



# IdentityIQ Tasks

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## Tasks Overview

When working with tasks, do not open multiple tabs or browsers. Opening multiple tabs might cause a change in one tab to overwrite changes made in another.

Tasks are used to automate the processes which build, update, and maintain the information contained within IdentityIQ. Use the basic tasks provided by SailPoint, or create and customize the task to meet the needs of your organization.

Account aggregation tasks scan applications configured to work with IdentityIQ, discover users and entitlements on those applications, and, optionally, correlate those users and entitlements with roles.

Account group aggregation tasks are used to scan applications and aggregate account groups and application object attributes. These are then used for group certification (either permissions or membership) or for displaying of group information in identity certifications.

Activity aggregation tasks scan applications, discover activity, and then correlate that activity with identities enabling you to track and monitor all activity for possible policy violations.

Activity Alert tasks aggregate and process alerts defined in your system. The aggregation tasks collect active alerts and, either launch an activity processing task to launch the associated actions, or store the alerts until the next processing task is run.

Identity refresh tasks analyze the information collected for each identity to ensure that it is up-to-date and accurate. Among other things, identity scans can detect and report on policy violations and trigger event certifications.

Application score refresh tasks scan the specified applications and run the configured application scoring algorithms to determine application risk score. These scores are then used to update the information displayed on the Application Risk Scores page.

Missing Managed Entitlement Scan creates any entitlement objects for items added after the application was last aggregated.

Policy Scan tasks evaluate policies against identity cubes and update identity score cards with any policy violations discovered.

Refresh Composite Accounts tasks refresh composite accounts for all identities that could, potentially, have a composite account on the applications selected.

System tasks are configured, by default, to run in the background and perform maintenance, refresh system-wide data, and cleanup old or unused information.

Target aggregation tasks are used to scan applications for unstructured targets.

Access to components is controlled by IdentityIQ Capabilities and scope. Talk to your system administrator if you need access to additional components.

## Tasks Page

The Tasks page contains a list of all of the tasks that have been created. The first time you access the Task page you see the predefined tasks provided by SailPoint. The tasks are grouped into categories based on the task type. You can expand or contract the categories on the grid using the plus (+) or minus (-) icon next to the category name.

Task category headings are only displayed if a task exists in that category.

The task categories are:

- Account Aggregation
- Account Group Aggregation
- Activity Aggregation
- Activity Alerts
- Certification Refresh
- Generic
- Identity
- Scoring
- System
- Target Aggregation

See [Predefined Tasks](#).

Use the search options to limit the number of tasks displayed in the table. Entering a letter, or partial name, in the **Search** field displays any tasks with names containing that letter pattern.

Use this page to create, edit, run, schedule or delete task.

See [Working with Tasks](#).

The Tasks page contains the following information:

Field Name	Description
Name	The name of the task as defined when the it was created.
Description	A brief description of the specific task.

## Predefined Tasks

SailPoint provides a number of predefined tasks that can be run to aggregate, correlate and refresh information within your enterprise.

The predefined tasks are not templates that can be used to create new tasks. Changes made to these tasks overwrite exiting information. To create new task you must use the New Task drop-down menu at the bottom of the page.

These tasks are defined to perform specific functions within your enterprise. Deleting or altering these tasks might have negative affects on the performance of IdentityIQ.

SailPoint provides the following tasks:

### Generic Tasks:

- Refresh Role Indexes — Update all role information and create the indexes needed to perform role searches. You must run this task before performing any role searching.

### Identity Tasks:

- Check Active Policies — Scan all users for policy violations and update Identity Risks Scores. Edit this task to specify how policy violations are handled when detected.
- Prune Identity Cubes — Delete identities that have no account links and have no important references. Identities in any of the following states are protected:
  - Marked protected
  - Is a manager (managerStatus flag true)
  - Has capabilities
  - Bundle, Application, Workitem, or TaskResult owners
  - Work item requestor
  - Application secondary owner
  - Application remediator
  - Creator of a MitigationExpiration

If the **protectIfCertifying** option is on, identities are protected if they are in an active certification. There is also an option to run the scan for analysis but not delete any identities.

- Refresh Entitlement Correlation — Scan all user entitlements and applications to update role assignments.
- Refresh Groups — Scan all users and update the group indexes for all identity groups.
- Refresh Identity Cube — Perform a full refresh of the identity cubes for all users. Edit this task to specify which portions of the identity cubes are refreshed by this task.
- Refresh Risk Scores — Scan all users and update the Identity Risk Scores for each.

### Scoring Tasks:

- Refresh Application Scores — Runs the scoring algorithms against all specified applications and updates the Application Risk Scores page.
- Refresh Role Scorecard — Analyzes each role in the system and collects statistics about them.

### System Tasks:

- Check Expired Mitigations — Scans all users for temporary exceptions allowed in a certification that have now expired. The original certifier can optionally be notified when allowed exceptions expire.
- Check Expired Work Items — Scans all work items looking for those that need to be canceled or escalated to a different user.
- Complete Orphaned Identity Requests — Removes completed requests for roles that exist in your system.
- Effective Access Index Refresh — Refreshes or rebuilds the effective access index.
- Full Text Index Refresh — Builds and refreshes the index files used for full text searches on defined fields on the access request pages of the Lifecycle Manager. The index files are rebuilt each time this task is run.
- Perform Identity Request Maintenance — Prunes old identity request objects and scans unverified access requests to check for provisioning completeness.
- Perform Maintenance — Prunes identity snapshots, task results, and certifications, escalates orphaned work items, and performs other background maintenance tasks.

Electronically signed objects are not affected by this task.

- **Remove Orphan Role Requests** — Stops and removes requests for roles that no longer exists in your system. For example, if the sunset date for a role passes before the request is processed, this task removes that request.
- **Role Overlap Analysis** — Performs impact analysis on a specified role. The task result name is annotated with the name of the selected role so you can tell multiple analysis results apart.
- **Synchronize Roles** — Synchronizes IdentityIQ roles with the roles on the identity management systems that are configured to work through a provisioning provider.



## Working with Tasks

To run or execute a task, right-click on the task name and select **Execute** or **Execute in background**. **Execute** displays a pop-up progress window and opens the Task Result page when it is complete. **Execute in background** launches the task in the background and you must go to the Tasks Results page to track progress or view the finished task.

See [Task Results](#).

Tasks that require sign off generate work items and email notifications that are assigned to the designated signers. Sign off decisions are retained with the task results for tracking purposes.

See [How to Complete Task Work Items](#).

To create a new task, use the **Create new task** drop-down list to select a task type and display the New Task page.

The predefined tasks are not templates that can be used to create new tasks. Changes made to these tasks overwrite existing information. To create new task you must use the Create New Task drop-down menu at the bottom of the page.

See [How to Create a New Task](#).

To edit an existing task, click a task or right-click and select **Edit** to display the Edit Task page.

See [How to Edit a Task](#).

To schedule a task, right-click and select **Schedule** from the drop-down list to display the New Schedule dialog. You can schedule task to run once, hourly, daily, weekly, monthly, quarterly or annually to meet the requirements of your enterprise and auditors. Go to the Scheduled Tasks tab to view or edit existing schedules.

See [How to Schedule a Task](#) and [Scheduled Tasks](#).

To terminate a currently running task, access the Task Results page, right-click on the task to terminate and select **Terminate** from the drop-down menu. You are asked to confirm the termination request. Task that are currently running are flagged as pending in the Date Complete column of the Task Results table.

To delete a task, right-click the task and select **Delete** from the drop-down menu. Click **Yes** on the confirmation pop-up to delete the task. When you delete a task from the Tasks table, all associated task results are deleted as well.

## How to Create a New Task

Use the New Task page to create a task based on the task types provided. Tasks can be as general or specific as required.

See [Task Types](#) for the complete list of tasks types provided.

1. Click or mouse over the Setup tab and select **Tasks** to open the Tasks page.
2. Select a task type from the **New Task** drop-down list to open the New Task page.
3. Enter a **Name** and brief **Description** for the new task. This information is displayed on the Tasks table when the new task is saved.
4. Select a **Previous Result Action** from the drop-down list. **Delete** is select by default.

Previous result actions determine how subsequent runs of this tasks react to existing task results.

**Delete** — overwrite the previous task results with the new information.

**Rename Old** — append a numeral to the name of the old task result and preserve both.

**Rename New** — append a numeral to the name of the new task result and preserve both.

**Cancel** — cancel the new run of the task.

5. **Optional:** Allow concurrency. Select **Allow Concurrency** to enable two identical tasks to run at the same time.

If enabled, allow concurrency appends a numeric value to the name of the task that started second.

If disabled, the second task is canceled and an exception sent to the requestor.

6. **Optional:** Require sign off.
  - a. Select **Required sign off** to expand the Signoff Properties section.
  - b. Select an email notification template from the Initial Notification Email drop-down list. For example, the Task Result Signoff template.  
Templates are created and defined when the application is configured.
  - c. Specify the escalation criteria for the sign off request. Use the options displayed to set your escalation parameters.  
**None** — no reminder emails are sent and no escalation is performed for this work item.  
**Send Reminders** — email reminders are sent at the configured interval.  
**Reminders then Escalation** — the configured number of reminders are sent and then the work item is escalated to the signers manager.  
**Escalation only** — this work item is escalated after the configured interval with no reminders being sent.
  - d. Specify the required signers.  
Enter the first letter, or letters, of an identity or workgroup to display a selection list of valid identities or workgroups containing that letter string or click the arrow to the right of the field to display all identities and workgroups and select a signer.  
You can add as many signers as required.
7. **Optional:** Host.  
If you want to choose a specific host or set of hosts to run the task on, add a comma separated list of host names. If multiple hosts are specified, the task manager selects the first active host. If there are no active hosts, or if an incorrect host name is given, the task terminates, and an error message is left in the result.
8. **Optional:** Email task alert.

Specify the configuration parameters in order to receive the status of different tasks after completion. These settings overwrite the email notification configured at the IdentityIQ Configuration level setting.

- **Email Notification:** Select **Email Notification** to enable the sending of status of task to those recipient whose email is being registered to receive the task status. Use the options displayed to set your notification.

Disabled — no email notification would be sent.

Warning — email notification would be sent in case of any warning after completion of task.

Failure — email notification would be sent in case of task Failure.

Always — email notification would be sent at completion of task irrespective of the task status.

- **Email Notification Template:** *(Applicable only if **Disabled** is not selected)* Select **Task Status** template to send emails on task completion. Templates are customizable.
- **Email Recipients:** *(Applicable only if **Disabled** is not selected)* Select the identity to register them to receive task status notification on emails associated with it.

1. Specify the task options required for the task you are creating. Each task type displays unique task options.

See [Tasks Page](#) for details on each type.

2. Click **Save** to save the new task to the Tasks table.

— OR —

Click **Save and Execute** to save the task to the Tasks table and run it immediately. The Tasks Results page displays when the task completes.

See [Task Results](#).

## How to Edit a Task

Use the Edit Task page to make changes to an existing task.

There is no Save As function on the Edit Task page. Any changes made to an existing task overwrite the task you are editing. You must use the Create New Task drop-down menu to create a new task.

### Procedure

1. Click or mouse over the Monitor tab and select **Tasks** to open the Tasks page.
2. Click on a task, or right-click on a task and select **Edit** from the drop-down list to open the Edit Task page.
3. Edit the **Name** and **Description** section as needed.

Changing the name does not save this as a new task and preserve the task being edited. Anything entered here overwrites the existing information.

4. Select a **Previous Result Action** from the drop-down list. **Delete** is select by default.

Previous result actions determine how subsequent runs of this tasks react to existing task results.

**Delete** — overwrite the previous task results with the new information.

**Rename Old** — append a numeral to the name of the old task result and preserve both.

**Rename New** — append a numeral to the name of the new task result and preserve both.

Cancel — cancel the new run of the task.

5. **Optional:** Allow concurrency. Select **Allow Concurrency** to enable two identical tasks to run at the same time.

If enabled, allow concurrency appends a numeric value to the name of the task that started second.

If disabled, the second task is canceled and an exception sent to the requestor.

6. **Optional:** Require sign off.
  - a. Select **Required sign off** to expand the Signoff Properties section.
  - b. Select an email notification template from the Initial Notification Email drop-down list. For example, the Task Result Signoff template.  
Templates are created and defined when the application is configured.
  - c. Specify the escalation criteria for the sign off request. Use the options displayed to set your escalation parameters.  
**None** — no reminder emails are sent and no escalation is performed for this work item.  
**Send Reminders** — email reminders are sent at the configured interval.  
**Reminders then Escalation** — the configured number of reminders are sent and then the work item is

escalated to the signers manager.

**Escalation only** — this work item is escalated after the configured interval with no reminders being sent.

- d. Specify the required signers.

Enter the first letter, or letters, of an identity or workgroup to display a selection list of valid identities or workgroups containing that letter string or click the arrow to the right of the field to display all identities and workgroups and select a signer.

You can add as many signers as required.

7. **Optional:** Host.

If you want to choose a specific host or set of hosts to run the task on, add a comma separated list of host names. If multiple hosts are specified, the task manager selects the first active host. If there are no active hosts, or if an incorrect host name is given, the task terminates, and an error message is left in the result.

8. **Optional:** Email task alert.

Specify the configuration parameters in order to receive the status of different tasks after completion. These settings overwrite the email notification configured at the IdentityIQ Configuration level setting.

- Email Notification: Select Email Notification to enable the sending of status of task to those recipient whose email is being registered to receive the task status. Use the options displayed to set your notification.
- Disabled — no email notification would be sent.
- Warning — email notification would be sent in case of any warning after completion of task.
- Failure — email notification would be sent in case of task Failure.
- Always — email notification would be sent at completion of task irrespective of the task status.
- Email Notification Template: (Applicable only if Disabled is not selected) Select Task Status template to send emails on task completion. Templates are customizable.
- Email Recipients: (Applicable only if Disabled is not selected) Select the identity to register them to receive task status notification on emails associated with it.
- Edit the task options required for the task you are creating.  
Each task type displays unique task options.

See [Task Types](#) for details on each type.

9. Click **Save** to save the new task to the Tasks table.

— OR —

Click **Save and Execute** to save the task to the Tasks table and run it immediately. The Tasks Results page displays when the task completes.

See [Task Results](#).

## How to Schedule a Task

Use the New Schedule dialog to schedule tasks to run during times of low business activity. Schedule recurring tasks as needed to maintain routine compliance within your enterprise.

The New Schedule dialog enables you to assign a unique name and description to the task schedule. This information is stored on the Scheduled Tasks page and displays in the Task Results table.

See [Scheduled Tasks](#) and [Task Results](#).

### Procedure

1. Click or mouse over the Monitor tab and select **Tasks** to open the Tasks page.
2. Right-click on a task name and select **Schedule** from the drop-down list to open the New Schedule dialog.
3. Enter a unique name and description for this schedule task.

Task that run across time zones run at the time scheduled, relative to the time zone in which they are scheduled. For example, a task scheduled to run at 4:00 PDT runs at 1:00 EDT.

4. Enter the date and time to launch the first execution of this task.

You can enter the date manually, or click the ... icon to select a date from the calendar.

— OR —

Select the Run Now field to schedule the task to run immediately after clicking Schedule. For recurring task, the task runs at the current time at the specified Execution Frequency.

5. Specify how often this task should run with the **Execution Frequency** drop-down list.

Subsequent executions of this task occur at the time specified in the First Execution fields.

6. Click **Schedule** to save this scheduled task.

Go to the Schedule Tasks page to view a list of all scheduled tasks.

See [Scheduled Tasks](#).

## Scheduled Tasks

The Scheduled Tasks page contains a list of all scheduled tasks, whether recurring or one-time only. One-time tasks are removed from the list after they are executed.

Tasks that are scheduled, but do not execute due to malformed task definitions are displayed in the Scheduled Task table with an error icon (!) in the Last Executed column. Tasks that fail in this way never execute and, therefore, never display results on the Tasks Results page. To see details of the execution error, click on the task to display the Edit Schedule dialog. The error information is displayed in the **Last Launch Error** field. Errors of this type should only occur for custom task definitions, not for any of the tasks supplied with the product. To correct the error, delete the task schedule, correct the task definition, and recreate the schedule.

Use the Scheduled Tasks page to edit or delete schedules.

Use the search options to limit the number of tasks displayed in the table. Entering a letter, or partial name, in the **Search** field displays any tasks with names containing that letter pattern. Click **Advance Search** to search by task results. See [Working with Schedules](#).

To create a scheduled task see [How to Schedule a Task](#).

The Scheduled Tasks page contains the following information:

Field Name	Description
Name	The name of the schedule as defined on the New Schedule page.
Next Execution	The date and time at which the task is next scheduled to execute.
Last Execution	The date and time at which the task most recently executed. This field displays an error icon (!) for tasks that do not execute due to malformed tasks definitions.
Last Result	The result of the last run of this task, for example Success or Failed.
Owner	The creator of the schedule.

## Working with Schedules

To edit an existing schedule, click a schedule name or right-click and select **Edit** to display the Edit Schedule dialog.

See [How to Edit a Schedule](#).

To delete a schedule, right-click the schedule name and select **Delete** from the drop-down menu. Click **Yes** on the confirmation pop-up to delete the schedule.

### How to Edit a Schedule

Use the Edit Schedule dialog

1. Click or mouse over the Monitor tab and select **Tasks** to open the Tasks page.
2. Click on the Schedule Tasks tab to display the list of scheduled tasks.
3. Click a schedule name or right-click and select **Edit** to display the Edit Schedule dialog.
4. Edit the name or description for this scheduled task.

Task that run across time zones run at the time scheduled, relative to the time zone in which they are scheduled. For example, a task scheduled to run at 4:00 PDT runs at 1:00 EDT.

5. Change the date and time to launch the first execution of this task.

You can enter the date manually, or click the ... icon to select a date from the calendar.

— OR —

Select the Run Now field to execute the task immediately after clicking Schedule. For recurring tasks, the task runs at the current time at the specified Execution Frequency.

6. Specify how often this task should run with the **Execution Frequency** drop-down list.

Subsequent executions of this task occur at the time specified in the **First Execution** fields.

7. Click **Save** to save this scheduled task and return to the Schedule Tasks page.

See [Scheduled Tasks](#).

## Task Results

The Task Results page contains a list of all of the tasks that have run or are currently running.

Use the search options to limit the number of tasks displayed in the table. Entering a letter, or partial name, in the **Search** field displays any tasks with names containing that letter pattern. Click **Advanced Search** to filter by start date, end date, or results.

Column	Description
Name	The name of the task.
Date Complete	The date and time stamp of when the task completed running.
Result	The result status, <b>Pending</b> , <b>Success</b> , or <b>Failed</b> . A result of <b>Success</b> with an exclamation point (!) indicates that there are warnings associated with the results.
Signoff	The status of the sign off request for the task results. <b>None</b> — no sign off required <b>Waiting</b> — sign off request not complete <b>Signed</b> — a sign off decision has been made
Owner	The name of the user who launched this task.

Click on a task name in the Tasks Results table to display the Task Results page. Each task type returns information specific to the options that were selected. Tasks that executed with partitioning enabled also display the partitioned results, broken down by the host name of the partitions on which they ran.

Several statistics related to task run length are maintained to help identify tasks that are running longer or shorter than expected. Each time a task is run, we save the start time. When the task is complete we calculate the run time in seconds.

These statistics are not set until the task complete. Until then they are zero. The run time change is a positive or negative integer representing the percent change in run length for this task relative to the average at the time was started. A value of 25 means the task ran 25% longer than average, and a value of -10 means the task was 10% faster.

See [Task Types](#) for details on the information that might be on the Task Results page.

To terminate a currently running task, a task flagged as pending in the Date Complete column, right-click on the task and select **Terminate** from the drop-down menu. You are asked to confirm the termination.

To delete task results, right-click on a result and select **Delete**. Tasks that require a sign off can only be deleted by a user with the Signoff Administrator capability.

If a task was scheduled to run but no results were returned, go to the Scheduled Task tab to ensure that errors did not occur during the task execution.



## Task Types

The task types are:

- Account Aggregation — scan all applications, discover users and entitlements on those applications, and then correlate those users and entitlements with roles.
  - See [Account Aggregation](#).
- Account Group Aggregation — scans applications and aggregates account groups and application object types. These are then used for group certification (either permissions or membership) or for displaying group information in identity certifications.
  - See [Account Group Aggregation](#).
- Activity Aggregation — scan all applications, discover activity on the applications, and then correlate that activity with identity cubes. This enables you to track and monitor all activity for possible policy violations.
  - See [Activity Aggregation](#).
- Alert Aggregation — scan applications and aggregates alerts from a set of Alert Collectors. These are then used to generate alert actions.
  - See [Alert Aggregation](#)
- Alert Processor — process the aggregated alerts against the alert definitions and launch the appropriate action.
  - See [Alert Processor](#)
- Application Builder — create multiple IdentityIQ applications or update the attribute map of an existing IdentityIQ application.
  - [Application Builder](#)
- ArcSight Data Export — export data for HP ArcSight Database Connector to an external database table.
  - [ArcSight Data Export](#)
- Classification — retrieve classification data from File Access Manager and assigns it to entitlements according to correlation logic defined in the applications that aggregate relevant account and group data or in the File Access Manager global configuration settings.
  - [Classification](#)
- Data Export — generate a de-normalized data report to export to an external database table.
  - [Classification](#)
- Effective Access Indexing — generate an index of any indirect access that was granted through another object. For example a nested group, an unstructured target, or another role.
  - [Effective Access Indexing](#)
- Encrypted Data Synchronization Task —re-encrypt data with user-generated encryption key.
  - [Encrypted Data Synchronization Task](#)

- Entitlement Role Generator — scans the entitlements in the system and automatically generates a simple role and appropriates a profile for each one that it finds.
  - [Entitlement Role Generator](#)
- FIM Application Creator — automatically discover and create FIM Management Agent Applications.
  - [FIM Application Creator](#)
- IQService Public Key Exchange — change the public keys that are used for IQService communications.
  - [IQService Public Key Exchange](#)
- ITIM Application Creator — inspect the IBM Tivoli Identity Manager (ITIM) and retrieve information about the ITIM services (applications). This task auto-generates an application for each service defined in ITIM.
  - [ITIM Application Creator](#)
- Identity IQ Cloud Gateway Synchronization — Synchronize the specified objects to the Cloud Gateway.
  - [IdentityIQ Cloud Gateway Synchronization](#)
- Identity Refresh — scan all applications, including the IdentityIQ application, to ensure that all identity information is up-to-date and accurate. Refresh identity scans are also used to detect and report on policy violations and trigger event certifications.
  - See [Identity Refresh](#).
- Identity Request Maintenance — scan for completed Lifecycle Manager access requests.
  - See [Identity Request Maintenance](#).
- Missing Managed Entitlements Scan — scan the selected application to create entitlement objects for items added after the application was last aggregated.
  - [Missing Managed Entitlements Scan](#)
- Novell Application Creator — inspect the Novell IDM application and retrieve information about all connected applications.
  - See [Novell Application Creator](#).
- OIM Application Creator — inspect the OIM application and retrieve information about all connected applications.
  - See [OIM Application Creator](#).
- Policy Scan — runs policies against identity cubes and update identity score cards with any policy violations discovered.
  - See [Policy Scan](#).
- Propagate Role Changes — refreshes identities who have an assigned role whose associated entitlements have changed.
  - [Propagate Role Changes](#).
- Refresh Logical Accounts — is used to refresh composite accounts for all identities that could, potentially, have a composite account on the composite applications selected.

- See [Refresh Logical Accounts](#).
- Role Index Refresh — updates all role information and creates the indexes needed to perform role searches. You must run this task before performing any role searching.
  - [Role Index Refresh](#)
- Run Rule — runs the specified rule with name/value pairs.
  - [Run Rule](#)
- Sequential Task Launcher — launches the specified tasks in the order defined. This enables you to launch tasks that must be run sequentially in the proper order without having to schedule each separately based on estimated run times.
  - [Sequential Task Launcher](#)
- System Maintenance — tasks designed to run in the background.
  - See [System Maintenance](#).
- Target Aggregation — scan selected applications for activity targets.
  - See [Target Aggregation](#).

See [Tasks Page](#) for information on working with these task types.

All task types contain the following standard properties:

Field	Description
Name	The name of the task as defined when the task was created
Description	Brief description of the task.
Previous Result Action	<p>Previous result actions determine how subsequent runs of this task react to existing task results.</p> <p><b>Delete</b> — overwrite the previous task results with the new information.</p> <p><b>Rename Old</b> — append a numeral to the name of the old task result.</p> <p><b>Rename New</b> — append a numeral to the name of the new task result.</p> <p><b>Cancel</b> — cancel the new run of the task if a task result with the same name exists.</p>
Allow Concurrency	<p>Enable two identical tasks to run at the same time.</p> <p>If enabled, allow concurrency appends a numeric value to the name of the task that started second. If disabled, the second task is cancelled and an exception sent to the requestor.</p>
Require Signoff	<p>Require sign off on the results of this task.</p> <p>Tasks that require sign off generate work items and email notifications that are assigned to the designated signers. Sign off decisions are retained with the task results for tracking purposes.</p>
Host	A comma separated list of host names on which to run this task. If multiple hosts are specified, the task manager selects the first active host

Field	Description
	If there are no active hosts, or if an incorrect host name is given, the task terminates, and an error message is left in the result.
Number of Runs	The number of times this task has been run.
Average Run Time	
	Reset the statistic if you reconfigure the task and expect the run times to change.
Reset Run Statistics	When you reconfigure complex tasks like aggregation or refresh, you should consider resetting run statistics. For example, enabling provisioning in the refresh task can profoundly influence run time so statistics should not be diluted by the previous average before provisioning was enabled.
<b>Email Task Alerts</b>	
Email Notification	Select a frequency for email notification to be sent upon task completion. <b>Disable</b> — no email notification sent on task completion <b>Warning</b> — send an email notification if the task results in a warning <b>Failure</b> — send an email notification if the task fails <b>Always</b> — always send an email notification upon task completion
Email Notification Template	Select a notification email template from the drop-down list.
Email Recipients	The list of users to receive the task completion notification. Use the drop-down arrow to display all identities, or type the first few letters of a name. select names from the list.

## Account Aggregation

Account Aggregation tasks scan all applications, discover users and entitlements on those applications, and, optionally correlates those users and entitlements with roles.

Identities that have changed since the last aggregation performed on an application are marked as needing refresh to increase the performance of identity refresh tasks. You can disable this function.

You can perform the correlation functions as part of this task or run account aggregation on all of the applications in your enterprise and then correlate the identity cubes with all of the aggregated information using an identity refresh task.

To perform aggregation on a composite application you must include the composite application and all of the applications that have accounts with which it is associated in the task definition.

Partitioning is available to speed the processing time for account aggregations and level the load on the machines running these tasks. Partitioning is used to break operations into multiple pieces, or partitions. Each partition is then placed in a global queue, and machines, or hosts, in a cluster compete to execute the partitions in the queue. Machines are added or removed from the cluster dynamically with automatic balancing. If a machine fails or is taken down while processing a partition, the partition is placed back into the queue and reassigned to a different machine. A single result object is shared by all partitions and is continually updated so you can monitor the overall progress of the partitioned

operation. When all partitions have finished executing the result is marked complete. See **the System Administration** documentation.

You must run the Target Aggregation task after this task is complete if you have activity targets set. This task removes all targets when it is run.

See [Target Aggregation](#).

The information scanned and updated is determined by the following criteria when the task is created or edited. You can use any combination of options to build a task.

Option	Description
Select an application to scan	The drop-down list of all applications.
Optionally select a rule to assign capabilities or perform other processing on new identities	If accounts are discovered that do not have matching identities in the IdentityIQ application, the rule specified here is used to create a new Identity Cube. These rules are created during configuration and deployment. Note: Click the “...” icon to launch the Rule Editor to make changes to your rules if needed.
Refresh assigned and detected roles	Scan for newly assigned roles and update Identity Cubes.  <b>IMPORTANT:</b> it is not recommended to use this setting if you are also using the <b>Identity Refresh</b> task to manage entitlement correlation or provisioning, as this can result in unintended or incomplete provisioning.
Check active policies	Scan for policy violations and update Identity Cubes.
Check to updated existing identities, but not to create new identities if a match is not found	Only create links if they can be correlated to an existing identity.
Refresh the identity risk scorecards	Scan for risk score information and update identity risk score cards.
Maintain identity histories	Compare current identity cubes to existing identity cube history, snapshots, and create new snapshots if any changes are discovered.
Enable Delta Aggregation	Enable the connector to aggregate only those accounts that have changed since the last aggregation. This requires support by the connector.
Detect deleted accounts	Compare current aggregated accounts with the accounts previously aggregated and report any deleted accounts.  <b>Maximum deleted accounts:</b> This is the maximum number of accounts that can be flagged for deletion after an account aggregation. If this number is passed, no accounts are deleted from the application.

Option	Description
Refresh assigned scope	Refresh assigned scope based on changes discovered during the aggregation and correlation process.
Disable auto creation of scopes	Do not automatically assign scope to identities as part of this task.
Disable optimization of unchanged accounts	Use this option to force the aggregation of all accounts, changed or unchanged since the last aggregation.
Promote managed attributes	When enabled, any values for entitlement or permissions encountered while running the task automatically get promoted as managed attributes.
Disable auto-creation of applications	Do not automatically create application objects for multiplexed accounts.
Disable marking the identity as needing refresh	<p>Disable marking only identities on which change was detected as need to be refreshed.</p> <p>All identities are included in subsequent identity refresh task.</p>
Enable Partitioning	<p>Enable partitioning of this task across multiple hosts.</p> <p>Partitioning is not supported for PE2 based connectors.</p> <p>Partitioning has to be configured on the applications and connectors before this option is valid.</p>
Objects per partition	If the connector(s) for the selected application(s) do not support partitioning, use this field to specify the number of objects per partition. The default value is 1000.
Loss Limit	The loss limit sets the maximum number of accounts that will be reprocessed in case of a sudden termination of a partitioned refresh. This option is used only when partitioning is enabled. See <b>the System Administration</b> documentation.
Terminate when maximum number of errors is exceeded	<p>Terminate after the specified number of errors occurs.</p> <p>If the database is available, the task result contains a message indicating that the task was terminated due to excessive errors. If the database is down, the task result cannot be persisted and the task might appear to remain in the pending state.</p> <p><b>Maximum errors before termination</b> Number of errors to tolerate before terminating the task.</p>
Sequential Execution - Terminate an Error	Force applications to aggregate in the listed order and stop the aggregation task if an error is encountered.
Actions to include in the task result	Select the actions performed as part of the aggregation task for which

Option	Description
	<p>detailed information should be included in the task results.</p> <p>This task performs a number of individual actions on accounts and Identity Cubes during the aggregation and configuration processes. By default only the final results of the task are included in the task results report.</p> <p>To included detailed information on the actions performed as part of the task, select those actions from the list.</p> <p><b>Correlate Manual</b> — identities with accounts that were manually correlated. These are not changed by the task.</p> <p><b>Correlate Maintain</b> — correlation information has not changed since the last time this task ran.</p> <p><b>Correlate New Account</b> — a new account was discovered for an existing identity and assigned.</p> <p><b>Correlate Reassign</b> — an existing account was reassigned from one identity to another as part of the correlation process.</p> <p><b>Create New Identity</b> — an account was discovered for an identity that did not exist in IdentityIQ. An identity cube was created for the new identity.</p> <p><b>Ignore</b> — an account for a new identity was discovered, but a new Identity Cube was not created. This might occur if this tasks is configured to perform correlation only.</p> <p><b>Remove Account</b> — an account discovered as part of a previous aggregation was not found during this aggregation. These accounts are removed from IdentityIQ.</p>

## Account Group Aggregation

An Account Group Aggregation task scans applications and aggregates account groups and application object types. These results are then used for group certification (either permissions or membership), for displaying group information in certifications, and for performing identity searches.

The information scanned and updated is determined by the following criteria when the task is created or edited. You can use any combination of options to build a task.

Option	Description
Select applications to scan	The drop-down list of all applications configured to work with IdentityIQ.
Filter object types to scan	<p>This option is only available for applications on which multiple application objects can exist.</p> <p>This option is not available if you select to scan more than one application.</p> <p>The list of all object types or account groups associated with the selected application. If nothing is selected, all object types and account groups are included.</p> <p>It might become important to scan object types separately if they share attributes.</p>

Option	Description
Enable Delta Aggregation	Enable the connector to aggregate only those account groups or application objects that have changed since the last aggregation. This requires support by the connector.
Detect deleted account groups	Detect and delete any account group or application object that was deleted on the native application since the last aggregation task was run.
Automatically promote descriptions to this locale	The default locale for the description attribute of the account group or application object. This option is used if an existing description locale is not found.
Description attribute (default description)	The Description Attribute defined in the Application Group Schema overwrites any value set here. The attribute that stores the description. This value defaults to the value description if this option is not set.
Group Aggregation Refresh Rule	The rule used to set the owner or modify the account group when it is created or refreshed. Click the ... icon to launch the Rule Editor to modify the rule if needed.
Promote Classifications	Promote classification from the ResourceObject classification to the ManagedAttribute.
Enable partitioning	Enable partitioning of this task across multiple hosts. Partitioning must be configured globally before this option can be used. See the <b>System Administration</b> documentation.
Number of partitions	Specify a number of partitions. If no number is specified, IdentityIQ calculates an optimal number based on available request servers.
Loss Limit	The loss limit sets the maximum number of identities that will be reprocessed in case of a sudden termination of a partitioned refresh. This option is used only when partitioning is enabled. See the <b>System Administration</b> documentation.
Terminate when maximum number of errors is exceeded	Terminate after the specified number of errors occurs. If the database is available, the task result contains a message indicating that the task was terminated due to excessive errors. If the database is down, the task result cannot be persisted and the task might appear to remain in the pending state. <b>Maximum errors before termination</b> Number of errors to tolerate before terminating the task.

## Activity Aggregation

Activity Aggregation tasks scan all applications, discover activity on the applications, and then correlate that activity with identity cubes. Using these tasks enables you to track and monitor activity within your enterprise.



The information scanned and updated is determined by the following criteria when the task is created or edited. You can use any combination of options to build a task.

Option	Description
Select an activity data source	The drop-down list of all activity data sources discovered by IdentityIQ. If no data source is selected, all available data sources are scanned as part of the task. You applications must be configured to support activity tracking.
Enable storage of the last activity position scanned on the data source	If enabled, the task marks the last activity scanned on the data source so that subsequent runs of this task begin scans at that mark instead of rescanning information. If this option is not enabled, each run of the task scans the entire data source.
Store uncorrelated activities so they can be rescanned and correlated at a later time	If enabled, all activity discovered on the data source is stored, even if that activity does not correlate to a user in the application. Storing this activity enables you to add users and update their identity cubes without having to rescan your data sources.

## Alert Aggregation

Alert Aggregation tasks scan applications and aggregates alerts from a set of Alert Collectors. These are then used to generate alert actions.

The information scanned and updated is determined by the following criteria when the task is created or edited. You can use any combination of options to build a task.

Option	Description
Select sources to scan	The drop-down list of all alert data sources discovered by IdentityIQ. If no data source is selected, all available data sources are scanned as part of the task. You applications must be configured to support alert tracking.
Enable Delta Aggregation	If enabled, the task only aggregates alerts that have occurred since the last run of this task. This option requires support from the connectors being scanned.
Process Alerts	If enabled, an Alert Processor task will launch as soon as this Alert Aggregation task is complete. If you select this option, you can limit the alert types processed in a comma separated list, or process all of the alerts collected.

## Alert Processor

Alert Processor tasks process the aggregated alerts against the alert definitions and launch the appropriate action.

The information scanned and updated is determined by the following criteria when the task is created or edited. You can use any combination of options to build a task.

Option	Description
Optional filter string to constrain the alerts processed	If not set, all are processed.
Exclude alerts previously processed	Enable to exclude Alerts that were previously processed.
Optional filter string to constrain the alert definitions to match against alerts	If not set, all Alert Definitions are evaluated.
Enable Partitioning	Enable the task to split into partitions and run across multiple threads and hosts, if available.

## Application Builder

The Application Builder task lets you create multiple IdentityIQ applications, and update existing applications in bulk. The task also includes the ability to perform account and group aggregation for a host using the associated application. It can also export essential data about your existing applications.

The task accepts the inputs required to create or update applications from a .csv file. Sample .csv files for Linux-Direct and Windows-Local are provided with this task as examples of how input data can be defined. The sample files are located in the WEB-INF/config directory of your IdentityIQ installation. You can also use the task's **Read** option to create .csv files from your existing applications, to use as models for creating .csv files that support the create and update options.

By default, before creating or updating an application on IdentityIQ, a test connection is performed to ensure that the connector is performing correctly. To skip the Test Connection operation, use **Skip Test Connection** in the Application Builder options.

To enable logging for the Application Builder task, add this entry to the log4j2.properties file:

```
logger.ApplicationBuilderExecutor.name=sailpoint.task.ApplicationBuilderExecutor
logger.ApplicationBuilderExecutor.level=debug
```

Before using the task to update an existing application, it is recommended that you use the iiq console to export the application definition, in case you need to restore them to their original state.

When you use this task to **Update** an existing application, the update is partial; that is, the update operation can add new attribute definitions to an existing schema, as well as adding a new schema.

Use the account or group aggregation options to trigger a background aggregation task.

### Working with Flexible Schemas and Provisioning Forms

The Application Builder task supports including XML definitions in your .csv files if you need to create or update flexible account schemas, or provisioning forms. Refer to the sample .csv files provided with this task for examples of how a schema definition can be included in the .csv file. Sample files are provided in the WEB-INF/config directory for Linux-Direct and Windows-Local.

If your input file includes an XML definition of a Provisioning Form, be aware that importing a Provisioning Form definition in a create or update operation will replace all existing Provisioning Forms with the new form as defined in the .csv

Option	Description
Application Type	Select an application type from the drop-down list. This is type of application you want to bulk-process. A single application builder task can only process applications of the same IdentityIQ-supported type, such as JDBC, Active Directory, or LDAP
Operation	<p>Select an operation from the drop-down list.</p> <p><b>Create</b> - create multiple applications by providing parameters in the .csv file in the specified format  <b>Update</b> - update existing applications by providing parameters in the .csv file in the specified format  <b>Read</b> - export existing applications to the .csv file format. Any existing exported files will be overwritten if the task is run again using the same filename.</p> <p>The Read operation reads the attribute map, account schema, and provisioning policy of an existing application present in IdentityIQ and exports it to the file path provided in CSV format. You must provide the application type and file path to which the file is to be exported before running the operation.</p>
File Path	<p>The file path, including file name, for the.csv file. For the <b>Read</b> option, this is the path to the location and name of the file the task will create. For <b>Create</b> and <b>Update</b> options, this is the path to the file containing the data for creating or updating your applications; these files must be present on the application server or accessible within the network.</p> <p>Sample .csv files are provided in the WEB-INF/config directory for Linux-Direct and Windows-Local:  Application-builder_linux.csv  Application-builder-windows-local.csv</p>
Account Aggregation	<p>Executes the account aggregation task. The account aggregation task is triggered sequentially.</p> <p>The aggregation task will use the following format; the UID (unique identifier) is generated automatically:  &lt;Application type&gt; + &lt;Account Aggregation&gt; + &lt;Current time stamp&gt; + &lt;UID&gt;</p>
Group Aggregation	<p>Executes the group aggregation task. The group aggregation task is triggered sequentially.</p> <p>The aggregation task will use the following format; the UID (unique identifier) is generated automatically:  &lt;Application type&gt; + &lt;Group Aggregation&gt; + &lt;Current time stamp&gt; + &lt;UID&gt;</p>
Number of Applications per Aggregation Task	<p>The number of application included in each aggregation task.</p> <p>Default: 10</p>
Skip Test Connection	Skip the default test connection operation.

## ArcSight Data Export

Export data for HP ArcSight Database Connector to an external database table.

The ArcSight data export task enables you to export IdentityIQ data to external tables.

Before you can use the ArcSight data export task, you must create the export databases on your destination data source.

The task schedule user interface includes a button that generates a customized DDL which you can hand off to a database administrator for execution. Once the data source parameters are entered, click Generate Table Creation SQL. The task adds the following tables in database:

Tables	Description
sptr_arcsight_export	Table to maintain the task execution history.
sptr_arcsight_identity	Table contains exported data of Identity.
sptr_arcsight_audit_event	Table contains Audit Events information.

Option	Description
<b>Datasource Parameters</b>	
Database	Select a database type from the drop-down list.
User Name	Enter the user name parameter of the database table.
Password	Enter the password of the database table.
Driver Class	Enter the driver class used for database.
URL	Enter the URL of the database.
<b>Object Export Options</b>	
Export Identities	Export Identity related data in ArcSight tables. It provides the following options: Full: Exports all the records irrespective if they were exported earlier. Incremental: Exports only records that are updated since last run of this task. This option can even be selected when running the task for first time. When the task is running for first time, this option exports all records similar to the Full option.
Export Audits	Export Audit Events in ArcSight table. It provides the following options: Full: Exports all the records irrespective if they were exported earlier. Incremental: Exports only records that are updated since last run of this task. This option can even be selected when running the task for first time. When the task is running for first time, this option exports all records similar to the Full option.

After you complete customizing your task options, click Save for later use or Save and Execute to save the task and run it immediately.

## Configuring HP ArcSight Task to populate host name or IP

The value of column `application_host` can be populated by adding a map with the value as `arcsightAppNameHostMap` as shown in the following example. The field `This` is read from the map as explained below:

It is difficult to determine the host name or IP address of the account as the field is not constant in Application definition in IdentityIQ. Hence, customer can define a map in TaskDefinition and select the task added to export data in ArcSight table. The key in the map should be name of the application defined in IdentityIQ and value should be hostname, IP, or any string that ArcSight administrator understands.

To add the map:

1. Go to debug page, navigate to TaskDefinition and open the ArcSight task configured above.
2. Add the entry as key = Name of Application defined in IdentityIQ and value as the string to identify host of Account like Hostname or IP.
3. Save the task definition. For example:

```
<entry key="arcsightAppNameHostMap">
  <value>
    <Map>
      <entry key="LinuxApp1" value="linux01.iiq.com"/>
      <entry key="LinuxApp2" value="127.15.19.21"/>
      <entry key="ADDirectApp" value="AD.iiq.com"/>
      <entry key="ServiceNowApp" value="https://iiq.service-now.com"/>
      <entry key="ACF2App" value="ACF2-Mainframe"/>
    </Map>
  </value>
</entry>
```

If the application name is not defined in the map the host field is blank.

Following fields are added in export table:

Fields	Description
linkid	Primary key for Link table in IdentityIQ database. This field is copied from <code>spt_link</code> table id field and is the primary key for export table.
identityid	Primary key in Identity table. This field is copied from <code>spt_Identity</code> table.
modified_dt	Populates timestamp when the record is exported in export table. The field can be referred while configuring time based ArcSight database connector.
identity_display_name	Represents Display Name of Identity which is copied from <code>spt_identity</code> table field ( <code>display_name</code> ).
identity_first-name	Represents first name of Identity which is copied from <code>spt_identity</code> table field ( <code>first-name</code> ).
identity_last-name	Represents last name of Identity which is copied from <code>spt_identity</code> table field ( <code>last-name</code> ).
application_	Populates the type of Account which is connected to the Identity like Act-

Fields	Description
type	iveDirectory – Direct, ACF2 – Full, Box, Cloud Gateway, ServiceNow and so on.
application_host	The host name, IP, or any string which can be used by ArcSight administrator to identify the host of link/account uniquely. Customer can enter any string which can be sent to ArcSight to identify the host of link.  This field can be populated as explained in <a href="#">ArcSight Data Export</a> .
application_name	Populates the name of Application of the Account connected to the Identity.
link_display_name	The account connected to the identity which is copied from spt_link table, field display_name.
entitlements	Represents comma separated list of entitlements to the link of Identity.
risk_score	Represents the composite risk score of Identity.

Fields	Description
auditid	The audit ID which is primary key for the export Audit table. The field is copied from spt_audit_event table id field.
created_dt	Populates timestamp when the record is exported in export table. The field can be referred while configuring time based ArcSight database connector.
owner	Describes the Owner of the audit generated.
source	Provides more details to help ArcSight administrator determine the source of audit.
action	Describes the action taken on entity.
target	Provides target details.
application	Describes the name of application the target belongs to.
account_name	The name of Account is populated in this field.
attribute_name	The name of attribute modified.
attribute_value	The value provided to the attribute.

## Data Export

The Data Export task enables you to export IdentityIQ data to an external database. You can select to export any combination of identity, account, and certification data.

Before you can use the Data Export task, you must create the export database tables on your destination data source.

The task schedule user interface includes a button that generates a customized DDL which you can hand off to a database administrator for execution. Once the data source parameters are entered, click Generate Table Creation SQL.

Option	Description
Datasource Parameters	
Database	Select a database type from the drop-down list.
User Name	Enter the user name parameter of the database table.
Password	Enter the password of the database table.
Driver Class	Enter the driver class used for database.
URL	Enter the URL of the database.
Object Export Options	
Export Identities.	Export identity related data. You can perform a full or incremental export. Use the Export Filter field to apply any database filters.
Export Accounts.	Export account related data. You can perform a full or incremental export. Use the Export Filter field to apply any database filters.
Export Certifications.	Export certification related data. You can perform a full or incremental export. Use the Export Filter field to apply any database filters.

After you complete customizing your task options, click Save for later use or Save and Execute to save the task and run it immediately.

## Effective Access Indexing

Effective Access is any indirect access that was granted through another object, such as a nested group, an unstructured target, or another role.

Option	Description
Index Entitlement Targets	Include any effective entitlements associated with application that support effective access searching.
Index Role Targets	Include any effective roles associated with application that support effective access searching.
Index direct role permissions	Include any effective direct role permissions associated with application that support effective access searching.
Index direct entitlement permissions	Include any effective direct entitlement permissions associated with application that support effective access searching.
Index unstructured targets	Include any unstructured targets.
Refresh Fulltext Index	Refresh the Fulltext index as part of this task.

Option	Description
Index classifications	Add an entitlement's classifications to the target association that is created when the entitlement target is indexed; in the UI, this means that an entitlement's classifications will be displayed whenever that entitlement occurs as Effective Access.
Promote classifications	Promote classifications up the effective access "chain" to the entitlement that grants the effective access. For example, if EntitlementA grants you effective access to EntitlementB, and EntitlementB has a classification assigned to it, then with the Promote Classifications option enabled, the classification assigned to EntitlementB will also be displayed in the UI for EntitlementA.
Delete all current targets before indexing	Clear an existing Effective Access Index before running this task.

After you complete customizing your task options, click **Save** for later use or **Save and Execute** to save the task and run it immediately.

## Encrypted Data Synchronization Task

The Encrypted Data Synchronization Task is used to re-encrypt IdentityIQ data when a new custom encryption key is generated.

Option	Description
Disable Application Synchronization	Select this option to ignore encryption key synchronization against applications.
Disable Identity Synchronization	Select this option to ignore encryption key synchronization against identities.
Disable IntegrationConfig Synchronization	Select this option to ignore encryption key synchronization against IntegrationConfig objects.
Disable Attachment Synchronization	Select this option to ignore encryption key synchronization against attachments.
Convert Encrypted Identity Secrets to Hashing	Select this option to convert any encryption keys to use hashing.

Once you have completed customizing your task options, click **Save** for later use or **Save and Execute** to save the task and run it immediately.

## Entitlement Role Generator

The Entitlement Role Generator creates an Entitlement Role for every entitlement found in a specified application. Recommended role types are Entitlement or IT.

You can further refine creation by specifying an entitlement name or permission target so that only entitlements matching the specified criteria are used.



## Task Types

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It is recommended to specify a template to be used to name the created roles. IdentityIQ uses Velocity templates. If no template is used, a generic name based on either the entitlement or role is created.

Option	Description
Applications	Select one or more applications from the drop-down list.
Type of Role to Create	Input the name of the role based on the specifications for your enterprise.
Enter the locale to check for descriptions. (If left blank the default Locale is used)	Enter the location of the role description.
Generate entitlements from attributes whose name starts with	Enter letters in the attribute name to filter the scan.
Generate entitlements from permissions whose target starts with	Enter letters in the permission name to filter the scan
Velocity template from which to generate entitlement role names. The template is always passed the applicationName parameter. The description, attributeName, attributeValue, permissionTarget, and/or permissionRights parameters are set when available.	Enter the Velocity template string.

## Classification

The Classification task is used when you are integrating with File Access Manager, to use File Access Manager's classification to flag and categorize entitlements within IdentityIQ. This task retrieves classification data from File Access Manager and assigns it to entitlements according to the correlation logic that is defined in the applications that aggregate relevant account and group data, or in IdentityIQ's File Access Manager global configuration settings.

Option	Description
Classification Customization Rule	You can use a rule to customize your classification object, for example to add or modify attributes in the object. Rules must be of the type "ClassificationCustomization" to appear in this selection list.
Automatically promote descriptions to this locale	The locale that any description that is included in the File Access Manager objects will be promoted to, by default. This is used if an existing description locale is not found.

After you complete customizing your task options, click **Save** for later use, or **Save and Execute** to save the task and run it immediately.

## ITIM Application Creator

Run the ITIM Application Creator task to inspect IBM Tivoli Identity Manager (ITIM) and retrieve information about the ITIM services (applications). This task auto-generates an application for each service defined in ITIM. Each ITIM

application contains a list of services that are roughly equivalent to the list of applications maintained in IdentityIQ. The applications generated by this task are added to the list of applications in IdentityIQ.

Option	Description
ITIM Applications	Select applications to inspect and from which applications should be generated based on the services found.
Generated application name prefix	Specify a prefix to append to any applications created by this task.
Generated application name suffix	Specify a suffix to append to any applications created by this task.

## IdentityIQ Cloud Gateway Synchronization

IdentityIQ Cloud Gateway Synchronization tasks scan selected IdentityIQ applications for specified objects and synchronizes them with IdentityIQ Cloud applications. It is intended for use when IdentityIQ is not able to communicate directly with the managed system.

Option	Description
IdentityIQ Cloud Gateway application name	Select the name of the application to synchronize.
Applications hosted on the IdentityIQ Cloud Gateway	Select the name of the hosted cloud gateway application with which to synchronize the IdentityIQ application.
Rules to be executed on the IdentityIQ Cloud Gateway	Select which rules to execute against selected applications.

## Identity Refresh

Refresh identity tasks scan all identities to ensure that all identity information is up-to-date and accurate. Refresh identity scans are also used to detect and report on policy violations and launch event certifications.

Incremental identity refresh can be configured to only refresh those identities on which information has changed since the last refresh was performed, to increase performance.

Partitioning is disabled if you enable Mark dormant scopes after refresh or Refresh the group scorecards options.

The Number of Refresh Threads option is not supported when partitioning is enabled.

Partitioning is available to speed the processing time for identity refresh tasks and level the load on the machines running these tasks. Partitioning is used to break operations into multiple pieces, or partitions. Each partition is then placed in a global queue, and machines, or hosts, in a cluster compete to execute the partitions in the queue. Machines are added or removed from the cluster dynamically with automatic balancing. If a machine fails or is taken down while processing a partition, the partition is placed back into the queue and reassigned to a different machine. A single result object is shared by all partitions and is continually updated so you can monitor the overall progress of the partitioned operation. When all partitions have finished executing the result is marked complete. See the **System Administration** documentation.

## Task Types

The information scanned and updated is determined by the following criteria when the task is created or edited. You can use any combination of options to build a task.

To reduce or eliminate the possibility of getting an `ObjectAlreadyLocked` exception, there are additional parameters available on the IdentityIQ debug pages. `enableTriggerIdentityQueue`, set to `true` to enable the queuing feature, and `triggerIdentityQueueSize`, to specify the number of triggers to queue prior to processing, without this setting, the default is 10.

Option	Description
Optional filter string to constrain the identities refreshed	A filtering string used to limit the number of identity cubes updated by this task. For example you can limit the refresh to one department within your enterprise, such as Finance, by entering: <code>department == "Finance"</code>
Optional list of group or population names to constrain the identities refreshed	A filtering string used to limit the number of identity cubes updated by this task. For example you can limit the refresh to one group or population within your enterprise.
Refresh identities whose last refresh date is before this date	<p>Refresh any identities not refreshed since the date entered.</p> <p>Enter and date manually or click the "... " icon to display the calendar view.</p> <p>Use this to recover from a refresh that ended abnormally. For example, you start a refresh task and it runs for a day before stopping abnormally. After resolving the issue with the task, instead of repeating the refresh of all the identities that completed before the task stopped, you can only refresh the ones that were missed on the last refresh. Enter the approximate date the last refresh stopped and only refresh the remainder.</p>
Refresh identities whose last refresh date is at least this number of hours ago	<p>Enter the number of hours manually.</p> <p>Use this option to refresh identities that have not been refreshed recently. The time is in this option is relative rather than absolute. Instead of remembering a specific task launch date and typing that in each time you run the refresh task you can have just one task and run that repeatedly. For example you can run it for every thing more than an hour old.</p>
Refresh identities whose last refresh date is within this number of hours	<p>Enter the number of hours manually.</p> <p>Use this option to refresh identities that were refreshed recently. The primary use case for this is to refresh things that were recently touched by aggregation.</p> <p>For example, if you have several aggregation sources but those sources tend to touch different subsets of all identities, and you would rather not refresh the identities that were not touch be the last aggregation.</p>
Include modified identities in the refresh window	<p>Refresh any identities modified within the specified time frames.</p> <p>There are two dates stored on each Identity, the date of last refresh and</p>

Option	Description
	<p>the date of last modification.</p> <p>The last refresh date is set whenever you run the refresh or aggregation tasks and the identity is changed in some way.</p> <p>The last modification date is set whenever you edit the identity in some way outside of a refresh or aggregation task, for example from a Life-cycle Manager workflow or a custom task.</p> <p>Use this option to refresh identities that were edited within a period of time, but not necessarily by the refresh task. For example, you might do a full refresh once a week but during the week people were adding or removing roles, changing extended identity attributes, doing manual correlation, or changing identities in some other way. Most of those cases have options to do a targeted refresh immediately after the change happens but this is not always the case and sometimes it is better to batch up a number of refreshes rather than have hundreds of individual refreshes occurring concurrently. If you ran the refresh task with one of the date-based options you would not necessarily pick up identities that were manually edited. If you want to include those select this option.</p>
Refresh only identities marked as needing refresh during aggregation	Only refresh identities marked as needing refresh during the most recent aggregation task.
Do not reset the needing refresh marker after refresh	<p>Do not clear the needing refresh marker set during aggregation.</p> <p>Use this option if you have multiple refresh tasks scheduled, such as entitlement and risk refresh. Then you can set the final refresh to clear the markers.</p>
Exclude identities marked inactive	Exclude inactive identities from the refresh.
Refresh identity attributes	Update Identity Cubes with any changes made to the attributes used to define identities.
Refresh Identity Entitlements for all links	<p>Refresh any account attribute mark as an entitlement in the application schema.</p> <p>This process is resource intensive as it refreshes all entitlement values for all links.</p>
Refresh manager status	Update all Identity Cubes in which the manager status has changed. For example, if a user was promoted to manager in their department, their Identity Cube would be updated by this task.
Refresh assigned and detected roles and promote additional	Update any assigned or detected role assignments that have change since the last time this task was run. Any additional entitlements found in this refresh are promoted during this task.

## Task Types

Option	Description
entitlements	
Provision assignments	Provision any assigned roles and entitlements detected since the last time this task was run.
Disable deprovisioning of deassigned roles	Prevents assigned roles from being deprovisioned after they have been deassigned.
Refresh role metadata for each identity	Update information about the identity's relationship to their role. For example, information regarding whether or not an identity has all the roles required by the given role.  Note: This option must be selected in order to generate Role Statistics.
Enable manual account selection	Sent Account Selection Notification emails to users with more than one account on any application where the system cannot determine the provisioning account. By default, no provisioning is done in this case.
Synchronize Attributes	Provision identity mapping targets if their value has changed.
Refresh the identity risk scorecards	Update Identity Risk Scores with any information discovered by the scan performed by this task.
Maintain identity histories	Update the identity history by creating a snapshot of any identities with information that has changed since the last refresh.
Refresh the group scorecards	Update Group Risk Scores with any information discovered by the scan performed by this task.  Partitioning is disabled if you select this option.
Clean up groups definitions that are no longer referenced	Delete un-referenced group definitions.  This option is only supported if it is selected in conjunction with the Refresh the group score card option and they run in the same task.
Check active policies	Scan for active policies and apply those policies to the identities included in the task.
Keep previous violations	Maintain a history of violations that are no longer active.
A comma separated list of specific policy names. When set this overrides the default policies	Scan for and apply only those policies included in this list to the identities included in the task.
Refresh assigned scope	Refresh assigned scope based on changes discovered.
Disable auto creation of scopes	Do not automatically assign scope to identities as part of this task.
Mark dormant scopes after refresh	Mark scopes that are not assigned to any identities as dormant.  Partitioning is disabled if you select this option.

Option	Description
Process Events	<p>Enable event certifications.</p> <p>Use the snapshots created during aggregation to approximate the previous state of the identities at the beginning of the refresh. This copied identity is compared to the updated identity to determine if event certifications are launched.</p>
Disable identity processing threshold	<p>Disable the identity processing threshold scan for lifecycle events. See <a href="#">Identity Processing Threshold</a>.</p>
Refresh logical application links	<p>Scan for changes to composite applications and refresh the link information.</p>
Promote managed attributes	<p>When enabled, any values for entitlement or permissions encountered while running the task automatically get promoted as managed attributes</p>
Number of Refresh Threads	<p>Specify the number of concurrent threads used during task processing.</p> <p>The number of threads should not exceed 10.</p> <p>This option is not supported with partitioning enabled.</p>
Always launch the workflow (even if the usual triggers do not apply)	<p>Launch a workflow for each identity even if no identity triggers or provisioning policy questions apply.</p>
Enable the generation of work items for unmanaged parts of the provisioning plan	<p>Create work items for role entitlements that are not managed by available connectors or provisioning integration modules so the appropriate action can be taken.</p>
Disable connector lookup of managers that do not correlate	<p>Disable the default MANAGER_LOOKUP feature and stop the automatic lookup/bootstrap of the manager account at the connector level.</p>
Enable partitioning	<p>Enable partitioning of this task across multiple hosts.</p> <p>Partitioning must be configured globally before this option can be used. See the <b>System Administration</b> documentation.</p>
Number of partitions	<p>Specify a number of partitions. If no number is specified, IdentityIQ calculates an optimal number based on available request servers.</p>
Loss Limit	<p>The loss limit sets the maximum number of identities that will be reprocessed in case of a sudden termination of a partitioned refresh. This option is used only when partitioning is enabled. See <a href="#">Loss Limits</a>. See the <b>System Administration</b> documentation.</p>
Do not schedule retry requests during application maintenance windows	<p>Disables the scheduling of provisioning retry requests, when provisioning fails due to an application being within a maintenance window. Application maintenance windows can be set for each application See the <b>Application Configuration</b> documentation.</p>

## Identity Processing Threshold

Identity Processing Threshold has the ability to stop lifecycle events before they are fully processed to prevent any dangerous workflows from accidentally being triggered.

The identity processing threshold is focused on the identity refresh task. There are three ways to configure the feature:

- Through the identity refresh task
- Through the rapid setup global settings
- Through the lifecycle event UI

## Identity Request Maintenance

The Identity Request Maintenance task scans all Lifecycle Manager access requests to ensure that all identity change requests were provisioned.

Partitioning is available to speed the processing time for this task, and to level the load on the machines running these tasks. Partitioning is used to break operations into multiple pieces, or partitions. Each partition is then placed in a global queue, and machines, or hosts, in a cluster compete to execute the partitions in the queue. Machines are added or removed from the cluster dynamically with automatic balancing. If a machine fails or is taken down while processing a partition, the partition is placed back into the queue and reassigned to a different machine. A single result object is shared by all partitions and is continually updated so you can monitor the overall progress of the partitioned operation. When all partitions have finished executing the result is marked complete. See the **System Administration** documentation.

Option	Description
Max age (in days) for Identity Request objects	<p>The maximum number of days that an identity request object (AccessRequest) is stored in the IdentityIQ database before it is removed.</p> <p>Set this according to your policy on how long access request details are required.</p> <p>The default is zero (0), which indicates that they are stored forever.</p>
Verify provisioning for requests?	Scan for provisioning requests which have been verified.
Number of days to attempt to verify the request with the Identity model before failing.	<p>The number of days the task attempts to scan for verified access requests before reporting a failure.</p> <p>When a timeout occurs, any item not verified is left in the non-finished provisioning state, either Committed or Pending, and the overall request is marked Partially Complete if any item succeeded. If no item succeed the entire request is marked failed.</p> <p>Set this value based on the type of connectors and their expected provisioning times. The default setting is continuous checking forever.</p>
Enable partitioning	Enable partitioning of this task across multiple hosts.

Option	Description
	Partitioning has to be configured before this option is valid.
Number of partitions	Specify a number of partitions. If no number is specified, IdentityIQ calculates an optimal number based on available request servers.

## Missing Managed Entitlements Scan

Missing Managed Entitlement Scan tasks scan the selected application and create any entitlement objects for items added after the application was last aggregated.

Select the applications to include in the scan. At least one application must be specified. Click the arrow to the right of the suggestion field to display a list of all applications, or enter a few letters in the field to display a list of applications that start with that letter string.

This task returns a list of entitlement names, values, and the application on which they were detected.

## OIM Application Creator

Run the OIM Application Creator task to inspect Oracle Identity Manager applications and retrieve information about the applications to which they are connected. This task generates an IdentityIQ application for applications connected to the OIM application specified. The applications generated by this task are added to the list of applications in IdentityIQ.

Option	Description
OIM Application	Select an OIM application to inspect and from which applications should be generated.

## Policy Scan

The Policy task type is used to run policies against identity cubes and update identity score cards with any policy violations discovered. IdentityIQ provides the Check Active Policies task as a global policy update task.

The information scanned and updated is determined by the following criteria when the task is created or edited. You can use any combination of options to build a task.

Option	Description
Optional filter string to constrain the identities refreshed	A filtering string used to limit the number of identity cubes updated by this task. For example you can limit the refresh to one department within your enterprise, such as Finance, by entering: department == "Finance"
Optional list of group or population names to constrain the identities refreshed	Use this list to further limit the number of identities included in this policy scan.
Apply all active policies	Scan for active policies and apply those policies to the identities included in the task.
A comma separated list of specific policy names. When set, this overrides the default policies	Scan for and apply only those policies included in this list to the identities included in the task.



## Propagate Role Changes

IdentityIQ does not propagate role changes for entitlements on applications that do not support direct provisioning and would require the creation of multiple work items. If required, a business process can be enabled in the System Configuration settings to handle that situation.

Entitlements that were detected are not removed from an identity during role propagation, unless they are also part of an assignment.. Only those entitlements that were assigned, individually or as part of a role assignment, are removed during propagation.

The Propagate Role Changes task updates any identities that have assigned roles whose associated entitlements have changed. This is the only task that can propagate the removal of entitlements from an assigned role.

Option	Description
Number of minutes task should run	The number of minutes for the task to run. The task stops only after finishing current event processing.
Check active policies	Scan for active policies and apply those to the identities included in the task.
Keep previous violations	Mark old policies as inactive but do not delete them.
A comma separated list of specific policy names. When set, this overrides the default policies.	Scan for and apply only those policies included in this list to the identities included in this task.
Enable Partition	Allow the task to split into partitions and run across multiple threads and hosts, if available.

- Once you have completed customizing your task options, click **Save for later use** or **Save and Execute** to save the task and run it immediately.
- After executing the task, the **Task Result** page displays the following output:
- **Number of Identity Updates:** displays the total number of Identity updates propagated. It is different than number of Identities updated, since multiple role events include some common identities and are counted multiple times, for each role event.
- **Number of Events Processed:** displays the total number of role events propagated. This is not the number of role modifications but the role change events in the queue. As single role modification results in multiple role change events in the queue.
- **Number of Events Pending:** displays the total number of pending role change events in the queue. If timeout is not defined, Role Propagation task completes only after propagating all the events. If timeout is defined, there could be pending events in the queue even after successful completion of this task.
- **Number of Events with No Impacted Identities:** displays the total number of events which are not impacting on connected identities. This event count is based on those bundles which are not directly assigned to the identities.
- Role change events are propagated sequentially and are not consolidated to cancel out redundant changes.
- If **Refresh Identity Task** is run before Role propagation task, and if it adds any entitlement as part of role changes, processing of role change event through Role Propagation Task would be redundant.

- In case of retry status, the transaction would be marked as failed and role propagation task would be stopped.
- While adding an entitlement, if account is missing, transaction would be marked as failed and role propagation task would be stopped. User has to run Refresh Identity task to resolve this.
- While processing an event, if the following exception is from target system, the task would remain blocked until the events are successfully processed.
- mandatory group cannot be removed
- This issue can be resolved by deleting the event from the database.
  - When Role Propagation task is under execution, if user creates events in database, these events would not be considered by the current task. These events would be considered for the next task execution.

## Refresh Logical Accounts

The Refresh Logical Accounts task type is used to refresh composite accounts for all identities that could, potentially, have a logical account on the applications selected. This refresh occurs without performing aggregation on the logical or tiered applications containing the links.

A logical account rule is run on each identity that has a logical link, or a link on the primary tier application of the logical application. If no primary tier has been defined, the rule is run on all identities that have an account on any of the tier applications.

The information scanned and updated is determined by the following criteria when the task is created or edited. You can use any combination of options to build a task.

Option	Description
Logical Applications	Select composite applications to refresh from the drop down-list.
Refresh identities whose last refresh date is before this date	Refresh any identities that have not been refreshed since the date entered.  Enter and date manually or click the “...” icon to display the calendar view.
Refresh all application account attributes	Perform an aggregation of identity information on each application and update the account attributes on each identity as required.  Selecting this attribute initiates a full application aggregation for each identity included in this task. This might impact the performance of IdentityIQ.
Refresh identity attributes	Update identity cubes with any changes made to the attributes used to define identities.
Refresh manager status	Update all identity cubes in which the manager status has changed. For example, if a user was promoted to manager in their department, their identity cube would be updated by this task.
Refresh the identity risk score-cards	Update Identity Risk Scores with any information discovered by the scan performed by this task.
Maintain identity histories	Update the identity history by creating a snapshot of any identities with information that has changed since the last refresh.

Option	Description
Refresh the group scorecards	Update Group Risk Scores with any information discovered by the scan performed by this task.
Apply all active policies	Scan for active policies and apply those policies to the identities included in the task.
A comma separated list of specific policy names. When set this overrides the default policies	Scan for and apply only those policies included in this list to the identities included in the task.
Number of Refresh Threads	Number of threads to use simultaneously while running this task.

## Role Index Refresh

A role index refresh task updates all role information and creates the indexes needed to perform role searches. You must run this task before performing any role searching.

## Run Rule

A task used to run an arbitrary rule with a series of name/value pairs.

You must have to configure some return statement as string. From your code, you have to return some meaningful string to the task. In your task definition declare:

```
<Returns>
  <Argument name="tskSuccess" type="string">
    <Prompt>Task Result:</Prompt>
  </Argument>
</Returns>
```

And in your code:

```
String tskSuccess = "failed";
if ( Do some condition check here) {
  //Do something;
  String tskSuccess = "Success";
}
return tskSuccess;
```

The rule is expected to return a string value representing its status. Any string other than Success results in a failed task result.

## Sequential Task Launcher

A sequential task launcher initiates the specified tasks in the order defined. This enables you to run tasks sequentially without having to schedule each separately based on estimated run times.

Option	Description
Enter the list of tasks you would like to run. Tasks are run in the order that they are entered.	Select the tasks you would like to run and the order in which they should run.

Option	Description
Task execution timeout	Specify the timeout argument for the sequential task. This argument is applied to each task defined as part of the sequential task.
Print log statements to indicate which tasks have been completed.	Select to print log statements so the sequential tasks can be tracked.
Cease execution if one of the executing tasks encounters an error.	Select to stop the sequential task if one of the tasks in the list fails. If this option is not selected the task continues in order.

## System Maintenance

SailPoint provides System Maintenance tasks with the IdentityIQ application, the Work Item Expiration Scanner, Mitigation Expiration Scanner, System Maintenance, System Maintenance Object Pruner, Role Overlap Analysis, and the Synchronize Roles task. These tasks are configured, by default, to run in the background of the application and update score card, application, and role information as needed.

The Work Item Expiration Scanner checks for work items that were assigned but have not been completed by the set expiration date.

The Mitigation Expiration Scanner checks for roles or entitlements for which the exceptions allowed during certification have expired.

The Perform Maintenance task prunes identity snapshots, task results, access request attachments, and certifications, escalates orphaned work items, and performs other background maintenance tasks.

The System Maintenance Object Pruner prunes objects in batches to improve performance. This task is not part of the System Maintenance task pruning operations and is run independently when necessary. This task is always run with partitioning enabled.

The Role Overlap Analysis performs impact analysis on a specified role. The task result name is annotated with the name of the selected role so you can tell multiple analysis results apart.

The Synchronize Roles task synchronizes IdentityIQ roles with the roles on the identity management systems that are configured to work through a provisioning provider.

The Reset Orphaned WorkItem Events task is designed to recover orphaned work item events. This is a user-driven task to determine the conditions in which a work item event is determined to be orphaned by way of workflow name, which should be restarted or discarded. The determination condition would be for work item that are of type Event, have expired locks, and are X-time beyond the date in which the Perform Maintenance task was to have run. Your control X-time. A list of workflows can also be supplied used to declare for which workflows a work item would restart. Any work item that otherwise matches the search condition are purged. Details of the purged work items could be captured in the task result or as a WorkItem Archive.

## Target Aggregation

A target aggregation task scans applications and aggregates activity targets from those applications. These targets are then used for activity monitoring and risk assessment.

Select the applications to include in the scan. If no applications are specified, all applications are included. Click the arrow to the right of the suggestion field to display a list of all target sources.

## Task Types

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Select **Include empty targets** to aggregate targets with no associated users or groups. By default, empty containers will not be included.

## How to Complete Task Work Items

Task work items are generated by task that require sign off on the results they create, and those sign off request that are forwarded by a designated signer. Sign off request are displayed on your Home Page and you are notified through an email when the work item is created.

Sign off decisions are retained with the task results for tracking purposes.

1. Click on a sign off type work item to display the sign off request.
2. Review the work item information in the Summary section.
3. Review the Comments section for any information associated with this work item.

### Refresh

4. Click **Click to View Task Results** in the Details sections to display the Task Results page.
5. Click **Return to Work Item** when you have completed your review of the task results.
6. Click on an action button to open the associated comments dialog and conclude this work session.

If you sign off on, or reject the sign off request, the status of the task results is updated to reflect that decision. You must specify a recipient If you forward the work item.