

Identity Governance 3.6 Reporting Guide

December 2019

This guide describes Identity Reporting for Identity Governance and how you can use the features it offers.

Identity Reporting provides a set of predefined report definitions you can use to generate reports. In addition, it gives you the option to import custom reports. The user interface for Identity Reporting makes it easy to schedule reports to run at off-peak times to optimize performance.

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Accessing Identity Reporting

You can launch Identity Reporting from the Identity Governance application or access it directly from a browser.

By default, Identity Governance uses One SSO Provider (SSO) for single sign-on. When you install Identity Reporting, you specify the basic settings for user authentication. However, you can also configure the OSP authentication server to accept authentication from the Kerberos ticket server or SAML IDP. For example, you can use SAML to support authentication from NetIQ Access Manager.

NOTE: To access Identity Reporting, you must be a Global Administrator or Report Administrator within Identity Governance.

Launching Identity Reporting from Identity Governance

If your administrator has enabled Identity Reporting, you can click the icon in the upper right-hand corner of the Identity Governance page.

Starting Identity Reporting Directly with a URL

To access Identity Reporting directly, open a web browser and go to the address (URL) for the module (as supplied by your system administrator). The URL will follow this pattern: `http://server:8080/IDMRPT/`

Using the Overview Page

The Overview page is the first page you see when you log in to Identity Reporting. At the top of the page there is a dismissible message (located under the page title) directing users to the [NetIQ Identity Reporting Quick Start Guide](#).

The top of the page includes summary information, such as the number of report definitions and the number of started, failed, and completed reports.

Below the report summary area there is a section that lists the most recently completed reports. To view the report, click the report name.

The Scheduled Reports section lists the next five reports that are scheduled to run. To view a particular scheduled report on the Calendar page, click the date the report is scheduled to run.

The Overview page also includes a search field that provides a quick way to find report definitions by name.

The search facility allows you to pass in search strings for any of the items in the following table.

Table 1

Filter Value	Description
Name	Performs a CONTAIN search. The search is case-insensitive, and it uses the locale of the user.
Description	Performs a CONTAIN search. The search is case-insensitive, and it uses the locale of the user.
Tags	Performs an exact string search. The search is case-insensitive. Pass in only a single tag.

You can enter one or more words in the Search field, with or without quotes:

- ◆ If you enter multiple words without quotes, the search results include reports that contain all of the words anywhere in the Name or Description, or that have all of the words as tags (that match exactly).

For example, suppose you enter the following:

```
catalog users
```

In this case, the following report definitions are in the results:

- ◆ Reports with a Name containing the words `catalog` and `users` anywhere in the string

- ◆ Reports with a Description containing the words `catalog` and `users` anywhere in the string
- ◆ Reports with Tags having both `catalog` and `users` as exact tags
- ◆ If you enter multiple words surrounded by double quotes, the search results include reports that include the entire phrase anywhere in the Name or Description, or that have a tag that matches the entire phrase.

For example, suppose you enter the following:

```
"catalog users"
```

In this case, the following report definitions are in the results:

- ◆ Reports with Name containing the phrase `catalog users`
- ◆ Reports with Description containing the phrase `catalog users`
- ◆ Reports with a Tag that exactly matches `catalog users`

Using the Repository Page

When you click Repository in the top navigation menu, the Repository shows the list of reports that have been imported into Identity Reporting.

For each report definition, the list shows the report name and description, as well as any tags that have been specified for the report.

Identity Reporting does not install with a set of predefined reports. For information on how to install reports, see [“Using the Import Page” on page 8](#) and [“Using the Download Page” on page 16](#).

You can define a new report by editing one of the predefined report definitions and saving it with a new name using the **Save As** command.

You cannot create a new report from scratch on the Repository page. To create a new report definition from scratch, you must design it outside of Identity Reporting and then import it.

For more information about using the features on the Repository page, see the following topics:

- ◆ [“Modifying a Report Definition” on page 3](#)
- ◆ [“Exporting a Report Definition” on page 6](#)
- ◆ [“Running a Report on Demand” on page 6](#)
- ◆ [“Deleting a Report Definition” on page 6](#)
- ◆ [“Performing Bulk Actions” on page 7](#)
- ◆ [“Searching for a Report Definition” on page 7](#)
- ◆ [“Sorting the List of Reports” on page 8](#)
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Modifying a Report Definition

To modify a report definition:

- 1 Select the name of the report definition in the list on the Repository page.

Mouse over the report definition name and click **Edit**. When you edit a report definition, a page opens to allow you to make changes to the definition.

The fields at the top of the page allow you to modify the name, description, tags, comments, and output format (PDF, Complex CSV, or CSV Data Table) for the report. Use tags to organize reports according to common words or phrases that suggest how the reports are related. Tag names share a common namespace for all users, so specify tag names that make sense for all users. Tag names cannot be localized.

You can specify one or more tags for a report definition. If you specify multiple tags, separate them with commas. Defined tags are shown in the list displayed on the Repository page, and in the Detail dialog box for a report listed on the Completed and Running Reports page. In the list displayed on the Repository page, the tags are alphabetized to allow for sorting.

NOTE: The next time you edit the report definition, the tags appear in alphabetical order, regardless of how they were originally entered. The tags are also alphabetized in the Repository list, even if you did not alphabetize them when you first entered them.

The other fields on the page are organized into the following sections:

- ◆ Criteria
- ◆ Default Notifications
- ◆ Schedule

- 2 To edit the criteria for the report, open the **Criteria** section and make changes as necessary. The Criteria section does not appear unless the imported definition included one or more report parameters.

The number of fields displayed in the Criteria section and the way these fields behave depend on how they were specified in the original report definition object imported into Identity Reporting.

Identity Reporting supports the following data types for criteria fields:

- ◆ String
- ◆ String with Options
- ◆ Date
- ◆ Integer
- ◆ Boolean
- ◆ Lookup

The control displayed for each data type varies depending on how the parameter is defined in the report definition. For multivalued options, a multiselect control is displayed, but a single value control is displayed for a parameter that accepts only a single value.

Some criteria fields are required by the report definition, but others are optional. If you do not provide a value for a required field, the user interface displays an error message.

The criteria parameters in the following table are available with most of the reports installed with Identity Reporting.

Table 2

Parameter	Description
Data Source	<p>Defines the data source on which you want to report. This parameter is required for all reports.</p> <p>To run a report on multiple data sources, edit the report, select the desired data source when you define the report criteria, and then save as a new report.</p> <p>For a data source to be available for reports, you must first add it on the Data Sources page. For more information, see “Using the Data Sources Page” on page 15.</p>
Language	Defines the target language for the report.
Date Range	<p>Allows you to define a range of dates for the data included in the report. The following choices are available:</p> <ul style="list-style-type: none">◆ Current Day◆ Previous Day◆ Week to Date◆ Previous Week◆ Month to Date◆ Previous Month◆ Custom Date Range
From Date	Allows you to specify a fixed start date for the report data. This parameter is enabled only if you selected Custom Data Range for the Data Range parameter.
To Date	Allows you to specify a fixed end date for the report data. This parameter is enabled only if you selected Custom Data Range for the Data Range parameter.
Limit Results To	Limits the record types relevant to the report or sections within the report.
Time Zone	Allows you to specify the time zone to which date/time information returned in the report will be oriented.

If a report definition includes one or more fields for defining dates, such as Date Range, From Date, and To Date, be aware that the date range you specify affects the data returned with the report, not the dates on which the report is run. Therefore, if a report is run monthly, do not define a custom date range that fixes the dates in the From Date and To Date fields. It does not make sense for a monthly scheduled report to report on a fixed date range (such as 3/10/2010 - 3/17/2010). To report on a fixed date range, schedule the report to run only once. For a monthly report, use one of the relative date range settings included in the Date Range field, such as Month to Date. This ensures that the data in the report is updated each month.

Some criteria fields support automatic completion, which allows you to type several characters and then select an item from a list of possible choices. For example, the user(s) field might allow you to type the first few characters of a user’s name and then select the user from a list of users whose names contain the characters you have typed.

- 3** To edit the email settings associated with the report definition, open the Default Notifications section and make changes as necessary.

- 4 To add a new schedule for the report definition, click the **+** button on the left side of the Schedule section.
 - 4a Provide a name for the schedule in the **Schedule Name** field. The name for a schedule must be unique within the report definition, but does not need to be unique within Identity Reporting as a whole.
 - 4b (Conditional) If you want the name of the report definition to be added to the beginning of the schedule name, click **Prepend Report Definition Name**. This option allows you to see which report has been scheduled with each schedule instance in the Calendar page. This option is enabled by default.
 - 4c Click in the **Date range** field or select the calendar control to display calendar for selecting dates.
 - 4d Select the date in the left calendar on which you want to initiate the first run of the report.
 - 4e Select the approximate start time of day for each run. The time of day is based on the clock on the server where the report is executed. The actual execution time depends on server activity.
 - 4f Select the date in the right calendar after which no more runs should occur. Note that the last report run may not actually occur on this date. For example, if you select October 15 as the start date, and specify a repeat interval of two weeks and an end date of November 1, the report will be run on October 15 and October 29. In this case, October 29 is the last run. The report runs at its scheduled time, regardless of whether the data collection completed successfully.
 - 4g Select the approximate end time of day for each run.
 - 4h Select **Apply**.
 - 4i In the **Frequency** field, type the repeat interval (a number that specifies how often the report will run) and select the time period for report runs, such as Month(s), Week(s), or Day(s).
 - 4j Use the default notifications or deselect **Use default notifications** and enter emails, subject, and a custom message.
- 5 (Conditional) To save the report definition and schedule, click **Save** or click **Save As** to distinguish it from the default report.
- 6 (Conditional) To queue a report to run immediately, click **Run Now**.
- 7 (Optional) To edit an existing schedule, see [“Editing a Schedule Instance” on page 9](#).

Exporting a Report Definition

To export a report definition, mouse over the report definition and click **Edit**. In the edit page top right corner, click **Export report definition**.

Running a Report on Demand

To queue a report to run immediately from the Repository list view, mouse over the report definition and click **Run Now**.

Deleting a Report Definition

To delete a report definition, mouse over the report definition and click **Delete**.

Performing Bulk Actions

To run or delete several reports at once:

- 1 Click the check box to the left of each report definition you want to run or delete.
- 2 In the **Bulk Actions** drop-down list, click **Run Now** or **Delete**.
- 3 Click **Apply**.

Bulk actions apply only to the current page. If you select several items on one page, then navigate to the next page to select some additional items, a subsequent attempt to perform a bulk action such as Run Now or Delete applies only to the second set of items you selected. The previous selections are retained and still appear selected if you navigate back to the first page. However, the bulk action is not performed on these items.

Searching for a Report Definition

The search facility allows you to use any of the items in the following table to search for a report definition in the Repository.

Table 3

Filter Value	Description
Name	Performs a CONTAIN search. The search is case-insensitive, and it uses the locale of the user.
Description	Performs a CONTAIN search. The search is case-insensitive, and it uses the locale of the user.
Tags	Performs an exact string search. The search is case-insensitive. Pass in only a single tag.

You can enter one or more words in the **Search** field, with or without quotes:

- ◆ If you enter multiple words without quotes, the search results include reports that contain all of the words anywhere in the Name or Description, or that have all of the words as tags (that match exactly).

For example, suppose you enter the following:

```
catalog users
```

In this case, the following report definitions are in the results:

- ◆ Reports with a Name containing the words `catalog` and `users` anywhere in the string
 - ◆ Reports with a Description containing the words `catalog` and `users` anywhere in the string
 - ◆ Reports with Tags having both `catalog` and `users` as exact tags
- ◆ If you enter multiple words surrounded by double quotes, the search results include reports that include the entire phrase anywhere in the Name or Description, or that have a tag that matches the entire phrase.

For example, suppose you enter the following:

```
"catalog users"
```

In this case, the following report definitions are in the results:

- ◆ Reports with Name containing the phrase `catalog users`
- ◆ Reports with Description containing the phrase `catalog users`
- ◆ Reports with a Tag that exactly matches `catalog users`

Sorting the List of Reports

To sort the list of reports, click the header for the column on which you want to sort. The sort indicator shows you which column is the new primary sort column.

Rows Per Page

You can control how many rows are displayed on the Repository page. Type the number of rows to display in the **rows per page** field at the bottom of the page and press **Enter**. The number you enter must be greater than zero. This preference is saved across sessions, and applies to all users. It affects both the Repository and Reports lists.

Using the Import Page

The Import page lets you import report definitions (RPZs) into Identity Reporting. After the definition has been imported, it is available for use throughout Identity Reporting.

NOTE: The report packager gives report definition archive files (RPZs) file names in the form `REPORT-NAME_VERSION.rpz`. The actual report name is stored within a component inside the RPZ so renaming the RPZ file has no effect on the name of the report when it is imported into Identity Reporting.

To import a report definition:

- 1 Click **Import** in the top navigation menu.
- 2 Select the RPZ file to import and click **Open**.
The Import page now displays the file to import in the Report Definitions To Import section.
- 3 Click **Select File** again to include additional RPZs to import.
- 4 To remove a file from the import procedure, click the delete icon to the left of the file name.
- 5 Specify whether you want to overwrite the contents of any existing report definitions with the same names as those being imported by selecting or deselecting the **Overwrite existing reports** option.

NOTE: When you select this option, the import operation overwrites the contents of existing report definitions that have the same names as those imported. However, some of the fields associated with an existing report definition are retained:

- ◆ The email addresses to send the report to
 - ◆ Comments added to the report definition
 - ◆ Default report format (CSV or PDF)
 - ◆ Categories defined for the report definition
-

- 6 Click **Import** to begin the import procedure.
- 7 If you want to cancel the import procedure, click **Clear All** to the right of the progress bar.

NOTE: After importing one or more report definitions, you can see the reports and make changes to them on the Repository page.

Using the Calendar Page

To display the calendar, click **Calendar** in the top navigation menu.

The Calendar page shows scheduled reports, as well as reports that have been initiated with the Run Now button. In addition, it displays finished reports, reports that are still in progress, and reports that failed during execution. Finished reports, reports that are still in progress, and failed reports appear with a gray background, and reports that have not been executed yet appear with a white background. All days that have already passed appear with a gray background.

The Calendar page shows scheduled runs in the user's time zone, not the server's time zone. However, scheduled runs are executed according to the server's time zone, and the time stamp on an executed report reflects the time on the server at the time of the run.

The scroll bar for the browser lets you scroll within the current view, but does not move forward to show additional weeks in the calendar.

When you first display the Calendar page, today's report runs are displayed. If you scroll away from today's schedule, you might need to return to it later. If so, click the **Today** button.

For more information about using the features on the Calendar page, see the following topics:

- ♦ [“Checking the Status of a Schedule Instance” on page 9](#)
- ♦ [“Editing a Schedule Instance” on page 9](#)
- ♦ [“Deleting a Schedule Instance” on page 10](#)
- ♦ [“Moving a Single Schedule Instance” on page 11](#)
- ♦ [“Moving All Schedule Instances” on page 11](#)

Checking the Status of a Schedule Instance

To check the status of a particular schedule instance in the calendar, mouse over the schedule name. If the schedule instance is still running, the Calendar shows **In Progress** under the schedule name. If the schedule instance has completed processing, the View and Delete links appear under the schedule name. If the schedule instance has not run yet because it is scheduled for some time in the future, the Edit and Delete links appear under the schedule name. If the report failed during execution, only the Delete link appears under the schedule name.

Editing a Schedule Instance

To edit a schedule instance for a report that has not been run yet:

- 1 On the Calendar page, click **Edit** under the schedule name.

Identity Reporting displays a page that lets you edit the report definition and schedule. In addition, you can create a new schedule from the editing page.

The report definition has a one-to-many relationship with schedules. This means that a report definition can have one or more schedules, but a schedule can only be associated with a single report definition.

- 2 To edit the settings for the schedule, scroll down to the Schedule section of the page and open the section for the scheduled run you want to edit.
- 3 Make changes as necessary to the scheduled run. The following table describes the schedule properties you can change.

Table 4

Schedule Property	Description
From date	<p>Specifies the date in the calendar on which you want to initiate the first run of the report. This property also determines the date for all subsequent runs.</p> <p>You can change the start date for a schedule after it has been created, even if the calendar already includes one or more scheduled runs. If you change the start date for a schedule, all of the runs for that schedule shift to the new date.</p>
Time of day	<p>Specifies the approximate time of day for each report run. The time of day is based on the clock on the server where the report is executed. The actual execution time depends on server activity.</p> <p>The run time specified for each schedule instance is set to the hour or the half hour - for example, 1:00 AM or 1:30 PM.</p> <p>You can change the time of day for a schedule after it has been created. If you change the time of day, all of the runs for that schedule execute at the new time.</p>
Frequency	<p>Specifies the repeat interval (a number that specifies how often the report will run) and the time period for report runs: Month(s), Week(s), or Day(s).</p> <p>You cannot modify the frequency for a schedule after the schedule has been created.</p>
To date	<p>Specifies the date in the calendar after which no more runs should occur. Note that the last report run may not actually occur on this date. For example, if you choose October 15 as the start date, and specify a repeat interval of two weeks and an end date of November 1, the report will run on October 15 and October 29. In this case, October 29 is the last run.</p> <p>You can change the end date for a schedule after it has been created.</p>
Use default notifications	Specifies the email settings associated with the schedule instance.

- 4 Click **Save**.

Deleting a Schedule Instance

To delete a particular scheduled instance, mouse over the scheduled instance and click **Delete**. If you delete the first run in a schedule, the Start date for the schedule is changed to the next upcoming run date. If you delete the last run, the End date for the schedule is not modified.

Moving a Single Schedule Instance

The Calendar page allows you to move a single schedule instance by dragging and dropping the item from one date to another within the calendar. However, when you move a single schedule instance, the Calendar page automatically creates a new schedule with a new name and places the moved schedule instance on the new date that you selected as the target for the move operation.

After you have moved a schedule instance, this run is effectively deleted from the original schedule definition, and is now added to the new schedule definition. All of the text-based attributes from the original schedule instance are copied to the new schedule instance.

The name you specify for the new schedule need not be unique across all of the report definitions within Identity Reporting. However, it does need to be unique within the list of schedules for the report definition.

You cannot move a schedule instance into the past (before the current date and time) or to a day that already has a run scheduled for the same report definition.

To move a single schedule instance to a new date:

- 1 Select the schedule instance you want to move and drag it to the desired date.
- 2 Click **Move This**.

Moving All Schedule Instances

The Calendar page also allows you to move all of the scheduled runs for a schedule by dragging and dropping a particular run within the schedule from one date to another within the calendar. When you move all schedule instances for a particular schedule, the Calendar page retains the original repeat pattern specified in the Frequency field, but updates the start date to reflect the new date for execution of the report.

The target date for the move need not be within the original start and end period dates specified for the schedule. If you move outside the original range of the schedule, the schedule start and end dates change accordingly.

To move all of the scheduled runs for a schedule:

- 1 Select the schedule instance you want to move and drag it to the desired date.
- 2 Click **Move All**.

The Calendar page shifts all of the scheduled runs to align with the new run date.

Using the Reports Page

You can perform a number of tasks on the Reports page, including searching for, viewing, sorting, and deleting reports.

For more information about using the features on the Reports page, see the following topics:

- ◆ [“Viewing the List of Completed and Running Reports” on page 12](#)
- ◆ [“Viewing a Completed Report” on page 12](#)
- ◆ [“Viewing the Details for a Report” on page 12](#)
- ◆ [“Deleting a Report” on page 13](#)
- ◆ [“Performing Bulk Actions” on page 13](#)

- ◆ “Searching for a Report” on page 13
- ◆ “Sorting the List of Reports” on page 14
- ◆ “Rows Per Page” on page 14

Viewing the List of Completed and Running Reports

To view a list of completed and running reports, click **Reports** in the top navigation menu.

The Completed And Running Reports page shows all reports that have finished processing, as well as reports that are still in progress or have failed during execution. The list of reports includes reports that were scheduled, as well as reports that were initiated with the Run Now button. For each report listed, the page shows the report name, data source on which you ran the report, description, run date, and status icon.

If a report is run multiple times very quickly (each run is within a fraction of a second of the other runs), the time format shows one or more periods after AM or PM. For example, you might see PM. or PM.. after the time the report was run.

Viewing a Completed Report

To view a completed report, click the **View** link below the report that you want to display.

When you view a report, the generated report appears in a new window. The report appears in PDF or CSV format, depending on how the report was defined.

IMPORTANT: Please do not try to copy and send links to files within Identity Reporting, because this action might potentially expose your login information.

The View link is not available for reports that are still in progress or have failed.

Viewing the Details for a Report

To view the details for a report:

- 1 Click the **Details** link below the report for which you want to see the details. If the report definition includes one or more parameters, a Criteria section is added to the page that shows the parameters. The fields shown in the pop-up window are not editable, because the report has already been submitted to be run.

The Run By user is the logged-in user who creates a schedule or clicks Run Now. For example, if the user cblack creates a schedule, and then mmackenzie logs in and modifies the schedule, the Run By user is still the original creator, cblack. If mmackenzie moves the item by clicking Move This, thereby creating a new schedule, mmackenzie is the creator for the report generated by that one-off schedule.
- 2 If the report has completed processing, you can display the generated report from this window by clicking the **View** link next to the status icon at the top of the window. This link is not available if the report is still in progress or has failed.
- 3 To return to the report list, click the **Close** icon. You can continue to work outside the window while it is still open.

Deleting a Report

To delete a generated report, click the **Delete** link below the report that you want to delete.

If you choose multiple reports by selecting the check box for each report, and then click the Delete link for another report in the list, the delete operation applies only to the report for which you clicked the Delete link.

Performing Bulk Actions

To delete several reports at once:

- 1 Select the check box to the left of each report definition you want to delete.
- 2 In the **Bulk Actions** list, click the **Delete** operation.
- 3 Click **Apply**.

Bulk actions apply only to the current page. If you select several items on one page, then navigate to the next page to select some additional items, a subsequent attempt to perform a bulk delete applies only to the second set of items you selected. The previous selections are retained and still appear selected if you navigate back to the first page. However, the bulk action is not performed on those items.

Searching for a Report

To search for a report definition:

- 1 Type a search string in the **Search** text field, which is designated by the magnifying glass at the top right of the page.

The search facility allows you to pass in search strings for any of the items in the following table.

Table 5

Filter Value	Description
Name	Performs a CONTAINS search. The search is case-insensitive, and it uses the locale of the user.
Description	Performs a CONTAINS search. The search is case-insensitive, and it uses the locale of the user.
Tags	Performs an exact string search. The search is case-insensitive. You need to pass in only a single tag.
Run By	Performs a search on the first name and last name of the creator of the schedule. The creator is the logged-in user who creates a schedule or clicks Run Now. For example, if the user cblack creates a schedule, then mmackenzie logs in and modifies the schedule, the Run By user is still the original creator, cblack. If mmackenzie moves the item by clicking Move This, thereby creating a new schedule, mmackenzie is the creator for the report generated by that one-off schedule.

You can enter one or more words in the **Search** field, with or without quotes:

- ♦ If you enter multiple words without quotes, the search results include reports that contain all of the words anywhere in the Name or Description, or that have all of the words as tags (that match exactly).

For example, suppose you enter the following:

```
chris black
```

In this case, the following report definitions are in the results:

- ◆ Reports with a Name containing the words `chris` and `black` anywhere in the string
- ◆ Reports with a Description containing the words `chris` and `black` anywhere in the string
- ◆ Reports with Tags having `chris` and `black` as exact tags
- ◆ Reports with Run By having a first name or last name of `chris` and last name or first name of `black`
- ◆ If you enter multiple words surrounded by double quotes, the search results include reports that include the entire phrase anywhere in the Name or Description, or that have a tag that matches the entire phrase.

For example, suppose you enter the following:

```
"margo mackenzie"
```

In this case, the following report definitions are in the results:

- ◆ Reports with Name containing the phrase `margo mackenzie`
- ◆ Reports with Description containing the phrase `margo mackenzie`
- ◆ Reports with a Tag that exactly matches `margo mackenzie`
- ◆ Reports with Run By having `margo mackenzie` as the first name and last name or last name and first name

2 Press **Enter** key on your keyboard.

You can clear the current search criteria and refresh the display by clicking **Reports** on the top navigation menu, or by emptying the Search field and clicking the **Search** button again.

Sorting the List of Reports

To sort the list of reports, click the header for the column on which you want to sort. The sort indicator shows you which column is the new primary sort column.

Rows Per Page

You can control how many rows are displayed on the Repository page. Type the number of rows to display in the **rows per page** field at the bottom of the page and press **Enter**. The number you enter must be greater than zero. This preference is saved across sessions, and applies to all users. It affects both the Repository and Reports lists.

Using the Settings Page

The General Settings page allows you to specify how long completed reports should be retained. Specify the unit of time (days, weeks, or months) and a number in the **Delete generated reports after field**. Click **Save** to save your changes.

Using the Data Sources Page

The Data Sources page allows you to add, modify, and remove MS SQL, Oracle, and PostgreSQL data sources on which you want to run reports. You can select data sources from a predefined list of installed Java Naming and Directory Interface (JNDI) data sources that the reporting server manages or define new, external Java Database Connectivity (JDBC) data sources. For a data source to be available when you run reports, you must first add it on this page.

After you add a predefined JNDI data source, you can use the Data Sources page to modify the display name. For JDBC data sources, you can modify the display name and the password that Identity Reporting uses to connect to the data source.

NOTE: The necessary JDBC driver JAR file must be in the `lib` directory of the Tomcat install. If you add the JAR, a restart of Tomcat is required.

To add a data source:

- 1 Click **Data Sources** in the top navigation menu.
- 2 Click the plus sign (+) to add a new data source.
- 3 Select the appropriate method for connecting to the data source.
- 4 (Conditional) If you are adding a predefined data source, select the source from the list.
- 5 (Conditional) If you are defining a new data source, provide the following information for connecting to the data source:
 - ♦ The name of the data source
 - ♦ The database type
 - ♦ The host - DNS name or IP address of the computer that hosts the data source
 - ♦ Whether to use SSL to connect to the data source
 - ♦ The port the database is listening on
 - ♦ The name of the database. For Oracle this will be the SID/ServiceName.
 - ♦ The user name and password for the data source user account. As a best practice for Identity Governance reports, use the `igrptuser` account.
- 6 (Optional) To test whether Identity Reporting can connect to the data source, click **Test Connection**.

NOTE: A successful connection is not required to add the data source. It is possible to come back and test the connection at a later time.

- 7 Click the **Save** icon.

To modify a data source:

- 1 Click **Data Sources** in the top navigation menu.
- 2 Click the data source name, then modify the information.

To remove a data source:

- 1 Click **Data Sources** in the top navigation menu.
- 2 Click the delete icon next to the data source you want to remove.

Using the Download Page

By default, reports for all supported products (Identity Manager and Identity Governance) appear on the Download Report Definitions page. If present, select **Identity Governance Reports** tab to display its report. Reports are listed in one of three sections on the page:

- ◆ Updated reports, which are newer versions of the reports already installed
- ◆ New reports, which are not currently installed on your server
- ◆ Up to date reports, which means the latest version of the report is already installed on your server

There are potentially three types of download content for each report:

- ◆ Report definition archive (*.rpz) that is a compiled version of the report, ready to be imported and run
- ◆ Report definition source (*_src.zip) that contains all the Jaspersoft source files for the report
- ◆ Additional downloads (*.zip) that contain SQL files for new or updated database schema upon which the new or updated report relies

The report definition archive and the report definition source download files are always present. New or updated SQL files are present only when they are required. A `ReadMe.html` file is included within the additional downloads zip file that contains instructions on installing the schema updates.

You can acquire download files one at a time per report or by bulk action.

To download report updates:

- 1 (Conditional) If you want to download report updates one at a time, click one of the icons under the **Download** column header.

Tooltips for each icon identify the type of each download object. Left to right, they are arranged as report definition archive, report definition source, and addition downloads (SQL).

- 2 (Conditional) If you want to download report updates in a bulk operation, click the check boxes beside the report names for which you want to download updates. Then select the **Bulk Actions** operation (at the top of the page on the left) that you want to use.

- 3 Click **Apply** to take the action on the selected reports.

- 4 (Conditional) If you opt to save the files to the local file system, you must also go to the Import page and follow the workflow there. For more information, see [“Using the Import Page” on page 8](#).

On the other hand, there is an install option available in both single and bulk import workflows that will download the report definition archive and import it in a single operation.

For reports that have the third, additional download file available that contains schema updates, the schema updates must be installed in the Identity Governance database for the associated report to work correctly.

Administering and Customizing Identity Reporting

Identity Reporting offers various administration and customization tools. For more information, see the following topics:

- ◆ [“REST Services for Reporting” on page 17](#)
- ◆ [“Enabling and Configuring Auditing for Identity Reporting” on page 17](#)
- ◆ [“Identity Reporting Events” on page 18](#)
- ◆ [“Security Considerations” on page 19](#)

- ♦ “Report Customization Tools” on page 19
- ♦ “Customizing the User Interface” on page 20
- ♦ “Customizing Strings” on page 20

REST Services for Reporting

Identity Reporting supports complete REST API functionality.

The REST APIs for reporting use the OAuth2 protocol for authentication.

The installation program deploys a special API WAR file, `rptdoc.war`, which contains the documentation of REST services needed for reporting. On Tomcat the `rptdoc.war` file is automatically deployed when Identity Reporting is installed.

The REST API documentation can be found at `http://%servername%:8080/rptdoc`. If you installed Reporting using https, substitute `https` for `http`.

NOTE: As a best practice while working in a staging or production environment, you should manually move or delete the `rptdoc.war` files and folders from the Tomcat `webapps` directory in your environment.

Enabling and Configuring Auditing for Identity Reporting

Use the following information to enable auditing for Identity Reporting. The steps for enabling auditing are the same whether you installed Identity Reporting and Identity Governance on the same server or on different servers.

If you enable auditing for Identity Reporting, all events in the Identity Reporting Events table are sent to the audit flow channel. For more information about logged events, see “Identity Reporting Events” on page 18.

NOTE: You can view the events in the `catalina.timestamp.log` file even if you do not enable auditing.

To enable and configure auditing:

- 1 (Conditional) If you enabled auditing during the installation, proceed to [Step 3](#).
- 2 (Conditional) If you want to enable auditing after the installation, complete the following steps:

2a Create an audit directory to store the audit information.

- ♦ **Linux:** `/opt/netiq/idm/apps/audit`
- ♦ **Windows:** `C:\netiq\idm\apps\audit`

2b Create the Identity Reporting log file.

- ♦ **Linux:** `../tomcat/conf/idmrptcore_logging.xml`
- ♦ **Windows:** `C:\netiq\idm\apps\tomcat\conf\idmrptcore_logging.xml`

2c (Linux only) Assign ownership to the audit directory.

```
chown -R novlua.users /opt/netiq/idm/apps/audit
```

NOTE: The `novlua.users` is the same ownership as the `tomcat` directory. It allows the Tomcat service to modify files within the audit logs directory.

3 Modify the Identity Governance logging file to enter the `syslog` server information.

3a Open the logging file in a text editor.

- ♦ **Linux:** `/opt/netiq/idm/apps/tomcat/conf/idmrptcore_logging.xml`
- ♦ **Windows:** `C:\netiq\idm\apps\tomcat\conf\idmrptcore_logging.xml`

3b Make the following changes specific for your `syslog` server:

```
<enabled>${com.netiq.ism.audit.cef.enabled:true/false}</enabled>
<protocol>${com.netiq.ism.audit.cef.protocol:TCP/TLS}</protocol>
<host>${com.netiq.ism.audit.cef.host:123.456.78.90}</host>
<port>${com.netiq.ism.audit.cef.port:6514}</port>
<cache-dir>${com.netiq.ism.audit.cef.cache-file-dir:/opt/netiq/idm/apps/
audit}</cache-dir>
<cache-file>idm-rpt.txt</cache-file>
<application>Reporting Core</application>
<vendor>Micro Focus</vendor>
<version>6.6.0</version>
```

NOTE: To disable auditing, ensure that the `<enabled>` line is set to `false`. For example:

```
<enabled>>false</enabled>
```

- 4** (Conditional) If you are using TLS, add the certificate (public key) for the `syslog` server (at the provided port) to the Identity Governance and Identity Reporting trusted certificates files.
- 5** Restart Tomcat. For more information, see the User Guide on the [Identity Governance documentation website \(https://www.netiq.com/documentation/identity-governance/\)](https://www.netiq.com/documentation/identity-governance/).

Identity Reporting Events

The events listed in the following table are logged for Identity Reporting. For more information about event auditing in Identity Reporting, see “[Enabling and Configuring Auditing for Identity Reporting](#)” on page 17.

Table 6

Event ID	Process	NetIQ Identity Audit Event	Severity
31771	Report definition created	Report_Defn_Created	Info
31772	Report definition modified	Report_Defn_Modified	Info
31773	Report definition deleted	Report_Defn_Deleted	Info
31774	Schedule created	Schedule_Created	Info
31775	Schedule modified	Schedule_Modified	Info
31776	Schedule deleted	Schedule_Deleted	Info
31777	Report generated	Report_Generated	Info
31778	Report delivered	Report_Delivered	Info
	Data cleanup requested	Data_Cleanup_Requested	Info
	Data collection activated	Data_Collection_Activated	Info

Event ID	Process	NetIQ Identity Audit Event	Severity
	Data collection failed	Data_Collection_Failed	Info
	Data collection requested	Data_Collection_Requested	Info
	Data collection started	Data_Collection_Started	Info
	Data collection suspended	Data_Collection_Suspended	Info
	Data source modified	Data_Source_Modified	Info
	Data source registered	Data_Source_Registered	Info
	Data source removed	Data_Source_Removed	Info
	Data Collection Service (DCS) driver collection disabled	DCS_Driver_Collection_Disabled	Info
	DCS collection enabled	DCS_Driver_Collection_Enabled	Info
	DCS driver registration add	DCS_Driver_Registration_Add}	Info
	DCS driver registration modify	DCS_Driver_Registration_Modify	Info
	Service started	Service Started	Info
	Service stopped	Service Stopped	Info

Security Considerations

This section describes security considerations to keep in mind when working with Identity Reporting.

Authentication Token Exposure

On Windows, the authentication token used for login operations is exposed as a URL parameter in the Internet Explorer address bar when users open PDF files for reports. This happens because the browser handles links to PDFs instead of JavaScript handling the links.

Do not copy and paste links to report PDFs. If the token has not yet expired and the user has not logged out, the link receiver, who might not be a legitimate user, is able to access Identity Reporting by using the token given to the legitimate user.

IMPORTANT: Do not try to copy and send links within Identity Reporting, because this action might potentially expose your login information.

Report Customization Tools

Report Packaging Tool: Facilitates the process of creating new reports.

Custom header/footer tool: Tool to customize the report header and footer. There is help embedded in the tool.

Customizing the User Interface

Identity Reporting requires a web browser to present information and allow users to perform actions.

The reporting client WAR supports customization through the `custom.css` file. To customize the user interface, set the location of the `custom.css` file using the `com.netiq.rpt.css.custom.dir` property.

NOTE: The Identity Governance server process must have read permissions on the `custom.css` file.

Customizing Strings

You can customize the strings for Identity Reporting into any of several supported languages by customizing the appropriate language-specific properties JAR file.

NOTE: As a best practice, copy only the property or properties that need to be translated.

The following table lists the supported languages.

Table 7

Language	Locale Code
Chinese – Simplified	zh_cn
Chinese – Traditional	zh_tw
Danish	da
Dutch	nl
English	en
French	fr
German	de
Italian	it
Japanese	ja
Polish	pl
Portuguese	pt
Russian	ru
Spanish	es
Swedish	sv

The strings for Identity Reporting are contained with a set of language-specific JAR files that are associated with the two main WARs used by Reporting:

- ◆ Client WAR
- ◆ Core WAR

The language-specific JAR files follow this pattern:

- ♦ *RPTCORE-CLIENT_language.jar*
- ♦ *RPTCORE-SERVER_language.jar*

For example, the following JAR files apply to strings in French:

- ♦ *RPTCORE-SERVER_fr.jar*

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