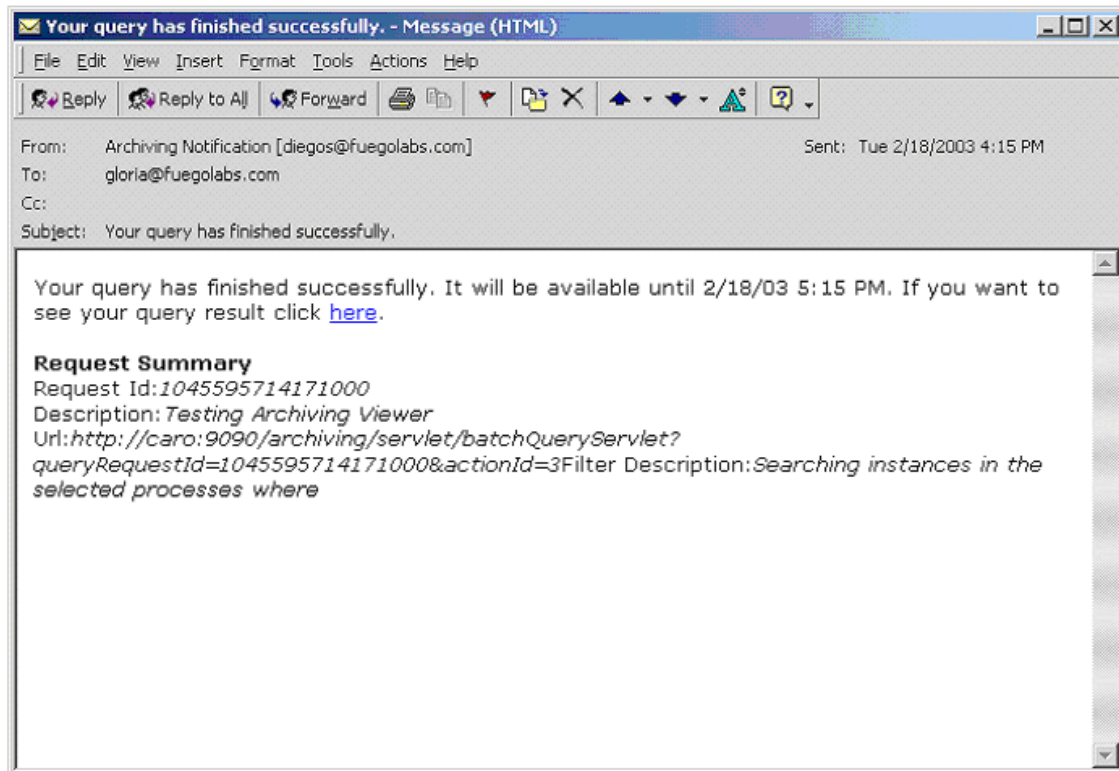
6. After submitting your query, you will be able to access to the query result both through the link available in the notification mail or the Query Status panel. The query has a unique request id, through which the result of the query is available.

Notification Mail


The notification email will be received in the e-mail address specified in the Batch request section. The query has a unique request id through which the result of the query is available. No login is required to access the query results, as the users do not require a login to use the Archive Viewer. The request id of the query has the relation with the access configuration to the archiving database on which the query was created.

The properties used to compose this email are defined in the archiving.properties file and include the:

- Sender address, taken from the property: `fuego.archiving.mailFrom`.
- SMTP Server used to send the mail, taken from the property: `fuego.archiving.smtpServer`.
- URL to which the link will be established, taken from the property: `fuego.archiving.archivingURL`.



Note

 The From email and URL are the values set in the example properties file mentioned the Archiving Viewer, Required Configuration section above.