Data Sources window

OnCommand Workflow Automation

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Table of Contents

Data Sources window . . . 1
- Data Sources table . . . 1
- History table . . . 3
- Toolbar . . . 4
- New Data Source dialog box . . . 5
  - Data Source Configuration properties . . . 5
  - Command buttons . . . 7
- Edit Data Source dialog box . . . 7
  - Data Source Configuration properties . . . 7
  - Command buttons . . . 8

Data Sources window

The Data Sources window enables you to view, edit, and delete existing data sources, create new data sources, and acquire a data source. You can access this window by selecting **Settings**, and under **Setup** click **Data Sources**.

A data source is a read-only data structure that contains information about where the data in a specific database originates from. Data sources must be defined before environments can be polled. For example, a data source can be either an Active IQ Unified Manager database that contains information about a storage environment or a VMware database with information about a data center.

- Data Sources table
- History table
- Toolbar

Data Sources table

The Data Sources table lists the existing data sources. You can customize the table display by using the filtering and sorting features available for each column, as well as by rearranging the column order.

- enables or disables filtering for the entire table. A red "x" appears over the icon if filtering is disabled.
- Double-clicking clears and resets the filtering selections.
- on each column header enables you to filter based on the content of the columns. Clicking in a column allows you to filter on a specific item from the drop-down list or on all available items.
- Clicking the column header toggles between ascending and descending order of sorting. You can identify the applied sort order by the sort arrows (for ascending and for descending).
- To rearrange the location of columns, you can drag and drop columns to place them in any required order. However, you cannot hide or delete any of these columns.
- Clicking the **Search** filter text box allows you to search for specific content. In addition, you can search using supported operators for the applicable column type, Alphabetic or Numeric.

The following table lists the supported operators for alphabetic and numeric columns in the Data Sources table, available from the **Search** filter text box.

Alphabetic	Numeric
• Contains • Does not contain • Starts with • Ends with • Equals • Does not equal • Reset	• Equals • Does not equal • Less than • Greater than • Less than or equal to • Greater than or equal to • Between • Reset

The Data Sources table contains the following columns:

- **Name**

  Displays the name of the data source.

- **Data Source Type**

  Displays the data source type.

- **Host Name**

  Displays the host name or IP address of the data source.

- **Scheme**

  Displays the caching scheme associated with the data source. For example, a VM caching scheme contains data that is relevant to your virtual environment such as virtual machines, hosts, and datastores. The relevant scheme information is obtained from the data source.

- **Interval (minutes)**

  Displays the interval (in minutes) between two consecutive acquisitions of a data source.

- **Start Time**

  Displays the date and time when the data acquisition process was started.

  Click the calendar icon in the **Search** filter text box to search for data sources with a specific start date.

- **Duration (seconds)**

  Displays the time (in seconds) that it takes to process the last data acquisition from the data source.

- **Status**

  Displays the status of the current data acquisition process (if any) or the last data acquisition process. The status options include the following:

  - All
  - Aborting
  - Canceled
  - Completed
  - Failed
  - NoAcquisition
  - Obsolete
  - Pending
  - Executing
  - Scheduled

- **Message**

Displays an error message when the data acquisition process encounters and error and stops.

History table

The History table displays in the header the name of the data source that was selected in the Data Source table, and lists the details of each data acquisition process for the selected data source. The list of processes is updated dynamically, as the data acquisition processes occur. You can customize the table display by using the filtering and sorting features available for each column, as well as by rearranging the column order.

- enables or disables filtering for the entire table. A red "x" appears over the icon if filtering is disabled.
- Double-clicking clears and resets the filtering selections.
- on each column header enables you to filter based on the content of the columns. Clicking in a column allows you to filter on a specific item from the drop-down list or on all available items.
- Clicking the column header toggles between ascending and descending order of sorting. You can identify the applied sort order by the sort arrows (for ascending and for descending).
- To rearrange the location of columns, you can drag and drop columns to place them in any required order. However, you cannot hide or delete any of these columns.
- Clicking the **Search** filter text box allows you to search for specific content. In addition, you can search using supported operators for the applicable column type, Alphabetic or Numeric.

The following table lists the supported operators for alphabetic and numeric columns in the History table, available from the **Search** filter text box.

Alphabetic	Numeric
• Contains • Does not contain • Starts with • Ends with • Equals • Does not equal • Reset	• Equals • Does not equal • Less than • Greater than • Less than or equal to • Greater than or equal to • Between • Reset

The History table contains the following columns:

- **ID**

  Displays the identification number of the data acquisition process.

  The identification number is unique and is assigned by the server when it starts the data acquisition process.

- **Start Time**

  Displays the date and time when the data acquisition process was started.

  Click the calendar icon in the **Search** filter text box to search for data acquisition processes started on a

specific date.

- **Duration (seconds)**

  Displays the length of time (in seconds) of the last acquisition process from the data source.

- **Planned Acquisition**

  Displays the scheduled date and time for the data acquisition process.

  Click the calendar icon in the **Search** filter text box to search for data acquisitions scheduled for a specific date.

- **Scheduling Type**

  Displays the type of schedule. The schedule types include the following:

  - All
  - Immediate
  - Recurring
  - Unknown

- **Status**

  Displays the status of the current data acquisition process (if any) or the last data acquisition process. The status options include the following:

  - All
  - Aborting
  - Canceled
  - Completed
  - Failed
  - Obsolete
  - Pending
  - Executing
  - Scheduled
  - NoAcquisition

- **Message**

  Displays a message about the error that was encountered during the data acquisition process, when the process stopped and could not continue.

Toolbar

The toolbar is located above the column headers of the Data Sources table. You can use the icons in the toolbar to perform various actions. You can also perform these actions by using the right-click menu in the window.

- **(New)**

  Opens the New Data Source dialog box, which enables you to add a new data source.

- **(Edit)**

  Opens the Edit Data Source dialog box, which enables you to edit the selected data source.

- **(Delete)**

  Opens the Delete Data Source confirmation dialog box, which enables you to delete the selected data source.

- **(Acquire Now)**

  Initiates the acquisition process for the selected data source.

- **(Reset Scheme)**

  Opens the Reset Scheme confirmation dialog box. This dialog box enables you to reset the cache storage for the selected scheme. The cache is reset during the next data acquisition process.

  The reset process deletes all the cached data, including all the tables. The entire cache is built from start during the next data acquisition process.

New Data Source dialog box

The New Data Source dialog box enables you to add a new data source.

Data Source Configuration properties

- **Name**

  Enables you to specify a name for the data source.

- **Data source type**

  Enables you to select the data source type—for example, Active IQ Unified Manager - 6.0 (MYSQL).

  When you select a data source type, the port, scheme, user name, password, interval (minutes), and timeout (sec) fields are populated with data.

  If you want to execute OnCommand Workflow Automation (WFA) data protection workflows from an Active IQ Unified Manager server, you must set up WFA in the Active IQ Unified Manager server.

  For more information, see the *OnCommand Unified Manager Online Help*.

- **Host name**

  Enables you to specify the host name or IP address (IPv4 or IPv6) for the data source.

The Active IQ Unified Manager data source type does not support IPv6 addresses.

- **Port**

  Displays the associated port number, if any, for the selected data source type.

  You can change the default port and specify a different port for the data source.

- **Scheme**

  Displays the scheme associated with the selected data source type—for example *cm_storage* for Active IQ Unified Manager - 6.0 (MYSQL).

  This property cannot be modified.

- **User name**

  Displays the associated user name, if any, for the selected data source type.

  You must specify the appropriate user name for this data source to override the default user name:

  - For Active IQ Unified Manager 6.0 and later, you must enter the user name of the database user account that you created on the Active IQ Unified Manager server.
  - For Performance Advisor, you must enter the user name of an Active IQ Unified Manager user with a minimum role of GlobalRead.

- **Password**

  Enables you to specify a password for the selected data source type.

  You must specify a password to override the default password for the user name of this data source:

  - For Active IQ Unified Manager 6.0 and later, you must enter the password of the database user account that you created on the Active IQ Unified Manager server.
  - For Performance Advisor, you must enter the password of an Active IQ Unified Manager user with a minimum role of GlobalRead.

- **Database**

- **Interval (minutes)**

  Enables you to click the value and select an interval (in minutes) using the up and down arrows.

  If the interval is set to zero (0), automatic sampling is disabled.

  The default interval for data sampling is:

  - Script-based data source type: 1440 (performance and vc)
  - SQL-based data source type: 30 (cm_storage, storage, and cm_performance)

- **See Setup Instruction Guide**

  Opens the Setup Instruction Guide dialog box, which enables you to specify the instructions for setting up the data source.

Command buttons

- **Save**

  Saves the configurations settings and closes the dialog box.

- **Cancel**

  Cancels changes, if any, and closes the dialog box.

Edit Data Source dialog box

The Edit Data Source dialog box enables you to modify an existing data source.

Data Source Configuration properties

- **Name**

  Enables you to modify the name of the data source.

- **Data source type**

  Displays the data source type for the data source. You cannot modify this field.

- **Host name**

  Enables you to specify the host name or IP address (IPv4 or IPv6) for the data source.

  The Active IQ Unified Manager data source type does not support IPv6 addresses.

- **Port**

  Displays the associated port number, if any, for the selected data source type. You can change the default port number for the data source.

- **Scheme**

  Displays the scheme associated with the selected data source type—for example *cm_storage* for Unified Manager - 6.0 (MYSQL).

  You cannot modify this property.

- **User name**

  Displays the associated user name, if any, for the selected data source type.

  You must specify the appropriate user name for this data source to override the default user name:

  - For Unified Manager 6.0 and later, you must enter the user name of the database user account that you created on the Unified Manager server.
  - For Performance Advisor, you must enter the user name of an Active IQ Unified Manager user with a minimum role of GlobalRead.

- **Password**

  Enables you to specify a password for the selected data source type.

  You must specify a password to override the default password for the user name of this data source:

  - For Unified Manager 6.0 and later, you must enter the password of the database user account that you created on the server.
  - For Performance Advisor, you must enter the password of an Unified Manager user with a minimum role of GlobalRead.

- **Database**

  Displays the associated database name, if any, for the selected data source type.

- **Interval (minutes)**

  Enables you to click the value and select an interval (in minutes) using the up and down arrows.

  If the interval is set to zero (0), automatic sampling is disabled.

  The default interval for data sampling is:

  - Script based data source type: 1440 (performance and vc)
  - SQL based data source type: 30 (cm_storage, storage, and cm_performance)

- **See Setup Instruction Guide**

  Opens the Setup Instruction Guide dialog box, which outlines the steps for setting up the data source.

Command buttons

- **Reset Scheme**

  Opens the Reset Scheme confirmation dialog box. This dialog box enables you to reset the cache storage for the selected scheme, which occurs during the next data acquisition.

  The reset process deletes all the cached data, including all the tables. The entire cache is built from start during the next data acquisition.

- **Save**

  Saves the configurations settings and closes the dialog box.

- **Cancel**

  Cancels changes, if any, and closes the dialog box.

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