

Task Scheduler

Last Modified on 05/21/2025 12:07 pm CDT

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Tool Search: Task Scheduler

The Task Scheduler tool allows users to schedule and manage automated system tasks. For example, the Task Scheduler can be used to regulate and execute the following types of tasks:

- **Built-in system tasks** - maintenance, data exchange, Campus processes
- **Custom maintenance tasks** - user-created tasks (e.g., attendance, grading, user management)
- **Reporting** - including district, state, custom, SQL, etc.

Use the Task Scheduler tool to set the dates and times for running SQL queries or Prism URL calls from the Campus database. Recurring tasks may be set to run hourly, daily, weekly or on monthly rotations. One-time tasks may also be scheduled.

Task Scheduler ☆

System Settings > System Processes > Task Scheduler

New Task

Scheduled Task List			
Name	Start Date	Frequency	
*SupportTest	12/18/2023 09:02:00		
Alternative Program Calendar Maintenance	07/10/2018 17:25:00	Daily	
Alternative Program Student Maintenance	11/28/2018 21:35:00	Daily	
AZ SAIS Automated Download	08/31/2012 00:00:00	hourly	
AZ SAIS Automated Upload	08/31/2012 12:00:00	daily	
Batch Queue Maintenance	06/25/2012 00:00:00	Daily	

Several areas of the Campus product rely on the *taskScheduler* for functional purposes, including:

- **Batch Queue**- The [Batch Queue](#) / [Admin Queue](#) tools use the task scheduler to schedule batch reports.
- **Data Warehouse** - The task scheduler schedules and triggers periodic refreshes of the Data Warehouse tools.
- **Point of Sale** - Districts using Point of Sale tools and functionality will see a scheduled task for messaging between the student system and the POS terminal application. This task updates balances to allow the POS terminals and a patron's journal account to reflect the same balance. This task is read-only and does not allow end user modifications; it is for viewing purposes only.
- **Voice and/or Email Messenger** - The task scheduler allows message delivery scheduling and maintenance. Attendance and behavior messages are scheduled and triggered by user-defined settings in the Task Scheduler tool.

Technical Details and Integration

The Task Scheduler tool represents the *taskScheduler* element of the campus.xml file. The *taskScheduler* element executes various system tasks required for optimal use of the Campus system. Infinite Campus Hosting staff enables the *taskScheduler* element and creates built-in tasks, as necessary for Campus system use.

When the *taskScheduler* is enabled, a district can schedule and manage automated tasks through the Task Scheduler tool.

The *taskScheduler* is enabled when its value is set to "true" within the campus.xml file.

If using an application server pool, only one server in the pool should have *taskScheduler* enabled. Infinite Campus hosting generally enables *taskScheduler* on the first application server in a server pool.

Users who define and schedule tasks in the Task Scheduler need full access rights (**RWAD**) to the tool.

Rights to the Task Scheduler tool should be restricted. Modifying Task Scheduler settings could seriously affect server performance and data processes. Preferably, only a system administrator should have rights to this tool.

Scheduled Task List Editor

The Scheduled Task List editor on the Task Scheduler tool displays a list of existing, active, and inactive tasks.

The task list displays a green or red circle to indicate the task's status.

- A green circle indicates the task is currently active.
- A red circle indicates the task is currently inactive. If a task is red (inactive), the Stop/Pause Execution check box is flagged on the task or the *taskScheduler* is not enabled.

At the bottom of the Schedule Task Detail editor, a message indicates whether or not the *taskScheduler* is enabled.

+ New Task
S Save
X Delete

Name	Start Date	Frequency	
AnchorageResidesExport	02/08/2012 08:00:00	Daily	●
Batch Queue Maintenance	10/06/2010 00:00:00	Daily	●
BehaviorMessenger--H	05/06/2010 13:03:00		●
casedddd	04/05/2012 17:44:00		●
CDR Maintenance	12/23/2013 05:00:00	Daily	●
CleanUpProcessInbox - Extra	08/19/2009 01:20:00	Daily	●

Scheduled Task Detail

***Name**

***Start Date/Time**

Tool Code

Task Type

☐ SQL Script

Stop/Pause Execution

☐

Recurring Frequency

Daily

Note: This task is locked and is not configurable using this interface.

Task Scheduler is NOT currently running on this district server. Please configure Task Scheduler in the campus.xml. If the district is on a cluster, ONLY ONE server needs the scheduling thread. If you need assistance please call Infinite Campus Support.

Red indicates the task is inactive

Green indicates the task is active

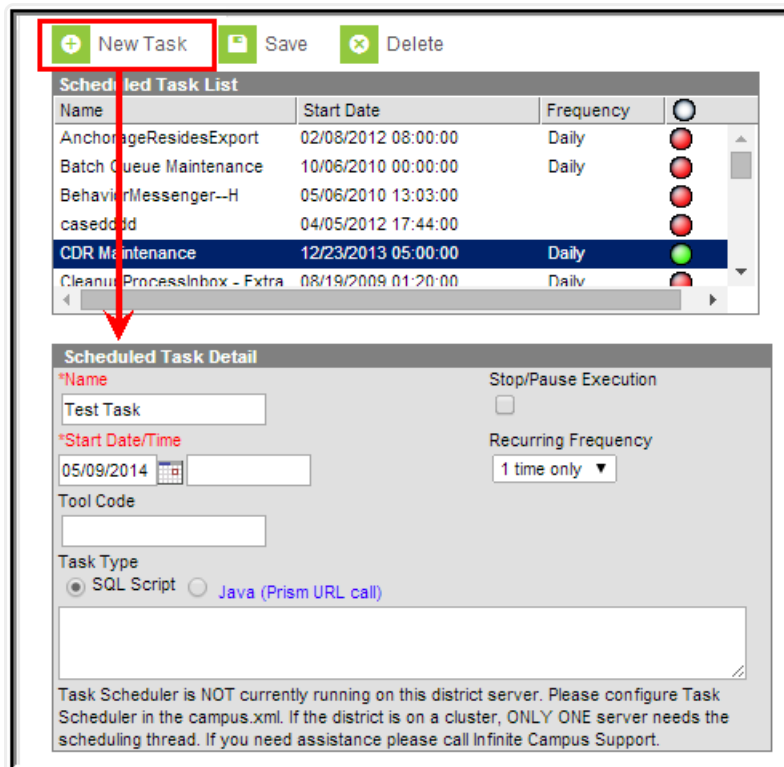
Indicates whether or not the Task Scheduler is enabled.

Schedule Task List Editor

Create a New Task

New tasks are only created for custom district/state procedures. Tasks needed for functionality of other Campus tools already exist within Campus.

The Scheduled Task List editor shows both custom and built-in tasks. Certain built-in tasks are for viewing purposes only and cannot be modified.



The screenshot shows the 'Scheduled Task List' table with columns: Name, Start Date, Frequency, and a status icon. The 'CDR Maintenance' task is highlighted. Below the table is the 'Scheduled Task Detail' form with fields for Name, Start Date/Time, Tool Code, Task Type (SQL Script or Java), and a text area for the task script. A red box highlights the 'New Task' button in the top action bar, and a red arrow points from it to the 'Scheduled Task Detail' form.

Create New Task

1. Select the **New Task** icon from the action bar. The **Scheduled Task Detail** editor displays.
2. Enter information in the required **Name** and **Start Date/Time** fields. Indicate **AM** or **PM** for time field.
3. Select a **Task Type (SQL Script or Java)**.
4. Enter the commands/script in the text box below the **Task Type**.
5. Complete additional, non-required fields as necessary.
6. Click the **Save** button when finished.




Field Definitions







Field	Definition
Name	The name of the scheduled task.
Stop/Pause Execution	<p>If flagged, this checkbox indicates the task is not actively occurring.</p> <p>Inactive tasks will not occur, even if the current date is after the Start Date/Time set on the task and a Recurring Frequency has been set.</p>
Start Date/Time	<p>The time of day the task should be triggered for the first time.</p> <p>When a task is initially created, the time (and/or date) should be set at least five minutes in the future to avoid server clock discrepancies.</p> <p>Indicate AM or PM with a time or set it to military time.</p>

Field	Definition
Recurring Frequency	The pattern of repetition the task should follow. Options include: <ul style="list-style-type: none"> • Hourly • Daily • Weekly • Monthly • 1 Time Only (indicates task will not repeat)
Tool Code	This field is only for the auto-populated tool code of centralized printing tasks for reporting purposes. <div style="background-color: #fff9c4; padding: 10px; margin-top: 10px;"> The user should not enter or modify anything in this field. </div>
Task Type	Indicates the type of task, either SQL Script or Java (Prism URL call).

Batch Queue Maintenance Task

The Batch Queue Maintenance task is an automated task that deletes old reports from the [Batch Queue / Admin Queue](#) tools. If this task applies to a district or state, it will appear in the Task Scheduler.

 New Task
 Save
 Delete

Scheduled Task List			
Name	Start Date	Frequency	
AnchorageResidesExport	02/08/2012 08:00:00	Daily	
Batch Queue Maintenance	10/06/2010 00:00:00	Daily	
BehaviorMessenger--H	05/06/2010 13:03:00		
casedddd	04/05/2012 17:44:00		
CDR Maintenance	12/23/2013 05:00:00	Daily	
CleanUpProcessInbox - Extra	08/19/2009 01:20:00	Daily	

Scheduled Task Detail

***Name**

Stop/Pause Execution

☒

***Start Date/Time**

Recurring Frequency

Daily

Tool Code

Task Type

☐ SQL Script
☒ [Java \(Prism URL call\)](#)

x=batchQueue.BatchQueueMaintenance-procedure

Task Scheduler is NOT currently running on this district server. Please configure Task Scheduler in the campus.xml. If the district is on a cluster, ONLY ONE server needs the scheduling thread. If you need assistance please call Infinite Campus Support.

Batch Queue Maintenance Task

This task will clear completed reports from the [Batch Queue / Admin Queue](#) tools after they have exceeded the maximum number of days they are allowed to remain. The maximum number of

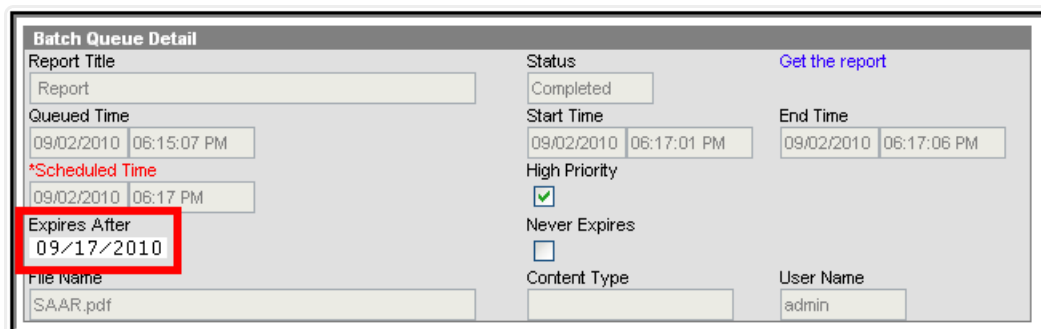
days is set in the **Batch Queue Expiration Days** field of the [System Preferences](#).

When a report is deleted from the [Batch Queue](#) / [Admin Queue](#) tools by this task, the details of its generation still appear on the [Batch Queue](#) / [Admin Queue](#) tools for tracking purposes (though the report itself was deleted).

The Batch Queue Maintenance task's default setting is to execute every night at midnight. However, execution settings for this task may be modified as necessary. This task can be deleted from the Scheduled Task List; however, it will be automatically rebuilt the next time the application server is restarted. If this task should be disabled, the **Stop/Pause Execution** checkbox should be marked.

View Reports Scheduled for Deletion

Each report displayed in the [Batch Queue](#) / [Admin Queue](#) tools will display its specific deletion date in the **Expires After** field of the Batch Queue Detail editor. This is the date the report will be removed from the queue, as long as the Batch Queue Maintenance task is executed. If the maintenance task is not executed on that date, the report will be deleted the next time the maintenance task runs.



Batch Queue Detail	
Report Title	Status
Report	Completed
Queued Time	Start Time
09/02/2010 06:15:07 PM	09/02/2010 06:17:01 PM
*Scheduled Time	End Time
09/02/2010 06:17 PM	09/02/2010 06:17:06 PM
Expires After	High Priority
09/17/2010	<input checked="" type="checkbox"/>
File Name	Never Expires
SAAR.pdf	<input type="checkbox"/>
	Content Type
	User Name
	admin

Example of a Report Scheduled for Deletion

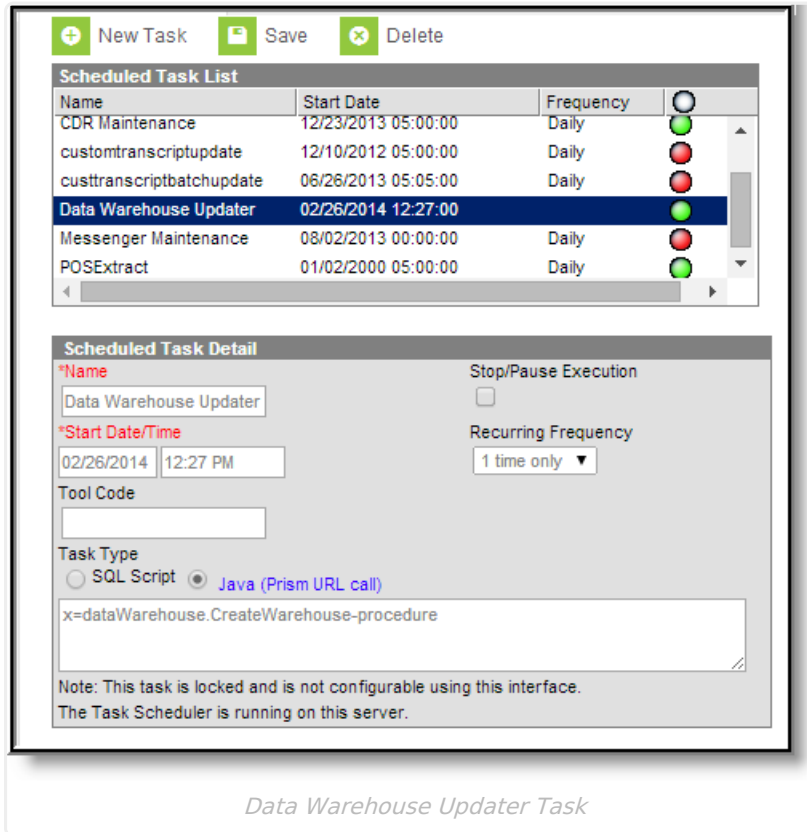
The Batch Queue Maintenance task will NOT delete any report that has been manually excluded from the deletion process. These reports will have the **Never Expires** checkbox marked and the **Expires Date** crossed out within the Batch Queue Detail editor of the [Batch Queue](#) / [Admin Queue](#) tool.

When a report is deleted from the [Batch Queue](#) / [Admin Queue](#) tools by this task, the details of its generation will still appear on the [Batch Queue History](#) tab for tracking purposes (though the report itself was deleted).

Data Warehouse Tasks

A scheduled task called the Data Warehouse Updater Task may exist within the Task Scheduler. It assists data backup on behalf of the Data Warehouse Settings tools.

Data warehousing users will see a read-only **Data Warehouse Updater** scheduled task. When applicable, Infinite Campus staff will insert this task for a customer.



The screenshot shows a web-based Task Scheduler interface. At the top, there are buttons for 'New Task' (with a plus icon), 'Save' (with a floppy disk icon), and 'Delete' (with an X icon). Below these is a 'Scheduled Task List' table with columns for Name, Start Date, Frequency, and a status indicator (a circle with a green or red dot). The table lists several tasks, with 'Data Warehouse Updater' highlighted in blue. Below the table is a 'Scheduled Task Detail' section. It contains fields for Name (Data Warehouse Updater), Start Date/Time (02/26/2014 12:27 PM), Tool Code (empty), Task Type (radio buttons for SQL Script and Java (Prism URL call), with Java selected), and a text area containing 'x=dataWarehouse.CreateWarehouse-procedure'. There are also checkboxes for 'Stop/Pause Execution' and a dropdown for 'Recurring Frequency' set to '1 time only'. A note at the bottom states: 'Note: This task is locked and is not configurable using this interface. The Task Scheduler is running on this server.'

Data Warehouse Updater Task

Custom District Tasks

The following examples are custom district tasks that may be useful for Campus system administrators.

Infinite Campus highly recommends testing these custom tasks in a non-production site before implementing them on a live site.

This section includes example queries for the following custom district tasks:

- [Update Unknown Absences to Unexcused Absences](#)
- [Insert "NA" for Grading Scores](#)
- [Delete "NA" Grading Scores](#)
- [Update Custom Tabs with Custom District Data](#)
- [Hide Administrator Passwords](#)
- [Delete Scores from Grading Task](#)
- [Update Special Education Exit Dates with Enrollment Exit Dates](#)

- [Update the Special Education Exit Reason](#)
- [Remove Course from Transcript's Cumulative GPA](#)
- [Force Staff Password Changes](#)

Update Unknown Absences to Unexcused Absences

This query can be used to update all existing unknown absences to unexcused absences.

Note: This query was updated to account for cross-site enrollment, where absence information is matched between two different locations without the need for them to be manually updated.

The district must change the codes at the end of the SET/CASE statement to the codes appropriate to the district.

```
UPDATE a
SET a.excuseid = case COALESCE(x.status, a.status)
WHEN 'A' THEN (SELECT AE.excuseid FROM AttendanceExcuse AE WHERE a.calendarid = ae.calendarid AND ae.[code] = 'A')
WHEN 'T' THEN (SELECT AE.excuseid FROM AttendanceExcuse AE WHERE a.calendarid = ae.calendarid AND ae.[code] = 'T')
END
FROM dbo.Attendance a
LEFT OUTER JOIN dbo.AttendanceExcuse x ON x.excuseID = a.excuseID AND x.calendarID = a.calendarID
INNER JOIN calendar c ON c.calendarid = a.calendarid
INNER JOIN schoolyear sy on sy.endyear = c.endyear
WHERE (a.excuse is null and x.excuse is null) and a.crosssitesection = 0
AND sy.active=1
```

Insert "NA" for Grading Scores

This query inserts "NA" for a score and a NULL percent for a specific task and calendar.

```
UPDATE gradingScore
SET score = 'NA', [percent] = NULL
WHERE taskID = '4' and calendarID = '38'
```

Delete "NA" Grading Scores

This query deletes "NA" and NULL percent grading scores.


```
DELETE gradingscore
WHERE taskID = '4'
AND calendarID <> '38'
AND score = 'NA'
AND [percent] IS NULL
AND comments IS NULL
```

Update Custom Tabs with Custom District Data

This query is an example of updating a custom tab with data from a custom district table (generally, this data is from another software application and has been inserted into the Custom District table by matching personIDs).

```
INSERT INTO customstudent (personid,attributeid,[value],[date])
SELECT personID,287,1,getdate()
FROM MyCustomStudentTable mcst
WHERE mcst.specificValue = 'M'
```

Hide Administrator Passwords

This query sets the password to “REMOVE” for a specific list of users in the logged transaction file and hides the administrator passwords from people with rights to user security tools.

```
UPDATE securityAccess
SET password = 'REMOVE'
FROM securityAccess
WHERE username IN ('AdminUser1','AdminUser2','AdminUser3','AdminUser3')
```

Delete Scores from Grading Task

This query deletes all scores for a specific task; e.g., removing eligibility scores weekly so teachers can re-post to the same task without needing to create "W1 eligibility," "W2 Eligibility," "W3Eligibility" tasks.

```
DELETE
FROM GradingScore
WHERE taskID = '7'
```

Update Special Education Exit Dates with Enrollment Exit Dates

This query updates special education exit dates with the enrollment exit dates for the current school year and a specific end status.

```
UPDATE enrollment
SET enrollment.spedExitDate = e.enddate
FROM enrollment e
INNER JOIN calendar c ON e.calendarID = c.calendarID
INNER JOIN schoolyear sy ON c.endyear = sy.endyear
WHERE e.enddate IS NOT NULL AND e.specialEdStatus = 1 AND e.spedExitDate IS NULL
AND sy.active = 1 AND e.endStatus NOT LIKE 'S%'
```

Update the Special Education Exit Reason

This query updates the special education exit reason with specific codes depending on the enrollment end status.

```
UPDATE enrollment
SET enrollment.spedExitReason = Case e.endStatus WHEN 'W1' THEN '5'
WHEN 'W10' THEN '5' WHEN 'W9' THEN '5' WHEN 'W7' THEN '2' WHEN 'W8' THEN '4' WHEN 'W6' THEN '3' ELSE '7' END
FROM enrollment e INNER JOIN calendar c ON e.calendarID = c.calendarID
INNER JOIN schoolyear sy ON c.endyear = sy.endyear
WHERE e.enddate IS NOT NULL AND e.specialEdStatus = 1 AND e.spedExitReason IS NULL
AND sy.active = 1 AND e.spedExitDate = e.enddate AND e.endStatus NOT LIKE 'S%'
```

Remove Course from Transcript's Cumulative GPA

This query gives a course a GPA weight of NULL so the course does not affect the transcript's cumulative GPA calculations.

```
UPDATE transcriptcourse
SET gpaweight = null
WHERE score IN ('P','F','6','8','9')
AND gpaweight IS NOT NULL
```

Force Staff Password Changes

Updates the force change passwords for employees (other than the administrator account).

```
UPDATE ua
SET ua.forcechangepassword = 1
FROM useraccount ua
INNER JOIN EmploymentAssignment ea ON ea.personID = ua.personID
AND (ea.startdate <= GETDATE() AND (ea.enddate IS NULL OR ea.enddate >= GETDATE()))
WHERE 1=1
and (ua.homepage <> 'portal/main.xml' or ua.homepage is NULL) AND ua.username NOT IN ('AdminUser1','AdminUser
2','AdminUser3','AdminUser3')
```