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Genesys Info Mart Operations Guide

Managing and Scheduling Jobs

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Managing and Scheduling Jobs

This page describes how to manage and schedule the Genesys Info Mart jobs, either automatically or manually, using Genesys Info Mart Server and Genesys Info Mart Manager.

For descriptions of the Genesys Info Mart jobs, see [About Jobs](#). For information about how Genesys Info Mart handles errors that it might encounter during job execution, see [Troubleshooting Genesys Info Mart jobs](#).

Important

- Before you can execute any job, you must complete the tasks in the [Genesys Info Mart Deployment Guide](#).
- The Genesys Info Mart Server checks the integrity of the Genesys Info Mart deployment and prevents any new job from starting if the configuration check encounters errors in the items that it validates. For more information about when Genesys Info Mart performs the configuration check and which items it checks, see the section about deployment verification in the chapter about maintenance and other activities in the *Genesys Info Mart 8.1 Deployment Guide* (link available [here](#)).

Scheduling jobs with Genesys Info Mart Server

The Genesys Info Mart Server launches jobs based on the scheduling options that you configure in the Genesys Info Mart application, with any necessary adjustments to accommodate logical rules that guide scheduling. (For convenience, this function is called the Scheduler.) The basic unit of scheduling is the ETL cycle. The ETL cycle performs the following functions:

- Extracts data from each data source.
- Transforms the extracted data, and loads the transformed data into the Dimension tables and the Fact tables.

Additional jobs run on a scheduled basis to perform the following functions:

- An optional aggregation process, which runs in parallel with the ETL cycle, runs continuously within configured time intervals to populate Aggregate tables, in an environment where either the Genesys historical reporting presentation layer (GCXI (or Reporting and Analytics Aggregates [RAA]) is deployed.
- **Job_MaintainGIM**, which runs outside the ETL cycle, purges data from the Info Mart database, in accordance with configurable data retention policies. The job also maintains the default and custom calendars. In partitioned databases, the job also maintains the partitions.
- In PostgreSQL deployments, **Job_UpdateStats**, which runs in parallel with the ETL cycle, performs supplementary database maintenance.

The following topics provide additional information about scheduling jobs:

- [Scheduling the ETL cycle](#)
- [Job sequencing rules](#)
- [Sample schedule](#)
- [Setting scheduling options for Genesys Info Mart Server](#)

Scheduling the ETL cycle

ETL Cycle Configuration Options—The options that control the ETL cycle enable you to specify the:

- Time of day that the first ETL cycle should begin
- Time of day that the final ETL cycle should begin
- Frequency of the ETL cycle

Non-ETL-Related Scheduling Options—You configure additional options to specify:

- Whether calculation of aggregates occurs in parallel with the ETL cycle
- The times of day when the purging of old Info Mart data should start and end
- In PostgreSQL deployments, whether and when **Job_UpdateStats** will run
- The time zone in which the schedule will be defined

The configuration options also enable you to:

- Temporarily stop Genesys Info Mart Server from launching scheduled jobs
- Stop Genesys Info Mart Server from launching the job that calculates the Aggregate tables
- Stop Genesys Info Mart from launching the job that purges old data from the Info Mart database

Job sequencing rules

Genesys expects that jobs will usually follow an orderly sequence in accordance with a configured schedule: **Job_ExtractICON** followed by **Job_TransformGIM** in repeated ETL cycles, with **Job_AggregateGIM** (in deployments with Genesys-provided aggregation) and **Job_UpdateStats** (in PostgreSQL deployments) running in parallel with the ETL cycle, followed by a daily run of **Job_MaintainGIM** in a maintenance window during which no other jobs are running.

You can start a job manually at any time from Genesys Info Mart Manager—for example, you might need to run **Job_MaintainGIM** in order to populate a reconfigured calendar or, if your Info Mart database is partitioned, in order to create new partitions before the next extraction.

Job_TransformGIM has a logical dependence on **Job_ExtractICON**, and **Job_AggregateGIM** has a logical dependence on **Job_TransformGIM**. That is, until you perform an extraction, there is nothing to transform, and until you have performed extraction and transformation, there is no data to aggregate. Genesys Info Mart does not enforce any rules regarding logical dependence. If you

manually run a job before the logically prior job has completed, the “later” job will simply not process any data.

To prevent deadlocks, it is important that no other jobs run while **Job_MaintainGIM** is running. Genesys Info Mart enforces this rule against parallel execution when jobs are run by the Scheduler.

Scheduler-run jobs

When you have Scheduler-run jobs on a configured schedule (see below, [Setting scheduling options for Genesys Info Mart Server](#)), Scheduler manages jobs automatically according to the following rules:

- The Genesys Info Mart Server does not start a job if there is another instance of that job already running.
- During a scheduled ETL cycle, Scheduler launches the transformation job after the extraction job completes.
- Scheduler ensures that the extraction and transformation jobs do not run at the same time as the maintenance job, which purges Info Mart data. If the last cycle of the extraction and transformation jobs is still running when the maintenance window starts, Scheduler waits for the extraction and transformation jobs to complete before it allows the maintenance job to start.
If a scheduled ETL cycle is set to begin before a maintenance job is finished, Scheduler stops the maintenance job and starts the ETL cycle.
- In PostgreSQL deployments, Scheduler allows **Job_UpdateStats** to run in conjunction with the ETL jobs. Scheduler will not wait for **Job_UpdateStats** to complete before it allows the maintenance job to start. However, once the maintenance job has started as part of the configured schedule, Scheduler suspends the schedule for **Job_UpdateStats** until the maintenance job finishes.

Jobs run from Genesys Info Mart Manager

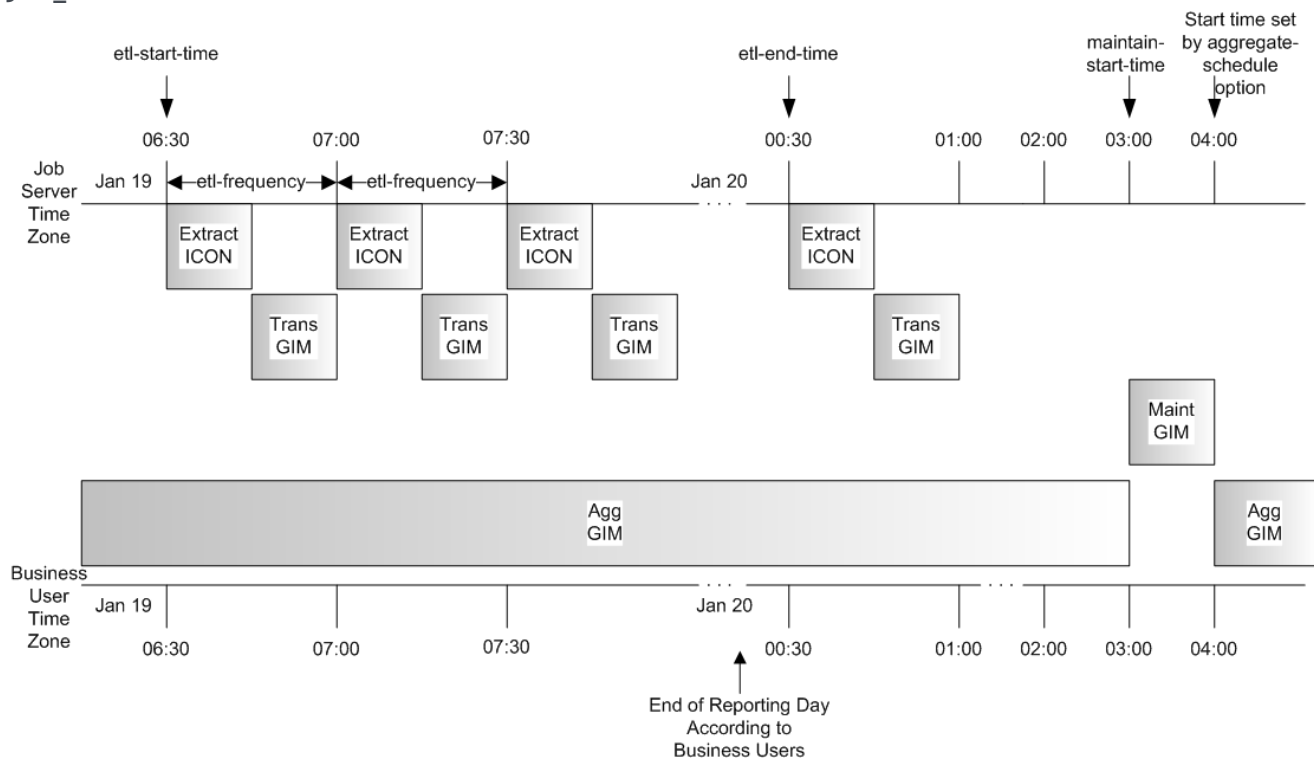
When you start a job from Genesys Info Mart Manager (see below, [Managing jobs with Genesys Info Mart Manager](#)) the Genesys Info Mart Server manages the jobs according to the following rules:

- The Genesys Info Mart Server does not start a job if there is another instance of that job already running.
- You can launch the transformation job manually from Genesys Info Mart Manager while an extraction job is running, but the transformation job will not do anything if no data has been extracted.
- The Genesys Info Mart Server does not prevent other jobs from running at the same time as the maintenance job. To prevent deadlocks that can lead to job failures, ensure that you suspend the ETL schedule and, in PostgreSQL deployments, the **Job_UpdateStats** schedule, before you run **Job_MaintainGIM** from Genesys Info Mart Manager.
- In the case of the aggregation job, Genesys Info Mart Server does not allow an instance of the job to run outside the regularly scheduled intervals within which **Job_AggregateGIM** has been configured to run. For example, if **Job_AggregateGIM** has been configured to run every day between 01:00 AM and 06:00 AM, you will not be able to launch **Job_AggregateGIM** manually from Genesys Info Mart Manager at any time outside that time period (for example, at 08:00 AM).

Sample schedule

The figure **Sample Genesys Info Mart Server Schedule** depicts a sample Genesys Info Mart Server job schedule that runs repeated ETL cycles throughout the day. The deployment includes

aggregation, and the aggregation job has been scheduled to run for 23 hours out of each day, leaving one hour each day when **Job_AggregateGIM** is stopped, providing an opportunity for **Job_MaintainGIM** to run.



The schedule options are set as follows:

```
etl-start-time = 06:30
etl-end-time = 00:30
etl-frequency = 30 minutes
maintain-start-time = 03:00
aggregate-schedule = 0 4
aggregate-duration = 23:00
timezone = <business user local time zone>
```

The schedule has been defined in the local time zone of the business user that will query the Info Mart data. Therefore, from the perspective of the business user, the Genesys Info Mart Server is in the same time zone, and the final extraction cycle, which begins at 00:30, contains all the reporting data from the previous day.

Important

Midnight in local time is considered to be the end of the reporting day for a particular time zone.

Setting scheduling options for Genesys Info Mart Server

The information in this subsection supplements information in the [Genesys Info Mart Deployment Guide](#) about configuring the Genesys Info Mart Application.

Use the following procedure to configure the Genesys Info Mart Server **[schedule]** options. Genesys Info Mart Server uses these options to launch the ETL, aggregation, maintenance, and, in PostgreSQL deployments, supplementary maintenance jobs. Each configuration option is related to one or more of the jobs.

The schedules for the ETL and maintenance jobs are defined in 24-hour time spans in the format HH:mm, where HH is the number of hours (00–23), and mm represents the number of minutes (00–59). The 24-hour schedule can span two calendar days. For example, if the **etl-start-time** is defined as 18:00 and the **etl-end-time** is defined as 06:00, the start time is 6:00 PM one day and the end time is 6:00 AM the following day.

For information about the functions of the jobs, see [Understanding Genesys Info Mart jobs](#). For information on job interdependencies, see [Job sequencing rules](#).

Procedure: Setting up the Genesys Info Mart jobs schedule

Purpose: To create or modify the schedule for running Genesys Info Mart jobs.

You can perform this procedure at any time, even while Genesys Info Mart jobs are running. Changes take effect immediately.

Steps

1. In the interface you use to configure your Genesys applications, navigate to the **Options** tab of the Genesys Info Mart **Application** object.
2. Navigate to the **[schedule]** section.
3. (Optional) Time Zone—Enter a value for `timezone` to specify a local time zone in which you want to define the schedule. You can use any valid time zone that is supported by the version of the Java Runtime Environment (JRE) that runs the Genesys Info Mart Server. The default time zone is GMT.
4. ETL Schedule—Set the options that control the ETL schedule:
 - a. Enter a value for `etl-start-time` to specify the time of day that the first ETL cycle begins.
 - b. Enter a value for `etl-end-time` to specify the time of day that the final ETL cycle begins. The **etl-end-time** value should be a time of day when no other ETL cycles will begin.
 - c. Enter a value for `etl-frequency` to specify the number of minutes between the start times of adjacent ETL cycles.
If the time that it takes to complete a cycle is shorter than the ETL frequency, the next cycle

is delayed until the time interval is met. If the time that it takes to complete a cycle is greater than this value, the next cycle starts immediately.

Important

Various **extract-*** options in the **[gim-etl]** section control aspects of extraction and transformation job functioning that significantly affect ETL cycle performance. When you set the ETL scheduling options, consider the values of these related options as well. For more information, see the configuration recommendations in the chapter about ETL processing in the *Genesys Info Mart 8.1 Deployment Guide*. See also the **gim-etl Section** option descriptions in the *Genesys Info Mart Configuration Options Reference*.

5. To start or resume the ETL schedule, set `run-scheduler` to `true`. You can set this option to `false` to temporarily stop Genesys Info Mart Server launching jobs.
6. Routine Maintenance for PostgreSQL—In PostgreSQL deployments, configure Genesys Info Mart to update statistics regularly and perform additional supplementary maintenance:
 - a. Set `run-update-stats` to `true`. This option specifies whether the Genesys Info Mart Server launches the supplementary maintenance job, **Job_UpdateStats**, as scheduled.
 - b. Set `update-stats-schedule` to the start time and time intervals at which you want the job to run every day. The value must be expressed as a valid CRON expression—a string, which in this case uses only two fields, minute and hour, separated by whitespace. For more information, see the extended description of the option in the *Genesys Info Mart Configuration Options Reference*.
The default value (`0/10 *`) schedules the job to run every 10 minutes throughout the day. You do not need to consider the ETL and maintenance schedules when setting the **Job_UpdateStats** schedule, for reasons that are described in **Job sequencing rules**.
7. Aggregation Schedule—If you plan to use the Info Mart historical Aggregate tables:
 - a. Set `run-aggregates` to `true`. This option specifies whether the Genesys Info Mart Server launches the job, **Job_AggregateGIM**. This job calculates the Aggregate tables based on newly added or changed data in the fact tables.
 - b. Set `aggregate-schedule` to the time that you want the aggregation job to start (as long as it is not currently running, such as following the initial deployment of the aggregates). The value must be expressed as a valid CRON expression—a string, which in this case uses only two fields, minute and hour, separated by whitespace.
For example, to set the aggregation start time to 2:30 AM, enter the value `30 2`. For another example, see **Sample schedule**. For more information, see the extended description of the option in the *Genesys Info Mart Configuration Options Reference*.
 - c. Set `aggregate-duration` to the length of the period, in `HH:mm` format, during which the aggregation job will run after each launch. Within the time intervals defined by the **aggregate-schedule** and **aggregate-duration** options, the aggregation job runs continuously.
For example, to have aggregation run for the twelve hours following the start time, set the value for the duration option to `12:00`. For another example, see **Sample schedule**.
 - d. Navigate to the **[gim-etl]** configuration section and set `aggregation-engine-class-name`. This option specifies the class name of the aggregation package.

In order for Aggregate tables to be created and populated in the Info Mart database, you must deploy RAA.

If you do not plan to use the Info Mart Aggregate tables, keep the default value of the **run-aggregates** option (false). This setting ensures that the Genesys Info Mart Server does not launch **Job_AggregateGIM** in deployments where the Genesys-provided aggregation engine is not deployed.

8. Maintenance Schedule—If you plan to run the maintenance job daily, configure the maintenance job schedule:
 - a. Set run-maintain to true. This option specifies whether the Genesys Info Mart Server launches the maintenance job, **Job_MaintainGIM**, as scheduled.
 - b. Set maintain-start-time to the time of day that you want Genesys Info Mart to launch **Job_MaintainGIM**. The time of day must be outside the range that is specified by **etl-start-time** and **etl-end-time**. The Genesys Info Mart Server will not start **Job_MaintainGIM** until the **maintain-start-time** has been reached or when other jobs are running.

Important

You must run the maintenance job regularly if your Info Mart database is partitioned. Genesys strongly recommends that you configure a schedule for the maintenance job if your Info Mart database is partitioned, if you plan to purge eligible data from the Info Mart database, or if your deployment uses custom calendars.

For information about setting the retention policy options that determine what data will be purged when **Job_MaintainGIM** executes, see the section about purging the Info Mart database in the chapter about maintenance and other activities in the *Genesys Info Mart 8.1 Deployment Guide* (link available [here](#)). See also the descriptions of the **days-to-keep-*** options on [gim-etl Section](#) in the *Genesys Info Mart Configuration Options Reference*.

9. Export Schedule—Optionally, enable the export of data from the Info Mart database into local .csv files by modifying configuration settings in the Genesys Info Mart Application object to enable the export function for your deployment:
 - a. Create a new **[gim-export]** configuration section, if it does not already exist. Within this section:
 - i. Configure the output-directory configuration option with a value that defines the path to the export storage folder. By default, the folder is named **output** and is created within the Genesys Info Mart installation directory.
 - ii. Configure the days-to-keep-output-files configuration option with a value that defines the number of retention days for the exported data. The default value is 14 days.
 - iii. If you want **Job_ExportGIM** to use export views to export your data, set use-export-views to true.
 - b. In the **[schedule]** configuration section, create a new **export-schedule** configuration option (if it does not already exist) and set a value that defines the schedule for **Job_ExportGIM**. The value must be a valid CRON expression. (For details on the format, see the extended export-schedule description in the *Genesys Info Mart Configuration Options Reference*.) By default, the export job runs at 00:20, 08:20, and 16:20 each day.

- c. If necessary, make changes to the default settings for other configuration options that control **Job_ExportGIM**:
 - chunk-size-seconds
 - max-retries
 - output-files-encoding
 - retry-delay-seconds
 - start-date
 - thread-pool-size
- d. In the **[schedule]** section of the Genesys Info Mart Application object, create a new run-export configuration option (if it does not already exist) and set it to `true`, to start running the export job according to the schedule.

Managing jobs with Genesys Info Mart Manager

Tip

Watch the Genesys Info Mart Manager "how to" videos:

- [Genesys Info Mart Manager: Viewing the job history](#)
- [Genesys Info Mart Manager: Viewing ETL Status, running jobs, and more](#)

Normally, the Genesys Info Mart Server launches scheduled jobs automatically. However, you can use the Genesys Info Mart Manager to:

- Execute a single job as needed.
- Cancel a job that is in Scheduled status. (A *scheduled* job is one that did not start immediately (for example because it cannot run while another job is running, and another job was already running), but it will start later.)
- Stop a running job.

For example, you can use this functionality in Genesys Info Mart Manager to:

- Execute one or more jobs to recover from job failures.
- Execute **Job_ExtractICON** following the update of configuration data in Interaction Database (IDB) with the Interaction Concentrator (ICON) on-demand resynchronization feature.

- Manually run the job that aggregates Info Mart data (**Job_AggregateGIM**), provided that Genesys Info Mart has not been configured to run the aggregation job on a schedule. (In other words, you can start or stop **Job_AggregateGIM** from the Genesys Info Mart Manager only if the **run-aggregates** configuration option, in the [schedule] section, has been set to false.)
- Manually run **Job_AggregateGIM** to re-aggregate Info Mart data.
- Run the maintenance job outside the scheduled time, provided that no instances of other jobs are running.
- Execute a single job as needed.
- Selectively shut down a running job.

Important

You cannot use Genesys Info Mart Manager to run **Job_UpdateStats** or **Job_ExportGIM**.

Job management procedures

The following procedures describe how to use Genesys Info Mart Manager to manage jobs:

- [Running jobs one by one](#)
- [Running a job immediately](#)
- [Re-aggregating data](#)
- [Canceling a scheduled job](#)
- [Stopping a running job](#)

Procedure: Running jobs one by one with Genesys Info Mart Manager

Purpose: This procedure describes how to run jobs manually, one by one, for testing or troubleshooting purposes.

Initially after deploying Genesys Info Mart, you may want to run the jobs one by one to test the best values for various configuration options, rather than immediately scheduling them to run routinely. Or, rarely, you may need to run jobs one by one while troubleshooting.

Steps

1. ETL Cycle Jobs—Set the **run-scheduler** configuration option (in the **[schedule]** section on the Genesys Info Mart **Options** tab) to false.

2. Follow the steps in [Running a job immediately](#) to run the jobs that perform ETL processing. Run the jobs in the following order:

- **Job_ExtractICON** (see the following Note)
- **Job_TransformGIM**

Important

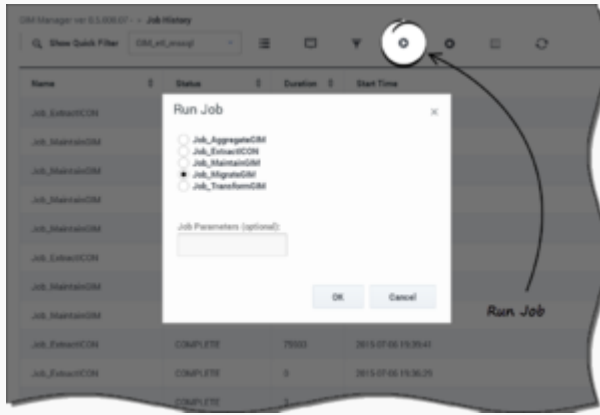
The extraction job extracts data from all available IDBs, for all extraction roles. When you have completed your trial runs or troubleshooting, restore normal running conditions by setting the **run-scheduler** configuration option to true to have the Genesys Info Mart Server launch jobs based on a schedule you configure in the Genesys Info Mart application. For more information, see [Setting scheduling options for Genesys Info Mart Server](#).

3. Aggregation Job—If your deployment includes aggregation and you want to run **Job_AggregateGIM** as a non-scheduled job, set the run-aggregates configuration option (in the **[schedule]** section on the Genesys Info Mart **Options** tab) to false.
4. Follow the steps in [Running a job immediately](#) to start **Job_AggregateGIM**. The job will run continuously until you manually stop it, or until you reset the run-aggregates configuration option from false to true and the configured daily schedule comes into effect.
5. Maintenance Job—Set the **run-maintain** configuration option (in the **[schedule]** section on the Genesys Info Mart **Options** tab) to false.
6. In the job list of the Genesys Info Mart Manager, verify that no other jobs are running.
7. Follow the steps in [Running a job immediately](#) to start **Job_MaintainGIM**. After the initial run, you can set the **run-maintain** configuration option to true, so that the Genesys Info Mart Server launches the maintenance job based on the schedule you configured in the Genesys Info Mart application. For more information, see [Setting scheduling options for Genesys Info Mart Server](#).

Procedure: Running a job immediately with Genesys Info Mart Manager

Purpose: This procedure describes how you can use Genesys Info Mart Manager to run a job immediately.

Steps



Genesys Info Mart Manager Run Job Dialog Box

1. In Genesys Info Mart Manager, click **Run Job**. The **Run Job** dialog box appears, as shown in the Figure **Genesys Info Mart Manager Run Job Dialog Box**.
2. From the list, select the job that you wish to execute.

Important

Only **Job_AggregateGIM** supports parameters. For all other jobs, leave the **Job Parameters** field blank. For more information, see [Re-aggregating data](#).

3. Click **OK**.
The job you have started appears in the job list. You can find it more easily by sorting the list (for example, by Start Time, or by Status). The job you ran will have one of the following status values:
 - Running
 - Scheduled—This indicates that the job did not start immediately (for example because it cannot run while another job is running, and another job was already running), but it will start later.
 - Failed—This indicates that an error occurred when the job tried to run.

Important

Job status is not automatically updated. To see the current status of a job (for instance, to see if a Running job has completed) click **Refresh**.

Procedure: Re-aggregating data with Genesys Info Mart Manager

Purpose: This procedure describes how you can use Genesys Info Mart Manager to re-aggregate data.

Important

Re-aggregation is possible only if aggregation is already running. If you attempt to run **Job_AggregateGIM** with the re-aggregation job parameters when aggregation is not running, Genesys Info Mart starts aggregation, ignoring the job parameters. In this case, you can re-aggregate by running the job, with the re-aggregation parameters, a second time.

A request to re-aggregate data for a specific time range first deletes aggregated data from that time range (to prevent duplicate data from being written to Info Mart). Before you issue a re-aggregation command, make sure that facts for your selected time range exist in the Info Mart database and have not been purged. Otherwise, you could be left with no aggregates at all for that time range.

Prerequisites: **Job_AggregateGIM** is running, either in accordance with the configured job schedule or else because you started it manually. If necessary, follow the steps in [Running a job immediately](#) to start **Job_AggregateGIM**.

Steps

1. In Genesys Info Mart Manager, click **Run Job**. The **Run Job** dialog box appears (see the Figure **Genesys Info Mart Manager Run Job Dialog Box**).
2. In the Run Job list, select **Job_AggregateGIM**.
3. In the Job Parameters field, enter:
 -insertPendingAgg <AGR_SET>:<START>:<END>
 where:
 - <AGR_SET> indicates what set to aggregate (ALLSETS, or an aggregate set name). Aggregate set name is formatted as follows: <HIERARCHY_NAME>-<AGG_LEVEL> [.Flavor] where:
 - <HIERARCHY_NAME> is a comma-separated list that contains one or more of the following RAA hierarchies, or no value at all: H_AGENT, H_ID, H_I_STATE_RSN, H_QUEUE_GRP, H_QUEUE_ABN, H_AGENT_GRP, H_I_AGENT, H_QUEUE, H_AGENT_CAMPAIGN, H_AGENT_QUEUE, H_I_SESS_STATE, H_QUEUE_ACC_AGENT, H_CAMPAIGN
 - <AGG_LEVEL> is the aggregation level (SUBHOUR, HOUR, DAY, MONTH, QUARTER, YEAR).
 - [.Flavor] is an optional parameter indicating whether to include only online or offline data (Online or Offline).
 - <START> is a value (YYYY-MM-DD) from the DATE_TIME table that indicates the beginning of the reporting interval.

- <END> is a value (YYYY-MM-DD) from the DATE_TIME table that indicates the end of the reporting interval.

Re-Aggregation Parameter Examples—For example, to re-aggregate:

- All aggregates for a one-month period:
-insertPendingAgg ALLSETS:2014-05-01:2014-05-31
- A particular hierarchy for a specific day:
-insertPendingAgg H_QUEUE-HOUR:2014-05-01:2014-05-02
- Only one flavor of aggregate for a specific day:
-insertPendingAgg H_I_AGENT-SUBHOUR.Offline:2014-05-01:2014-05-02

4. Click **OK**.

Use the Genesys Info Mart log to monitor the status of re-aggregation.

Procedure: Canceling a scheduled job with Genesys Info Mart Manager

Purpose: This procedure describes how to cancel the **Run Job** command for a job that has not yet begun to run (in other words, that has a status of *Scheduled*).

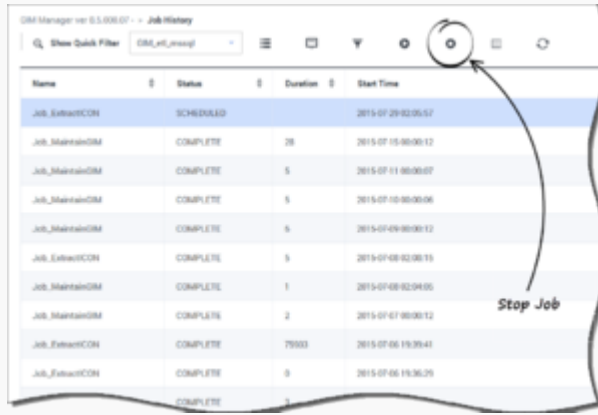
Steps

1. In Genesys Info Mart Manager, select the job (with the status *Scheduled*) that you want to cancel.
2. Click **Stop Job**. The job disappears from the list.

Procedure: Stopping a running job with Genesys Info Mart Manager

Purpose: This procedure describes how to stop a running job.

Steps



Stop job

1. To stop **Job_AggregateGIM**, first set the **run-aggregates** configuration option in the Genesys Info Mart Application to false.

Important

If **run-aggregates** is set to true, the scheduler ensures that **Job_AggregateGIM** runs continuously during the interval specified by the configured start time and duration. Thus, if **Job_AggregateGIM** is running under the control of the scheduler and you try to stop the job during the interval in which it has been configured to run, the scheduler automatically restarts the job almost immediately.

2. In Genesys Info Mart Manager, select the job that you want to stop. You can stop jobs that have a status of Running or Scheduled.
3. Click the **Stop Job** button, as shown in the Figure **Stop Job**. It may take a few moments for the job to stop.