Scheduling Reports and the Job Scheduler

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Overview

Scheduling Options

Single Report	Report Bundle		
	Cron		
Cron Job	Event		
	Immediate		

• Job Scheduler



- SSDT Wiki > USAS Documentation > Appendix
- Scheduling a Report to run via a Cron Job
 - Schedule a single report to run on a regular interval

Scheduling a Report to run via a Cron Job

Created by Unknown User (drewes), last modified by Pat Zelei on Sep 30, 2022

To schedule a template or custom report to run for a specific day and/or time, the job scheduler icon can be used in the 'Generate Report' window. This is a one-time setup which will then generate the report based on the cron expression and automatically email it to a specified recipient. You can use a free online cron expression generator to generate your cron expression.

- Generate Report from Home or Report Manager
- Locate Scheduler Icon below "Generate Report" button







- Job Name Must be unique for each scheduled Job
- Cron Expression A command set up to run periodically at fixed times, dates, or intervals
- Send Output to This can be the email of the intended recipient or a path to the File Archive



- Cron Expression
 - 7 spots that indicate a specific interval

Seconds	Minutes	Hours	Day Of Month	Month	Day Of Week	Year
0	0	0	?	*	*	*



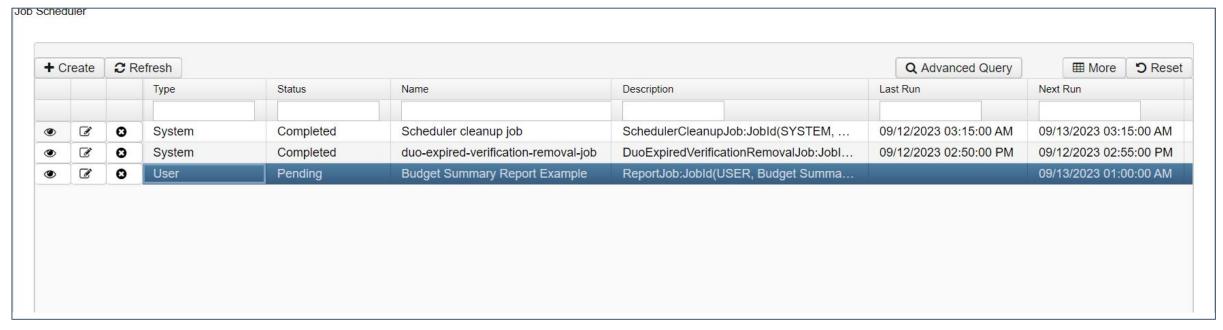


- Cron Expression
 - Use Generator to build an expression
 - Copy/Paste the Cron expression examples
 - Describe Expression or Next Execution Dates



- Send Output to Email
 - Enter email of intended recipient
 - Enter multiple email addresses by separating each with a comma
 - The recipient is not required to have a user account for USAS-R

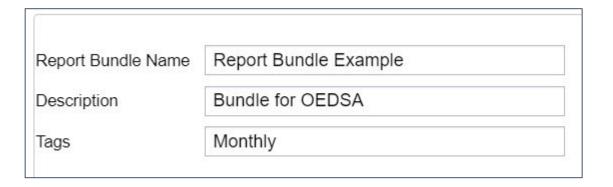
- View scheduled job
 - Visible to user that scheduled job and admins



- Benefits of using a Report Bundle
 - Schedule multiple reports to send together
 - Better Visibility view the report(s) and parameters
 - More Scheduling options
 - Easier to reschedule if needed



- Create Report Bundle
 - Enter Report Bundle Details

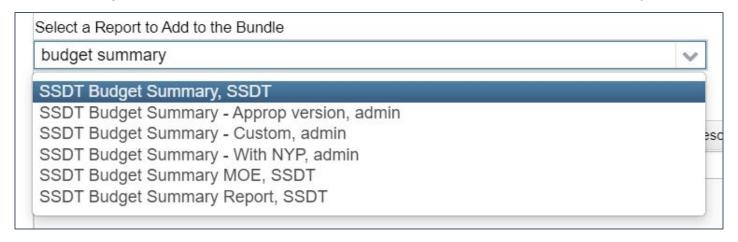


<u>User Generated Report Bundles</u> <u>Scheduling a Custom Monthly Report Bundle</u>



- Report Bundle Details
 - Report Bundle Name will show in the grid and on scheduled Report Bundles
 - Description Optional description detail that will show in grid by default
 - Tags User-defined tags to help categorize report definition for easy sorting in the grid

- Select a Report to Add to the Bundle
 - Start typing report name to filter drop down
 - Includes Template, Custom, and <u>Canned Reports</u>



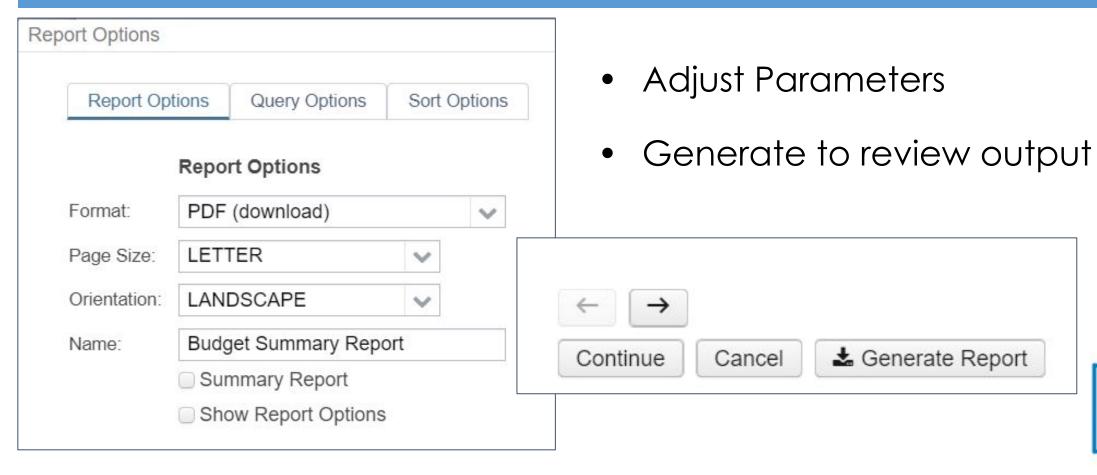


- Adding Reports
 - One row shows for each of the saved parameters
 - Created from Save and Recall report option
 - Choose + icon to select which version of the report to add to the bundle

- Reports currently in the Bundle
 - Click Edit to review report options









Save once all desired reports are added to the Report Bundle

✓ Save Ø Can	cel	
Report Bundle Name	Report Bundle Example	
Description	Bundle for OEDSA	
Tags	Monthly	



Click the clock icon to schedule a Report Bundle

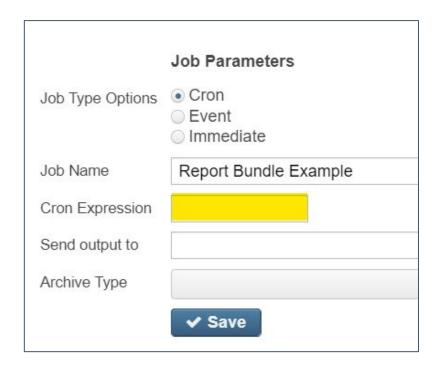
P	•	®	Ø.	0	$\overline{\mathbf{Y}}$	admin	Report Bundle Example
	Schedule a report bundle			SSDT	SSDT 1099 Multiple Return Type Archive		
0	•	(A)	8	0		SSDT	SSDT 1099 Submission Report Archive
0	•	(A)	C	0		SSDT	SSDT Calendar Year End Reports
(4)	•	(B)	8	0		SSDT	SSDT Fiscal Year End Reports
②	•	Ø	C	0		SSDT	SSDT Monthly Reports

- Job Type Options
 - Cron Schedule to send on a regular interval
 - Event Schedule to send when a specific action happens
 - Immediate Send now



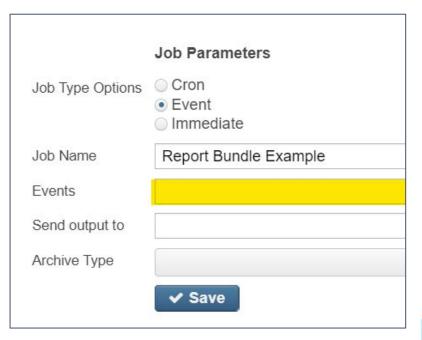


- Cron Schedule to send on a regular interval
 - Ensure Job Name is Unique
 - Enter the expression into the Cron Expression Field
 - Once saved, a Job will be created in the Job Scheduler





- Event Schedule to send when a specific action happens
 - Select an Event from the dropdown
 - FiscalPeriodCloseCompletedEvent
 - PostingPeriodCloseCompletedEvent
 - Once Saved, a Job will run when the event occurs

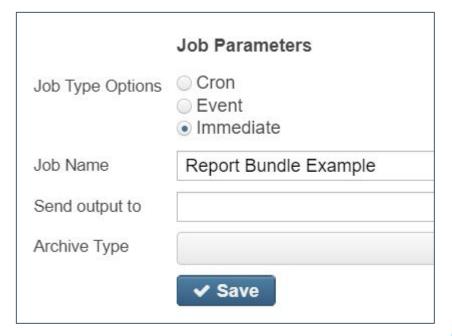




- For custom Report Bundles, the reports will generate based on the current posting period. When scheduling a Report Bundle for a posting period close event, make sure to allow the custom bundles to create before changing the current period to the new period.
 - Outstanding Purchase Order Reports
 - Budget Summary Reports
 - Cash Summary Reports



- Immediate Send now
 - Once saved, a Job will start off immediately
 - This will not interfere with other scheduling of this Bundle





- Send Output to Email
 - Enter email of intended recipient
 - Enter multiple email addresses by separating each with a comma
 - The recipient is not required to have a user account for USAS-R

- Send Output to File Archive
 - The path will always start with fileinfo://
 - Next the path will determine the tab
 - MonthlyReportFileSet
 - FiscalYearReportFileSet
 - The Group of reports must be determined fiscal year or fiscal year & period (month)



 These should be entered as numerical values where month is the period number when July is the first period of the fiscal year

Description	Path
Send Reports to Monthly Archive for December 2019 (FY2020)	fileinfo://MonthlyReportFileSet/2020/6
Send Reports to Fiscal Archive for FY 2020	fileinfo://FiscalYearReportFileSet/2020



 When the File Archive option is used with a specific Event, the path can include variables so that the file location will be based on certain event factors

Description	Path
Send Reports to Monthly Archive when connected to the event of closing a Posting Period	fileinfo://MonthlyReportFileSet/eventFiscalYear/eventMonth



- This can also be used to send via file transfer
 - Example Send to a directory
 - ftp://name:yourpassword@host.host.org sends as binary format
 - ftpa://name:yourpassword@host.host.org sends as ASCII format
 - sftp://name:yourpassword@host.host.org send as a secure file



- Archive Type (required)- Determines if reports in bundle will be combined and sent together or sent in individual notifications for each report chosen
 - Send a single notification with multiple attachments
 One email with multiple attachments
 - Send a multiple notifications with a single attachment Multiple emails with a single attachment in each
 - Send a single notification with a zip file attachment
 One email with a zip file attachment



Job Scheduler

- Utilities > Job Scheduler
 - Listing of jobs (i.e. reports or report bundles) scheduled to be generated at a specified date and time
 - Scheduled jobs can be viewed, edited or deleted
 - Users will see all jobs they have scheduled
 - Administrative users can view Jobs scheduled by all users



Job Scheduler

- Status
 - Pending Scheduled but hasn't run yet
 - Completed Finished successfully last run
 - Failed Did not finish successfully last run
 - Rejected The instance may not be configured to allow jobs (common in test/training data)



Job Scheduler

- Click directly on the row to show Job Detail
- If Failed status, the Job Result may show error
- Last Run / Next Run will show the previous timestamp the job ran and the next scheduled run
 - Determined by the cron expression used when job was scheduled
 - Can also be viewed on the grid

Thank you!

- SSDT Wiki: https://wiki.ssdt-ohio.org/
- Newsletters: https://wiki.ssdt-ohio.org/display/NEWS/Newsletters+Home



