talend*
*open data solutions

Community Edition

# Talend MDM Web User Interface 3.X

# User Guide

# Version 3.2_a

Adapted for **Talend MDM Web User Interface** 3.2 Web Interface User Guide release.

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# Talend MDM
# Web User Interface Community Edition
# User Guide ..... i


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# Preface

## Purpose

This User Guide explains how to manage **Talend MDM Web User Interface** functions in a normal operational context.

Information presented in this document applies to **Talend MDM Web User Interface** releases beginning with **3.2.a**.

## Audience

This guide is for data stewards and business users of **Talend MDM Web User Interface**.

The layout of GUI screens provided in this document may vary slightly from your actual GUI.

## Typographical conventions

This guide uses the following typographical conventions:

- text in **bold:** window and dialog box buttons, field names, keyboard keys, menus and menu items,
- text in **[bold]:** titles of dialog boxes, wizard and windows,
- text in `courier`: system parameters typed in by the user,
- text in *italics*: file, schema, column, row, variable names and text typed in by users,
- The icon indicates an item that provides additional information about an important point. It is also used to add comments related to a table or a figure,
- The icon indicates a message that gives information about the execution requirements or recommendation type. It is also used to refer to situations or information the end-user need to be aware of or pay special attention to.

## Legacy terminology

Please be aware that **Talend** is currently in the process of adopting clear terminology that better represent the structure of **Talend MDM Web User Interface**. Therefore, there may be some inconsistency in the terms used in this documentation and the terms shown on the screen captures.

The table below lists the terms that have been changed in this version of **Talend MDM Web User Interface** documentation:

| Legacy term | Talend term |
|---|---|
| Data cluster | Data container |
| Transformer | Process |
| Routing rule | Trigger |
| Universe | Version |
| Concept | Entity |
| Data object | Entity |
| Item | Record |
| Workbench | Studio |
| Subscription engine | Event Manager |
| Schematron | Validation rule |

## History of changes

The table below lists the changes made in the 3.2 release of the **Talend MDM Web User Interface** User Guide.

| Version | Date | History of Change |
|---|---|---|
| v3.2_a | 2010/10/25 | New Web Interface User Guide |

## Feedback and Support

Your feedback is valuable. Do not hesitate to give your input, make suggestions or requests regarding this documentation or product and find support from the **Talend** team, on **Talend**'s Forum website at:

http://talendforge.org/forum

# CHAPTER 1
# Introducing Talend MDM

This chapter introduces Master Data Management as the means to manage shared data in an enterprise

It gives an overview of **Talend MDM**, a model-driven solution introduced by **Talend**. **Talend MDM** has been specifically developed to address the challenges of governing, creating and managing master data for all types of organizations where data is hosted under various formats in various systems and can be extremely volatile.

## 1.1 Introducing Master Data Management

Most large enterprises have a heterogeneous application portfolio, with fragments of often inaccurate, incomplete and inconsistent data residing in various application silos. Companies wanting a consistent view of their customer base often struggle to reconcile data across numerous operational systems. These issues cause intelligent decision making to be difficult. The heart of these problems lies in the handling of shared data.

Master Data Management (MDM) is a comprehensive method of enabling an enterprise to link all of its critical data to one "master file" that provides a common point of interest. Examples of master data include customer, product, asset, location, employee, organizational unit. Data that is not shared between functions within an organization is not master data.

MDM has emerged as a means to more efficiently manage shared data, eliminate redundancy, and create the elusive "single version of the truth." Unlike most Enterprise Resource Planning (ERP) systems which are often monolithic, expensive and rigid, MDM is able to offer both consistency and agility, therefore providing a major competitive advantage and return on investment (ROI).

As businesses strive to dramatically reduce costs, meet compliance reporting mandates, deliver increased sales, and provide superior service to customers and suppliers, analysts have declared MDM as a solution which will significantly contribute to these business priorities.

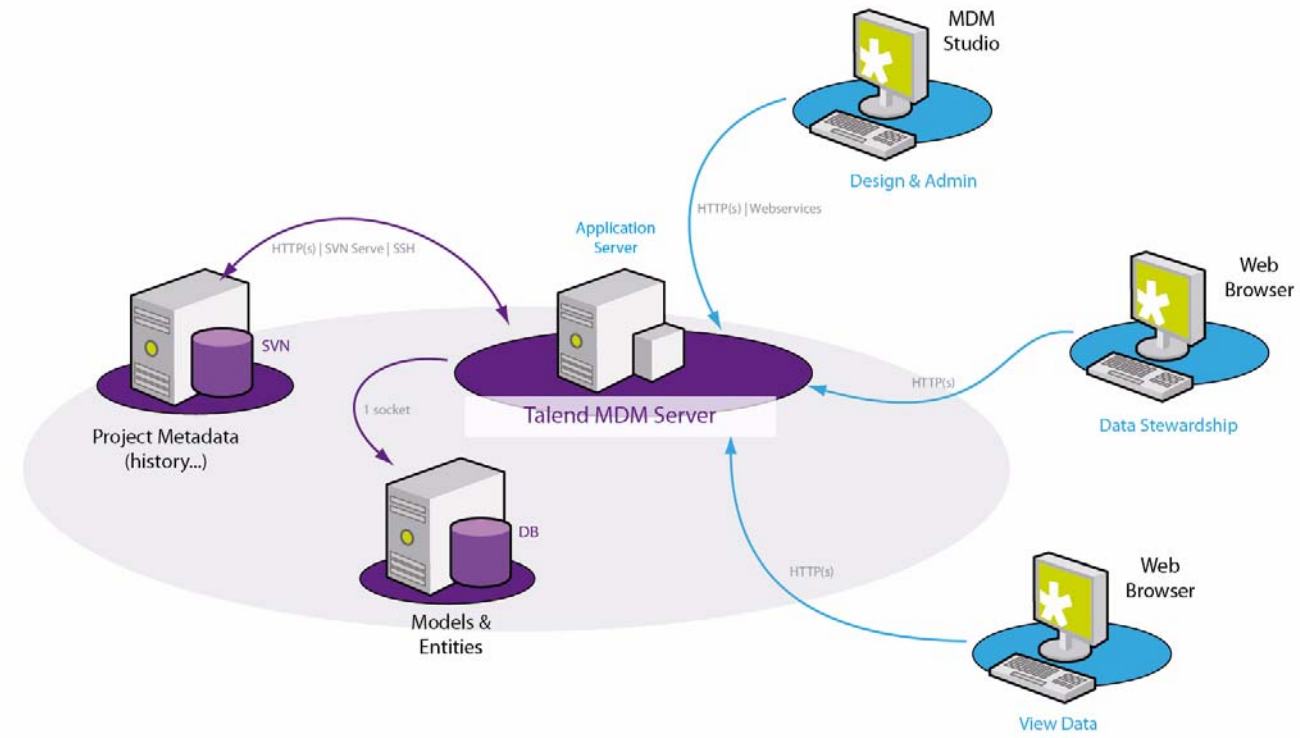
## 1.2 Overview of Talend MDM

Through the acquisition of Xtensis, **Talend** has a great foundation for its MDM product: **Talend MDM**. This product has all the core features a user needs for an MDM application: advanced modeling, model-driven dynamic web interface, full-text search, event triggering etc.

**Talend MDM** is a model-driven, non intrusive solution easily adaptable to specific business needs and it is quick to implement. It provides a complete set of features for mastering, governing and integrating data throughout the enterprise.

**Talend MDM** groups all master data of the company in a central hub. This standardized repository provides, via the use of Data Models, the prerequisites against which data and updates are validated.

The chart below illustrates the main building blocks of **Talend MDM**.




The list below describes the main building blocks of **Talend MDM**:

- The MDM Studio - where administrators can setup and operate a centralized master data repository. They can build data models that employ the necessary business and data rules to create single master copy of the master data. This master data will be propagated back to target and source systems.
- Central XML repository - where the master data is stored, with the ability to index any XML document.
- Shared repository - based on an SVN server, this is where project metadata is stored.
- The web-based interface - where business users and data stewards can search, display or edit master data handled by the MDM Studio.

Building blocks available to your use differ depending on the MDM edition you have, **Community** or **Enterprise**.

## 1.3 User interfaces for data governance and data stewardship

**Talend MDM** provides the processing layers that ensure the right people have the right tools to centrally model and manipulate master data. This key capability comprises the relevant features involved in master data governance and stewardship.

Data governance is the process of defining the rules that master data has to follow. Data stewardship is the process of making sure that the data follows those rules. This means that it is necessary to have both a governance function, to demonstrate that the right controls are in place, and a stewardship function, to ensure that the controls are enforced.

In **Talend MDM**, master data governance and stewardship processes are available through two different user interfaces. The first is an administration tool called **Talend MDM Studio**. The second is a web-based interface called **Talend MDM Web User Interface**.

Users of **Talend MDM Studio** can set the governance rules that include who can read, create, update, and delete data; which validity models are required for data; which privacy policies are enforced; and which recovery provisions are required, to name a few. For more information about available administration tasks, see *Master Data Management procedures* in **Talend MDM Studio** Administrator Guide.

Users of **Talend MDM Web User Interface**, can carry out any manual intervention necessary to make sure that the master data is clean, consistent, and accurate. For more information, see *Data Stewardship Procedures on page 13*.

# CHAPTER 2
# Getting Started With the Web User Interface

This chapter introduces **Talend MDM Web User Interface**. It provides a short description of the Web User Interface and guides you through the basics for accessing it.

## 2.1 Logging in to the Web User Interface

**Talend MDM Web User Interface** is a web-based application that enables the business user or the data steward to view, retrieve and manipulate master data stored in the central XML repository.

Before logging on to **Talend MDM Web User Interface**, check that the following have been carried out:

- The remote repository has been installed on dedicated DB and SVN servers,
- The web application has been deployed on a Java application server (JSP servlet container),
- The web server URL has been provided to you by the MDM administrator allowing you to open the server authentication page,
- Either a login and password have been provided to you by the MDM administrator or a manager has allowed you access to **Talend MDM Web User Interface**.
- You have an Internet browser such as Internet Explorer or Mozilla Firefox for example.

For more information regarding the installation requirements, check the relevant Readme files included in **Talend MDM Studio** and **Talend MDM Web User Interface** archives and the **Installation Guide** of **Talend MDM** that is sent with the license key.

To log in to **Talend MDM Web User Interface**, do the following:

- Open your web browser.
- Enter the web server URL in the web browser and then click → to open the authentication page of the address you set in the web browser.
  The web server address is structured as follows:
  `-http://[server address]:8080/talendmdm/secure/`
  `-http://localhost:8080/talendmdm/secure/`

- On the authentication page, enter your log in and password in the corresponding fields.
- Click **Login**.
  Your web browser opens a page on the selected master data version.

From this page, you can view, retrieve and manage master data in the selected master data version. You can also carry out some management procedures using the different options in the **Menus** panel.

For detailed information about master data management procedures from **Talend MDM Web User Interface**, see *Data Stewardship Procedures on page 13*.

## 2.2 Describing the Web User Interface

**Talend MDM Web User Interface** is the interface for searching, displaying or editing master data handled by the MDM Studio.

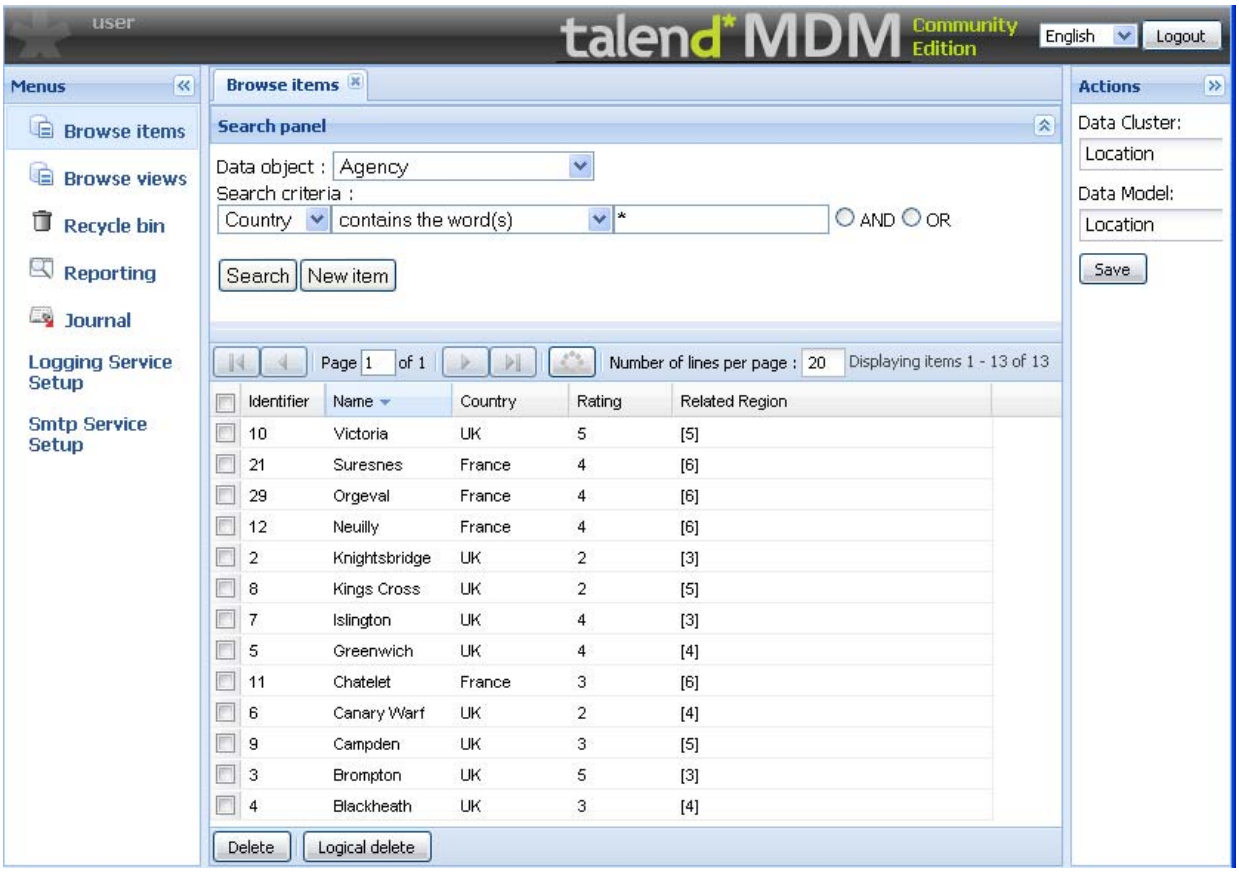
Users of the **Talend MDM Web User Interface** can carry out any manual intervention necessary to make sure that the master data is clean, consistent, and accurate.

### 2.2.1 The web page and navigation principles

The **Talend MDM Web User Interface** web page is divided into:

- a banner on top of the page which indicates the **Talend MDM** edition you are connecting to. A logout button and a language list are also displayed.
- a collapsible panel on the right which lists the data containers and data models created in **Talend MDM Studio**.

- a collapsible panel on the left which lists the menu items.
- a workspace in the center.




From the **Actions** panel, you can select the data container and data model you want to access. All viewable items or data records pertain to both a data container and a data model. For more information, see *Accessing data containers and data models on page 14*.

From the **Menus** panel, you can click any of the menu items to open a corresponding page. For more information, see *The Menus panel on page 11*.

The table below describes the available buttons and management options on the **Talend MDM Web User Interface**.

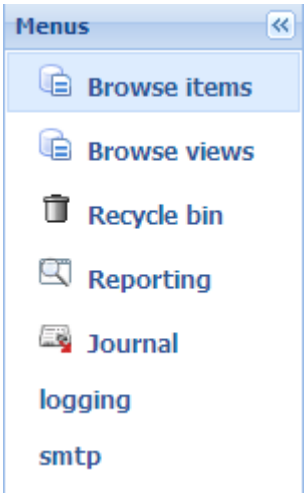
| Where | Option/Button | Description |
|---|---|---|
| Banner | Logout | Closes the current page and goes back to the authentication page of **Talend MDM Web User Interface**. |
| | English | Lists the languages in which you can display **Talend MDM Web User Interface**. |
| | | |

| Where | Option/Button | Description |
|---|---|---|
| **Menus** panel | Browse items | Allows users to search, add or edit items or data records in the data container selected. For further information, see *Browsing entities in a specific data container on page 15*. |
| | Recycle bin | Contains items which have been deleted using the **Logical delete** button at the bottom of the **Browse items** page. For further information, see *How to delete a data record from an entity on page 22*. |
| | Journal | Lists all logs on accessible entities. |
| | Reporting | Creates reports on specific entities and exports the report locally in an .xls file. |
| **Actions** panel | and | Shows or hides the **Actions** and **Menus** panels. |
| | Data Cluster | Lists the data containers which the user has the appropriate authorization to access. For further information, see *Accessing data containers and data models on page 14*. |
| | Data Model | Lists the data models which the user has the appropriate authorization to access. For more information, see *Accessing data containers and data models on page 14*. |
| | Save | Saves the selected data container and data model. |

## 2.2.2 The Menus panel

The **Menus** panel on the left hand side of the web page allows you to execute various tasks on master data pertaining to the selected data container.

The figure below illustrates an example of the **Menus** panel of the **Talend MDM Web User Interface**.



You can show or hide the **Menus** panel by clicking the and buttons located in the upper right corner of the panel. For detailed information on the management options listed in the Menus panel, see *Data Stewardship Procedures on page 13*.

### 2.2.3 The Web User Interface and the Studio

**Talend MDM Web User Interface** provides the processing layer to search, display or edit master data. However, all tasks that a business user or a data steward can do through the Web User Interface are defined within **Talend MDM Studio**.

Users of **Talend MDM Studio** can set the governance rules that will dictate who can read, create, update, and delete data; which validity models are required for data; and which recovery provisions are required, to name a few. For further information about available administration tasks, see *Master Data Management procedures* in **Talend MDM Studio** Administrator Guide.

Users of the **Talend MDM Web User Interface** can carry out any manual intervention necessary to make sure that the master data is clean, consistent, and accurate. For more information on the tasks a business user can do from the Web User Interface, see *Data Stewardship Procedures on page 13*.

# CHAPTER 3
# Data Stewardship Procedures

While **Talend MDM Studio** is the tool which centrally defines models for the master data, **Talend MDM Web User Interface** is the tool which validates actual data against these models. It is the responsibility of the data steward to make sure that the master data follows the governance rules defined in the Studio.

This chapter provides the information a data steward needs to manage master data assets in order to improve their reusability, accessibility, and quality.

## 3.1 Legacy terminology

Please be aware that **Talend** is currently in the process of adopting clear terminology that better represent the structure of **Talend MDM Web User Interface**. Therefore, there may be some inconsistency in the terms used in this documentation and the terms shown on the screen captures.

The table below lists the terms that have been changed in this version of **Talend MDM Web User Interface** documentation:

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| Data cluster | Data container |
| Transformer | Process |
| Routing rule | Trigger |
| Universe | Version |
| Concept | Entity |
| Data object | Entity |
| Item | Record |
| Workbench | Studio |
| Subscription engine | Event Manager |
| Schematron | Validation rule |

## 3.2 Accessing data containers and data models

Before you can query, extract and edit master data, you must specify:

- the data container that persists the master data you want to manage,
- the data model you want to use to validate master data against.

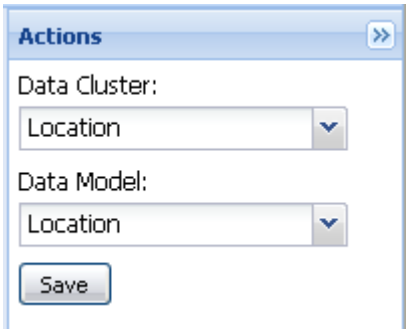
For further information on data containers and data models, see *Data Containers (Data Clusters)* and *Data Models* in the **Talend MDM Studio** Administrator Guide.

A collapsible **Actions** panel on the right hand side of the Web User Interface allows you to select a data container and a data model. Once the data container and the data model are selected in the Web User Interface, any creation or modification of master data will update the selected container.

**Prerequisite(s):** The MDM server is already launched. You have your authentication information to log in to **Talend MDM Web User Interface**.

To select a data container and a data model to access, complete the following:

- Log in to the Web User Interface.
- In the upper right corner of the web page, click the « button to show the **Actions** panel.




- From the **Data Container** list, select the required data container.
- From the **Data Model** list, select the required data model.
- Click on the **Save** button to save your selection.

You can now access the information pertaining to the selected data container using the **Menus** panel on the left hand side of the page. Any modification of master data will be validated against the selected data model; For further information on the menu options, see the following sections.

## 3.3 Browsing entities in a specific data container

In **Talend MDM Web User Interface**, the **Browse items** menu allows you to search, add or edit data records pertaining to a specific entity in the data container selected.

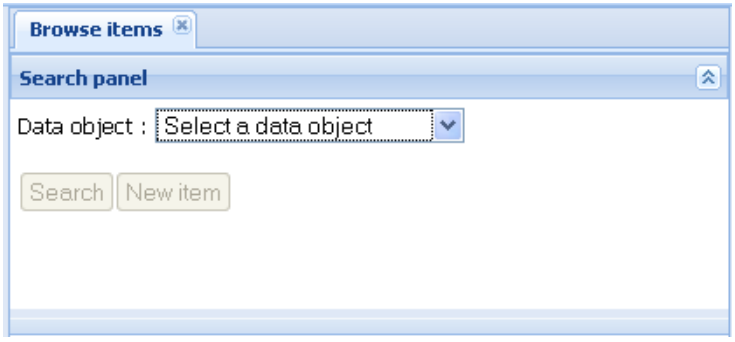
The following sections detail how to execute these tasks.

**Prerequisite(s):** The MDM server is already launched. You have selected the data container including the data records you want to manage. You have selected the data model against which you want to validate master data. For more information, see *Accessing data containers and data models on page 14*.

### 3.3.1 How to search entities in the selected data container

To search for data records in a specific entity, complete the following:

- Click on **Browse items** in the **Menus** panel.
  A page appears, in which you can select the entity of interest.



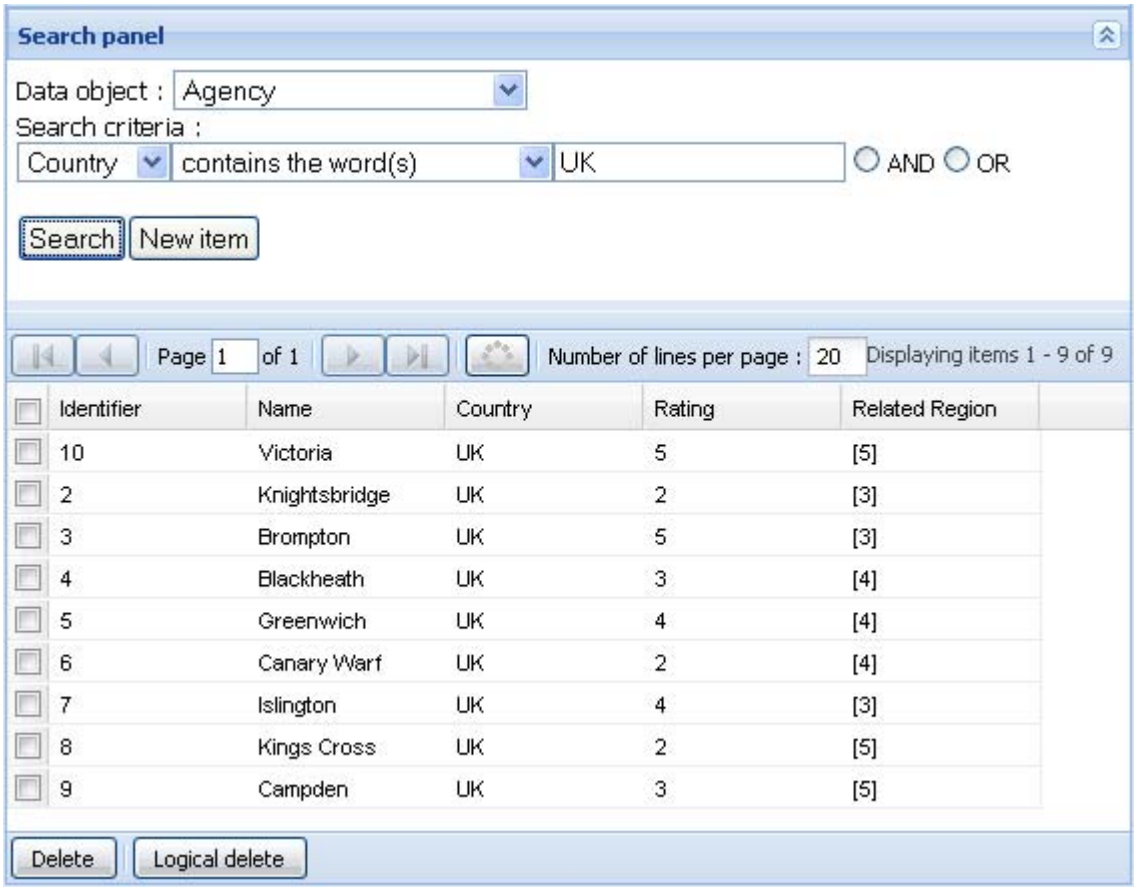

- In the **Data object** field, select the entity you want to search or write data in.

You can now search for data records pertaining to the selected entity. You can limit the results by using the **Search criteria** options.

The available search criteria depend on the parameters set in **Talend MDM Studio** when creating a view for the entity. For more information, see *Creating a View* in the Administrator Guide.

Consider, for example, searching the *Agency* entity for all data records which contain the word *UK*, in order to produce a list of all the agencies in the UK.

- From the drop-down list under **Search criteria**, select **Country**.
- In the drop-down list immediately to the right, select a search option, **contains the word(s)** for example.
- In the next field, type *UK*.
- Click on **Search** to display all agencies based in the UK.

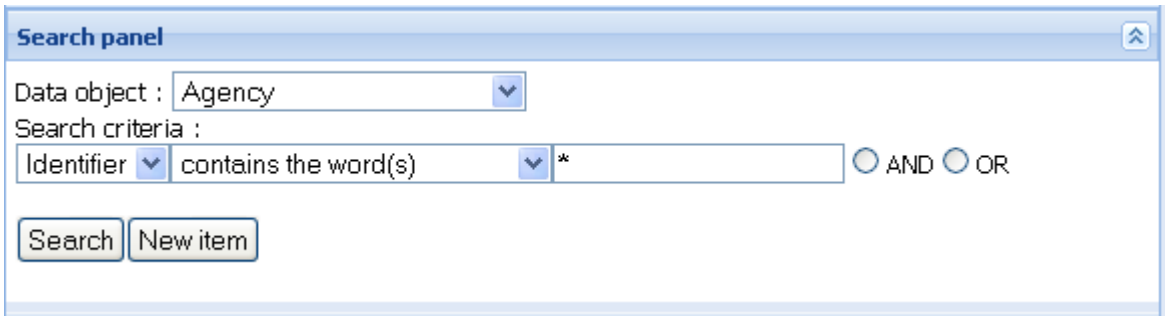



From this page, you can carry out various management procedures on any of the listed data records. For further information, see the following sections.

## 3.3.2 How to add a new data record to an entity

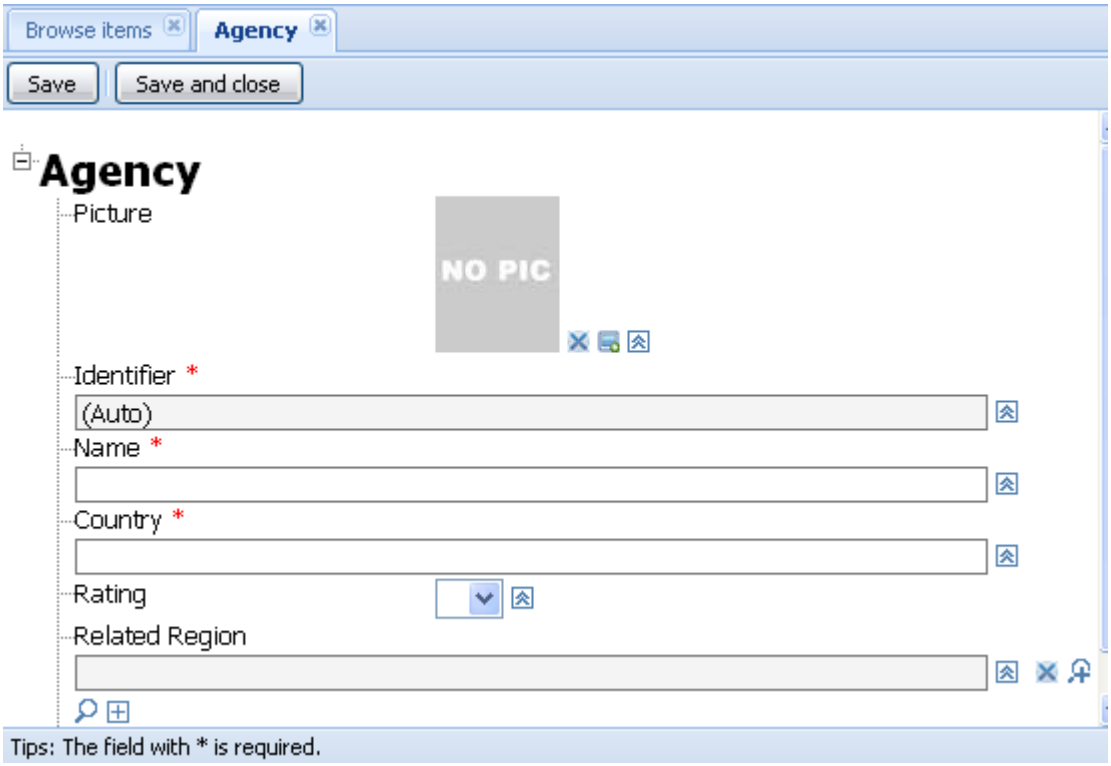
In the **Browse items** page, you can add new data records to a specific entity in the selected data container. The data records you add are validated against the data model you select before browsing the entity. For more information, see *Accessing data containers and data models on page 14*.

- Click **browse items** in the **Menus** panel to open a new page.



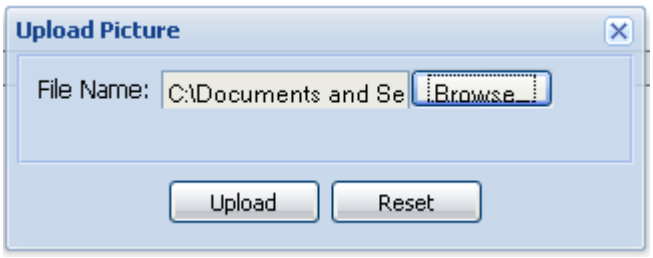

- In the **Data Object** field, select the entity you want to add a data record to.

- Click the **New item** button.
  A new page opens



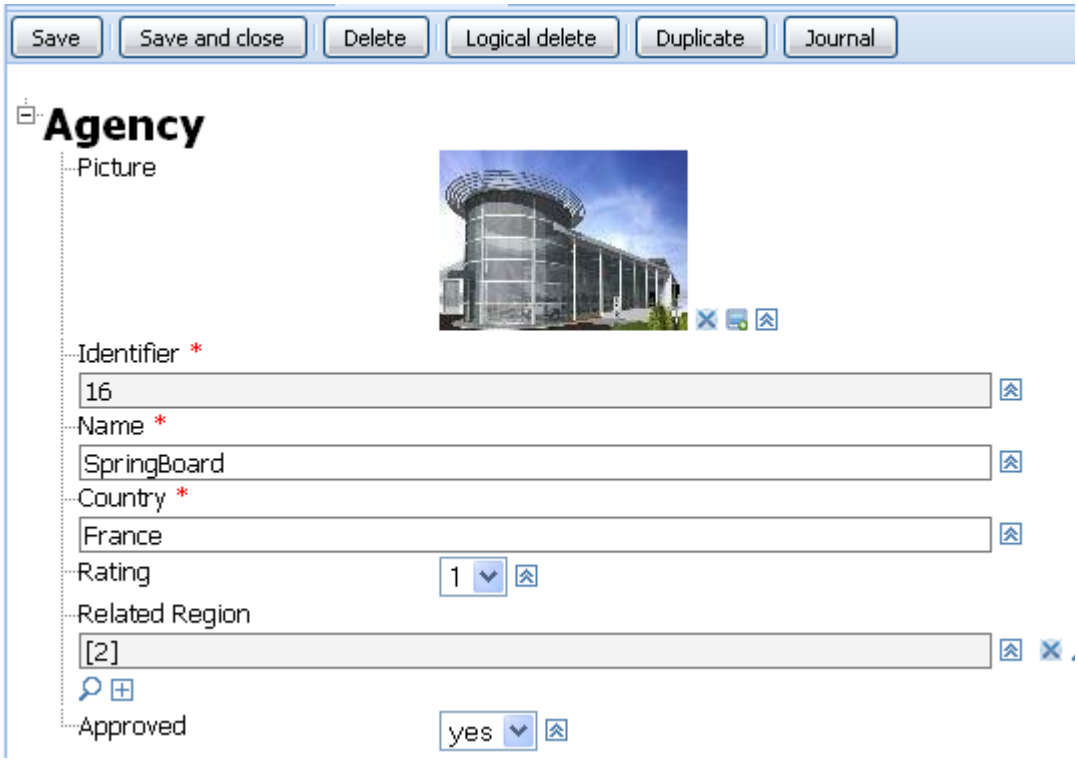

Now you can add a new data record to the *Agency* list, *SpringBoard* for example. The new record ID will be automatically generated when you save the new record. However, if you want to add a picture, ensure that you have one saved on your workstation.

- Type *SpringBoard* in the **Name** field.
- Type *France* in the **Country** field.
- Click on to upload a picture. A dialog box displays.



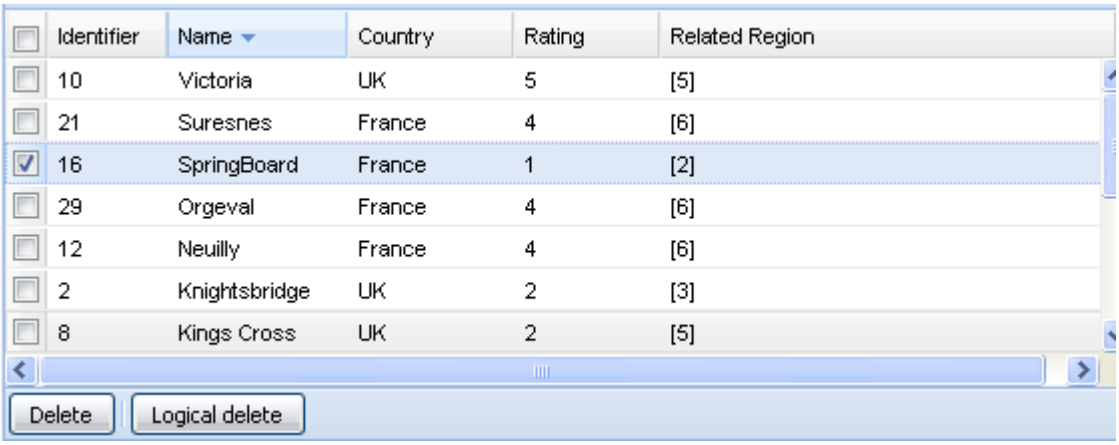

- Click **browse** to set the path to the picture on your workstation.
- In the window that appears, browse for and double-click on the picture you want to upload.
- Click **Upload**.
  A progress bar indicates how much of the upload operation has been completed, then a dialog box confirms that the picture has been uploaded.

- Click **OK** to close the dialog box.



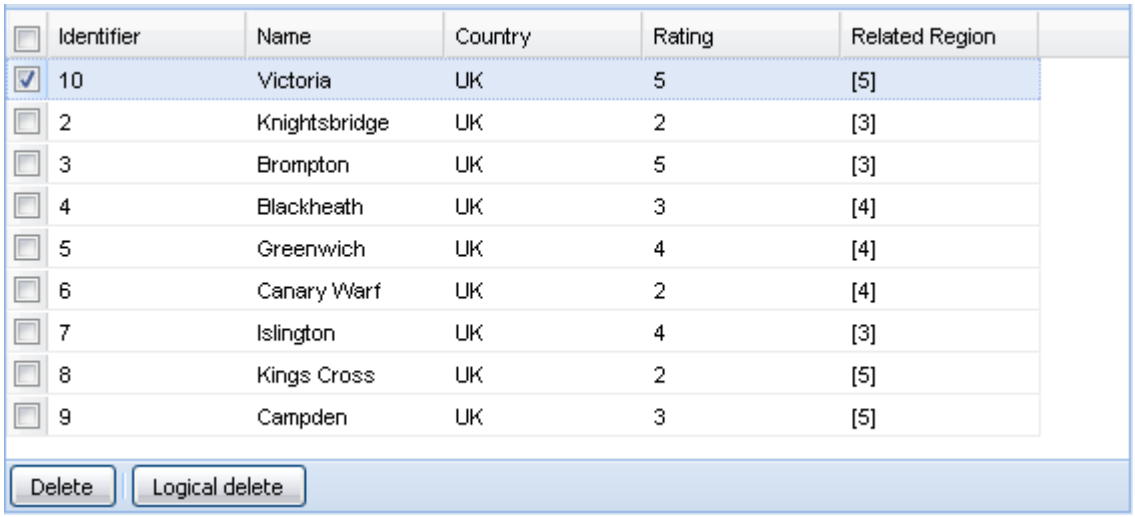

The new data with the new picture show in the open data record.

- Click **Save** or **Save and Close.**
  On the **Browse items** page, the record list now includes *SpringBoard*.




## 3.3.3 How to update a data record in an entity

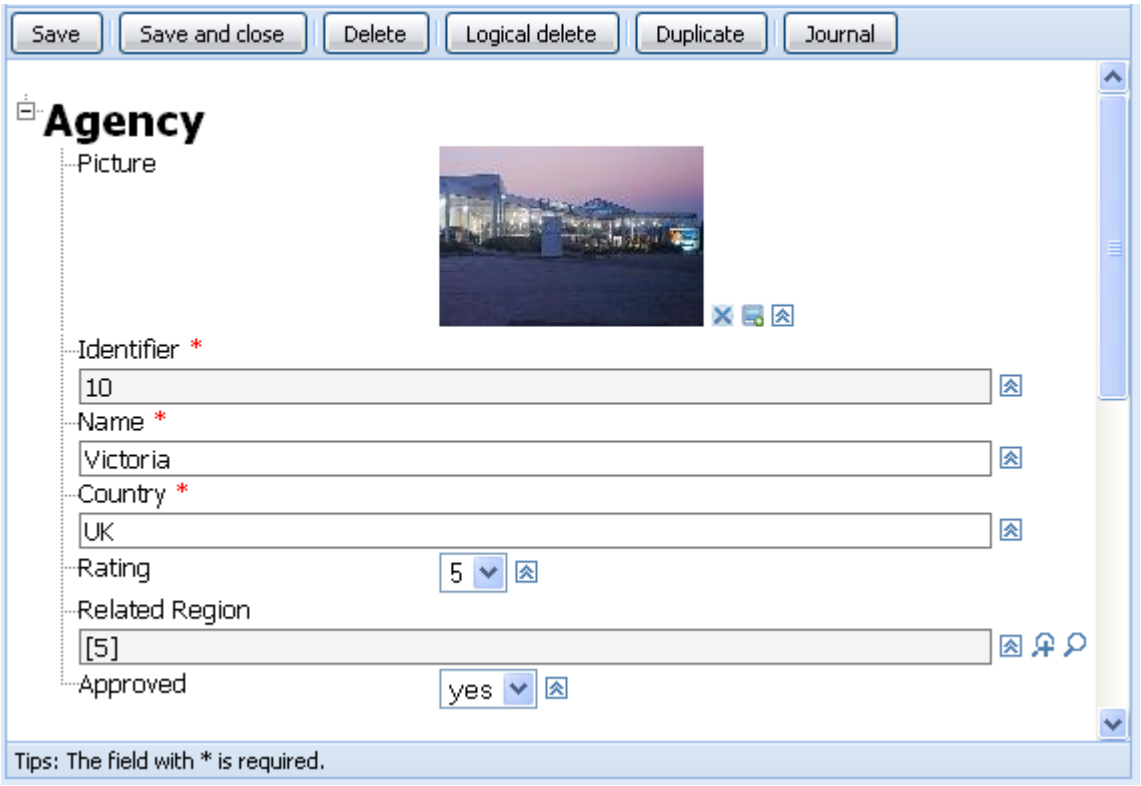
Follow the steps outlined in *How to search entities in the selected data container on page 15*, to list the entities of interest in the workspace.



| Identifier | Name | Country | Rating | Related Region |
|---|---|---|---|---|
| 10 | Victoria | UK | 5 | [5] |
| 2 | Knightsbridge | UK | 2 | [3] |
| 3 | Brompton | UK | 5 | [3] |
| 4 | Blackheath | UK | 3 | [4] |
| 5 | Greenwich | UK | 4 | [4] |
| 6 | Canary Warf | UK | 2 | [4] |
| 7 | Islington | UK | 4 | [3] |
| 8 | Kings Cross | UK | 2 | [5] |
| 9 | Campden | UK | 3 | [5] |

Delete | Logical delete

- Double-click on the data record you want to update.
  All the viewable attributes pertaining to the data record appear in the page:

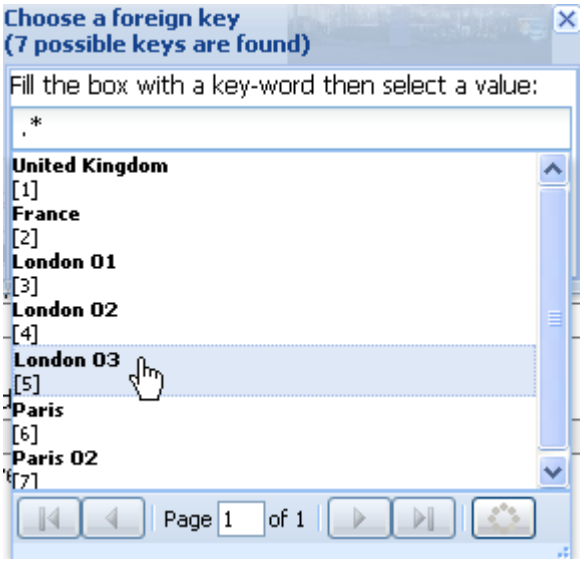


All the viewable attributes, associated with the open data record are based on the access rights of the role assigned to you by the administrator/manager.

You can now edit any of the modifiable attributes. Consider, for example, that you want to update the **Name** and **Related Region**.

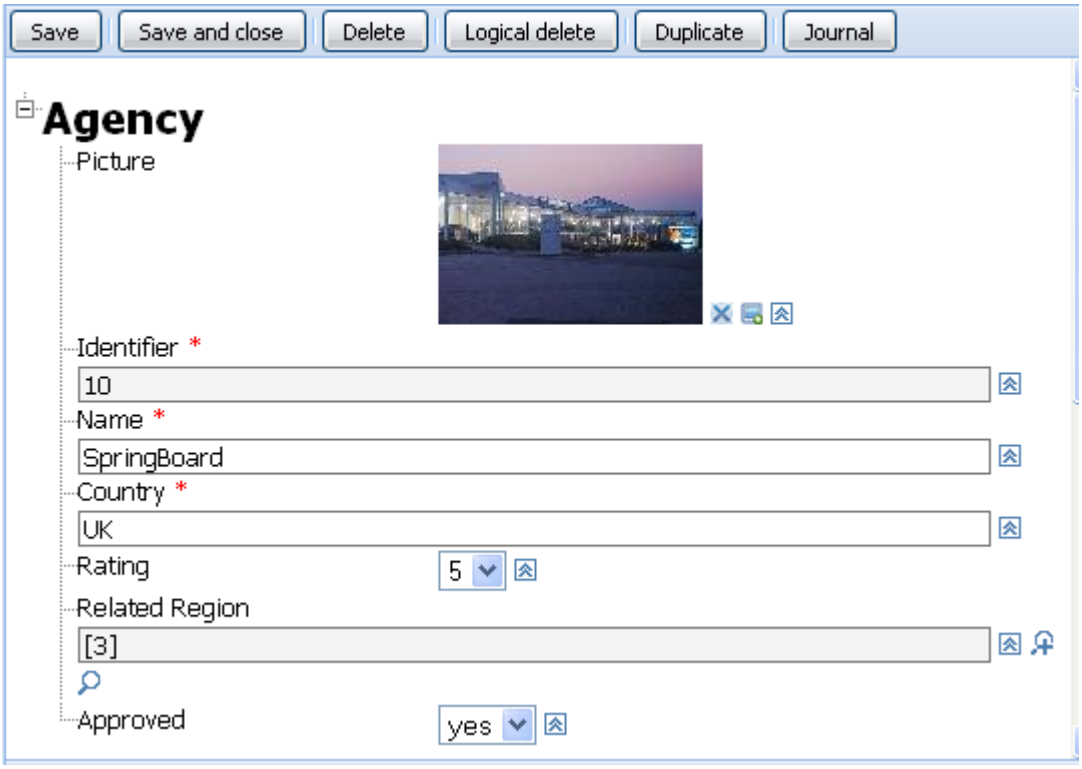
- In the **Name** field, replace *Victoria* with *SpringBoard*.

- To the right of the **Related Region** field, click on and select a new region in the open dialog box. The foreign key for the new region displays in the field.




The **Related Region** field is updated with the selected foreign key.

- In the agency page, click the **Save** button to save your changes.




The information in the data record have been modified accordingly.

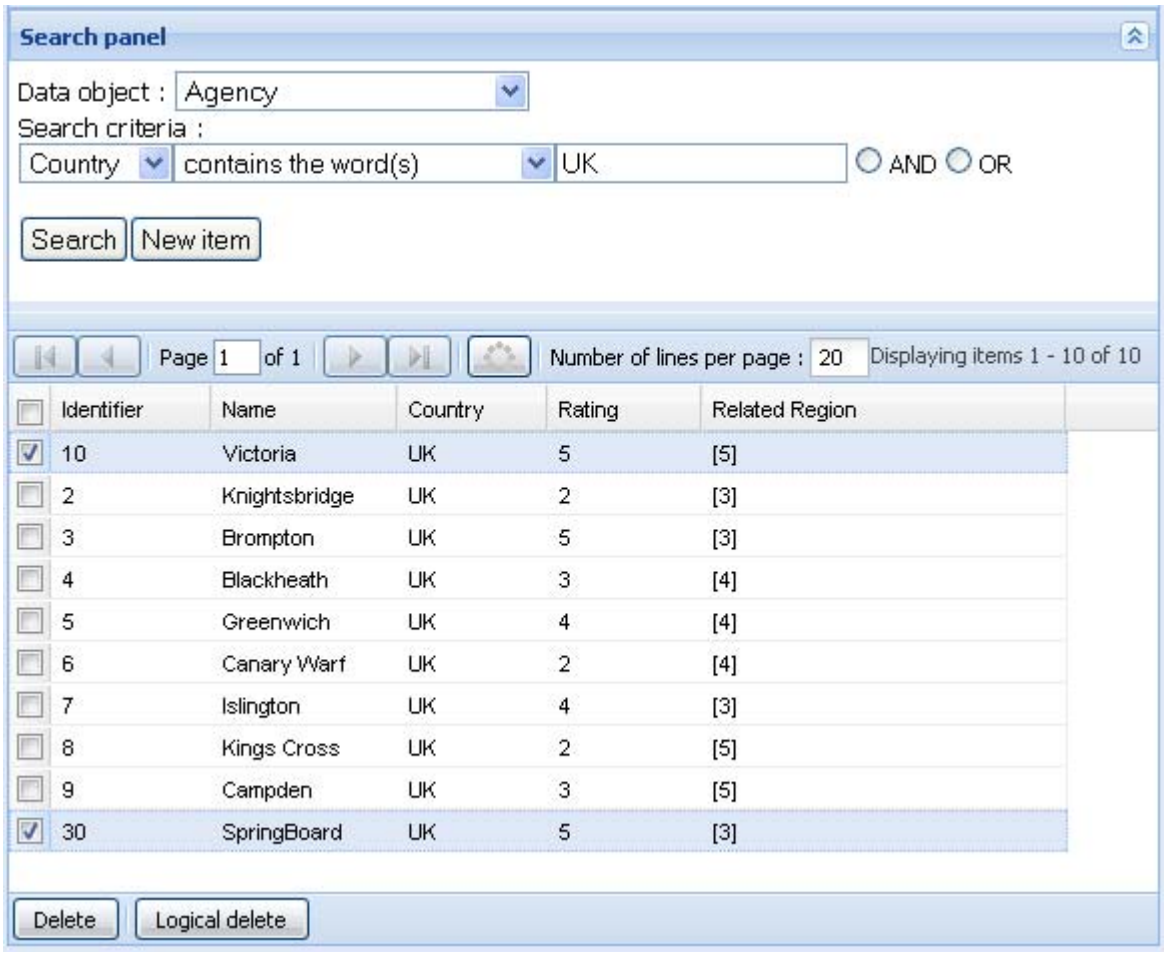
If you click the **Duplicate** button, a new data record is created which is identical to the open one except for the ID value. You can make modifications to the listed attributes and save these modifications to create a new data record.

### 3.3.4 How to delete a data record from an entity

You can either permanently delete data records from the selected entity or erase them from the data record list, which allows you to recover them at a later date.

To delete a data record permanently, complete the following:

- On the **Browse items** page, search for data records pertaining to the entity of interest.
  All searched data records are listed in the **Browse items** page. For more information, see *How to search entities in the selected data container on page 15*.
- Select the check box(es) next to the data record(s) you want to delete.



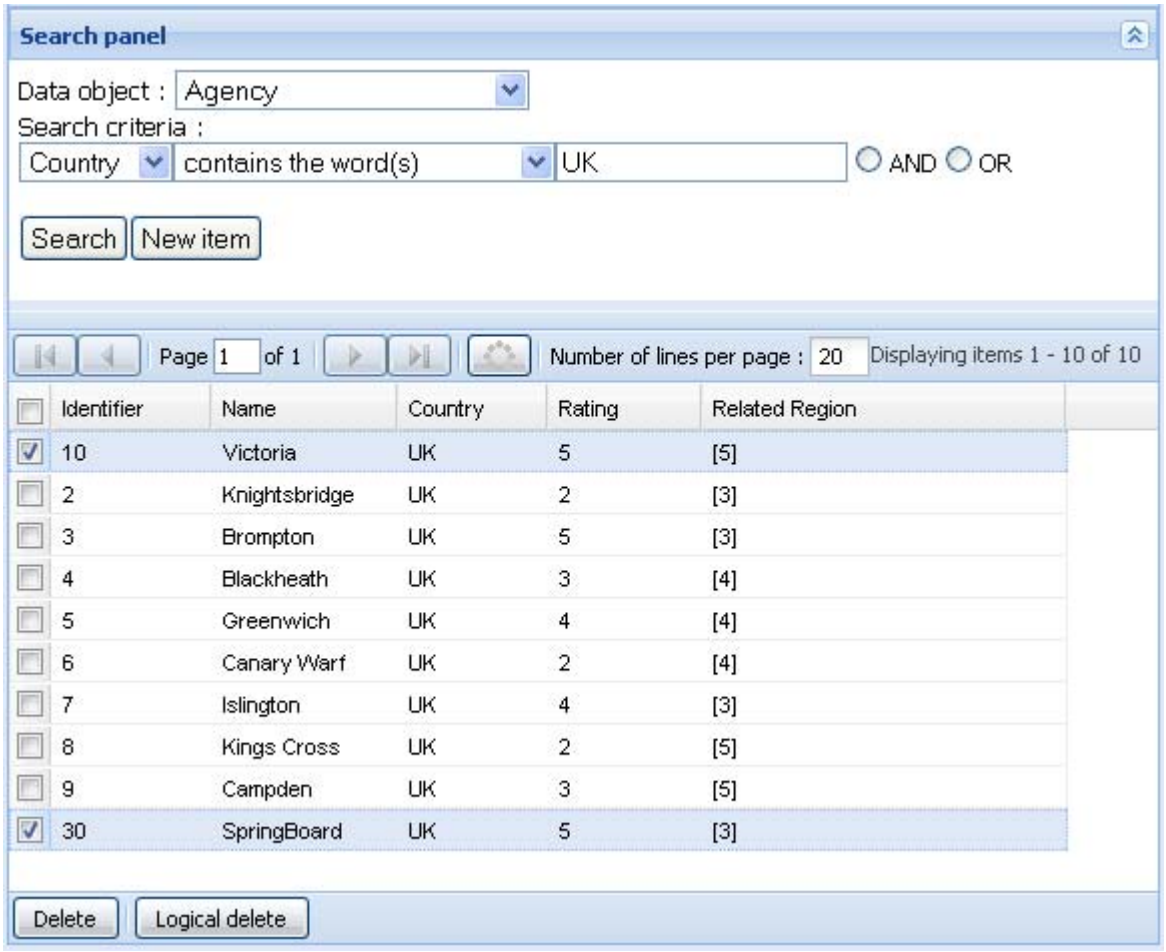

- Select **Delete** at the bottom of the page to permanently delete the data record(s).
  A dialog box displays to confirm the deletion operation.

*The* **Delete** *button removes data permanently. In case of doubt, use the* **Logical delete** *button.*

- Click **Yes** to confirm the operation and close the dialog box.
  The selected data records are deleted from the list and from the XML repository.

To delete a data record only from the record list, complete the following:

- On the **Browse items** page, search for data records pertaining to the entity of interest.
  All searched data records are listed in the **Browse items** page. For more information, see *How to search entities in the selected data container on page 15*.
- Select the check box(es) next to the data record(s) you want to delete.




- Click **Logical delete** at the bottom of the page to delete the data record(s) only from the list and to recover it/them at a later date, if required. For more information on recovering deleted data records, see *How to recover a deleted data record on page 24*.
  A dialog box displays asking for the path to deleted data records.
- Click **OK** to close the dialog box.
  The selected data records are erased from the data record list. Recovery copies are stored in the **Recycle bin**.

### 3.3.5 How to recover a deleted data record

In the recycle bin you can view data records which have been deleted using the **Logical delete** button. You can physically delete data records from the recycle bin or restore them to the entity they were deleted from.

To recover deleted data records, complete the following:

- In the **Menus** panel, click on **Recycle bin**.
  The following page displays.

- Click the tick button on the data record row you wish to restore.
  A dialog box displays prompting you to confirm the restore operation.
- Click **Yes**.
  The data record is restored from the recycle bin. You can now see the data record in the data record list.

To delete data records permanently from the recycle bin:

- In the **Recycle bin** page, click on ✘ next to the data record you want to delete.
  A dialog box displays to confirm the deletion operation.
- Click **Yes**.
  The data record is deleted permanently from the MDM server.

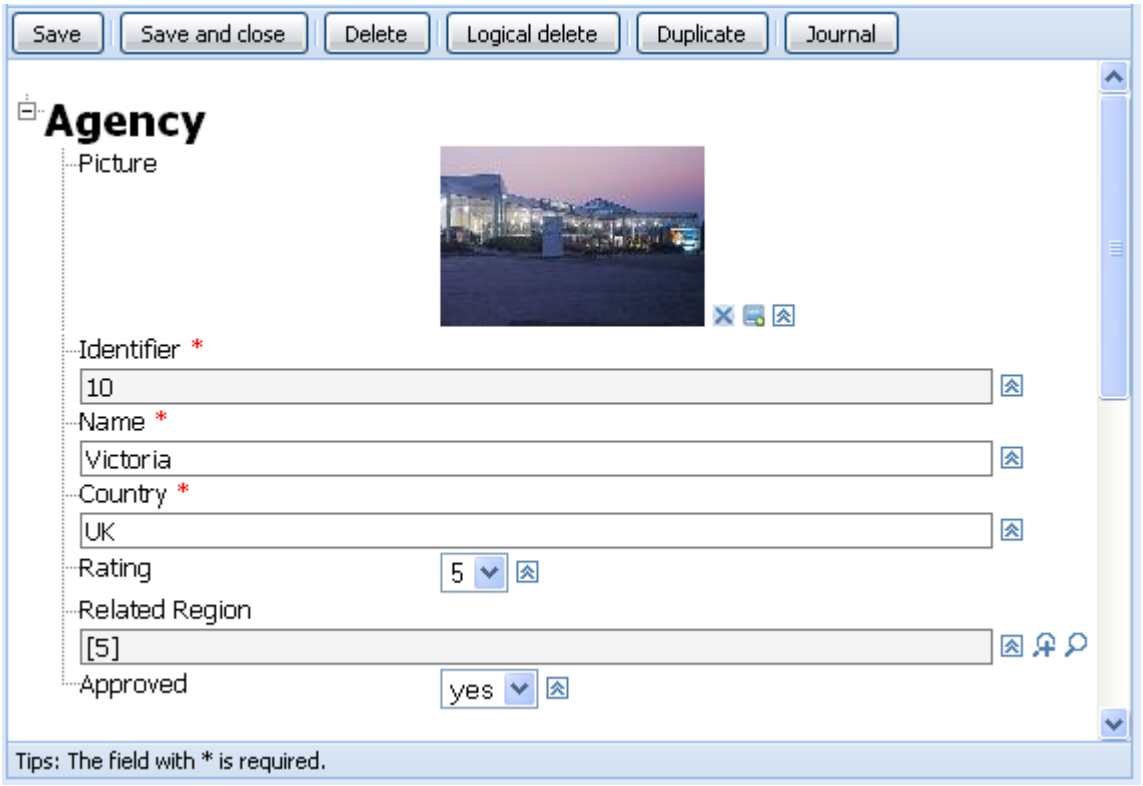
### 3.3.6 How to view the log file for a data record

The log file for an open data record lists descriptions of events associated with this specific data record.

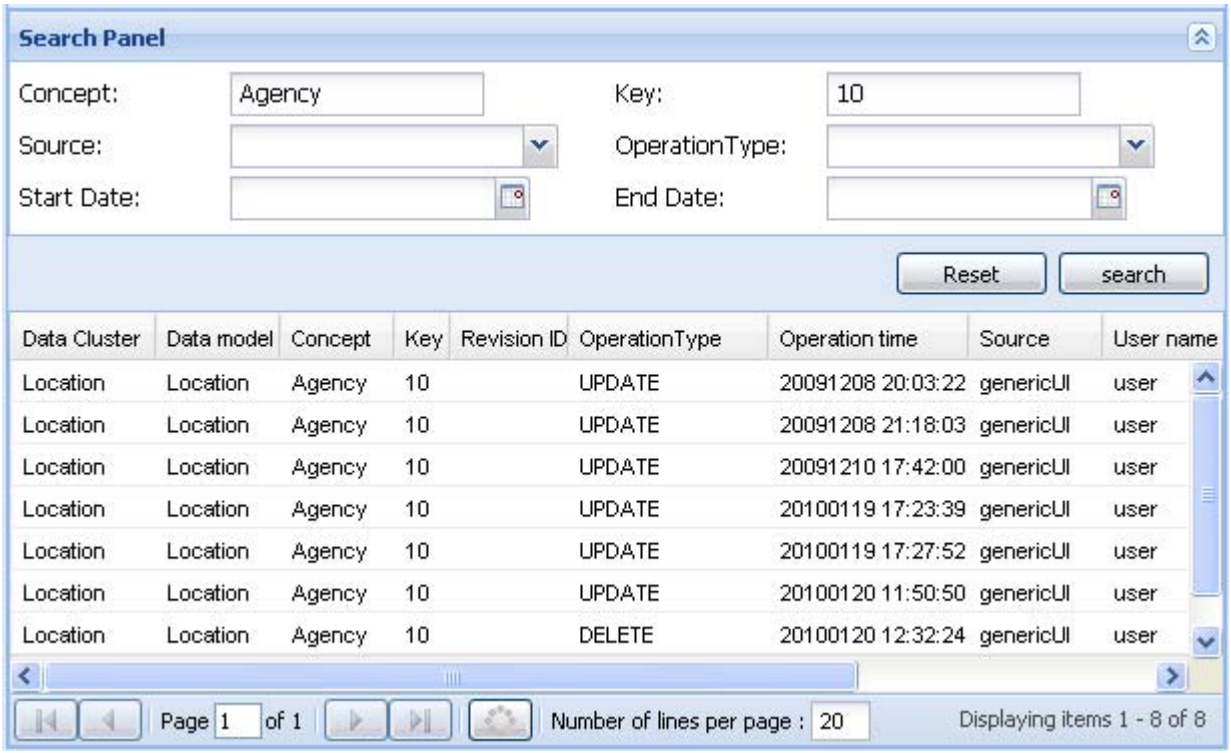
You can access a log file that lists information on all data records through the **Journal** menu option. For more information, see *Viewing log files for all data records on page 27*.

To view the log file for a specific data record, complete the following:

- On the **Browse items** page, search for data records pertaining to the entity of interest.
  All searched data records are listed in the **Browse items** page. For more information, see *How to search entities in the selected data container on page 15*.
- Double-click one of the listed data records to open a new page.



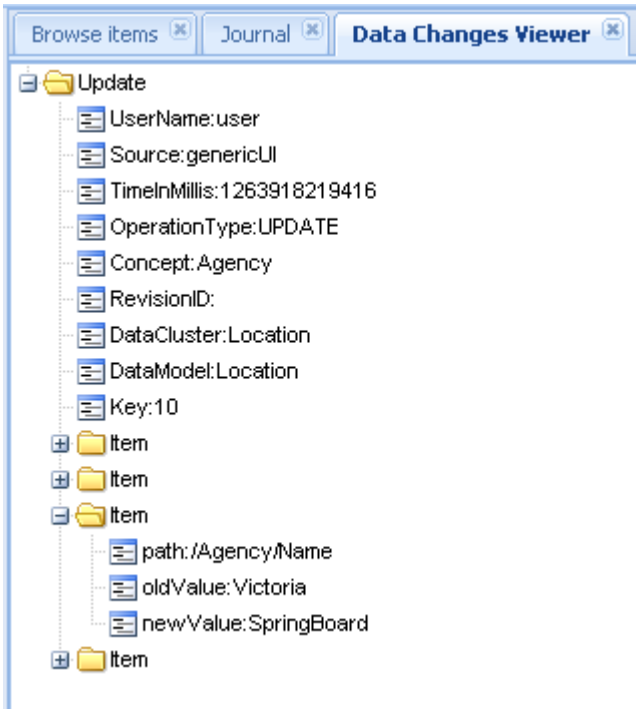

- Click **Journal** to open a new page.



Here you can view information on all the events associated with the selected data record.

To view a detailed description of one of the listed events, complete the following:

- In the **Journal** page, double-click on a row.
  A page called **Data Changes Viewer** opens.




Here you can view several pieces of information about the modified data record, including the source, type of change, the impacted data record and the relevant entity.

- Expand the **Item** folder(s) to view the values which have been changed.

The **Update** folder contains the same information as the record row you clicked on to open the **Data Changes Viewer** page. Each **Item** folder represents a value which was changed at the moment the specific record update took place. Therefore, if three item folders are displayed, then this means that three item values were changed.

The **Item** folders always contains the same information:

- path:/Entity/attribute,
- oldValue: old attribute value,
- newValue: new attribute value.

You can see the item information which has been updated. For example, an item name or description, as well as the old and new values linked to the item. In this case, you can see that the agency name changed from *Victoria* to *SpringBoard*.

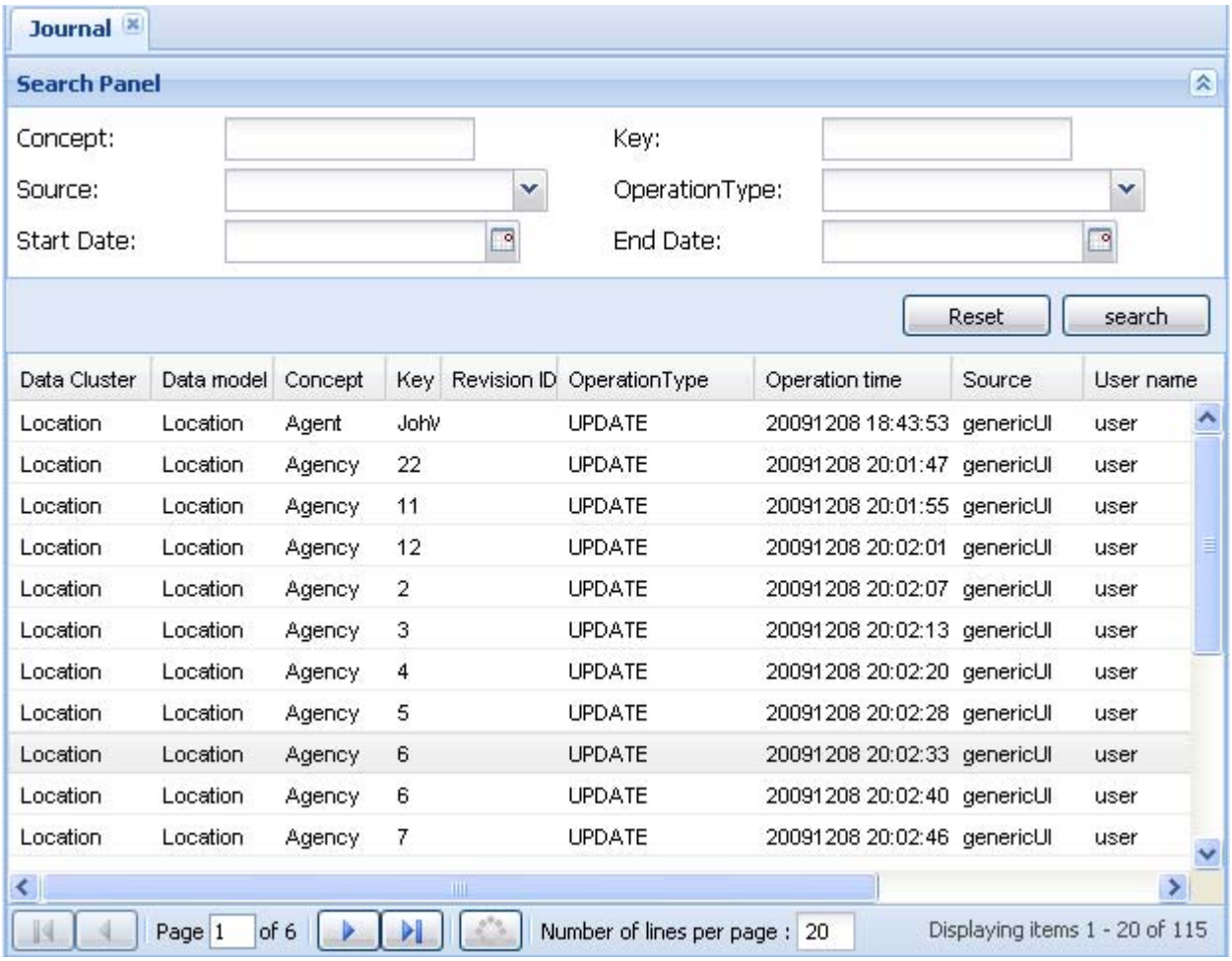
You can also view item events using the **Journal** option in the **Menus** panel. This is useful if you want to search for changes based on the source of change, operation type or date, rather than by specific item, for example. For further information, see *Viewing log files for all data records on page 27*.

## 3.4 Viewing log files for all data records

The log file lists descriptions of every event associated with each data record in the MDM hub. This page is useful if you want to search for changes based on the source, operation type or date, rather than by a specific data record, for example.

To create this view, complete the following:

- On the **Menus** panel, click **Journal**.
  A table of records appears in the new page, along with various search options.




You can limit the results by using the **Search criteria** options at the top of the page. For further information, see *How to search for specific logs on page 28*.

In the log table you can see a list of all the events concerning the data records in the MDM hub. The default column headings show you the following information concerning each data record:

| Column name | Description |
|---|---|
| Data Container | Name of the data container that pertains the data record. |

| Column name | Description |
|---|---|
| Data Model | Name of the data model against which the data record is validated. |
| Entity | Name of the business entity that pertains the data record. |
| Key | The primary key of the data record. |
| Revision ID | The identifier of the master data version that pertains the data record. |
| Operation Type | Type of operation carried out on the data record: either **UPDATE, DELETE** or **CREATE**. |
| Operation time | Date and time of the operation. |
| Source | Name of the source through which the data record modification took place, i.e. a **Talend** job, a business process, the Web User Interface (manually by a data steward), etc. |
| User name | Login name of the user who made the modification. |

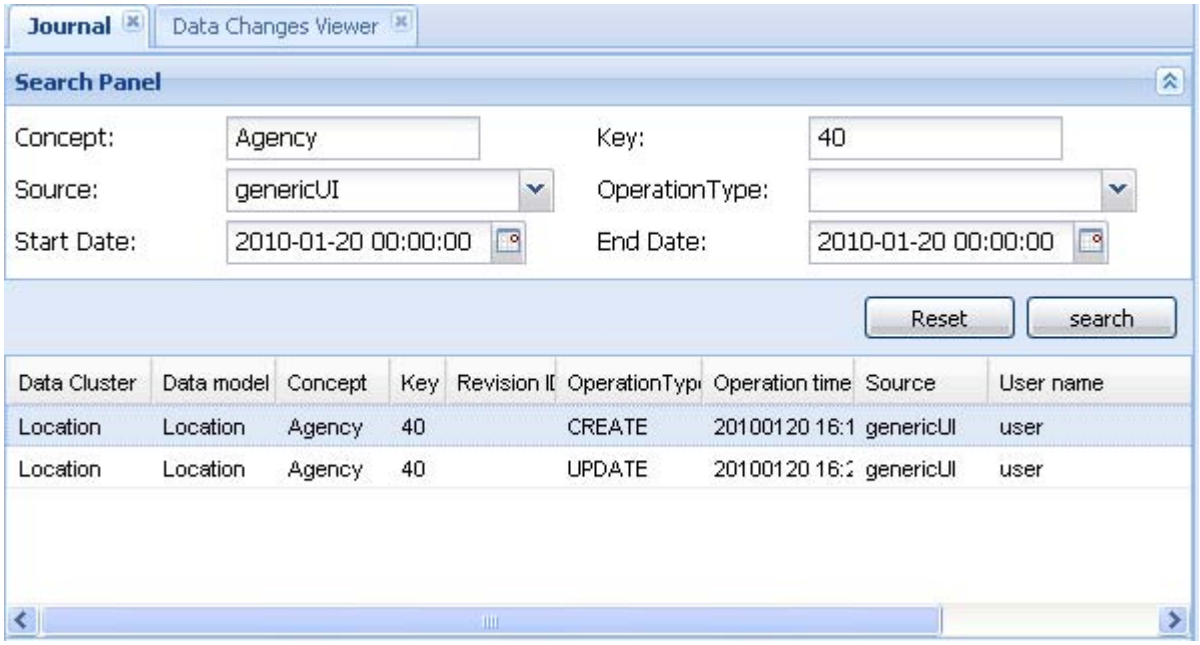
### 3.4.1 How to search for specific logs

The **Search Panel** at the top of the **Journal** page allows you to set various search criteria to narrow the results yielded.

- In the **Concept** field, type in the name of the entity you want to limit the search to.
- From the **Source** list, select the source of the modifications:
  **-genericUI**, that is **Talend MDM Web User Interface**,
  **-adminWorkbench**, that is **Talend MDM Studio**,
  **-dataSynchronization**.
- If you know the key which corresponds to a specific data record of interest, type it in the **key** field.
- From the **Operation Type** list, choose the type of event: **update**; **create**; or **delete**.

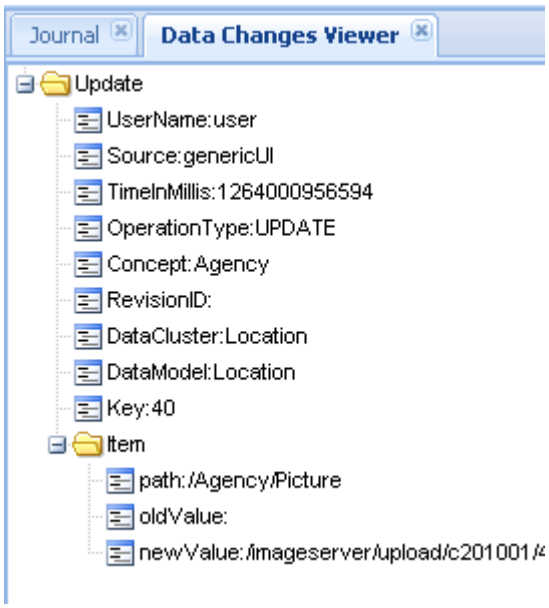
The **Start Date** and **End Date** options allow you to limit results to a specified period of time.

- Click on next to the **Start Date** field.
  A calendar appears.
- Select the relevant **Start Date** from the calendar.
- Click on next to the **End Date** field.
  A calendar appears.
- Select the relevant **End Date** from the calendar.
- Click the Search button on the bottom right corner of the search panel.
  The workspace displays the records which meet the specified search criteria.




Now that you have a list of the records which interest you, you can view the details of the changes which occurred.

- Double-click on a specific record of interest (anywhere on the row) to view the changes concerning that data record.
  The **Data Changes Viewer** page opens.




Here you can view several kinds of information including the source, type of change, the impacted data record, and the entity to which the data record belongs.

- Expand the **Item** folder(s) to view the values which have been changed.

The **Update** folder contains the same information as the record row you clicked on to open the **Data Changes Viewer** page. Each **Item** folder represents a value which was changed at the moment the record update took place. Therefore, if one item folder is displayed, then this means that one item value was changed.

The **Item** folders always contains the same information:

- path:/Entity/attribute,
- oldValue: old attribute value,
- newValue: new attribute value.

Here you can see which item attributes have been modified.

In order to clear the fields to set new search criteria and to narrow the results, click **Reset** in the **Journal** page. Enter the new search criteria and then click **Search**.

## 3.4.2 How to manage the log list display

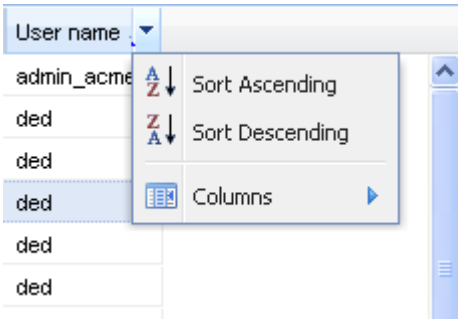
On the **Journal** page, you can choose to order the events by numerical or alphabetical order, for any of the columns. You can also show/hide one or more columns in the list.

To order the events list according to specific criteria, complete the following:

- Hover the cursor over a column name and click on the arrow which appears.
  A drop-down list appears
- In the drop-down list, select:

| Item | To... |
|---|---|
| **Sort Ascending** | arrange the list in an ascending order |
| **Sort Descending** | arrange the list in an descending order |
| **Columns** | display a drop-down list where you can select/clear the check box next to the column(s) you want to show/hide |

The figure below shows the options in the drop-down list.




To show or hide any of the columns:

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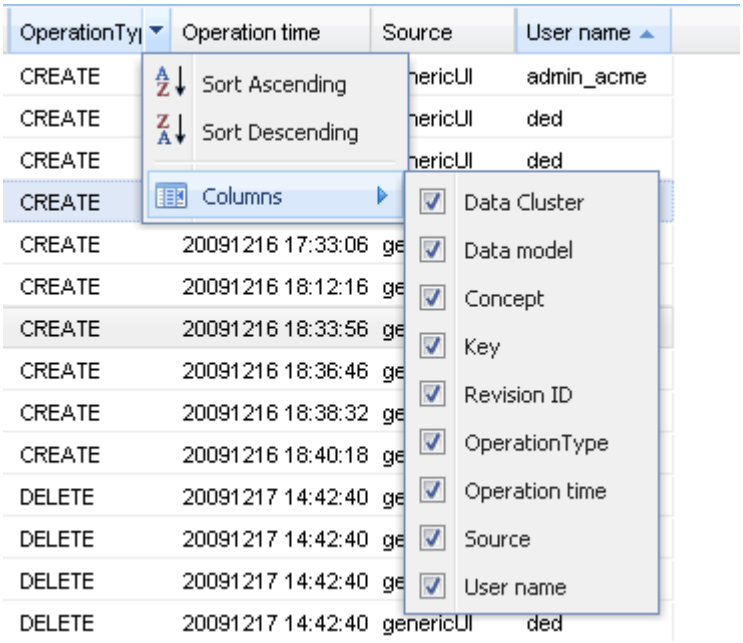
- Hover the cursor over any of the column headings and click on the arrow.
  A drop down menu appears.
- Select **Columns** from the drop down list.
  A list of all the column names appears




All of the visible columns have their corresponding check boxes selected in the list. Select or clear the check boxes next to the name of the column, according to the view you want to create.

**A**
Access data container and model ....14

**D**
Data governance ....5
Data record
add ....17
delete ....22
log file ....24
recover ....24
update ....19
Data stewardship ....5
DB server ....8

**E**
Entity
search ....15

**J**
Java application server ....8

**L**
Log file ....27
Login ....8

**M**
MDM Principles ....4
Menu panel ....11

**T**
Talend MDM ....4
Two user interfaces ....5

**U**
User Interface ....9