

SCHEDULE REPORTS AND MANAGE REPORT OUTPUT Ouick Reference Guide GEN-05



#### Purpose

The purpose of this Quick Reference Guide (**QRG**) is to explain how to schedule reports to run automatically in the North Carolina Financial System (**NCFS**) Cash Management System.

### Introduction

The purpose of this Quick Reference Guide is to explain how to schedule reports to run automatically in the North Carolina Financial System. This also covers how to schedule report output.

Scheduling is a very important feature for any reporting system. It enables you to schedule long-running reports to be run when the system load is lowest or to have frequently used reports delivered to your email daily, weekly, hourly, or monthly.

NCFS is configured with a Report Scheduler by default.

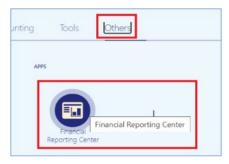
### Schedule a Report: Overview

Reports can be scheduled to run from different work areas. However, the process remains the same.

1. From Home > Tools > Reports and Analytics



From Home > Financial Reporting Center



NORTH CAROLINA OFFICE OF THE STATE CONTROLLER



# Schedule a Report - Tasks

Select a Report. Parameter choices appear.

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FBR Deposits Report	<b>.</b> *								Dor	10
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Journal Status	All		Ŧ		_					
Journal Creation - From Date	04/06/2021	Ťø		Journal Creation - To Date 04/07/2021	te	Apply				
FBR Deposits XLS Templa						-	6 j⊒	ex] v	¢ 0	Ξ

From the toolbar on the right, click on the gear (Actions) icon. Then select Schedule.

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Export	Actions
Send	
🏷 Schedule	
눦 Jobs	
Job History	
Republish from History	
Share Report Link	Þ

The **Schedule Report Job** page contains four tabs to define the options for your report job:

- $\circ$  General
- $\circ$  Output
- o Schedule
- $\circ$  Notification



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Overview     General Created b     Report Name /Custom/F     Schedule Start Imm	BR Custom/Report/Cash	Management and Treasury/FBR Deposits Report/FBR Deposits Report xdo	Outputs Output1 Destination Notification	
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Report /Custom/FBR Custon				
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Journal Status	All	*		

## 1. General Tab

The Schedule Report Job page activates the General tab by default.

Leave the default selected parameters as they are or change them to suit your requirement.

Note: Many FBR pre-built reports now have	'Current'	and 'P	rior' a	s valid	parameter	values for	
Accounting Period.							

Overview General Created by trsu Report Name /Custom/FBR C Schedule Start on Nov 8,			COA Detail Report (RPT)	AP011)/NC Payment with	COA Detail	I Report (RPTAP011).xdo	Outputs Output1 Destination Notification			[	Return S	ubmit
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# 2. Output Options Tab

On the **Schedule Report Job** page, click the Output tab.

- 1. The tab has two sections: **Output and Destination**. You can accept the default values in each section or update them, based on your needs.
- 2. The Output Table creates multiple outputs for one or more layouts by using a combination of output format, locale, time zone, and calendar.
- 3. In the Destination section, you can enter an email address. To deliver a report to multiple destinations, click Add Destination and continue adding destinations as needed.

	Created by training60 /Custom/FBR Custom/Report/Ca Start immediately	ish Management a	nd Treasury/FBR Deposits Repo	Outputs Outputs Outputs Outputs Outputs Outputs Report xdo Destination Emain Notification				Return Subm
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Name	Layout	Format	Locale	Timezone	Calendar	Save Output		
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There are five do Destination Type Email	Email Printer, P Email Add Des Output	All	bider. You can add multiple des	inations as you need. Message			η	×
-	19 Username@	osc.ne.gov						
-	*10 Username@ Ce Reply to	vosc.nc.gov					h	
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- When running any report, always use the default Destination Type: Email.
- Please do not click on the dropdown and do not select 'Printer'. If you select 'Printer' option, it MAY let you select one of the Check Printers, which will cause additional issues.
- After report completion, you can <u>download the report to laptop and print from your laptop to local</u> <u>printer.</u>

**NOTE:** If the output file is too big to send to the email destination, you will need to click on <u>Output1</u> link and the report will be downloaded. From your Downloads folder, you may select this output for printing. Navigation steps are detailed in the Managing Report Output section of this QRG.



### 3. Schedule Options Tab

On the **Schedule Report Job** page, click the **Schedule** tab.

- 2. Select **Frequency** options that meet your specific timing requirements. For example, you might want to generate reports every Friday, or every morning, or according to some other date pattern.
- 4. Once
- 5. Hourly
- 6. Minute
- 7. Daily
- 8. Weekly
- 9. Monthly
- 10. Annually
- 11. On specific dates (Use the date selectors to specify the start and end dates.)

Report Na Schee	eral Created by training60 ame /Custom/FBR Custom/Report/ dule Start on Apr 7, 2021 3:01:37 F ut Schedule Notification		nt and Tre	asury/FE	R Dep	posits	Repor	t/FBR Deposits Report.xd	Outputs Output1 o Destination Email Notification	Return Submit
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Note: Scheduled process reports will run on weekends if set to daily.

For every other day, set the report daily frequency to 2.

	neral Created by 02299560 Name /Custom/FBR Custom/Report/Fixe	d Asset/NC Asset Extract Register Report (RPTFA017)/NC Asset Extract Register Report (RPTFA017).xd
Sche	edule Start on Feb 2, 2024 3:01:32 PM F	Recur Daily
General Out	put Schedule Notification	
Define Sci	hedule Time	
Frequency	Daily 🔹	
Every	2 day(s)	
Start	Feb 2, 2024 3:01:32 PM	(UTC-05:00) New York - Eastern Time (ET)
End	Feb 7, 2024 2:01:32 PM	(UTC-05:00) New York - Eastern Time (ET)
Define Sc	hedule Trigger	
🗌 Use Trigg	ler	

This will cause every other day, week 1 will run M/W/F, week 2 will run T/Th. If you need every M/W/F, run 3 scheduled reports set weekly for M, W, and F.



### 4. Notification Tab

On the **Schedule Report Job** page, click the Notification tab.

- 3. A notification is a message that indicates that a job has finished processing. NCFS supports four notification statuses to which you can subscribe. *They are all optional*.
  - Report completed
  - Report completed with warnings
  - Report failed
  - Report skipped

General Created by training60 Report Name /Custom/FBR Custom/Report/Cash Management and Treasury/FBR Deposits Report/FBR Deposits Report.xdo Schedule Start on Apr 7, 2021 3:01:37 PM Recur Daily	Outputs Output Destination Email Notification Email
Seneral Output Schedule Notification	Return Submi
Notify By Z Email Email Address Username@osc.nc.gov	
When Z Report completed	
<ul> <li>Report completed with warnings</li> <li>Report failed</li> </ul>	
Report skipped	

## Submitting the Job

After defining all Schedule Report options, click the **Submit** button.

General Created by training60 Report Name /Custom/FBR Custom/Report/Cash Management and Treasury/FBR Deposits Report/FBR Deposits Report.xdo Schedule Start on Apr 7, 2021 3:01:37 PM Recur Daily	Outputs Output1 Destination Email Notification Email
General Output Schedule Notification	Return Submit
Notify By Email Email Address Jennifer.P.Blair@osc.nc.gov	
When Z Report completed	
<ul> <li>Report completed with warnings</li> <li>Report failed</li> </ul>	

4. This invokes the *Submit Job* dialog box with confirmation details for you to review. The confirmation details include a summary of the job, such as parameters, schedule, output, and notification.



Francisco Della		
Frequency Daily	Submit	×
Every 1 day(s) Start Apr 7, 2021 End Apr 12, 202 Define Schedule Trigg	Report /Custom/FBR Custom/Report/Cash Management and Treasury/FBR Deposits Report/FBR Deposits Report.xdo Parameters Chart Of Account:4001, Budget Fund Value Set ID:58001, Ledger Name:300000003244296, Agency: Journal Status:All, Journal Creation - From Date:04/06/2021, Journal Creation - To Date:04/07/2021 Schedule Start on Apr 7, 2021 3:01:37 PM Recur Daily Output Output1 Notification Email	AJI,
) Use Trigger	Trigger Data Model Trigger Name Trigger Retry Limit Trigger Pause Time Trigger Parameters	
	Report Job Name Daily Deposit Report Email OK Cand	el

Enter a name for this job and click OK. A confirmation message will appear.

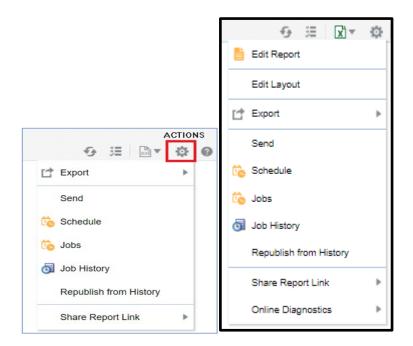
5. Congratulations! You have successfully scheduled a report!



# Using the Actions Menu

The Actions menu provides more actions that you can take on the report.

Browse Catalog > Open (desired report) > Actions icon (gears)



- **Export** exports the report to Microsoft Excel (NCFS default).
- Send launches a simplified version of the Schedule Report Job page where you can select the output, destination, and notification options, but you cannot Schedule the Report. Basically, it allows you to immediately email the report.
- **Schedule** creates a job to run and distribute the report, as documented in the beginning of this job aid.

			Payment with COA Detail Report (RP	TAP011)/NC Payment wi	ith COA E	Detail Report (RPTAP011).xdo	Outputs Output1 Destination Notification				Return	Submi
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- Jobs enables you to view and manage currently scheduled jobs for this report.
- Job History enables you to view completed and running report jobs.



- **Republish from History** enables you to select a previously scheduled, completed job and specific output for viewing in the report viewer.
- Share Report Link enables you to generate a link that you can copy and reuse, based on the report that you are currently viewing. When you select an option, a dialog displays the URL to the report.

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	Edit Report	
	Edit Layout	
	😭 Export	
	Send	
	눦 Schedule	
	눦 Jobs	
	Job History	
	Republish from History	
Current Page	Share Report Link	
No Header	Online Diagnostics	
No Parameters		
Document Only		

- **Current Page** displays the current page as shown.
- **No Header** displays the current report without the BI Publisher logo, tabs, or navigation path.
- **No Parameters** displays the current report without the header or any parameter selections. The Actions menu, Export, and View Report menus are still available.
- **Document Only** displays the URL to the current report document only. No other page information or options are displayed.



# Jobs – Manage Report Jobs

The **Manage Report Jobs** page displays information about future scheduled/recurring report jobs and enables you to take actions on these jobs.

From the Actions menu, select Jobs.

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Ē	Edit Report		
	Edit Layout		
Ċ	Export	►	
	Send		
Ċ.	Schedule		
Ť.	Jobs		
J	Job History		
	Republish from History		
	Share Report Link	►	
	Online Diagnostics	►	

Use the Manage Report Jobs page to:

- a. Edit a report job
- b. Delete a report job
- c. Suspend/Resume a report job
- d. View the job details



age Report Jobs			Home C	atalog Favorit	es 🔻 Dashboar	rds 🔻 Ne	ew 🔻 Ope	en 🔻 Signe	d In As Tr	aining60	Tra
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Note: Use Oracle's online help to obtain more information on this page!



# a. Edit a Job

- **Step 1:** Click the Edit icon for the job in the results table.
- **Step 2:** Edit the job details using the General, Output, Schedule, and Notification tabs.
- **Step 3:** Click Update Job to save your changes to this job; or, to save the edited job as a new job, click Submit as New and enter a name for the new job.

#### b. Delete a Job

- **Step 1:** Select the job by clicking anywhere in the table row that lists the job information. You can select multiple jobs by clicking additional rows.2
- **Step 2:** Click the **Delete** button X.



# c. Suspend/Resume a report Job

To pause a job:

- **Step 1:** Select the job by clicking anywhere in the table row that lists the job information (do not click the job name link).
- **Step 2:** Click the **Pause** button **II**. The status of the job changes to Paused.

To resume a job:

- **Step 1:** Select the job by clicking anywhere in the table row of the paused job (do not click the job name link).
- **Step 2:** Click the **Resume** button **W**. The status of the job changes

	Report Jobs									
•	0 11 00									
	Name	Report Name	Status	Start Time	End Time	Frequency	Owner	Scope	Edit	History
	One Time Run Test	/Custom/FBR Custom/Report/Fixed Asset/NC Asse	Paused	Feb 02, 2024 11:08:26 PM		Single Job	02299560	Private	/	History

# d. View the Job Details

**Step 1:** Click the **Report Job Name** to view a detail page for the job.

🖀 Manage Report Jobs		
Last Refreshed Feb 05, 2024 02:47:50 PM Eastern Stand Select time zone to view jobs (UTC-05:00) New York		
	Start Time       Equals Or Later Than       ▼         End Time       Equals Or Earlier Than       ▼	
Report Job Name	Report Name	Status
One Time Run Test	/Custom/FBR Custom/Report/Fixed Asset/NC Asse	<ul> <li>Active</li> </ul>

**Step 2:** To view delivery information for each output, click the **expand icon** hext to the output name.



Step 3: Click Return to return to the Manage Report Jobs page.

anage Report Jobs		Home	Catalog	Favorites <b>v</b>	Dashboards V	New 🔻	Open 🔻	Signed In As	Training60 T	raining60
Generated Thu Apr 15, 2021 06:47:10 A	M Eastern Daylight Time							Ret	urn Ø	-
Report Availabilit Notification Report Job Schedule Report Scope Private Active End Date Trigger Data Model Trigger Ramy	Custom/Report/Cash Management and		Avallability F	Report/FBR						
Limit Trigger Pause Time Trigger Parameters Report Parameters Period Current Period										Ţ

# Managing Report Output

After defining the Schedule options, submit the job. Perform the following steps:

1. Click **Submit**. This invokes the *Submit Job* dialog box with confirmation details for you to review. The confirmation details include a summary of the job, such as parameters, schedule, output, and notification. Enter a name for this job and click **OK**. A message confirms that the job has been successfully submitted.

Schedule Report Job	Home Catalog New -	Open v Signed In As weblogic v
<ul> <li>diverview</li> <li>Openanal Created by weblogic</li> <li>Report Name /Sample Lite/Published Reporting/Reports</li> <li>Schedule Start immediately</li> </ul>	Outputs Outputt Salary Report.xdo Destination Notification Email	Return Submit ©
General Output Schedule Notification Disgnostic	Submit	0
Crable SGL Explain Fran Enable Data Engine Disprcatio	Report /Sample LiterPublished Reporting/Re Paranosters Depurtment.All, Employee.All Schedule Start immediately Octput Notification: Email Tigger Data Modbal Tigger Param Trigger Param Tine Bigger Parameters	perfor/Salary Report.ndo Job "DebyReport" successfully submitted OK
	Report Job Name DailsReport	OK Care



 To monitor or edit your job, navigate to the Manage Report Jobs page. You access the Manage Report Jobs page by clicking Home > Report Jobs on the global header. You will check this report job in the next section.

Create	Recent		
<ul> <li>Analysis and Interactive Reporting Analysis Dashboard More </li> <li>Mobile Application Mobile App</li> <li>Published Reporting Report Report Job More </li> <li>Actionable Intelligence Agent Action</li> <li>Performance Management Scorecard KPI KPI Watchlist</li> <li>Marketing Segment Segment Tree List Format</li> </ul>	Open Edit More ▼         Open Edit More ▼         Open Edit More ▼         Open Edit More ▼         NC Payables Unpaid Invoic         Open Edit More ▼         NC SWCAP Assets Report         Open Edit More ▼         Download Desktop Tools ▼	<ul> <li>NC Asset List for Physical Open Edit More ▼</li> <li>NC Agency Chart of Accou Open Edit More ▼</li> <li>NC Asset Type Reconciliati Open Edit More ▼</li> </ul>	

3. To see the results of your job, navigate to the **Report Job History** page. Click Open > Report Job History on the global header. You can see the job on the **Report History** page if it is running or completed. If the job is still active, the job will be listed under Report Jobs.

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Time Zone used for filters and disp	play (UTC-05:00) New York - E	astern Time (ET)	•				
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Report Job Histories							
	Report Na	me	Status Start	Processing	End Processing	Owner	Scope



4. Click the **Report Job Name** hyperlink.

.ast Refre	eshed Wed Jan 31, 2024 07:10:08	AM Eastern Standard Time 😏						Re	turn	?
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G	General Information			Report Job Execution Information						
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⊿ R	Report Parameters									
		Chart of Accounts Fiscal Year	GOVERNOR:0500-DEPA TREASURER:0900-DEPA OF LABOR:1200-DEPAR DEPARTMENT OF TRAM DEPARTMENT OF PUBL DEVELOPMENT AND EA BENEFITS:2600-DHHS S VOCATIONAL REHABILI WELL-BEING:3000-DHH	EMBLY,0200-ADMINISTRATIVE OFFICE OF THE COUR RTMENT OF THE SECRETARY OF STATE 0600-OFFICI RTMENT OF JUSTICE: 0.00-0LF CHOUSING FINANCE A STMENT OF INSURANCE; 1300-DEPARTMENT OF ADMINIST SPORTATION, 1060-DEPARTMENT OF ENVIRONMENT IC SAFETY:2000-DHHS CENTRAL ADMINISTRATION 2: RLY EDUCATION:2300-DHHS SERVICES FOR THE DE ERVICES FOR THE BLIND & DEAF & HARD OF HEAR INTION:2400-DHHS DISABILITY D'ETERMINISTION SEI SMENTAL HEALTH:3100-DHHS BLACK MOUNTAIN CE SMENTAL HEALTH:3100-DHHS SLASVE	E OF THE STATE GENCY;1000-DE NISTRATION;14( AL QUALITY;170 100-DHHS AGIN AF;2400-DHHS S NG;2700-DHHS S RVICES;2B00-DI NTER;3200-DHF	AUDITOR PARTMEN 0-OFFICE 0-WILDLIF G & ADULT SOCIAL SE HEALTH SI HIS PUBLI IS J. IVERS	0700-DEPAR T OF AGRICU OF THE STAT E RESOURCE SERVICES;22 RVICES;2500 ERVICES REG C HEALTH:2D SON RIDDLE E	IMENT OF THE LTURE;1100-DE E CONTROLLE S COMMISSION 200-DHHS CHILI DHHS HEALTH GULATION;2800- 00-DHHS CHILE EVELOPMENT	STATE PARTM R:1500- I:1900- D DHHS D AND F CENTE	

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Delivery 1: Email	Budget Fund		- · · ·		Gregorian	4	
Delivery 1: Email From	Budget Fund Hierarchies_RPTRTR153		- · · ·		Gregorian	~	
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Delivery 1: Email From To Cc Reply To	Budget Fund Hierarchies_RPTRTR153 emzn-dev6.bi.sender@workflow bridget.madsen@osc.nc.gov bridget.madsen@osc.nc.gov		- · · ·		Gregorian	•	
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5. To print (or simply view) output...click on <u>Output1</u> link and the report will be downloaded. From your Downloads folder, you may select this output for printing.

ob History					Home	Catalog
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Status All 🔻						
Output Name	Template	Format	Locale	Time Zone	Calendar	Status
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	NC Master Report for			(UTC-05:00) New York - Eastern Time		Status
Delivery 1: Email	NC Master Report for Budget Fund	XLSX	English (United States)	(UTC-05:00) New York - Eastern Time		Status
Delivery 1: Email	NC Master Report for Budget Fund Hierarchies_RPTRTR153	XLSX	English (United States)	(UTC-05:00) New York - Eastern Time		Status
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#### **Increment Date Parameters**

You can provide expressions in the report's date parameter fields.

If the scheduled report includes date parameters, when you enter values for the schedule dates, you can't change the date values. Every time a scheduled instance of the report is run, the same date parameters are used. If changing the date parameters is required for each run, you can enter an expression in the date parameter field of the scheduler to calculate the date each time the report job runs.

For example, if you create a schedule for a report that runs every Monday to capture data from the previous week, you need to update the date parameters for the report to increment to the first and last days of the previous week.

Enter one of the following functions using the syntax shown to calculate the appropriate date at the scheduled runtime for the report:

- {\$SYSDATE()\$} Current date, the system date of the server on which Publisher is running.
- {\$FIRST\_DAY\_OF\_MONTH()\$} First day of the current month
- {\$LAST\_DAY\_OF\_MONTH()\$} Last day of the current month
- {\$FIRST\_DAY\_OF\_YEAR()\$} First day of the current year
- {\$LAST\_DAY\_OF\_YEAR()\$} Last day of the current year



The date function calls in the parameter values aren't evaluated until the report job is processed by the Scheduler.

You can also enter expressions using the plus sign (+) and minus sign (-) to add or subtract days as follows:

- {\$SYSDATE()+1\$}
- {\$SYSDATE()-7\$}

For this example, to capture data from the previous week, each time the schedule runs, enter the following in the report's date parameter fields:

- Date From: {\$SYSDATE()-7\$}
- Date To: {\$SYSDATE()-1\$}

You can set up the date functions as default parameter values in the data model. In this case, every time a user views the report from the report viewer, the date parameter is calculated according to the expression supplied for the default value.

Note: Numerous FBR pre-built reports now have 'Current' and 'Prior' as valid parameter values for **Accounting Period**.

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# Wrap Up

This example of scheduling reports uses the FBR Deposit Report and the FBR Cash Availability Reports.

# Additional Resources

# **WBT Courses**

• GEN106

# Quick Reference Guides (QRGs)

• CM-36

